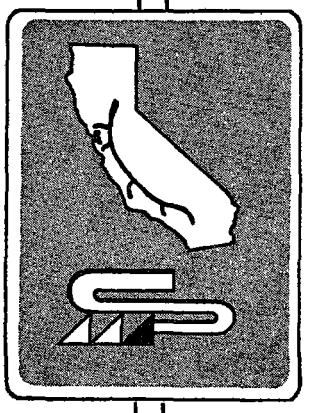

State of California

THE RESOURCES AGENCY

Department of Water Resources

BULLETIN No. 132-69

THE CALIFORNIA STATE WATER PROJECT IN 1969

JUNE 1969

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

STATE OF CALIFORNIA

The Resources Agency

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FOREWORD

The Bulletin 132 series constitutes the Department of Water Resources' annual report on the California State Water Project: it documents management actions completed during past years, it supports the determination of charges for water service to be paid by project customers during the ensuing year, it systematically updates the Project's long-range cost and financial projections, and it outlines project management plans for future years.

Bulletin 132-69, "The California State Water Project in 1969", is the seventh report in this continuing series.

Previous bulletins have noted those specific actions which have affected the course of the State Water Project prior to about April 1, 1968. The documents noted therein are bound and placed in the Department's Reference Collection and are a permanent part of the Project's historical records. While management actions have been recorded to April 1 of each year (to be as current as possible at time of publication), actual and estimated cost and water data have reflected conditions as of the end of the preceding calendar year to allow time to complete necessary analyses. This difference in reporting period is eliminated commencing with this bulletin. Hereafter, *all* information presented in the Bulletin 132 series will be on a calendar-year basis.

Important actions that have occurred since December 31, 1968 will be described in next year's bulletin. These actions include legislation to increase the interest ceiling on revenue bonds from 5.5 to 6.5 percent, signed into law by Governor Reagan on March 17, 1969; the subsequent sale of $94,995,000 in Oroville Division Revenue Bonds, Series B, on April 1, 1969; and the Governor's decision concerning Dos Rios Dam and Reservoir, announced May 13, 1969. On that date, the Governor directed the Department to work with the Corps of Engineers to make further analyses of possible water development plans on the Eel River watershed which would not involve the flooding of Round Valley in Mendocino County.

In 1968, the Legislature provided additional funds for financing project construction. Construction is well under way—more than half completed—and has been carried to the very southern extremities of the Project.

Completed portions of the Project are meeting all demands for project water deliveries; are producing electrical power and energy; and are helping to satisfy current needs for flood control, recreation, and fish and wildlife enhancement. Water has been delivered to contractors in the Upper Feather and South Bay areas since 1962. Water deliveries to the North Bay area and the San Joaquin Valley commenced in 1968. Deliveries in Southern California are to begin in 1971.

William R. Gianelli

William R. Gianelli, Director
Department of Water Resources
The Resources Agency
State of California
May 27, 1969

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R. DEAN THOMPSON, Executive Officer

CHARLES A. McCULLOUGH
Engineer

ABSTRACT

The Bulletin 132 series, a continuing annual progress report, provides a central reference for current data for the State Water Project.

This Bulletin reports actual and estimated costs and electric power and water data for the State Water Project as of December 31, 1968, and reports on project management activities for April 1 through December 31, 1968.

Project operations in 1968 included 293,243 acre-feet of project water delivered, 934,000 recreation days of use provided by project reservoirs, and 628 million kilowatt-hours of electric energy generated at project powerplants. At the end of 1968, Oroville and Del Valle Dams were ready to control flooding of the Feather River and Alameda Creek, respectively.

During 1968, payments of water charges received from project contractors totaled $26.2 million, expenditures for project operating costs totaled $7.8 million, and payments of interest on general obligation bond sales totaled $18.8 million. In addition to water charges, project contractors advanced about $7.0 million to finance costs of delivery structures and extra aqueduct capacity constructed by the State at the contractors' request.

Legislation was enacted in 1968 to form the Delta Water Agency (AB 942), which enables interests in the Sacramento–San Joaquin Delta to enter into meaningful agreements with the State and with the United States regarding water supply and water quality in the Delta. Legislation was also enacted which provides for additional project funds (SB 261), commencing in fiscal year 1970-71, through additional appropriations of $14 million annually of tideland gas and oil revenues, and elimination of an estimated $32.6 million of general obligation bond proceeds from the offset provisions of the Burns-Porter Act.

The current estimate of total capital costs for the entire construction period of the project (through 1985) is $2,796 million, exclusive of costs of the Pyramid Power Complex (which would be financed by revenues bonds) and the San Joaquin Drainage Facilities. Of this total cost, $1,448 million had been incurred by the end of 1968.

CHAPTER I. CONTINUING HISTORY OF THE PROJECT

This chapter is a record of specific actions completed during the period April 1 through December 31, 1968 which concern the management of either (a) the State Water Project as a whole or (b) the individual facilities which comprise the Project. For the most part, these actions centered upon problems relating to the financing of those construction costs of the Project remaining to be incurred.

Actions Affecting Project Management

The 1968 legislative session was the most significant in regard to the State Water Project since the 1959 session, when the Burns-Porter Act was enacted. Legislation in 1968 provided for more money to finance construction costs of the Project than any other legislation since ratification of that Act by the Electorate in the General Election of 1960.

In addition, milestone legislation was enacted which will facilitate solution of the many water problems associated with the Sacramento–San Joaquin Delta––the hydrologic "hub" for statewide water resources development. Formation of a Delta Water Agency was authorized by the enactment of Assembly Bill 942,(1) through which local Delta interests may enter into meaningful agreements with the State and with the United States relative to water supply and water quality within the Agency's area.

The additional financing provided for by 1968 legislation permitted the Department to adjust to a program of minimum, rather than maximum, deferment for construction of certain project units. However, current adverse financial and economic conditions prevailing throughout the nation––reflected both in rising costs of labor and construction materials and in higher interest rates on borrowed capital––have eroded the Project's basic funding capability. These adverse conditions emphasize the necessity for the Department to maintain strict economy in the critical years immediately ahead.

During 1968, the Project's recreation and fish and wildlife program was given new direction and guidance. Also, the California Water Commission exercised an expanded role in management of the State Water Project, under new responsibilities assigned by the 1967 Legislature.(2)

Management of the Project reached a notable, but anticlimactic, milestone during the reporting period. Although more than 99 percent of the firm water delivery capability of the Project had been committed by the end of 1964, the water contracting program for the State Water Project was not brought to a final conclusion until June 26, 1968. On that date, the program was completed with the execution of an amendment to the water supply contract with the San Bernardino Valley Municipal Water District, raising that agency's maximum annual entitlement to project water by 4,600 acre-feet. All of the firm water delivery capability of the Project of 4,230,000 acre-feet annually has now been committed under repayment contracts.

Project Financing

During the reporting period:

- The financial capability of the Project was significantly enhanced when Senate Bill 261 of the 1968 Legislature was enacted.

- A potentially disastrous effect on the financial capability of the Project and, more significantly, of the Project's water contractors was averted when the voters of California rejected Proposition 9 (the "Watson Amendment") during the General Election in November 1968.

Senate Bill 261

Last year's bulletin noted continuing actions to alleviate a predicted deficiency in funds available for completing project construction. As of April 1, 1968 (the end of the reporting period for Bulletin 132-68), legislation was pending (Senate Bill 11 and identical Assembly Bill 15) which would provide additional funds to insure delivery of project water on schedule to Southern California service areas.(3) The provisions of these two bills were ultimately amended into Senate Bill 261, which was signed into law on June 28, 1968, by Governor Reagan.(4)

Enactment of Senate Bill 261 provides for continuing additional funds commencing in fiscal year 1970-71, through appropriation of an additional $14 million annually of the State's tideland gas and oil revenues to the Department for financing project construction. Also, the new law removes an estimated $32.6 million of general obligation bond proceeds from the offset provisions of the Burns-Porter Act. (Otherwise, these proceeds would have been reserved for financing the construction of future facilities.) This was accomplished by providing for the transfer of the balance available in the California Water Fund as of June 28, 1968 ($10.6 million), and moneys which otherwise would have been deposited in the Fund through fiscal year 1971-72, to the Central Valley Water Project Construction Fund ($22.0

(1) Calif. Stats. of 1968, Chapter 419. (See p. 66, Bulletin 132-68.)

(2) See pp. 25–28, Bulletin 132-68.

(3) See pp. 21–22, Bulletin 132-68.

(4) Calif. Stats. of 1968, Chapter 411.

million of which otherwise would have been "offset" under a minimum-deferral-type construction schedule).

Enactment of Senate Bill 261 is estimated to provide for $74.6 million in additional financing for completing the initial works of the Project through 1972, (the $64.0 million indicated in last year's bulletin plus the $10.6 million balance available in the California Water Fund on June 28, 1968).

In addition, enactment of Senate Bill 261 authorizes the Wildlife Conservation Board of the Resources Agency to design and construct fishing access sites along those aqueducts constructed as parts of state water projects. Plans for the sites shall be subject to the approval of the Department; however, the sites shall be constructed upon lands acquired for joint project purposes, although additional lands as may be necessary shall be acquired by the Department. Such works as may be necessary to assure safe use of the sites by the public shall be constructed by the Department.

Finally, the new law provides that the Director's signature may be placed by facsimile on the face of Central Valley Project revenue bonds. (In the sale of Oroville Division Series A bonds, Director Gianelli had to sign his name to every one of 30,000 bonds.)

Proposition 9

A potentially disastrous financial situation was averted when the voters rejected Proposition 9, the Watson constitutional initiative amendment. The bond or debt limitations of the amendment very likely would have denied to most water agencies—and possibly even to the State—authority to issue additional bonds. These limitations would not have allowed the support from property taxes of any new bond issues which caused (a) the total outstanding bonds of a taxing unit to exceed 5 percent of its assessed valuation or (b) the total overlapping bonded indebtedness of all overlapping taxing units to exceed 20 percent of their assessed valuation. The immediate danger to the Project would have been to halt further general obligation bond sales until after clarification of the amendment's meaning by the courts. The more significant impact of passage of Proposition 9 on the Project would have been to prevent water contractors from selling bonds or entering into other long-term obligations to complete their water-distribution systems.(5)

Adjustment of Construction Schedules

With the additional funds provided for by enactment of Senate Bill 261, the Department was able to reschedule construction of certain project units which otherwise would have had to be deferred.(6) At least six of those units which otherwise were considered for postponement are now being given top priority:(7)

- *Perris Dam and Lake Perris.* Design work is expected to be completed in time to allow advertising for construction in the spring of 1970—and completion of construction by early 1973.
- *Devil Canyon Powerplant.* Construction will proceed.
- *Pyramid Power Complex.* Discussions with electric utilities will be expedited in an effort to achieve optimum development of the power potential at this location. This construction would be financed through the issuance of revenue bonds.
- *West Branch of the California Aqueduct between Oso Pumping Plant and Pyramid Lake.* This portion of the West Branch serves the Pyramid Power Complex and will be staged to coordinate with the construction of that facility.
- *Abbey Bridge Dam and Reservoir.* Purchase of land will proceed, in view of rapidly rising values at the site.
- *Phase II of the North Bay Aqueduct.* Purchase of a portion of the right-of-way through rapidly developing urban areas will proceed to avoid excessive escalation of land costs. A joint land acquisition program with the Division of Highways, Department of Public Works, will commence.

Project Cost Economies

The special survey established by Governor Reagan soon after taking office in January 1967, conducted by volunteer business and industrial executives, was referred to in last year's bulletin.(8) The "Governor's Survey on Efficiency and Cost Control" had made 53 recommendations relating to the activities of the Department. The Department has implemented 37 of these recommendations, has one pending, has rejected 10, and has referred five to the Legislature and the Department of Finance.

As two notable examples of actions taken during the reporting period on recommendations by the Governor's Survey on Efficiency and Cost Control and which will directly affect the management of the State Water Project, the Department:

- Established a Program Analysis Office, which will provide critical evaluation of work programs and

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(5) See Water Service Contractors Council Memo No. 413, "Information Requested from Contractors Concerning Proposition 9, (the Watson Amendment)", September 16, 1968, and Water Service Contractors Council Memo No. 423, "Proposition 9", October 16, 1968.

(6) See pp. 2–8, Bulletin 132-68.

(7) Department of Water Resources memorandum from Alfred R. Golze' to Mr. William R. Gianelli, "Project Schedules", July 22, 1968, approved July 23, 1968. (See Water Service Contractors Council Memo No. 395, "Project Financing", June 28, 1968.)

(8) See pp. 8–13, Bulletin 132-68.

assessment of performance in carrying out these programs.(9)

Decentralized the Department's program control system.(10)

The "Consulting Board on Evaluation of Design and Construction, State Water Project", establishment of which was also described in last year's bulletin,(11) submitted a detailed letter report on July 26, 1968.(12)

The Board concluded that the primary factors for minimizing the remaining construction costs to be incurred for the Project, without sacrificing appropriate serviceability and quality objectives, are:

"(1) Rigorous control of completeness and adequacy of plans and specifications on which bids are invited, affording significant reduction in changes in plan, over-run of construction quantities, and extra work.

"(2) Upgrading of contract administration and construction capability, facilitating improved cost control by construction procurement contractors.

"(3) Economic optimization of conceptual design of features downstream from Tehachapi Crossing for which options remain for selection of alternatives.

"(4) Candid recognition of the interlocking problem of the construction timetable and the desirability of enhancing cost control on the remainder of the current project."

The Department is continuing to use the services of the Board during fiscal year 1968-69.

Recreation and Fish and Wildlife Program

Since the change of State Administration in 1967, the recreation and fish and wildlife program for the State Water Project has been given new direction. The Recreation Task Force report(13) and the Resources Agency policy statement,(14) which supersedes the Task Force report, have been described in previous bulletins. During 1968, the Department initiated the preparation of guidelines to implement the Resources Agency policy and to develop a planning program for specific recreation features during the next five years.

The Senate Committee on Water Resources held a hearing in Lancaster October 24, to consider the Department's proposed program(15) for recreation and fish and wildlife.(16) At that time, the Department presented a revised draft report of its intended program. The revised draft reflected comments made on the Department's original draft by the California Water Commission, other state departments, the United States Forest Service, and others.

Though the future program is being redirected, the Department has expended considerable project funds for recreation and fish and wildlife enhancement. California Water Code Section 11912 provides a procedure whereby tideland oil and gas revenues may be obtained in amounts equal to the Department's expenditures for recreation and fish and wildlife enhancement at state water projects to the extent of $5 million annually.

In Bulletin No. 153-68,(17) the Department reported to the Legislature that $2,942,840 had been expended through June 30, 1967 to acquire lands for recreation developments and that $10,568,454 had been expended for joint costs allocable to recreation and fish and wildlife enhancement. The joint costs reported were for those associated with Frenchman and Antelope Dams and Lakes, and for Grizzly Valley Dam and Lake Davis--all completed project facilities. (The Department has expended considerable funds for the costs of multiple-purpose project facilities currently under construction. The portions of these costs which are allocable to recreation and fish and wildlife enhancement will not be reported to the Legislature until after completion of construction of the respective facilities.)

By enactment of Senate Bill 867,(18) the 1968 Legislature gave its unqualified approval of the $13,511,294 so far reported. (This amount includes $8,260,841 reported to the 1967 Legislature in Bulletin 153-67, which was approved, with qualifications, by California Statutes of 1967, Chapter 1672.)(19)

As of December 31, 1968, a total of $15,000,000 of tideland oil and gas revenues had been deposited in the Central Valley Water Project Construction Fund for reimbursement to the Department for those recreation and fish and wildlife enhancement costs approved by the Legislature.

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(9) Department of Water Resources Memorandum from W.R. Gianelli to Executive Staff, "Program Analysis Office", June 25, 1968.

(10) See Water Service Contractors Council Memo No. 411, "Minutes of September 19, 1968", September 4, 1968.

(11) See pp. 10–12, Bulletin 132-68.

(12) Letter report from Consulting Board on Evaluation of Design and Construction, State Water Project to Mr. William R. Gianelli, July 26, 1968. Board members are Mr. R. A. Skinner (Chairman), Mr. Paul Baumann, Mr. J. R. Morton, and Mr. Robert C. Schuknecht.

(13) See p. 14, Bulletin 132-68.

(14) See p. 15, Bulletin 132-68.

(15) See Water Service Contractors Council Memo No. 425, "Recreation and Fish and Wildlife Program", October 24, 1968.

(16) See Water Service Contractors Council Memo No. 405, "Recreation and Fish and Wildlife for the State Water Project", August 12, 1968.

(17) See p. 18, Bulletin 132-68.

(18) Calif. Stats. of 1968, Chapter 897.

(19) See p. 16, Bulletin 132-68.

California Water Commission

Legislation enacted in 1967 assigned to the California Water Commission new responsibilities that relate directly to the management of the State Water Project.(20) Under one of these added responsibilities, the Commission is required to annually review the progress of construction and operation of the Project and to report its findings to the Department and to the Legislature. In August 1968, the Commission transmitted its first annual report under this responsibility.(21) The Commission recommended future management emphasis on the following critical items:

- Construction of the Tehachapi Division, with special attention to the Charley V. Porter Tunnel.
- Drainage in the San Joaquin Valley and continued emphasis on methods of removing nutrients and other materials from agricultural waste waters.
- Procurement of electrical, mechanical, and control equipment for pumping plants, powerplants, and water-delivery systems.
- Construction of the Clifton Court Forebay and early initiation, preferably jointly with the Federal Government, of the Peripheral Canal.
- Maintenance of construction schedules without resorting to costly crash programs.
- Financing for recreation and fish and wildlife developments associated with the State Water Project.
- Coordinated operation of the State Water Project and the federal Central Valley Project now and in the future, and continued high-level coordination among all agencies in future planning and construction, where appropriate.

Effective November 13, 1968, the Executive Secretary of the California Water Commission will be known and designated as the Executive Officer.(22)

Actions Affecting Individual Project Facilities

The remainder of this chapter describes significant actions and events pertaining to individual facilities of the State Water Project that occurred during the general period April 1 through December 31, 1968.

Upper Feather Division

In December 1968, approval was given for the expenditure of sufficient project funds to define land requirements for Abbey Bridge Dam and Reservoir and to acquire such lands.(23) The purchase of lands now will result in overall economic benefits through savings in land value escalation and use of an estimated $187,823 in available federal funds.

Last year's bulletin described the exercise by the Plumas County Flood Control and Water Conservation District of an option under its water supply contract to request state construction of the Grizzly Valley Pipeline.(24) Under the provisions of a Joint Exercise of Power Agreement(25) executed with the Plumas County Flood Control and Water Conservation District in June 1968, the District will design and construct the Grizzly Valley Pipeline with funds advanced by the State and funds provided by a grant from the Economic Development Administration of the United States Department of Commerce. Construction is scheduled to be completed by 1970.

The federal grant will be in an amount equal to 60 percent of the cost, not to exceed $426,000, of the Grizzly Valley Pipeline and the District's related treatment facilities. The grant reduces the State's heretofore expected expenditure of project funds for the Pipeline and, in addition, provides the necessary funds for constructing the District's treatment facilities.

Oroville Division

Transfer of the Feather River Fish Hatchery from a construction to an operational status was approved in June 1968.(26) The Hatchery is being operated by the Department of Fish and Game. While construction of the Oroville Division is rapidly nearing completion, three

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(20) See pp. 25–28, Bulletin 132-68.

(21) Letter from Ira J. Chrisman, Chairman, California Water Commission, to Honorable William R. Gianelli, August 12, 1968 (See Water Service Contractors Council Memo No. 407, "Commission Inspection of Project", August 19, 1968.)

(22) Calif. Stats. of 1968, Chapter 1041. (Effective November 1, 1968, Mr. R. Dean Thompson was appointed to fill the vacancy left by the death of Mr. William M. Carah on October 10, 1968. Mr. Carah had served 11 years as Executive Secretary of the California Water Commission.)

(23) State of California memorandum from Casper W. Weinberger, Director of Finance, to Mr. W. R. Gianelli, December 17, 1968.

(24) See pp. 81–82, Bulletin 132-68.

(25) "Agreement between the State of California, Department of Water Resources and Plumas County Flood Control and Water Conservation District for the Construction of Grizzly Valley Pipeline and Related Facilities", dated June 14, 1968.

(26) Department of Water Resources memorandum from Clyde E. Shields and Robert B. Jansen to Mr. Alfred R. Golze', "Transfer of Feather River Fish Hatchery from Construction to Operational Status", June 3, 1968, approved June 13, 1968.

problem areas, which have been described in previous bulletins, affect the reimbursable construction costs of the Division. These are federal flood control contributions, Miners Ranch Canal, and recreation and fish and wildlife enhancement developments.

Federal Flood Control Contributions

In previous years, the House Appropriations Committee has reduced the requested appropriation for Oroville flood control contributions through the application of a 2-5/8 percent interest rate in the cost allocation process, instead of the 3-1/2 percent rate provided for by the federal-state contract.(27) It was reported last year that, as a result of conferences between Director Gianelli and the Committee's staff late in April 1968, there was some optimism that the United States eventually will honor its contract with the State. The intent of the contract was acknowledged in 1968 by the House Appropriations Committee.

In June 1968, the House Appropriations Committee recommended an appropriation of $10,510,000 for Oroville flood control.(28) The President's Budget for fiscal year 1968-69 had requested an appropriation of $11,061,000—which would have covered the federal share for fiscal year 1967-68, plus the accrued deficit of about $5,147,000 which has resulted from inadequate federal appropriations since 1962. The reduction in the President's request by the Committee was part of an across-the-board cut of 5 percent on all civil works projects. This is in contrast to previous years, when the budget request for Oroville has been specifically reduced by the Committee.

As of December 31, 1968, actual payments by the Corps of Engineers for Oroville flood control totaled $56,625,000. (An additional $8,587,000 had been transmitted to, but not yet received by, the Department as of that date.) Total eventual payments under the contract are now estimated at about $70 million—only about 6 percent higher than the original estimate made 10 years ago in 1959.

Recreation and Fish and Wildlife Enhancement Developments

By letter agreement signed in May 1968, the Department authorized the Department of Parks and Recreation, upon notice, to enter upon, construct upon, and in all other ways use the lands, buffer strips, and water surfaces which constitute or are adjacent to Oroville Dam, Lake Oroville, Thermalito Forebay and Afterbay, and related works.(29) The Department retains those interests in land and water surfaces which are necessary for operation of the Oroville Division for purposes other than recreation. The objective of the agreement is to permit and facilitate the long-term development of these areas as part of the State Parks System.

Some 5,700 acres of dredger tailings and range land bordering the Feather River for 9.5 miles southwest of the City of Oroville were originally acquired by the Department to provide about 80,000,000 cubic yards of rock and earth for the Oroville Dam embankment. About 200 acres have since been returned to Butte County for relocation of sanitary dumps and other purposes. The borrow area and adjacent Feather River have a high potential for recreation, fish, and wildlife, and will receive substantial use. These lands will be set aside and managed by the Department of Fish and Game.

In July 1968, the Department released a plan for development of the recreation and fish and wildlife potential of the Oroville borrow area. The plan contains information necessary to support a budget request for General Fund appropriations for initial development ($186,500) and operating costs during the first year of operation ($80,700).(30)

Miners Ranch Canal

Previous bulletins have referred to a controversy which concerns potential damage to the Oroville-Wyandotte Irrigation District's Miners Ranch Canal from the operation of Lake Oroville.(31) The Canal was constructed under a Federal Power License granted subsequent to the Department's license for construction and operation of the Oroville Division. The Department is of the opinion that the Canal was not constructed in a manner compatible with the State's authorized facility and that the Department has no responsibility for damage to the District's inadequate facility.

The District brought an action before the State Public Utilities Commission in 1966 under California Water Code Section 11590, demanding a replacement facility. On August 13, 1968, the Commission issued a decision ordering the Department to construct a replacement pumping plant (which would cost from $5 million to $10 million). The Department requested a rehearing before the Commission, but this request was denied.

The Department has brought action before the Federal Power Commission and is of the opinion that the federal commission has jurisdiction in this matter, rather than the state commission. A proposed decision by the federal commission's examiner has been issued supporting the Department's position. Objections to this decision were

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(27) See p. 15, Bulletin 132-67, and pp. 30–32, Bulletin 132-68.

(28) See Water Service Contractors Council Memo No. 373, "Federal Flood Control Contribution to Oroville Dam", June 27, 1968.

(29) State of California memorandum from W. R. Gianelli to Honorable William Penn Mott, Jr., May 23, 1968.

(30) Department of Water Resources Bulletin 118-18, "Oroville Borrow Area, Water Resources Recreation Report", June 1968 (See Water Service Contractors Council Memo No. 398, "Bulletin No. 117-18", July 12, 1968.)

(31) See pp. 32–33, Bulletin 132-68.

filed by the District with the federal commission, and oral arguments were heard by that commission on November 18, 1968.

The Federal Power Commission ordered the formation of a three-man consulting board to review plans by the District and the Department for either repair or relocation of the facility. As of December 31, 1968, the board was awaiting submission of plans by the District and the Department.

From time to time, the Department and the District have met in efforts to negotiate a settlement of this matter. To date, these negotiations have been without tangible results, since the respective positions are many millions of dollars apart.

North Bay Aqueduct

In view of the additional project funds provided for by enactment of Senate Bill 261, right-of-way will be acquired in those areas where land values are expected to significantly escalate prior to commencement of Phase II construction in the mid-1970's.(32) The Department is proceeding with designs for Phase II construction in sufficient detail to define these right-of-way requirements.

South Bay Aqueduct

Efforts concerning the reevaluation of the costs of Del Valle Dam and Lake Del Valle allocable to flood control, and of the amount properly contributable by the Federal Government, were described in previous bulletins.(33) In 1968, a report was completed by the San Francisco District of the South Pacific Division, Corps of Engineers, as to whether the present contractual limit on the magnitude of federal contributions should be modified. As of December 31, 1968, the report was under review in Washington.

Meanwhile, the construction of Del Valle Dam has been completed. The Division of Safety of Dams made a final inspection of the Dam in October 1968, and issued a certificate authorizing full storage therein.

Delta Facilities

Several decisions were made in July 1968 concerning the alignment and capacity of reaches of the proposed Peripheral Canal in Sacramento County.(34)

Officials of the Department, the Bureau of Reclamation, and the Corps of Engineers concurred in a plan to coordinate the Peripheral Canal with the Morrison Creek Flood Control Project. Under this plan, flood flows from the Morrison Creek Project will be accepted into the Peripheral Canal, thus eliminating the need for single-purpose facilities in both projects. In addition, the coordinated plan will permit location of the Peripheral Canal in time to provide fill material for the Westside Freeway (Interstate 5) in Sacramento County, remove the conflict between the Flood Control Project and the Delta Meadows State Park, and reduce total land requirements.

In September 1968, an agreement was executed between the Departments of Water Resources and Public Works concerning the use of borrow material for construction of the Westside Freeway in Sacramento County.(35) The agreement is similar to that of January 1968 concerning construction in San Joaquin County.(36)

California Aqueduct

For management of planning and construction activities, the California Aqueduct is subdivided into six divisions of the 444-mile main line and two branches from the main line. Significant actions in regard to each division and branch of the California Aqueduct during the period April 1 through December 31, 1968 are described in the following paragraphs:

North San Joaquin Division

The California Aqueduct from the Delta Pumping Plant to O'Neill Forebay was transferred from a construction to an operational status, effective August 7, 1968.(37)

San Luis Division

In August 1968, the California Water Commission agreed to change the name of Five Points Operations and Maintenance Subcenter to the Coalinga Operations and Maintenance Subcenter.(38) In October 1968, the Commission considered and approved the following names currently used by the Bureau of Reclamation: San Luis Dam, San Luis Reservoir, San Luis Canal, San Luis Pumping-Generating Plant, Los Banos Detention Dam, Los Banos Detention Reservoir, Little Panoche Detention Dam, and Little Panoche Detention Reservoir.(39)

South San Joaquin Division

On May 17, 1968, the Department, the water service contractors, and others joined Kern County in the County's dedication of the California Aqueduct, held at Lost Hills.(40)

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(32) See p. 2.

(33) See p. 18, Bulletin 132-67, and p. 34, Bulletin 132-68.

(34) Department of Water Resources memorandum from Carl A. Werner to Messrs. Teerink, Golze', and Gianelli, "Peripheral Canal Alignment and Coordination", July 1, 1968, approved July 17, 1968.

(35) State of California Interagency Agreement No. 460593, "Peripheral Canal Borrow by Highways", September 11, 1968.

(36) See pp. 34–35, Bulletin 132-68.

(37) Department of Water Resources memorandum from Messrs. Clyde E. Shields and Robert B. Jansen to Mr. Alfred R. Golze', "Transfer of California Aqueduct—Delta Pumping Plant to O'Neill Forebay from Construction to Operational Status", August 1, 1968, approved August 7, 1968.

(38) Letter from W.R. Gianelli to Honorable Henry T. Leckman, Mayor, City of Coalinga, August 13, 1968.

(39) Letter from Herbert W. Greydanus to Mr. Robert J. Pafford, Regional Director, Region 2, Bureau of Reclamation, October 10, 1968.

(40) See Water Service Contractors Council Memo No. 381, "May 17 Meeting, Lunch and Dedication", May 3, 1968.

Tehachapi Division

In September 1968, the Department released a report which documents the methods and procedures followed in the selection of pump manufacturers for furnishing and installing the centrifugal pumps at the A.D. Edmonston Pumping Plant.(41) The report also records the testing program carried out for models of the pumps.

A memorandum report concerning visitor facilities at the A.D. Edmonston Pumping Plant was prepared in July 1968.(42) The report presents (a) the results of a study to determine the number of visitors that can be expected at the Plant, (b) a documentation of the decisions made on visitor facilities already incorporated in the Plant's design, and (c) the method of operation of the visitor facilities. On the basis of this report, (a) no additional expense will be incurred to provide permanent visitor access to the existing construction overlook, (b) no permanent overlook will be planned at this time, and (c) a visitor parking lot will be developed adjacent to the east wing of the Plant.

Mojave Division

Ground-breaking ceremonies marking the start of construction of Cedar Springs Dam were held November 9, 1968, near the site of the right abutment of the Dam.(43)

The Department stated, in an August 1968 report, that construction of Buttes Dam was determined to be geologically and engineeringly feasible.(44) Findings of the Department's investigation included the following:

- Use of the site for an earthfill dam 140 feet high is feasible from the standpoint of structural competence.

  On the basis of prices then prevailing, the construction costs of such a dam and reservoir (excluding land costs) are estimated to be $7.1 million.

- Suitable materials for constructing major portions of the earthfill embankment are available in adequate quantities in the reservoir area—though aggregates will probably have to be imported.

  The foundation rock is essentially impermeable, and reservoir leakage is not expected to be a problem.

Further investigation is necessary to establish economic justification, financial feasibility, and optimum size of Buttes Dam and Reservoir.

Santa Ana Division

Under the construction schedule for Devil Canyon Powerplant,(45) construction of the first stage (one generator unit—one penstock) will be completed by 1972, and construction of the second stage will be completed as required to meet the growth in conveyance (currently estimated to be by the end of 1975).

West Branch

In accordance with a decision made in April 1968 concerning the aqueduct between Oso Pumping Plant and Pyramid Power Complex, design was reinitiated for Quail Canal.(46) Quail Canal will be designed for 3,100 cubic feet per second of conveyance capacity, with 2,000 acre-feet of storage in Quail Lake. Initially, the Canal will discharge into Gorman Creek, to permit project water deliveries on schedule pending completion of the Pyramid Power Complex. Final design of the Peace Valley Pipeline and Pyramid Power Complex was discontinued pending a decision regarding the participation of the City of Los Angeles, or other electric utilities, in this facility.

(The Board of Commissioners of Water and Power for the City of Los Angeles approved a proposal by its Department of Water and Power on May 16, 1968 to see if a feasible joint undertaking with the Department can be developed. As of December 31, 1968, negotiations were under way between the Department and the City of Los Angeles, Department of Water and Power.)

Coastal Branch

The total capacity of the Badger Hill and Las Perillas Pumping Plants will be 450 cubic feet per second when all pump units are installed. Each plant will have six pump units: three units with a capacity of about 38 cubic feet per second each and three units with a capacity of about 112 cubic feet per second each. The three small units have been installed in each plant by the State. Installation of the remaining large units were planned so as to be ready for service in 1972, 1976, and 1981.

Last year's bulletin described the situation whereby the Berrenda Mesa Water District, a member unit of the Kern

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(41) Department of Water Resources Bulletin 164, "Tehachapi Crossing Design Studies, Book VI, August 1968" (See Water Service Contractors Council Memo No. 414, "Book VI of Bulletin No. 164", September 17, 1968.)

(42) Department of Water Resources memorandum from Carl L. Stetson to Messrs. Teerink, Golze' and Gianelli, "Visitor Facilities Report on A.D. Edmonston Pumping Plant", July 18, 1968, approved August 8, 1968.

(43) See Water Service Contractors Council Memo No. 427, "Cedar Springs Dam Ground Breaking", November 1, 1968.

(44) Department of Water Resources memorandum from James J. Doody to Mr. Alfred R. Golze', "Feasibility Study—Buttes Dam and Reservoir", August 14, 1968, approved August 23, 1968.

(45) Department of Water Resources memorandum from Alfred R. Golze' to Mr. William R. Gianelli, "Revision to Project Schedules", April 3, 1968, approved April 3, 1968.

(46) Ibid.

County Water Agency, was permitted to install one pump unit each in the Las Perillas and Badger Hill Pumping Plants—each with a capacity of about 120 cubic feet per second.(47) These pump units were used together with the state-installed units to make 1968 deliveries from the Coastal Branch.

Agreements covering installation(48) and operation(49) of the temporary pump units were executed during the reporting period.

Under the installation agreement, the District was permitted to install, at its expense, one unit in each of the two pumping plants. The District shall remove the units within 90 days following January 1, 1981, or whenever the State executes a contract or purchase order for the furnishing or furnishing and installing of the sixth and final unit for each of the two pumping plants. However, the State has an option to purchase the units, or portions thereof, in lieu of requiring removal by the District.

Under the operating agreement, the State shall control the pumping units owned and installed by the District and shall operate, maintain, and repair them as an integral part of the State Water Project. The costs of operating and maintaining the units shall be allocated among water contractors in the same manner as if the State owned the units, except that the charges to contractors other than the Kern County Water Agency shall not be increased as a result of the State's use of the District's pumps. The District shall be responsible for any repair and replacement costs associated with the units.

By this arrangement, project service to contractors supplied from the Coastal Branch will be enhanced and demands on limited project funds will be deferred (for those pump units which otherwise would have to be installed by the State for service in 1972). As of December 31, 1968, the Berrenda Mesa Water District had indicated interest in the installation of additional pump units in the Badger Hill and Las Perillas Pumping Plants, and negotiations were under way.(50)

Middle Fork Eel River Development

Last year's discussion of the Development pointed out that, should studies then under way indicate the desirability of further study of a broad multiple-drainage basin plan, such further study may affect the Department's selection of the Glenn Route for the export of Eel River water to the Sacramento Valley—but not the selection of Dos Rios Dam and Reservoir as the logical multiple-purpose storage site for conserving such water.(51)

Considerable opposition has developed regarding the Dam and Reservoir.

Last year's discussion also mentioned then-pending legislation which would specifically authorize the Secretary for Resources to indicate to the United States the State's intent to administer recreation and fish and wildlife enhancement at the proposed Dos Rios Dam and Reservoir under the Federal Water Project Recreation Act. (This action would enable the Corps of Engineers to allocate a substantial portion of the joint costs of the Dam and Reservoir to recreation, thus reducing costs allocable to water supply.)

This pending legislation passed the Assembly but died in the Senate.(52)

In November 1967, the Corps of Engineers prepared a draft report on the proposed Dos Rios Dam and Reservoir project. The Department reviewed this report and recommended that:

- The State support Congressional authorization of the proposed project.
- The State contract for the water supply that would be conserved by the Dam and Reservoir under the provisions of the Water Supply Act of 1958.
- The final sizing of the Dam and Reservoir be subject to modification based on additional study by the Department and the Corps of Engineers.

Official comments of the State of California on the draft report, which were prepared by the Resources Agency, gave qualified support for authorization and requested continued coordination by the Corps of Engineers with the State throughout the project's planning period.(53) These comments were further explained in a letter by the Secretary for Resources in May 1968.(54) In the meantime, the final report was adopted by the Chief of Engineers and was transmitted for state review on July 5, 1968.(55)

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(47) See p. 79, Bulletin 132-68.

(48) Agreement Between Berrenda Mesa Water District and the State of California, Department of Water Resources, for Access to and Encroachment on State Water Project Right-of-Way and Facilities for Installation of Pumps and Appurtenances in Las Perillas and Badger Hill Pumping Plants, May 15, 1968.

(49) Agreement Between the State of California, Department of Water Resources, Kern County Water Agency and Berrenda Mesa Water District for Operation of Pumps Supplied by Berrenda Mesa for the Badger Hill and Las Perillas Pumping Plants, September 6, 1968.

(50) Letter from W. C. Bryant, Engineer-Manager, Kern County Water Agency, to Mr. Carl L. Stetson, November 19, 1968.

(51) See pp. 41–46, Bulletin 132-68.

(52) Assembly Bill 552 of the 1968 Regular Session.

(53) Letter from N. B. Livermore, Jr. to Colonel Frank C. Boerger, District Engineer, U. S. Army Corps of Engineers, March 28, 1968.

(54) Letter from N. B. Livermore, Jr. to Colonel Frank C. Boerger, District Engineer, U. S. Army Corps of Engineers, May 3, 1968. (See Water Service Contractors Council Memo No. 384, "Dos Rios Project", May 15, 1968.)

(55) U. S. Army Engineer District, San Francisco, Corps of Engineers, "Eel River Basin, California, Interim Report on Water Resources Development for Middle Fork Eel River", April 1968.

The Senate and Assembly Water Committees held a hearing on August 16, 1968 on Dos Rios Dam and Reservoir to receive comments from local groups and individuals. A second session was held on October 17, 1968 to hear from the Corps of Engineers, the Department and other state agencies, and the State Water Project's water service contractors. The Legislative Committees are using the hearing testimony, plus independent analysis and study, as the basis for their comments on the Corps' final report to the Secretary for Resources for inclusion in the State's comments to be forwarded to the Federal Government. (This is the first time that the Legislature has called committee hearings to make its own review of a federal water development proposal under the provisions of federal law.)

The Director's statement before the Committees presented the reasons the Department is supporting authorization of the project, subject to final sizing of features based on additional study by both the Department and the Corps of Engineers.(56) The Director also responded to the request of the Committees for a report on the status of the Department's selection of the route for conveying Eel River water to the Sacramento Valley. The Director referred to the California Water Commission hearing on the routing in Eureka, August 2, 1968, and to recommendations to the Director as a result of the Commission's analysis of the matter.(57)

The California Water Commission:

Stated that a recommendation for a full reanalysis now of Eel River routing would be premature and that a decision on this matter should await the completion of studies now under way by the Department.

Indicated the special emphasis which should be given in those studies.

- Emphasized that studies relating to the routing of Eel River water should in no way delay authorization by the Federal Government of proposed Dos Rios Dam and Reservoir.

Pointed out that federal and state development of projects in the North Coastal area will result in regional benefits and that "there is a very real obligation on the part of local agencies to assume much responsibility for realizing these benefits."

The Department's Advance Planning Program for the Middle Fork Eel River Basin has been extended through fiscal year 1973-74. Investigative activity for 1968-69 and 1969-70 is being directed toward a reexamination of issues concerning the alternative routing of Eel River waters. A report is scheduled for completion in June 1970 which will cover the specific fields of investigation recommended by the California Water Commission. These include:

- Reexamination of the possible effects of Eel River water upon the fishery and recreation resources of Clear Lake.

- Evaluation of the economics involved in satisfaction of local service areas' needs, in conjunction with the provision of supplies needed for the State Water Project.

- Special analysis of the concept of stabilization of the level of Clear Lake, both with and without Eel River water.

The report will also present a comparison of the most favorable southerly and easterly routing of Eel River waters and will provide a basis for determining the extent to which further routing studies should be undertaken.

San Joaquin Drainage Facilities

Last year's bulletin pointed out that joint land acquisitions were not possible for the federal San Luis Drain and the state San Joaquin Drainage Facilities south of the vicinity of Gustine. However, joint federal-state studies had been initiated to establish the economic feasibility of treatment of agricultural waste waters. These studies will facilitate a decision by January 1970 as to such treatment and the point of discharge for the drainage facilities. (At that time, the federal San Luis Drain must be extended northward from the vicinity of Gustine.) Furthermore, the San Joaquin Valley Drainage Advisory Group was formed in May 1967 to develop (a) a physical plan to meet the agricultural waste water disposal needs of the Valley and (b) a means for paying the reimbursable costs of the works contemplated under such a plan.(58)

The final report of the San Joaquin Valley Drainage Advisory Group is expected to be released early in 1969.

Progress in the joint federal-state treatment studies--conducted by the Department, in cooperation with the Bureau of Reclamation and the Federal Water Pollution Control Administration at the Interagency Agricultural Waste Water Treatment Center near Firebaugh--is reported in the Department's Bulletin 174 series.(59)

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(56) For a copy of the Director's statement before the Committees on October 17, 1968, see Water Service Contractors Council Memo No. 424, "Dos Rios", October 24, 1968.

(57) See Water Service Contractors Council Memo No. 420, "Eel River Routing", October 14, 1968.

(58) See pp. 46–47, Bulletin 132-68.

(59) Department of Water Resources Bulletins 174-1, "The Fate of Pesticides Applied to Irrigated Agricultural Land", May 1968, and 174-2, "Progress Report, San Joaquin Valley Drainage Investigation, Quality and Treatment Studies through December 31, 1967", August 1968.

Treatment studies have been primarily concerned with the effects of dissolved nutrients and pesticides in subsurface agricultural waste waters on disposal areas (the tentative point of discharge is in the San Joaquin River near Antioch Bridge). Studies to date indicate that dissolved minerals will have no adverse effects on the disposal areas.

Studies have disclosed that the pesticide content of the subsurface agricultural waste waters to be discharged by the Drain is not significantly higher than that of the surface waters in the areas of possible disposal. Pesticide surveillance nonetheless will be continued, though on a reduced scale.

A monitoring program is being conducted to determine the concentration of nutrients in the agricultural waste waters that must be removed from the San Joaquin Valley, with the aim of preventing any detriment to the disposal area. Nitrogen has been determined to be the most significant of the dissolved nutrients.

Current studies emphasize methods of removing nitrogen from agricultural waste waters. Pilot-scale studies are devoted to algae stripping—i.e., maximizing the growth of algae which will take the nitrogen from the water into their cell structure, and then "stripping" the algae. Other processes under study include nitrogen removal by the use of bacterial action in anaerobic filters or deep ponds.

(A Bureau of Reclamation report recommending development of the initial phase of the East Side Division of the Central Valley Project was approved for review by California and interested federal agencies. In authorizing the transmittal of the report, the Secretary of the Interior stated that he would not recommend authorization of the East Side Division unless California commits itself to construction and operation of the San Joaquin Drainage Facilities.)

Local Projects

As of December 31, 1968, the Department had approved a total of $53,667,979 in grant and loan applications under the Davis-Grunsky program. The following loans, approved by the Department between April 1 and December 31, 1968, account for $535,000 of the total:

- A $457,000 loan to the North Shasta Lake Community Services District in Shasta County for construction of a municipal water distribution system.

- A $78,000 loan to the Miranda Community Services District in Humboldt County for construction of a municipal water distribution system.

Of the total approved applications as of December 31, 1968, $10,366,530 (19.3 percent) were for loans, and the remainder (80.7 percent) were for grants.

Assembly Bill 599 of the 1968 Legislature was enacted to amend the Davis-Grunsky Act to extend from five years to ten years the period of time permitted to begin a water project on lands acquired with funds provided by a site acquisition loan, or such extension of time as might be given by the Department.(60) If construction is not started within such time, the land must be sold and the loan repaid.

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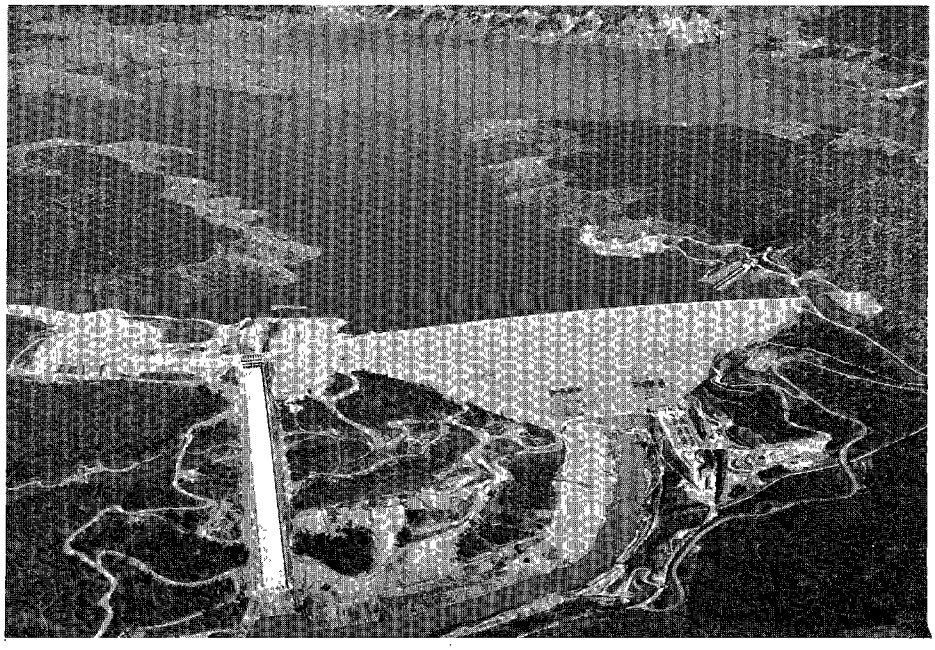
(60) Calif. Stats. of 1968, Chapter 580.



OROVILLE DAM
AND LAKE OROVILLE

CHAPTER II. PROJECT CONSTRUCTION

By the end of 1968, project construction was nearly completed in the Oroville Division, and the center of activity had shifted southward to the southern half of the 444-mile-long California Aqueduct.

Plans and Specifications

During 1968, the Department completed plans and specifications for 59 construction and procurement contracts, 44 of which were awarded by the year's end. Thirteen of the remaining contracts were to be awarded early in 1969, and two have been postponed indefinitely.

Some of the more significant plans and specifications that were completed were those for:

California Aqueduct Control System from the Delta to Buena Vista Pumping Plant Intake and Coastal Branch.

- Completion of Buena Vista Pumping Plant.
- Control System for Buena Vista and Wheeler Ridge Pumping Plants.
- Completion of Wheeler Ridge and Wind Gap Pumping Plants.
- Motors for Wind Gap Pumping Plant.
- Control System for Wind Gap Pumping Plant.
- Aqueduct from Wheeler Ridge Pumping Plant to A.D. Edmonston Pumping Plant.
- A.D. Edmonston Discharge Lines Surge Tank.
- Pastoria Siphon.
- Aqueduct from Fairmont to Leona Siphon.
- Aqueduct from Leona Siphon to Pearblossom Pumping Plant.
- Pearblossom Pumping Plant.
- Cedar Springs Dam.
- Turbine, Governor, and Valve for Devil Canyon Powerplant.
- Control System for Oso Pumping Plant.
- Castaic Dam Outlet Works.

Land Acquisition and Relocation

Approximately $12.3 million was expended during the past year to acquire land and right-of-way necessary for construction of the State Water Project--about 11.3 percent of the $109.8 million estimated total expenditure for project facilities with established land requirements.

The total expenditure for land and right-of-way from inception of the Project through December 31, 1968 amounted to $87.8 million--approximately 80 percent of the estimated total expenditure. In addition, $10.2 million was on deposit for property currently under condemnation proceedings.

During the past year, title was taken to 10,947 acres involving 660 parcels.

To make available land required for project construction, the Department presented to the California Water Commission 80 condemnation resolutions covering 470 individual ownerships. In addition, condemnation proceedings were concluded on 35 parcels comprising 1,193 acres.

Also during 1968, the Department:

- Executed 100 agreements covering 91 relocations or rearrangements, including those of utilities, pipelines, highways, roads, and railroads.

Facility or Division [a]	Total Parcels Required	Parcels Acquired in 1968	Total Parcels Acquired
Feather River Facilities			
Upper Feather Division	28	0	22
Oroville Division	933	42	862
Peripheral Canal	27	0	0
North Bay Aqueduct	12	1	4
South Bay Aqueduct	206	19	185
California Aqueduct			
North San Joaquin Div.	208	10	165
San Luis Division	23	0	20
South San Joaquin Div.	568	26	489
Tehachapi Division	2	0	0
Mojave Division	1,636	492	1,083
Santa Ana Division	648	49	358
West Branch	271	17	144
Coastal Branch	52	4	44
TOTAL	**4,614**	**660**	**3,376**

a) For features with established land requirements only (excludes the Middle Fork Eel River Development, San Joaquin Drainage Facilities, Phase II construction of the North Bay Aqueduct and Coastal Branch, Dixie Refuge and Abbey Bridge Dams and Reservoirs of the Upper Feather Division, Buttes Dam and Reservoir of the Mojave Division, and most of the Peripheral Canal)

- Completed 23 land exchange agreements.

Additional expenditure commitments made during 1968 for project relocations amounted to $10.9 million, raising the total of such commitments to $39.7 million as of December 31, 1968—approximately 82 percent of the estimated $48.3 million total relocation expenditure for all facilities with established requirements.

Construction Contracts

Construction of all those facilities with established schedules will require 473 contracts; the total payments under those contracts are estimated to be $1,725 million. By the end of 1968:

- $782 million had been incurred for 243 contracts with final progress payments completed, pending settlement of contractor claims.

  $644 million had been incurred for 81 contracts in progress as of December 31, 1968.

These expenditures and contracts include those of the Bureau of Reclamation's current construction program for the joint federal-state facilities of the San Luis Division.

A generalized construction schedule for the State Water Project is shown on Figure 1. The status of construction contracts for each major division of the Project as of December 31, 1968 is shown in the tabulation below.

CONSTRUCTION CONTRACTS AS OF DECEMBER 31, 1968

Facility With Established Construction Schedule (a	(thousands of dollars) Actual Cost of Contracts Completed	Estimated Cost of Contracts in Progress	Estimated Cost of Contracts Not Yet Started (b	Estimated Total Cost of Construction Contracts	Percent Completed
CONTRACTS ADMINISTERED BY DEPARTMENT OF WATER RESOURCES					
Feather River Facilities:					
Upper Feather Division (c	8,146	0	0	8,146	100%
Oroville Division	312,264	47,629	1,588	361,481	87%
North Bay Aqueduct	1,574	0	7,122	8,696	18%
South Bay Aqueduct	41,249	2,678	495	44,422	93%
California Aqueduct:					
North San Joaquin Division	91,029	14,022	10,985	116,036	78%
South San Joaquin Division	55,870	119,062	10,245	185,177	30%
Tehachapi Division	8,578	188,023	32,692	229,293	4%
Mojave Division	3,443	70,053	60,953	134,449	3%
Santa Ana Division	744	25,638	120,856	147,238	0%
West Branch	16,797	167,724	49,041	233,562	7%
Coastal Branch	8,198	0	47,576	55,774	14%
General Contracts (d	1,957	7,274	10,127	19,358	10%
Subtotal	549,849	642,103	351,680	1,543,632	36%
CONTRACTS ADMINISTERED BY BUREAU OF RECLAMATION					
San Luis Division (e	166,419	0	7,984	174,403	96%
TOTAL	716,268	642,103	359,664	1,718,035 (f	42%

a) Does not include Middle Fork Eel River Development, Abbey Bridge and Dixie Refuge Units of Upper Feather Division, Peripheral Canal, future augmentation of San Luis Canal, local projects (Davis-Grunsky), Pyramid Power Complex in West Branch, Buttes Dam and Reservoir in Mojave Division, or San Joaquin Drainage Facilities.

b) Includes allowance for future construction price escalation of 5% per annum for 1968-72 and 2% per annum for 1973-75.

c) Frenchman, Grizzly Valley, and Antelope Units only.

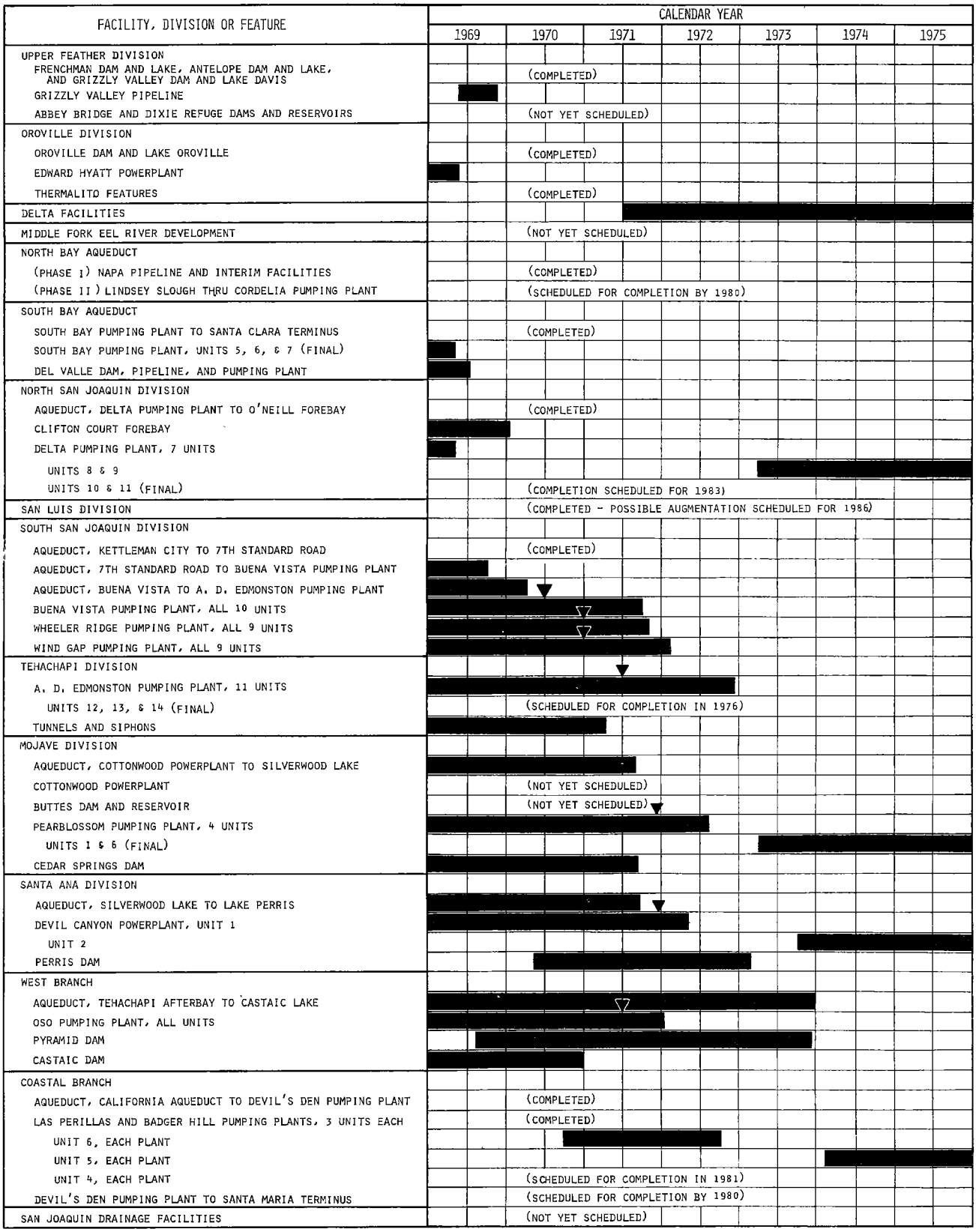
d) Includes costs of contracts for State Water Project—General and California Aqueduct—General.

e) Represents 55% of total cost of features jointly used by State Water Project and Central Valley Project.

f) Does not include additional capital costs for planning, design, right-of-way acquisition, or construction supervision; or initial operating costs during construction period. For complete estimates of capital costs of these facilities, and for facilities with no established construction schedules, see Tables 8 thru 11.

GENERALIZED CONSTRUCTION SCHEDULE

FIGURE 1



Construction Progress

Construction during 1968 centered on the California Aqueduct, primarily between the Kern-Kings County line and the San Bernardino Mountains. No construction occurred in the Upper Feather Division during 1968. Installation of power facilities in the Oroville Division continued and construction was being brought to a conclusion for the remaining features of the South Bay Aqueduct. Phase I construction of the North Bay Aqueduct and of the Coastal Branch, California Aqueduct, was completed during 1968.

Oroville Division

By the end of 1968, five of the six units at Edward Hyatt Powerplant and all four units at Thermalito Powerplant had been placed in operation and had generated commercial power. However, the transformer for one of the units developed an internal fault on Christmas Day. As a consequence, Unit No. 5 at Edward Hyatt was unavailable for operation at the end of 1968. Unit No. 6 at Edward Hyatt will be completed in 1969, and all units at both plants will be acceptance-tested in 1969. Construction of the Oroville-Thermalito Control System and the Thermalito Afterbay Ground Water Pumping System was under way in 1968, and electrical installations for the Oroville-Thermalito power facilities were being completed.

South Bay Aqueduct

One new contract was awarded in 1968, for minor modifications to the South Bay Aqueduct. Del Valle Dam was completed in June and Del Valle Branch Pipeline in December. Scheduled for completion in 1969 are installation of the remaining units for the South Bay Pumping Plant and construction of the Del Valle Pumping Plant.

California Aqueduct

Construction began, during 1968, on the portion of the California Aqueduct Control System to provide remote control and monitoring of the Aqueduct from the Delta to Buena Vista Pumping Plant Intake, including Clifton Court Forebay and Coastal Branch "Stub". Final design began on the portion of the System from Buena Vista Pumping Plant to Tehachapi Afterbay, and design continued on the Sacramento Dispatch and Control Center.

North San Joaquin Division

Construction of Clifton Court Forebay continued in 1968. Water will be supplied to the Delta Pumping Plant directly from Italian Slough until September 1969, when Clifton Court Forebay is scheduled to be operational.

Work on the Delta Pumping Plant completion contract (an amalgamation of many procurement contracts) is expected to be finished early in 1969.

The last of the original seven units of the Delta Pumping Plant, Unit No. 3, became operational in November 1968. However, Unit No. 6 was not in operation at the end of 1968 due to repair of valve seal rings.

Construction and installation of pumps for a ground water relief system along the aqueduct was started in April 1968 and completed in November.

San Luis Division

At San Luis Pumping-Generating Plant, six of the eight pump-generator units had been operational during 1968. However, at the end of the year, Unit No. 4 was undergoing high-head acceptance tests, and, since Units No. 3 and 4 are on a common discharge line, both units were unavailable for operation.

At Dos Amigos Pumping Plant, three fixed-flow and two of the three variable-flow pump units were conditionally operational at the end of 1968.

South San Joaquin Division

The entire 45 miles of concrete-lined canal from Kettleman City to 7th Standard Road became operational in mid-April and was completed in June 1968. The 33 miles of canal between 7th Standard Road and Buena Vista Pumping Plant will be completed in the latter part of 1969. Now under way is construction of the 27 miles of canal between Buena Vista Pumping Plant and Wheeler Ridge Pumping Plant and the 15 miles of canal between Wheeler Ridge Pumping Plant and A.D Edmonston Pumping Plant.

The completion contract for Buena Vista Pumping Plant was awarded in December 1968. The combined completion contract for Wheeler Ridge and Wind Gap Pumping Plants was to be awarded in February 1969.

Tehachapi Division

Construction continued, during 1968, on the A.D. Edmonston Pumping Plant and discharge lines. Work is under way on procurement of pumps, motors, and valves. Expected to be awarded in 1969 are the contracts for pumping plant completion and for the discharge lines surge tank.

Excavation was completed, in 1968, on Tehachapi Tunnels No. 1, 2, and 3, and placement of concrete lining and contact grouting was continued. Excavation of the Carley V. Porter Tunnel was about 80 percent complete as of the end of 1968. Work on the Pastoria Siphon was scheduled to begin early in 1969. The Tehachapi Afterbay contract is expected to be awarded in 1969.

Mojave Division

Completed in 1968 was construction of the Cedar Springs Dam exploration adit and the Cedar Springs interim water supply facilities, and development of the

Pearblossom Pumping Plant site. Construction continued on the aqueduct from Cottonwood Powerplant site to Fairmont. Contracts were awarded during the year for:

- Aqueduct from Fairmont to Leona Siphon.
- Aqueduct from Leona Siphon to Pearblossom Pumping Plant.
- Cedar Springs Dam.
- Pearblossom Pumping Plant.

  Pearblossom Pumping Plant, Furnishing and Installation of Pumps.

Expected to be awarded during the next year are contracts for the aqueduct reaches from Pearblossom Pumping Plant to Silverwood Lake, and the remaining equipment contracts for the initial four of the six units at Pearblossom Pumping Plant.

Santa Ana Division

Construction continued, during the past year, on the San Bernardino Tunnel and Intake Tower.

Expected to be awarded during 1969 are three of the four aqueduct contracts from Devil Canyon Powerplant to Lake Perris, the initial construction contract for Devil Canyon Powerplant, and equipment contracts for one turbine and generator for the Powerplant.

West Branch

Construction continued, in 1968, on the Oso Pumping Plant, discharge lines, pumps, motors, and valves. Four contracts were awarded to furnish various electrical equipment which will be installed under the completion contract to be awarded in 1969.

Work on the Castaic Powerplant site development was started, and procurement of electrical and mechanical equipment was initiated. The City of Los Angeles, Department of Water and Power is responsible for this work.

Construction of Castaic Dam is progressing. By the end of 1968, the Castaic Dam Embankment and Spillway contractor had placed approximately 9,500,000 cubic yards of embankment. The Castaic Diversion Tunnel was completed in October 1968, and is now available for diverting flow from two creeks around the damsite. Relocation of Lake Hughes Road, Phase I, was completed, and construction of Phase II began in December. The Castaic Dam Outlet Works contract was scheduled to be awarded early in 1969. Contracts for construction of Pyramid Dam and Quail Canal are scheduled to be awarded in 1969.

Coastal Branch

The contract for the first 15 miles of aqueduct was completed in August 1968. The Las Perillas and Badger Hill Pumping Plants were placed in operation in January 1968, when the first water deliveries were made to Berrenda Mesa Water District——a member unit of the Kern County Water Agency. Three pumping units have been installed by the Department in each plant. In addition, the Berrenda Mesa Water District was permitted to install one pumping unit in each plant, which the District shall remove in the event the State does not exercise its option to purchase the units.(61)

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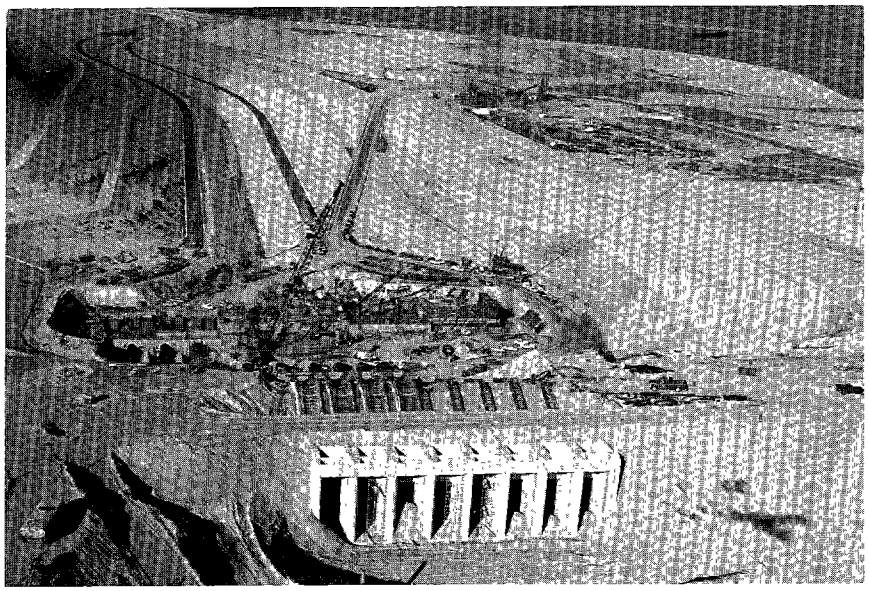
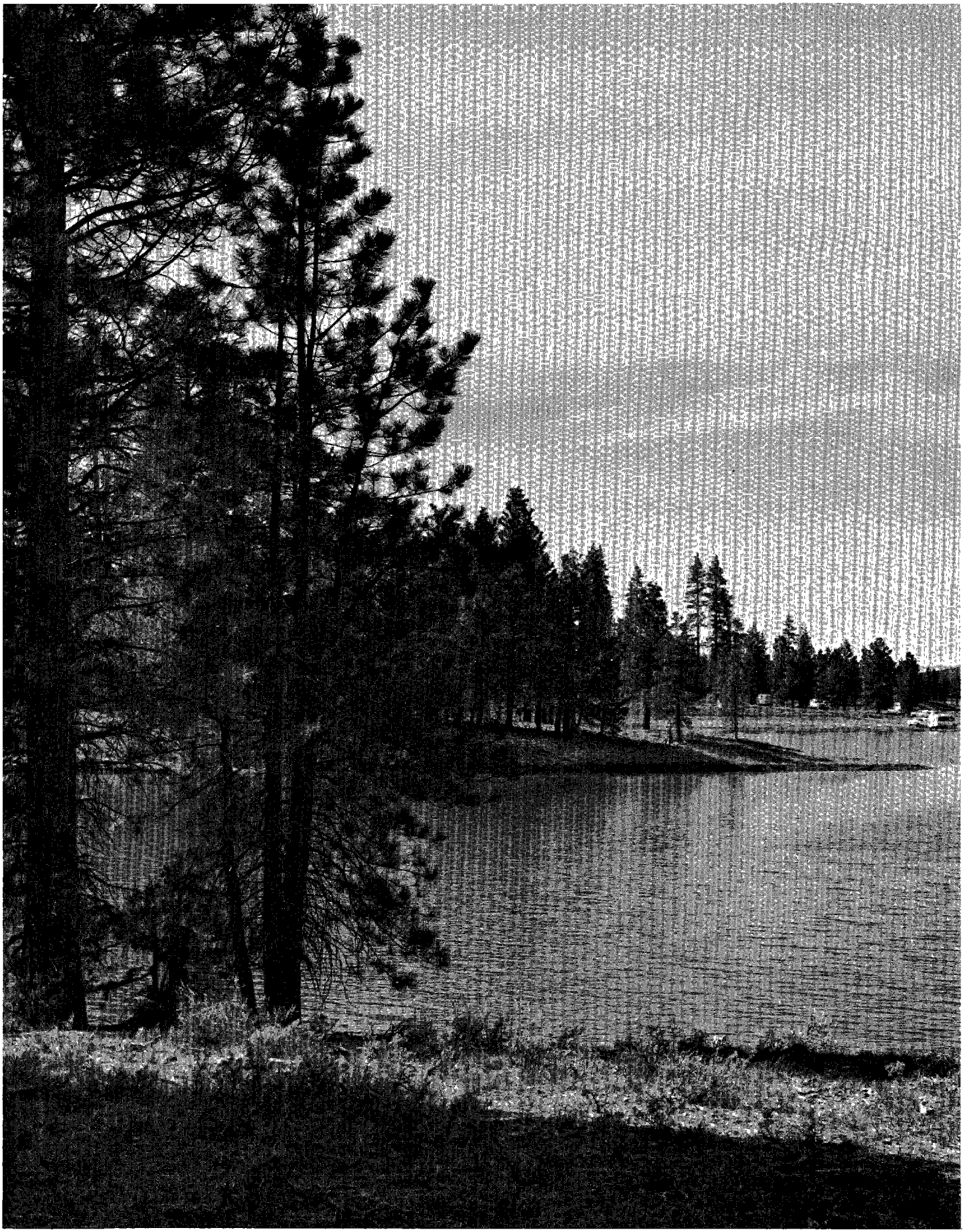
(61) See pp. 7-8.



BUENA VISTA PUMPING PLANT
WITH SIPHON OUTLET IN FOREGROUND



CHAPTER III. PROJECT OPERATIONS MANAGEMENT

This chapter summarizes the management and administration, during April 1 through December 31, 1968, of the "utility" which is growing from operations of completed portions of the State Water Project. Department activities in support of this "utility" include (a) defining and securing project water rights and (b) negotiating and administering water and electric power contracts.

Water Rights Management

Water rights management activities during the reporting period included:

- Discussions with the State Water Resources Control Board concerning the terms and conditions pertaining to the Project's rights to diversions from the Feather River and Sacramento–San Joaquin Delta (Board Decisions No. D 1275 and D 1291).(62)

  Negotiation with local water users as to their rights to the natural flow in stream channels used by the Project to define the quantities each such user is entitled to divert.

  Negotiation with water users in the Sacramento–San Joaquin Delta to define the Project's obligations with respect to potential loss of water of satisfactory quality.

Diversions Within Upper Feather Area

Last year's bulletin indicated that the Department had initiated action on Water Rights Applications No. 16954 and 22709 to secure water rights for proposed Abbey Bridge Reservoir.(63) While the Department is planning to commence acquisition of lands for Abbey Bridge Dam and Reservoir, construction has been deferred until it becomes necessary to satisfy the growth in demands for recreational opportunities in the area. Therefore, the Department has deferred action on these applications and has conducted only preliminary negotiations with protestants to these applications.

Diversions From Feather River

The Pacific Gas and Electric Company and the Joint Water Districts have first-priority appropriative rights to Feather River flows below Oroville. Diversions under these rights account for over 90 percent of the Feather River flows presently used for irrigation.

An agreement was executed in June 1968 with the Pacific Gas and Electric Company concerning operation of the outlet structures serving the Western Canal from Thermalito Afterbay.(64) Similar procedures and conditions for operation of the outlet to the Joint Water Districts' Sutter Butte and Richvale Canals are being incorporated in the water right entitlement agreement presently being negotiated with the Districts.

Negotiation of agreements with both entities is substantially complete; execution is anticipated prior to July 1969.

Diversions From Sacramento–San Joaquin Delta

Negotiations continue with:

- Organizations which represent water users throughout the Delta, to embody the November 19, 1965 Delta Water Quality Criteria in a binding agreement.(65)

- Western Delta agricultural users, to define the overland facilities required to serve water of satisfactory quality.

- Western Delta municipal and industrial users, to define the State's monetary responsibility as to the potential loss of available water of satisfactory quality in Delta channels due to project operations.

A contract among the Delta Water Agency (which was created by the Legislature in June 1968),(66) the Bureau of Reclamation, and the Department, is expected to be negotiated in 1969. As of December 31, 1968, the Delta Water Agency had not been formally organized.

Negotiations with agricultural water users in the western Delta are well under way. Plans for overland water facilities to serve the Sherman Island and Hotchkiss Tract area have been developed by the Department with the assistance of individual landowners. Plans for overland facilities to serve Jersey Island are in the preliminary stage.

Negotiation of water entitlement agreements with municipal water users in northeastern Contra Costa County was completed with execution of agreements with the Contra Costa County Water District in April 1967(67) and with the City of Antioch in April 1968.(68) These agreements are predicated on the assumption that substitute water supplies can be purchased from other sources; namely, the Central Valley Project, with delivery through the Contra Costa Canal–Kellogg Unit. [In July

(62) See pp. 62–64, Bulletin 132-68.

(63) See pp. 61–62, Bulletin 132-68.

(64) "Agreement for Operation of Outlet Facilities from Thermalito Afterbay", June 3, 1968.

(65) See p. 69, Bulletin 132-66.

(66) See p. 1.

(67) See p. 20, Bulletin 132-67.

(68) See p. 66, Bulletin 132-68.

1968, the United States Department of the Interior approved and transmitted for the State's review a feasibility report recommending construction of the proposed Kellogg Unit of the Central Valley Project.(69) The service area of the proposed unit would be in northeastern Contra Costa County and would include the areas now served by the Central Valley Project's Contra Costa Canal and an additional service area south and west of the City of Antioch.]

On October 31, 1968, the Contra Costa County Water District received $6,188.34 from the Department as a reimbursement for the 1967-68 water year under terms of the above agreement. Payments to the District will vary each year, with the maximum payment estimated at $86,000 in a dry year. The agreement with the City of Antioch becomes effective with the 1968-69 water year.

Negotiation of water entitlement agreements with industrial users in northeastern Contra Costa County is continuing. These users include Fibreboard Corporation, Dow Chemical Company, E. I. duPont de Nemours and Company, United States Steel Corporation, Crown Zellerbach Corporation, and Johns-Manville Products Corporation.

Last year's bulletin referred to the litigation initiated by the Contra Costa County Water Agency and Reclamation District No. 830, on Jersey Island, to have the Water Resources Control Board amend its Decisions D 1275 and D 1291.(70) These two entities had filed petitions for writs of mandate in the Superior Court of Contra Costa County on December 29, 1967. As of December 31, 1968, these petitions were still pending.

Under Decisions D 1275 and D 1291, the State Water Resources Control Board reserved jurisdiction concerning formulation and revision of terms and conditions relative to salinity control in the Delta. Prior to June 30, 1970, the Board will hear, review, and make such further order relative to salinity control as may be required. The Board's hearings in this regard are scheduled to commence in July 1969. The Department is preparing additional exhibits and testimony to demonstrate that substantial quantities of water will be available to satisfy water quality requirements in the Delta and to meet project requirements.

Last year's bulletin pointed out that the then State Water Quality Control Board—predecessor to the State Water Resources Control Board—adopted certain quality criteria for California's interstate and coastal waters on June 14, 1967.(71) On June 28, 1967, the Board submitted these criteria to the Federal Water Pollution Control Administration for adoption as federal standards. The Board did not submit salinity standards for the Delta on the grounds that the Federal Water Pollution Control Act did not apply to natural salinity conditions and that several important studies were under way which should be considered before such standards were imposed.

In July 1968, the Federal Water Pollution Control Administration proposed to the State Water Resources Control Board certain water quality standards for the Sacramento–San Joaquin Delta which were developed by a Department of the Interior task force appointed by Secretary Udall in 1967. The suggested standards included the concept of the November 19, 1965 Delta Water Quality Criteria, as well as certain additional water quality criteria for the western Delta and for the spawning of striped bass.

The State Water Resources Control Board followed the same approach taken by the former State Water Quality Control Board in a decision on October 24, 1968—after public hearings and staff evaluation of the proposed federal standards.(72) At that time, the Board also adopted certain supplemental policy for the Delta, which included a portion of the numerical criteria of the November 19, 1965 Delta Water Quality Criteria, but did not adopt all the suggestions of the Federal Water Pollution Control Administration. Since all parties agreed that water quality in the Delta should be at least equal to the November 19, 1965 Delta Water Quality Criteria, the Board decided to adopt these criteria as supplemental standards. The Board deferred consideration of any other water quality criteria for the Delta until after the water rights hearings to be held beginning in July 1969. The Board also emphasized that water quality and water rights in the Delta are interrelated and should be considered together.

Diversions From Aqueduct Reservoirs

Activities concerning storage of local flows at reservoirs located on the Project's aqueduct system were described in last year's bulletin.(73)

An interim agreement covering storage of Arroyo Del Valle flows in Lake Del Valle was executed on December 24, 1968, by the Department and Alameda County Water District and Pleasanton Township County Water District. Negotiations concerning a long-term (25-year) contract are nearing completion, and execution of the agreement is expected by July 1969.

Local interests on Castaic Creek are continuing in their attempt to reach agreement among themselves on the quantities of local runoff that they believe could be covered by water rights.

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(69) See Water Service Contractors Council Memo No. 410, "Kellogg Unit, Central Valley Project", August 28, 1968.

(70) See p. 64, Bulletin 132-68.

(71) See pp. 68–69, Bulletin 132-68.

(72) State Water Resources Control Board "Resolution No. 68-17, Adopting Supplemental Water Quality Control Policy for Sacramento–San Joaquin Delta", October 24, 1968. (See Water Service Contractors Council Memo No. 426, "Delta Water Quality Decision", October 30, 1968. See also Water Service Contractors Council Memo No. 418, "Delta Water Quality", October 9, 1968, for a copy of the Director's statement before the Board at its hearing on October 3, 1968.)

(73) See pp. 64–65, Bulletin 132-68.

Water Contracts Management

The past year was one of the most notable in regard to water contract management since 1960, when the water contracting program for the present Project was initiated. Highlights during 1968 include the following:

- The long-term contracting program was completed, thus committing the total firm delivery capability of the presently authorized State Water Project.

- Water was supplied from project conservation facilities for the first complete year.

  Initial water service from project facilities was provided to the San Joaquin Valley and North Bay areas.

- The Project supplied surplus water service for the first time.

However, much remains to be done, both by the Department and by the contractors, before day-to-day service needs can be provided on a routine basis. Furthermore, the Department must continue to plan for those additional water service needs which will continue beyond the limits of present contracts under the concept of an expanding State Water Resources Development System.

Completion of Long-Term Contracting Program

On June 26, 1968, Amendment 3 to the water supply contract between the State and the San Bernardino Valley Municipal Water District was executed; this amendment increased the District's maximum annual entitlement to project water by 4,600 acre-feet. With execution of that amendment, the entire "minimum project yield" of 4,230,000 acre-feet annually—the contractual limit on the total firm delivery capability of the State Water Project as presently authorized—was committed under repayment contracts. These contracts have been executed with 31 local water wholesaling and retailing agencies throughout the State, as shown on Figure 2. (In addition, a water supply contract was originally executed with the City of West Covina in December 1963 but was terminated in August 1965 and the City's entitlement added, by amendment, to the contract with The Metropolitan Water District of Southern California.) As shown on Figure 2, in addition to the 31 original contracts, the Department has executed 23 amendments covering increases in maximum annual entitlements.

Before executing original contracts and any subsequent amendments concerning entitlement increases, the Department prepares comprehensive studies as to the financial feasibility (for municipal and industrial water users) or economic justification (for agricultural water users) of such proposed project water service. Those studies basic to the original contracts are published in the Department's Bulletin 119 series. During 1968, the Department released the last two bulletins in that series for the recently completed contracting program.(74) Bulletins 119 have been published regarding the feasibility of project water service for all contracting agencies except The Metropolitan Water District of Southern California and the San Bernardino Valley Municipal Water District. The feasibility of project water service under these two original contracts, which were executed in 1960, was documented in a report prepared by the Department in 1959.(75)

Though the total delivery capability of the presently authorized State Water Project of 4,230,000 acre-feet annually is under contract, this total amount is not scheduled to be served until 2016. Each long-term contract provides for an annual schedule of "entitlements to project water", which generally build up to the "maximum annual entitlement" by 1990. In that year, over 99 percent of the total delivery capability is so scheduled to be served. However, several contracts provide for minor increases beyond this nominal year of maximum service. Schedules of annual entitlement for each contracting agency are shown in Table B-4.

Table 1 summarizes annual entitlements for all agencies located in each of the major service regions of the Project and also summarizes the estimated annual amounts of water required (a) to bring water surfaces in completed aqueduct facilities to operational levels (initial fill), (b) to compensate for recurring evaporation and seepage losses in operational aqueduct facilities (operational losses), and (c) to replace water consumed in recreational developments associated with the aqueduct facilities (recreation water). The total of these amounts represents the theoretical gross diversions of flows from the Sacramento–San Joaquin Delta (flows that would otherwise waste to the ocean) that will be required to provide for entitlements to project water. Actual annual project demands upon Delta flows will differ from these theoretical amounts due to carryover of aqueduct reservoir storage from year to year and additional unscheduled demands for surplus project water.

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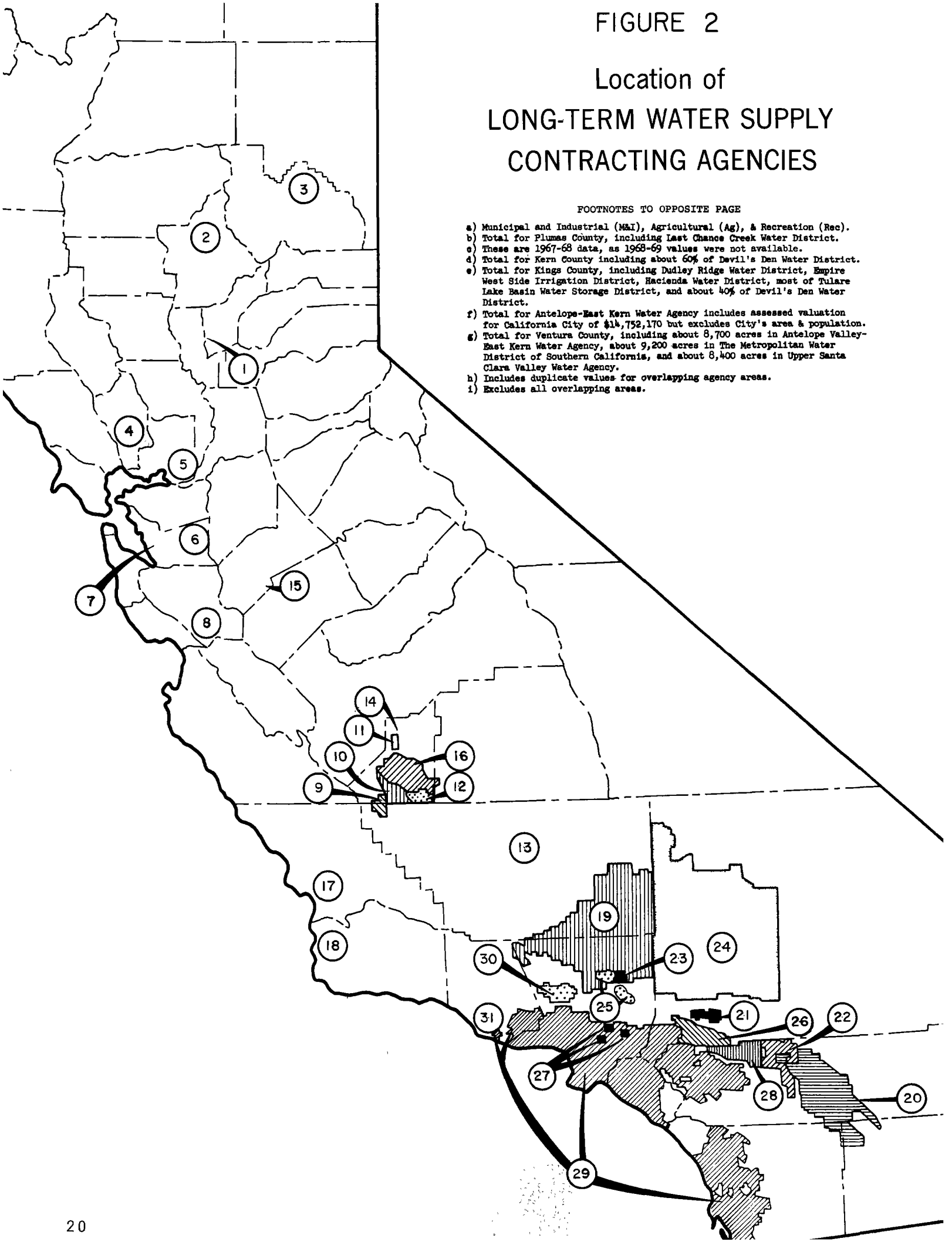
(74) Department of Water Resources Bulletin 119-29, "Feasibility of Serving the South Bay Contractors from the State Water Project", April 1968, and Bulletin 119-28, "Feasibility of Serving Kings County from the State Water Project", August 1968.

(75) Department of Water Resources Bulletin 78, "Investigation of Alternative Aqueduct Systems to Serve Southern California", December 1959 (see pp. 41 and 46, Bulletin 132-63).

FIGURE 2

Location of LONG-TERM WATER SUPPLY CONTRACTING AGENCIES



FOOTNOTES TO OPPOSITE PAGE

a) Municipal and Industrial (M&I), Agricultural (Ag), & Recreation (Rec).
b) Total for Plumas County, including Last Chance Creek Water District.
c) These are 1967-68 data, as 1968-69 values were not available.
d) Total for Kern County including about 60% of Devil's Den Water District.
e) Total for Kings County, including Dudley Ridge Water District, Empire West Side Irrigation District, Hacienda Water District, most of Tulare Lake Basin Water Storage District, and about 40% of Devil's Den Water District.
f) Total for Antelope-East Kern Water Agency includes assessed valuation for California City of $14,752,170 but excludes City's area & population.
g) Total for Ventura County, including about 8,700 acres in Antelope Valley-East Kern Water Agency, about 9,200 acres in The Metropolitan Water District of Southern California, and about 8,400 acres in Upper Santa Clara Valley Water Agency.
h) Includes duplicate values for overlapping agency areas.
i) Excludes all overlapping areas.

Location No.	Long-Term Water Supply Contracting Agency	County	Office (City)	Type of Service (a	Maximum Annual Entitlement (acre-feet)	Date Executed	Gross Area as of July 1, 1968 (acres)	Assessed Valuation (1968-69)	Estimated Population (July 1, 1968)
FEATHER RIVER AREA									
1	City of Yuba City	Sutter	Yuba City	M&I	8,300 1,300	Dec 30, 1963 Sep 28, 1964	2,900	27,200,000	16,000
2	County of Butte	Butte	Oroville	M&I	27,500	Dec 26, 1963	1,067,600	260,100,200	102,000
3	Plumas County Flood Control and Water Conservation District	Plumas	Quincy	M&I	2,700	Dec 26, 1963	1,521,000 (b	86,157,400 (b	16,200 (b
NORTH BAY AREA									
4	Napa County Flood Control and Water Conservation District	Napa	Napa	M&I	25,000	Dec 19, 1963	508,000	153,376,500	90,600
5	Solano County Flood Control and Water Conservation District	Solano	Fairfield	M&I	42,000	Dec 26, 1963	528,400	331,629,600	172,600
SOUTH BAY AREA									
6	Alameda County Flood Control and Water Conservation District	Alameda	Hayward	M&I	40,000 6,000	Nov 20, 1961 Dec 30, 1963	272,000	145,769,900	70,000
7	Alameda County Water District	Alameda	Fremont	M&I	42,000	Nov 29, 1961	60,100	261,903,400	119,500
8	Santa Clara County Flood Control and Water District	Santa Clara	San Jose	M&I	88,000 12,000	Nov 20, 1961 Dec 30, 1963	832,300	2,432,737,400	1,026,000
SAN JOAQUIN VALLEY AREA									
9	Devil's Den Water District	Kings and Kern	Fresno	Ag	11,000 1,700	Dec 20, 1963 Sep 28, 1964	8,700	1,257,600 (c	Less than 100
10	Dudley Ridge Water District	Kings	Fresno	Ag	50,000 7,700	Dec 13, 1963 Sep 28, 1964	29,900	5,788,600 (c	Less than 50
11	Empire West Side Irrigation District	Kings	Stratford	Ag	3,000	Dec 30, 1963	7,700	757,200 (c	Less than 100
12	Hacienda Water District	Kings	Corcoran	Ag	8,500	Dec 20, 1963	15,300	175,100	Less than 50
13	Kern County Water Agency	Kern	Bakersfield	Ag	1,000,000 153,400	Nov 15, 1963 Sep 28, 1964	4,310,200 (d	917,188,500 (d	339,600 (d
14	Kings County	Kings	Hanford	Rec	4,000	Aug 31, 1967	893,000 (d	163,399,300 (e	66,200 (e
15	Oak Flat Water District	Stanislaus	Westley	Ag	5,700	Mar 23, 1965	2,200	264,000 (c	Less than 50
16	Tulare Lake Basin Water Storage District	Kings and Tulare	Corcoran	Ag	90,000 20,000	Dec 20, 1963 Dec 30, 1963	193,000	13,448,000 (c	Less than 50
CENTRAL COASTAL AREA									
17	San Luis Obispo Flood Control and Water Conservation District	San Luis Obispo	San Luis Obispo	M&I	25,000	Feb 26, 1963	2,131,300	257,229,200	105,400
18	Santa Barbara County Flood Control and Water Conservation District	Santa Barbara	Santa Barbara	M&I	50,000 7,700	Feb 26, 1963 Jan 26, 1965	1,756,900	649,377,700	254,900
SOUTHERN CALIFORNIA AREA									
19	Antelope Valley-East Kern Water Agency	Los Angeles, Kern and Ventura	Lancaster	M&I	120,000 18,400	Sep 20, 1962 Sep 22, 1964	1,421,900	271,049,000 (f	82,400
20	Coachella Valley County Water District	Riverside, Imperial and San Diego	Coachella	M&I	20,000 3,100	Mar 29, 1963 Sep 28, 1964	620,600	211,106,600	61,000
21	Crestline-Lake Arrowhead Water Agency	San Bernardino	Crestline	M&I	5,000 800	Jun 22, 1963 Sep 28, 1964	45,800	38,570,800	12,300
22	Desert Water Agency	Riverside	Palm Springs	M&I	33,000 5,100	Oct 17, 1962 Oct 2, 1964	163,300	131,920,000	29,900
23	Littlerock Creek Irrigation District	Los Angeles	Littlerock	M&I	2,000 300	Jun 22, 1963 Sep 28, 1964	11,300	2,047,200	1,500
24	Mojave Water Agency	San Bernardino	Victorville	M&I	44,000 6,800	Jun 22, 1963 Sep 28, 1964	3,157,100	255,337,600	100,000
25	Palmdale Irrigation District	Los Angeles	Palmdale	M&I	15,000 2,300	Feb 2, 1963 Sep 28, 1964	73,700	14,763,700	20,100
26	San Bernardino Valley Municipal Water District	San Bernardino	San Bernardino	M&I	90,000 - 5,000 13,000 4,600	Dec 30, 1960 Nov 15, 1963 Sep 28, 1964 Jun 26, 1968	146,700	528,856,600	330,000
27	San Gabriel Valley Municipal Water District	Los Angeles	Alhambra	M&I	25,000 3,800	Nov 3, 1962 Sep 28, 1964	16,100	307,998,000	153,800
28	San Gorgonio Pass Water Agency	Riverside	Redlands	M&I	15,000 2,300	Nov 16, 1962 Jan 19, 1965	140,600	52,805,600	28,700
29	The Metropolitan Water District of Southern California	Los Angeles, San Diego, Riverside, San Bernardino, Orange & Ventura	Los Angeles	M&I	1,500,000 500,000 11,500	Nov 4, 1960 Sep 28, 1964 Aug 4, 1965	3,061,900	24,017,502,800	10,029,000
30	Upper Santa Clara Valley Water Agency	Los Angeles and Ventura	Newhall	M&I	23,000 3,500 15,000	Apr 30, 1963 Dec 22, 1964 Jan 29, 1966	125,000	147,662,600	40,800
31	Ventura County Flood Control District	Ventura	Ventura	M&I	20,000	Dec 2, 1963	1,179,500(g	869,010,800(g	350,100(g
	TOTAL				4,230,000		24,404,000(h	32,550,402,300(h	13,618,900(h
	NET AREA TOTAL				4,230,000		23,917,400(i	32,047,835,600(i	13,433,500(i

TABLE 1

ANNUAL PROJECT WATER REQUIREMENTS

(in acre-feet)

Calendar Year	Annual Entitlements Under Long-Term Water Supply Contracts (a							Estimated Initial Fill (d	Estimated Operational Losses (e	Estimated Recreation Water (f	Estimated Total Water Requirements
				California Aqueduct							
	Feather River Area	North Bay Area (b	South Bay Area (c	San Joaquin Valley Area	Central Coastal Area	Southern California Area	Total				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1967	0	0	11,538	0	0	0	11,538	8,328	1,558	0	21,424
1968	550	0	109,900	81,050	0	0	191,500	498,926	127,227	0	817,653
1969	620	0	98,700	168,075	0	0	267,395	507,808	142,811	0	918,014
1970	700	0	114,200	207,700	0	0	322,600	8,541	182,112	0	513,253
1971	890	0	116,200	258,500	0	71,600	447,190	102,182	211,685	9,500	770,557
1972	970	0	118,300	345,000	0	358,470	822,740	169,169	223,908	23,500	1,239,317
1973	1,100	0	120,400	390,800	0	474,400	986,700	241,947	234,901	29,500	1,493,048
1974	1,230	0	122,400	434,800	0	590,020	1,148,450	176,407	243,633	29,500	1,597,990
1975	1,610	0	124,500	480,900	0	706,250	1,313,260	0	255,632	29,500	1,598,392
1976	1,990	0	126,500	535,600	0	826,680	1,490,770	16,824	255,003	29,500	1,792,097
1977	2,420	0	128,600	594,100	0	944,201	1,669,321	0	252,964	29,500	1,951,785
1978	2,850	0	130,700	651,600	0	1,062,622	1,847,772	0	252,030	29,500	2,129,302
1979	3,280	0	132,700	707,700	0	1,180,273	2,023,953	0	252,026	29,500	2,305,479
1980	4,710	19,250	134,800	765,000	2,200	1,307,314	2,233,274	320	254,555	45,500	2,533,649
1981	10,390	21,750	137,000	828,500	3,300	1,427,865	2,428,805	0	255,019	45,500	2,729,324
1982	12,270	24,400	139,200	889,200	6,600	1,549,306	2,620,976	0	254,480	45,500	2,920,956
1983	14,200	27,050	141,400	955,500	9,900	1,670,857	2,818,907	0	254,408	45,500	3,118,815
1984	16,130	29,600	143,600	1,017,900	14,900	1,792,598	3,014,728	0	252,102	45,500	3,312,330
1985	19,060	32,750	145,800	1,079,100	24,800	1,914,349	3,215,859	0	251,363	45,500	3,512,722
1986	22,190	36,500	148,100	1,139,200	33,100	2,037,890	3,416,980	0	251,711	45,500	3,714,191
1987	25,370	41,250	150,300	1,201,200	41,300	2,162,641	3,622,061	0	251,987	45,500	3,919,548
1988	29,560	49,500	152,500	1,258,800	51,300	2,288,282	3,829,942	0	252,181	45,500	4,127,623
1989	33,850	58,250	156,700	1,303,100	66,100	2,413,833	4,031,833	0	251,876	45,500	4,329,209
1990	38,140	67,000	160,900	1,355,000	82,700	2,490,100	4,193,840	0	252,147	45,500	4,491,487
1991	38,180	67,000	166,400	1,355,000	82,700	2,497,500	4,206,780	0	251,246	45,500	4,503,526
1992	38,220	67,000	171,900	1,355,000	82,700	2,497,500	4,212,320	0	251,246	45,500	4,509,066
1993	38,260	67,000	177,400	1,355,000	82,700	2,497,500	4,217,860	0	251,246	45,500	4,514,606
1994	38,300	67,000	182,000	1,355,000	82,700	2,497,500	4,222,500	0	251,246	45,500	4,519,246
1995	38,350	67,000	184,000	1,355,000	82,700	2,497,500	4,224,500	0	251,246	45,500	4,521,246
1996	38,400	67,000	186,000	1,355,000	82,700	2,497,500	4,226,600	0	251,246	45,500	4,523,346
1997	38,450	67,000	188,000	1,355,000	82,700	2,497,500	4,228,650	0	251,246	45,500	4,525,396
1998	38,500	67,000	188,000	1,355,000	82,700	2,497,500	4,228,700	0	251,246	45,500	4,525,446
1999	38,550	67,000	188,000	1,355,000	82,700	2,497,500	4,228,750	0	251,246	45,500	4,525,496
2000 (g	38,610	67,000	188,000	1,355,000	82,700	2,497,500	4,228,810	0	251,246	45,500	4,525,556

a) See Table B-4 for annual entitlements of contracting agencies within each area. Note that actual annual deliveries may be more or less than entitlements and that surplus water amounts are not shown.

b) Until completion of Phase II construction between the Delta and Cordelia in 1980, the North Bay Aqueduct will deliver nonproject water from the federal Solano Project.

c) During 1962 thru 1967, the South Bay Aqueduct delivered 188,297 acre-feet of nonproject water from the federal Central Valley Project.

d) Water for initial filling of all aqueducts and reservoirs below the Delta, to bring water surfaces to operational levels.

e) Water to compensate for losses due to evaporation and seepage from facilities below the Delta.

f) Water consumed or otherwise lost due to contemplated operation of recreational developments associated with project facilities.

g) And each year thereafter for remainder of project repayment period, except for slight annual increases in Feather River Area thru 2016, when all 4,230,000 acre-feet of annual entitlements will be delivered.

Project Water Service in 1968

Project water service in 1968 totaled 293,243 acre-feet, including:

- 171,709 acre-feet of entitlements under long-term contracts.
- 121,534 acre-feet of surplus water under interim one-year contracts.

In addition, 13,563 acre-feet of water was provided from Frenchman Lake to the Last Chance Creek Water District under the seventh in a series of interim, one-year contracts (executed in March 1968), and 1,214 acre-feet of water from the Bureau of Reclamation's Solano Project was transported through completed Phase I of the North Bay Aqueduct to the Napa County Flood Control and Water Conservation District.

The monthly amounts of water delivered to each contracting agency in 1968 from the State Water Project are shown in Table 2.

Entitlement Water Service

Entitlements to project water in 1968 were reduced by a net of 15,750 acre-feet due to contract amendments executed in 1968.

In May, the Department requested that the San Joaquin Valley contractors defer project water service as long as possible due to the unusually dry spring and pumping restrictions in the Delta. As a result, amendments were executed to the contracts with three agencies for the following changes in annual entitlements:

Agency	Change in Entitlements (in acre-feet) 1968	1969	1970
Empire West Side Irrigation District	- 2,000	0	0
Hacienda Water District	- 1,300	+ 800	+500
Tulare Lake Basin Water Storage District	-14,650	+14,650	0
TOTAL	-17,950	+15,450	+500

In addition, the 1968 entitlement to the Alameda County Flood Control and Water Conservation District was decreased by 600 acre-feet because the District had not yet executed all the member unit contracts that were originally planned. After the summer season, the 1968 entitlement of the Dudley Ridge Water District was increased by 2,800 acre-feet.

Generally, all 1968 entitlements to project water were delivered in accordance with long-term contracts. However, 19,791 acre-feet of such entitlements were not delivered, for the following reasons:

The Plumas County Flood Control and Water Conservation District was granted a request that its 1968 entitlement, 250 acre-feet, be retained in Lake Davis for future delivery, contingent on project capacity to store and retain such water.(76)

- The County of Butte was unable to accept delivery of its entitlement of 300 acre-feet, since the County had not completed construction and installation of turnouts.
- The Santa Clara County Flood Control and Water District was unable to accept 17,895 acre-feet of its entitlement, primarily due to insufficient capacity in the District's distribution system. [The District was granted a request to sell a portion of its 1968 entitlement to the Alameda County Water District(77); however, Alameda declined to purchase such water due to wet weather in November and December.]
- Total deliveries of firm water to several other agencies were about 1,346 acre-feet less than their annual entitlements, due to a variety of reasons—primarily, inability to precisely forecast water delivery requirements and periods of wet weather.

Of the 19,791 acre-feet of entitlement water not delivered in 1968, the Department is currently under certain obligations to make a portion of such water available in subsequent years as follows:

- 250 acre-feet to the Plumas County Flood Control and Water Conservation District, since water had not passed over the spillway at Grizzly Valley Dam as of December 31, 1968.
- 390 acre-feet to the Alameda County Flood Control and Water Conservation District (Zone 7), 183 acre-feet to the Alameda County Water District, and 8,152 acre-feet to the Santa Clara County Flood Control and Water District, which these agencies may elect to receive at a later date pursuant to the so-called "wet weather" provisions included in their contracts. (These quantities are preliminary, subject to adjustment pending engineering and legal decisions.)

Surplus Water Service

The Department executed contracts covering the service of 134,462 acre-feet of surplus water in 1968. Of this amount, 121,534 acre-feet was delivered. The Department is under no obligation to make the 12,928 acre-feet not delivered in 1968 available for delivery in future years. Generally, all requests for surplus water service were satisfied, even though 1968 was an unusually dry year.

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(76) Letter from Carl A. Werner to Mr. Robert H. Hunter, November 10, 1967.

(77) Letter from William R. Gianelli to Mr. D. K. Currlin, October 30, 1968.

TABLE 2

PROJECT WATER DELIVERIES IN 1968

(in acre-feet)

Contracting Agency and Type of Service	Contract Amounts	Jan	Feb	Mar	Apr	May	Jun
FEATHER RIVER SERVICE AREA							
County of Butte:							
Entitlement Water	300	0	0	0	0	0	0
Last Chance Creek Water District:							
Regulated Releases Under Interim Contract	12,000	0	0	0	1,704	3,257	3,320
Plumas County Flood Control & Water Conservation Dist.:							
Entitlement Water	250	0	0	0	0	0	0
AREA SUBTOTAL: Entitlement Water	550	0	0	0	0	0	0
NORTH BAY SERVICE AREA							
Napa County Flood Control & Water Conservation District:							
Transportation of Nonproject Water	2,045	0	0	0	20	161	86
SOUTH BAY SERVICE AREA							
Alameda County Flood Control & Water Cons. Dist., Zone 7:							
Entitlement Water	6,900	345	379	345	469	686	800
Alameda County Water District:							
Entitlement Water	15,000	0	563	1,039	3,125	2,142	1,414
Surplus Water	10,000	2,114	0	0	0	0	1,432
Agency Subtotal	25,000	2,114	563	1,039	3,125	2,142	2,846
Santa Clara County Flood Control & Water District:							
Entitlement Water	88,000	5,475	2,584	5,192	5,935	7,270	7,005
AREA SUBTOTAL: Entitlement Water	109,900	5,820	3,526	6,576	9,529	10,098	9,219
AREA SUBTOTAL: Surplus Water	10,000	2,114	0	0	0	0	1,432
AREA SUBTOTAL: All Water	119,900	7,934	3,526	6,576	9,529	10,098	10,651
SAN JOAQUIN VALLEY SERVICE AREA							
County of Kings:							
Entitlement Water	900	0	0	0	0	0	0
Devil's Den Water District:							
Entitlement Water	3,700	0	300	500	250	200	500
Surplus Water	3,700	0	572	588	150	440	800
Agency Subtotal	7,400	0	872	1,088	400	640	1,300
Dudley Ridge Water District:							
Entitlement Water	14,300	0	1,531	2,055	620	802	1,610
Surplus Water	12,000	0	1,451	1,981	667	890	3,149
Agency Subtotal	26,300	0	2,982	4,036	1,287	1,692	4,759
Empire West Side Irrigation District:							
Entitlement Water	1,000	0	0	0	0	0	0
Surplus Water	1,000	0	0	0	0	0	0
Agency Subtotal	2,000	0	0	0	0	0	0
Kern County Water Agency:							
Entitlement Water	46,600	541	4,408	2,882	1,041	4,603	8,312
Surplus Water	92,912	0	446	6,293	5,275	7,432	14,358
Agency Subtotal	139,512	541	4,854	9,175	6,316	12,035	22,670
Oak Flat Water District:							
Entitlement Water	2,300	0	0	113	387	300	400
Surplus Water	2,000	0	0	0	185	232	525
Agency Subtotal	4,300	0	0	113	572	532	925
Tulare Lake Basin Water Storage District:							
Entitlement Water	12,250	0	0	0	0	0	0
Surplus Water	12,850	0	0	0	0	0	0
Agency Subtotal	25,100	0	0	0	0	0	0
AREA SUBTOTAL: Entitlement Water	81,050	541	6,239	5,550	2,298	5,905	10,822
AREA SUBTOTAL: Surplus Water	124,462	0	2,469	8,862	6,277	8,994	18,832
AREA SUBTOTAL: All Water	205,512	541	8,708	14,412	8,575	14,899	29,654
ALL AGENCIES:							
Entitlement Water	191,500	6,361	9,765	12,126	11,827	16,003	20,041
Surplus Water	134,462	2,114	2,469	8,862	6,277	8,994	20,264
Subtotal---Project Water	325,962	8,475	12,234	20,988	18,104	24,997	40,305
Regulated Releases Under Interim Contract	12,000	0	0	0	1,704	3,257	3,320
Transportation of Nonproject Water	2,045	0	0	0	20	161	86
TOTAL WATER	340,007	8,475	12,234	20,988	19,828	28,415	43,711

Jul	Aug	Sep	Oct	Nov	Dec	Total	Carry-Over	
								FEATHER RIVER SERVICE AREA
								County of Butte:
0	0	0	0	0	0	0	0	Entitlement Water
								Last Chance Creek Water District:
1,954	2,807	458	63	0	0	13,563	1,563(a	Regulated Releases Under Interim Contract
								Plumas County Flood Control & Water Cons. Dist.:
0	0	0	0	0	0	0	250(b	Entitlement Water
0	0	0	0	0	0	0	250	AREA SUBTOTAL: Entitlement Water
								NORTH BAY SERVICE AREA
								Napa County Flood Control & Water Cons. Dist.:
182	121	211	133	126	174	1,214	0	Transportation of Nonproject Water
								SOUTH BAY SERVICE AREA
								Alameda County FC&WCD, Zone 7:
733	829	601	357	283	306	6,133	390(c	Entitlement Water
								Alameda County Water District:
1,753	1,653	650	619	864	995	14,817	183(c	Entitlement Water
1,480	1,480	1,432	1,770	292	0	10,000	0	Surplus Water
3,233	3,133	2,082	2,389	1,156	995	24,817	183(c	Agency Subtotal
								Santa Clara County Flood Control & Water Dist.:
7,596	7,451	6,682	6,802	3,734	4,379	70,105	8,152(c	Entitlement Water
10,082	9,933	7,933	7,778	4,881	5,680	91,055	8,725(c	AREA SUBTOTAL: Entitlement Water
1,480	1,480	1,432	1,770	292	0	10,000	0	AREA SUBTOTAL: Surplus Water
11,562	11,413	9,365	9,548	5,173	5,680	101,055	8,725(c	AREA SUBTOTAL: All Water
								SAN JOAQUIN VALLEY SERVICE AREA
								County of Kings:
0	0	0	0	0	900	900	0	Entitlement Water
								Devil's Den Water District:
760	810	0	0	0	257	3,577	0	Entitlement Water
582	209	0	0	0	464	3,805	0	Surplus Water
1,342	1,019	0	0	0	721	7,382	0	Agency Subtotal
								Dudley Ridge Water District:
3,600	3,300	164	120	100	398	14,300	0	Entitlement Water
2,007	1,181	0	18	246	470	12,060	0	Surplus Water
5,607	4,481	164	138	346	868	26,360	0	Agency Subtotal
								Empire West Side Irrigation District:
0	0	0	0	540	460	1,000	0	Entitlement Water
0	0	0	0	298	680	978	0	Surplus Water
0	0	0	0	838	1,140	1,978	0	Agency Subtotal
								Kern County Water Agency:
10,919	9,141	2,479	1,013	940	321	46,600	0	Entitlement Water
16,055	14,919	7,349	1,963	2,141	4,553	80,784	0	Surplus Water
26,974	24,060	9,828	2,976	3,081	4,874	127,384	0	Agency Subtotal
								Oak Flat Water District:
500	272	55	0	0	0	2,027	0	Entitlement Water
115	0	0	0	0	0	1,057	0	Surplus Water
615	272	55	0	0	0	3,084	0	Agency Subtotal
								Tulare Lake Basin Water Storage District:
0	0	1,408	1,850	3,736	5,256	12,250	0	Entitlement Water
0	0	1,949	1,785	5,129	3,987	12,850	0	Surplus Water
0	0	3,357	3,635	8,865	9,243	25,100	0	Agency Subtotal
15,779	13,523	4,106	2,983	5,316	7,592	80,654	0	AREA SUBTOTAL: Entitlement Water
18,759	16,309	9,298	3,766	7,814	10,154	111,534	0	AREA SUBTOTAL: Surplus Water
34,538	29,832	13,404	6,749	13,130	17,746	192,188	0	AREA SUBTOTAL: All Water
								ALL AGENCIES:
25,861	23,456	12,039	10,761	10,197	13,272	171,709	8,975	Entitlement Water
20,239	17,789	10,730	5,536	8,106	10,154	121,534	0	Surplus Water
46,100	41,245	22,769	16,297	18,303	23,426	293,243	8,975	Subtotal---Project Water
1,954	2,807	458	63	0	0	13,563	1,563	Regulated Releases Under Interim Contract
182	121	211	133	126	174	1,214	0	Transportation of Nonproject Water
48,236	44,173	23,438	16,493	18,429	23,600	308,020	10,538	TOTAL WATER

a) Carry-over from 1967 interim contract.
b) Subject to future spill from Lake Davis.
c) Based on "wet weather" provisions. Quantities subject to adjustment pending engineering and legal decisions.

Project Water Service Plans for 1969

Under Article 12(a) of the contracts, on or before October 1 of each year, each contractor submits to the Department a monthly schedule of project water service desired for the following five years. On or before December 1 of each year, the Department provides each contractor with an approved schedule of entitlement water service for each month of the following year.

Department studies indicate that the amounts of project water service requested on about October 1, 1968 for service in 1969 can be met. These amounts include about 267,000 acre-feet of entitlement water and 185,000 acre-feet of surplus water.

Entitlement Water Service

The Department executed contract amendments which provide for the following requested changes in 1969 entitlements, in addition to those previously described in connection with the deferral of 1968 entitlements:

Alameda County Flood Control and Water Conservation District, Zone 7	- 600	acre-feet
Santa Clara County Flood Control and Water District	-13,000	acre-feet
Devil's Den Water District	+ 300	acre-feet
Dudley Ridge Water District	+ 725	acre-feet
TOTAL	-12,575	acre-feet

Surplus Water Service

Since April 1968, the Department has been negotiating with the water contractors concerning an amendment to the long-term contracts and a form of short-term surplus water contract which would:

Combine the present Article 21 and the so-called "agricultural and ground water replenishment" provisions of the long-term contracts.

- Establish contractors' relative rights to surplus water service under such combined provisions.

Provide for payment of all additional costs to be incurred by the Department in anticipation of surplus water service, whether subsequently delivered or not.

Regarding the purchase of power for pumping surplus water, the Department has continued to negotiate with the California Suppliers on a supplemental contract which would:

Avoid the procedure under the present Suppliers Contract whereby power orders must be placed five years in advance.

Provide flexibility in the use of capacity required for such pumping.

- Obtain the most favorable unit power rate possible.

Some progress has been made in these negotiations. A proposed amendment was distributed to all water contractors in November 1968.(78) At that time, the Department was striving to complete negotiations so that the realigned program could be initiated on January 1, 1969. However, continuing discussions with the water contractors and the Suppliers have indicated the desirability of basing future surplus water service on a May 1 through April 30 year, rather than a calendar year. The scheduling of surplus water service, and of power to pump surplus water, could then take advantage of the forecasts developed from the Department's April 1 snow surveys.

In the expectation that the provisions of the realigned surplus water program would be effective on May 1, 1969, the Department proposed, in December 1968, to extend the 1968 surplus water contract to provide for interim surplus water service between December 31, 1968 and May 1, 1969.(79) By the end of 1968, the Department had distributed letter agreements which, when signed by the concerned agencies, would cover 47,727 acre-feet of surplus water service for the first four months of 1969.

Negotiation of Contract Amendments

As of December 31, 1968, in addition to the amendment to facilitate the realignment of the surplus water program, several other important amendments to the contracts were under negotiation. Two of these proposed amendments which are most pertinent regarding project water service in 1969 would modify certain contract provisions as follows:

- Articles 22(e) and 22(g) to defer inclusion of all estimated costs for future conservation facilities in determination of the Delta Water Rate from the year of authorization of construction until such years when major construction costs are initially incurred by the State for the respective facilities. (This modification would carry out what all parties generally agree to be the original intent of the contracts).(80)

- Article 30 to declare a moratorium on the effect of the surcharge provisions on project water deliveries during 1967, 1968, and 1969. (Deliveries during this period will be to contractors in the Feather River, South Bay, and San Joaquin Valley areas.)

(78) Water Service Contractors Council Memo No. 428, "Proposed Amendment to Water Supply Contracts Relating to the Sale of Surplus Water", November 4, 1968.

(79) Water Service Contractors Council Memo No. 440, "Surplus Water Service for 1969", December 23, 1968.

(80) See pp. 71–72, Bulletin 132-68.

Through 1969, payments of the Delta Water Charge are based on an established rate of $3.50 per acre-foot of entitlement. The amendment of Articles 22(e) and 22(g) is especially pertinent, since statements of 1970 water charges, which are supported by this bulletin, would be noticeably affected for those contractors receiving project water. Further discussions of the significant effects of this amendment on project financing and on water charges are included in Chapter V and Appendix B, respectively.

Article 30 of the contracts provides for a surcharge, equivalent to the power credit per acre-foot of water, to be charged to water users for each acre-foot of project water determined to have been put to agricultural or manufacturing uses on excess land (in excess of 160 acres for single ownership or 320 acres for joint ownership). The power credit per acre-foot of water is established as two dollars until all of the facilities for generation of electrical energy in connection with operation of initial project conservation facilities (Edward Hyatt and Thermalito Powerplants and San Luis Pumping-Generating Plant) are installed and in operation. The power credit per acre-foot of water will be redetermined annually thereafter to accurately reflect increases or decreases from year to year in the power credit.

The power credit of two dollars appears to be in excess of presently estimated power costs and revenues attributable to initial project conservation facilities, but the power credit cannot be accurately determined at this time.

Under the amendment, those provisions related to the surcharge shall not be effective for water deliveries during the years ending December 31, 1967, 1968, and 1969. Prior to March 1, 1970, the State would determine the power credit to be used for water deliveries during the year ending December 31, 1970, which credit would be determined in accordance with the formula set forth in Article 30(b) of the contracts.

Negotiation of Settlements Regarding Water Charges

The time for filing notices of contest concerning charges under the contracts had been extended until December 21, 1968, except those charges covered by three settlement letters, the time for protest of which terminated on March 1, 1968.(81)

Since that extension was granted, a task force including representatives of the Department, the State Water Contractors Audit Committee, and The Metropolitan Water District of Southern California has continued to meet to discuss and analyze questions which have been raised by the contractors. During 1968, the task force's attention centered upon:

- The method for allocating costs of the California Aqueduct between the functions of water conservation and water transportation.
- The magnitude of reimbursable capital costs incurred during 1961 through 1966.
- The methods to be used for distributing general operating costs among project facilities and aqueduct reaches.
- The criteria to be applied for classifying operation, maintenance, power, and replacement costs between the minimum and variable categories.

While considerable progress has been made, solutions of all issues could not be reached by December 21, 1968. The task force representatives requested that the next extension be given to December 21, 1969, inasmuch as the contracts require that notices of contests of accuracy be given to the State at least 10 days prior to the date payments of the stated amounts are due. For the annual statement of charges, this would be December 21 of each year.

Therefore, the Department notified the contractors that they shall have until December 21, 1969 to file notices of contest and to pursue all remedies available to them on statements of charges submitted prior to this date, except charges covered by the three settlement letters.(82)

Budget Review

To reduce the magnitude of costs protested by the contractors, the Department has, in recent years, reviewed its preliminary budgets with the State Water Contractors Audit Committee. The contractors' representatives can thus express their views before the Department makes final decisions on project-related programs and submits them to the Department of Finance for inclusion in the Governor's Budget. (The portion of the Department's budget concerning the State Water Project is not acted upon by the Legislature.)

The Department invited all contractors to a special review of the proposed 1969-70 budget on August 27, 1968.(83) A "follow-up" meeting was held on September 18. Contractor representatives made extensive comments on the proposed budget, which the Department is analyzing in planning for the preparation of future budgets.

Director Gianelli suggested that the California Water Commission assist in an annual budget review as a regular procedure by which the Department's expenditure

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(81) See pp. 77–78, Bulletin 132-68.

(82) Water Service Contractors Council Memo No. 431, "Extension of Time for Contest of Statements", November 14, 1968.

(83) See Water Service Contractors Council Memo No. 403, "Review of the 1969-70 Budget", August 1, 1968.

proposals concerning the State Water Project would be formally exposed to the water contractors. At the November 1 meeting of the Commission, Chairman Chrisman appointed a committee of three to meet with the Department and develop procedures for timely consideration and review of the budget for 1970-71, and annually thereafter.

Implementation of Additional Service

Construction of aqueduct turnouts and of contractor distribution systems(84) continues rapidly, as activation of the Project's aqueduct system progresses.

Completion of Aqueduct Reaches

Last year's bulletin described the Department's procedure for declaring aqueduct reaches sufficiently operational for purposes of initiating contractor payments of the minimum operation, maintenance, power, and replacement component.(85)

The above procedure pertains to the documentation of those additional reaches which have attained, as of December 31 of each year, the ability to deliver project water in accordance with the provisions of long-term contracts. Under Article 29(c) of the contracts, all future reimbursable minimum operating costs incurred for such reaches will be recovered annually through contractor payments of the minimum operation, maintenance, power, and replacement component, rather than recovered over an amortization period under the capital cost component.

In 1968, the following reaches became capable of delivering project water in accordance with contract provisions:(86)

- The westerly portion of the last reach (Phase I) of the North Bay Aqueduct.
- The reaches of the California Aqueduct between Kettleman City and Seventh Standard Road, and the Coastal Branch between Avenal Gap and Devil's Den Pumping Plant.

Aqueduct Turnouts

Contractors requests for 14 additional turnouts were received in 1968, bringing the total to 102. Location, capacity, and design features of proposed turnouts to be located on yet uncontracted portions of the California Aqueduct are rapidly being firmed up to meet construction schedules. The following tabulation indicates the general location and construction status of the turnouts requested as of the end of 1968:

Project Facility	Number of Delivery Structures				
	Requested	Under Construction		Completed	
	by Agencies	by State	by Agencies	by State	by Agencies
Oroville Division	5	0	3	2	0
North Bay Aqueduct (Phase I)	2	0	0	2	0
South Bay Aqueduct	22	1	0	16	1
California Aqueduct:					
North San Joaquin Division	4	0	0	0	4
San Luis Division	*Served by the federal Central Valley Project*				
South San Joaquin Division	39	16	0	15	0
Tehachapi Division	1	0	0	0	0
Mojave Division	14	4	0	0	0
Santa Ana Division	8	0	0	0	0
West Branch	5	1	0	0	0
Coastal Branch (Phase I)	2	0	0	2	0
TOTAL	102	22	3	37	5

Contractor Distribution Systems

Construction of distribution systems necessary to make project water available to individual users requires that contractors make capital expenditures approaching those of the State for project facilities. High interest rates on borrowed capital continue to impair the ability of contractors to finance this necessary construction—especially of those contractors in the southern San Joaquin Valley.

Water Code Sections 12894 to 12894.2 authorize a state program to assist certain public agencies in marketing general obligation bonds to finance construction of those local systems necessary for use of water from the State Water Project.(87)

(84) Aqueduct turnouts: structures through which contractors take delivery of water from project aqueducts. Contractor distribution systems: structures through which project water is conveyed from project aqueducts to individual users.

(85) See pp. 82–85, Bulletin 132-68.

(86) Department of Water Resources memorandum from Wesley E. Steiner to Messrs. Teerink, Golze', Towner, and Gianelli, "Declaration of Operational Reaches", December 27, 1968.

(87) See pp. 23–25, Bulletin 132-68.

Enactment of Assembly Bill 433 by the 1968 Legislature establishes a list of agencies eligible to apply for loans under this program.(88) Addition of other agencies to this list will require further legislative action. In accordance with the 1968 Act, the Department is authorized to enter into a loan commitment contract with each of the following public agencies (all of which are member units of the Kern County Water Agency, except the Dudley Ridge Water District):

Belridge Water Storage District
Berrenda Mesa Water District
Buena Vista Water Storage District
Cawelo Water District
Dudley Ridge Water District
Kern Delta Water District
Lost Hills Water District
Rosedale–Rio Bravo Water Storage District
Pond–Poso Improvement District of the Semitropic Water Storage District
Buttonwillow Improvement District of the Semitropic Water Storage District
Tehachapi–Cummings County Water District

A loan commitment will be considered for each of the above agencies only after the agency has proceeded to market general obligation bonds and has received no bids on the bond issue. No loan commitment made to any agency will exceed 15 percent of the aggregate principal amount of the general obligation bond issue under consideration.

The loan commitment would make available to an eligible agency a limited sum of money for paying any difference between the amount the agency is able to raise for payments and the amount due on bond principal and interest. Any loan made under the loan commitment contract must be repaid in accordance with the contract (not to exceed ten annual installments) together with interest at 5 percent per annum on the unpaid balance.

Plans for Service Under Future Contracts

Negotiations continue on a long-term contract with the Last Chance Creek Water District for a maximum annual entitlement of 3,000 acre-feet. This contract would replace the series of interim one-year contracts which have been executed with the District since 1962 for service from Frenchman Lake.

Inquiries have been received from various public agencies as to the availability of a future supply from the State Water Project. Such inquiries include those from the East Bay Municipal Utility District, the Contra Costa County Water District, the City of Tracy, the Tracy Golf and Country Club, and the Ventura County Flood Control District. In addition, the Solano County Flood Control and Water Conservation District has inquired regarding the possibility of increasing its maximum annual entitlement to provide water service for a proposed large industrial development in the vicinity of Collinsville.

The Department continues to study possible arrangements by which such future service may be provided.

Within the framework of present long-term contracts, there are at least two ways by which the State might be able to contract with agencies now for future water service.(89) One possibility would be to raise the "minimum project yield"—the contractual limit on the firm delivery capability of the present State Water Project. This arrangement would put such future service on the same basis as service under present contracts. A second possibility would be to provide "supplemental water" service as defined in present contracts.

Power Contracts Management

The Department has completed major purchase contracts which provide for low-cost sources of electric power with which to pump water under long-term water contracts.(90) A report by the Department released in December 1968 summarized the provisions of these purchase contracts, presented data on power needs, and projected the effects on the cost of delivered water due to unscheduled changes in project water entitlements.(91)

During April 1 through December 31, 1968, power contract management activities centered on negotiation of numerous contracts to provide electric service to individual project works and development of operating arrangements. In addition, negotiations continued on securing a low-cost source of electric power for pumping surplus project water on a short-notice basis. Studies and negotiations were also continued to assure the most economic development and utilization of power to be generated from powerplants located on the Project's aqueduct system and to explore the possibilities of power potentially available from other sources.

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(88) Calif. Stats. of 1968, Chapter 842.

(89) See Water Service Contractors Council Memo No. 396, "Possible Water Service to the Contra Costa County Water District", July 1, 1968.

(90) See pp. 85–86, Bulletin 132-68.

(91) Department of Water Resources Memorandum Report, "Impact of Existing Electric Power Contracts on the Cost of Delivered State Water Project Water", December 1968 (See Water Service Contractors Council Memo No. 435, same title, December 11, 1968.)

Power Contract Negotiation and Administration

During the reporting period, negotiation of the following contracts was completed:

- A letter agreement with the Pacific Gas and Electric Company for implementing the scheduling and operation arrangements of completed purchase contracts.(92)

- A contract with the Pacific Gas and Electric Company for operation and maintenance of the Oroville to Table Mountain transmission line.

- Approximately 50 contracts, primarily with the Pacific Gas and Electric Company, to provide electric service to project works such as aqueduct checks, turnouts, drainage pumps, construction headquarters, and cathodic corrosion protection installations.

As of December 31, 1968, negotiations were in progress on the following:

- A contract with the California Suppliers to provide power, supplemental to that available under the existing contracts, for pumping surplus water.

- Amendment 1 to the contract with the City of Los Angeles for cooperative power development on the West Branch (Castaic) which would establish the location of the Castaic Forebay Dam.(93)

- Cooperative effort with the City of Los Angeles, Department of Water and Power, to formulate a Pyramid Power Complex which would be financed by revenue bonds supported by power revenues.

The past year was the first full year of comprehensive administration of completed contracts to assure the supply of electric power when, where, and in the amounts needed for delivering project water in accordance with established schedules at the lowest possible cost. The ordering of power assumed an importance which will grow in future years as pumping demands increase and the sources of power supply become more diversified. Among the requirements for ordering power is the preparation of power notices and schedules. The following notices and schedules were issued in 1968:

- One schedule, supplied annually, of required California Suppliers' firm capacity for the succeeding six-year period.

- One schedule, supplied annually, of monthly onpeak capacity required for the succeeding two-year period.

- Two schedules, supplied semiannually, of monthly required energy and capacity and sources of supply for the succeeding 12-month period.

- One schedule, supplied annually, of the estimated amount of Canadian Entitlement Power to be sold to the California Companies each month for the succeeding five-year period.

- One schedule, supplied annually, of the amount of transmission line capacity to be used by the State between the California-Oregon border and Midway Substation during the succeeding five-year period.

- Ten schedules, supplied monthly (March through December 1968), of estimated amounts of Oroville-Thermalito energy to be used each day of the succeeding month for project power uses.

Power Studies

Several power studies relating to the sizing, staging, and method of operation of project facilities were conducted in 1968. One of the more important of these studies concerned the optimum multiple-purpose cooperative development on the West Branch upstream from, and including, Pyramid Lake. These preliminary engineering, economic, and financial studies of numerous alternative schemes, related to the Department's financing program, will continue in 1969.

A number of engineering studies were also made in respect to the reliability of bulk power supply of the western states interconnected systems, accomplished by participation in committees and task forces of the Western Systems Coordinating Council, of which the Department is a member.(94)

Studies of alternative power sources and power developments that offer potential savings in power costs will continue, and negotiations will be entered into for the use of such sources that are determined to be advantageous to the Project. In this regard, the Department continues to monitor potential project power costs as they might be affected by continuing development of nuclear power. Future power costs are expected to reflect the competitive situation which will result from extensive development of nuclear power by California utilities and the realization by the Department of the Project's share of such economies through cooperative participation.

Substantial commitments to nuclear power development were made by the nation's utilities during the past year, though at a somewhat slower rate than in 1966 and 1967. The number and respective total capacities of units ordered for the past three years are:

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(92) Letter from Robert H. Gerdes, Pacific Gas and Electric Company, to William R. Gianelli, Director, Department of Water Resources, April 4, 1968.

(93) See p. 12, Bulletin 132-67.

(94) See p. 91, Bulletin 132-68.

No. of Units Ordered	Year	Total Capacity, in kilowatts
20	1966	16,000,000
31	1967	25,500,000
17	1968	15,500,000

The slackening rate generally reflects a return to a more normal volume of nuclear powerplant construction following an earlier surge of orders to take advantage of "bargain" prices and to reserve manufacturing capacity to insure reasonable delivery times. The heavy demand taxed manufacturing capabilities and resulted in a rise in prices. However, as new manufacturing facilities come into production and sales more nearly match requirements, a downward trend in prices is anticipated (based on the present value of money). Further technical advances also should contribute to this trend. Therefore, nuclear power is expected to eventually demonstrate a competitive advantage over more conventional power sources.

Estimates of Project Power Requirements and Production

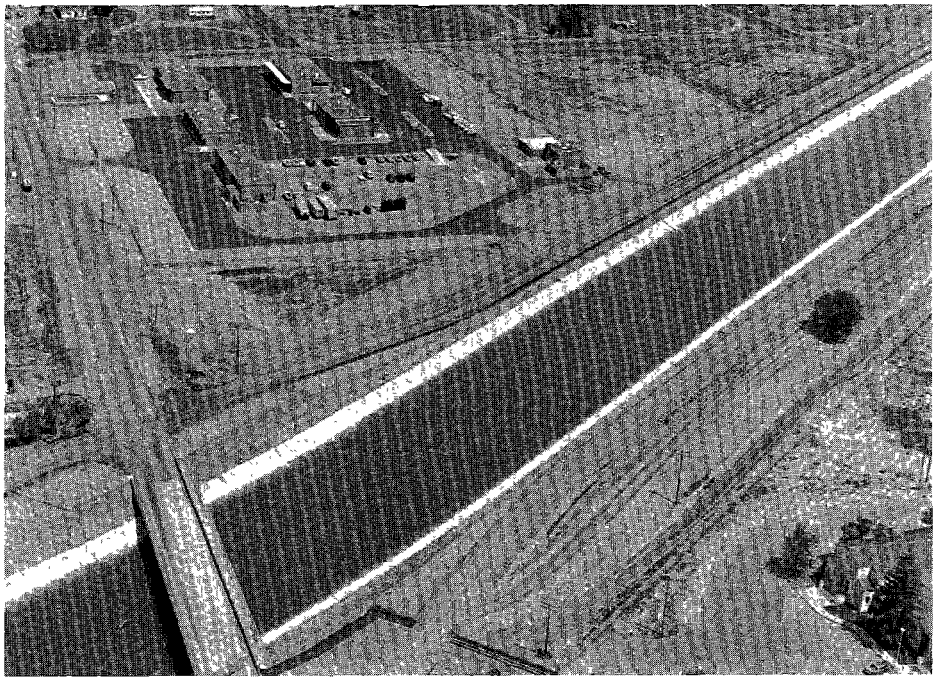
Under full operations, the State Water Project will require 2 million kilowatts of power capacity and 13 billion kilowatt-hours of energy each year. Table 3 shows the estimated annual energy requirements of each project pumping plant--excluding those for the pumpback operation of Edward Hyatt and Thermalito Powerplants.

Power generated from the Devil Canyon and San Luis Obispo Powerplants and the State's share of the production at the San Luis Pumping-Generating Plant will be used to help meet the Project's pumping requirements. In addition, a project power supply, equivalent to that which would have been generated in a state-constructed Castaic Powerplant, will be provided by the City of Los Angeles under the Cooperative West Branch Power Development. Table 3 also presents the estimated annual generation to be realized from each of these plants.

Annual generation to be realized from the Pyramid Power Complex, or the equivalent of such generation, is not shown in Table 3. Under possible arrangements being investigated as of December 31, 1968, construction of a pumped-storage Pyramid Power Complex is being considered, the revenues from which would be pledged to the support of revenue bonds issued to finance the construction costs of the Complex. Under this plan, Pyramid generation would not be available as a source of energy for project pumping.

Power to meet remaining project requirements, after use of power provided by project powerplants, will come from several sources and will be used in varying amounts and combinations depending on availability, cost, and need. Sources presently contracted for include: Canadian Entitlement power, Central Valley Project power, surplus energy from the Bonneville Power Administration, and power from the California Suppliers. Power from Edward Hyatt and Thermalito Powerplants will also be used for project pumping during the first three months of 1969, prior to the time all of the power output of these plants is sold under the terms of the Oroville-Thermalito Power Sale Contract.

The flexible and varied use of power sources is illustrated on Figure 3, which shows the Project's estimated monthly onpeak power requirements and sources of power supply during the six-year period 1969-1974. The monthly onpeak demand represents the maximum demand created by project pumps during onpeak hours within the respective months. The different shaded areas depict the contemplated use of power from the various sources.



LOST HILLS OPERATIONS AND MAINTENANCE CENTER WITH THE CALIFORNIA AQUEDUCT IN FOREGROUND

TABLE 3

ANNUAL PROJECT ENERGY REQUIREMENTS FOR PUMPING

(in millions of kilowatt-hours)

Calendar Year	Energy Requirements										
	North Bay Aqueduct Pumping Plants		Peripheral Canal Pumping Plant	South Bay Aqueduct Pumping Plants (b	California Aqueduct Pumping Plants						
	Calhoun	Cordelia (a			Delta	San Luis	Dos Amigos	Buena Vista	Wheeler Ridge	Wind Gap	A. D. Edmonston
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1962	0	0	0	7	0	0	0	0	0	0	0
1963	0	0	0	10	0	0	0	0	0	0	0
1964	0	0	0	19	0	0	0	0	0	0	0
1965	0	0	0	28	0	0	0	0	0	0	0
1966	0	0	0	46	0	0	0	0	0	0	0
1967	0	0	0	48	7	0	0	0	0	0	0
1968	0	1	0	83	293	148	34	0	0	0	0
1969	0	4	0	94	288	199	38	0	0	0	0
1970	0	3	0	100	250	144	49	12	5	7	0
1971	0	3	0	101	230	63	85	64	64	137	481
1972	0	4	0	103	322	60	156	176	183	399	1,464
1973	0	4	0	105	378	73	189	220	223	517	1,909
1974	0	4	0	106	402	97	199	227	240	531	1,964
1975	0	5	0	108	492	191	206	228	242	535	1,976
1976	0	6	14	109	546	107	234	265	282	624	2,311
1977	0	6	15	111	587	140	252	286	303	670	2,481
1978	0	7	14	112	661	139	285	331	353	783	2,897
1979	0	8	18	113	711	156	309	362	385	857	3,161
1980	1	10	18	116	769	184	339	397	423	943	3,470
1981	2	11	28	117	822	203	363	426	453	1,010	3,714
1982	2	11	30	119	886	209	389	460	489	1,091	4,006
1983	2	12	32	121	961	216	426	511	544	1,214	4,460
1984	2	13	36	123	981	216	439	521	553	1,233	4,517
1985	2	14	39	124	1,070	225	476	570	606	1,353	4,959
1986	2	15	49	126	1,097	189	493	586	621	1,387	5,075
1987	2	16	43	128	1,144	77	526	630	668	1,491	5,455
1988	3	17	43	130	1,216	83	563	683	725	1,620	5,928
1989	3	18	45	133	1,275	115	585	709	753	1,681	6,151
1990	3	19	46	136	1,319	151	602	725	769	1,716	6,272
1991 (c	3	19	48	140	1,335	153	610	737	783	1,749	6,395

a) During 1968 thru 1979, an interim pumping plant will pump from the federal Solano Project terminal reservoir.

b) Includes South Bay and Del Valle Pumping Plants and, during 1962 thru 1967, an interim pumping plant, which pumped a supply provided by the federal Delta-Mendota Canal.

c) And each year thereafter for remainder of project repayment period.

Energy Requirements					Energy Generation					Net Energy Requirements	
California Aqueduct Pumping Plants					California Aqueduct Powerplants						
Pear-blossom	Oso	Las Perillas and Badger Hill	Devil's Den, Sawtooth, and Polonio	Total	San Luis	Devil Canyon	Castaic (d	San Luis Obispo	Total	Col (16) minus Col (21)	Calendar Year
(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	
0	0	0	0	7	0	0	0	0	0	7	1962
0	0	0	0	10	0	0	0	0	0	10	1963
0	0	0	0	19	0	0	0	0	0	19	1964
0	0	0	0	28	0	0	0	0	0	28	1965
0	0	0	0	46	0	0	0	0	0	46	1966
0	0	0	0	55	0	0	0	0	0	55	1967
0	0	22	0	581	12	0	0	0	12	569	1968
0	0	13	0	636	25	0	0	0	25	611	1969
0	0	15	0	585	14	0	0	0	14	571	1970
17	47	13	0	1,305	31	0	102	0	133	1,172	1971
178	93	13	0	3,151	60	153	209	0	422	2,709	1972
224	125	15	0	3,982	75	306	189	0	570	3,412	1973
185	144	20	0	4,119	80	238	338	0	656	3,463	1974
206	135	21	0	4,345	164	264	455	0	883	3,462	1975
218	166	23	0	4,905	27	280	562	0	869	4,036	1976
232	178	25	0	5,286	50	298	605	0	953	4,333	1977
266	211	26	0	6,085	70	347	718	0	1,135	4,950	1978
298	227	27	0	6,632	116	394	774	0	1,284	5,348	1979
319	252	30	11	7,282	132	415	861	1	1,409	5,873	1980
341	270	31	14	7,805	137	444	923	2	1,506	6,299	1981
373	290	33	21	8,409	147	503	988	4	1,642	6,767	1982
444	313	35	28	9,319	161	605	1,068	5	1,839	7,480	1983
482	304	38	38	9,496	166	641	1,035	8	1,850	7,646	1984
551	327	41	60	10,417	170	738	1,114	13	2,035	8,382	1985
562	334	45	78	10,659	0	765	1,138	17	1,920	8,739	1986
566	374	48	95	11,263	42	793	1,270	21	2,126	9,137	1987
603	412	51	117	12,194	76	808	1,394	26	2,304	9,890	1988
607	434	56	149	12,714	97	810	1,464	33	2,404	10,310	1989
619	441	61	184	13,063	119	812	1,487	42	2,460	10,603	1990
681	431	61	184	13,329	153	844	1,454	42	2,493	10,836	1991 (c

d) The City of Los Angeles Department of Water and Power will construct and operate a 1,250,000-kilowatt Castaic Powerplant and will supply the Project with electric power and energy equivalent to the generation from a 213,984-kilowatt powerplant the State originally had planned to construct. (Discussions are underway with the City regarding optimum development of a Pyramid Power Complex, the construction of which would be financed by revenue bonds.)

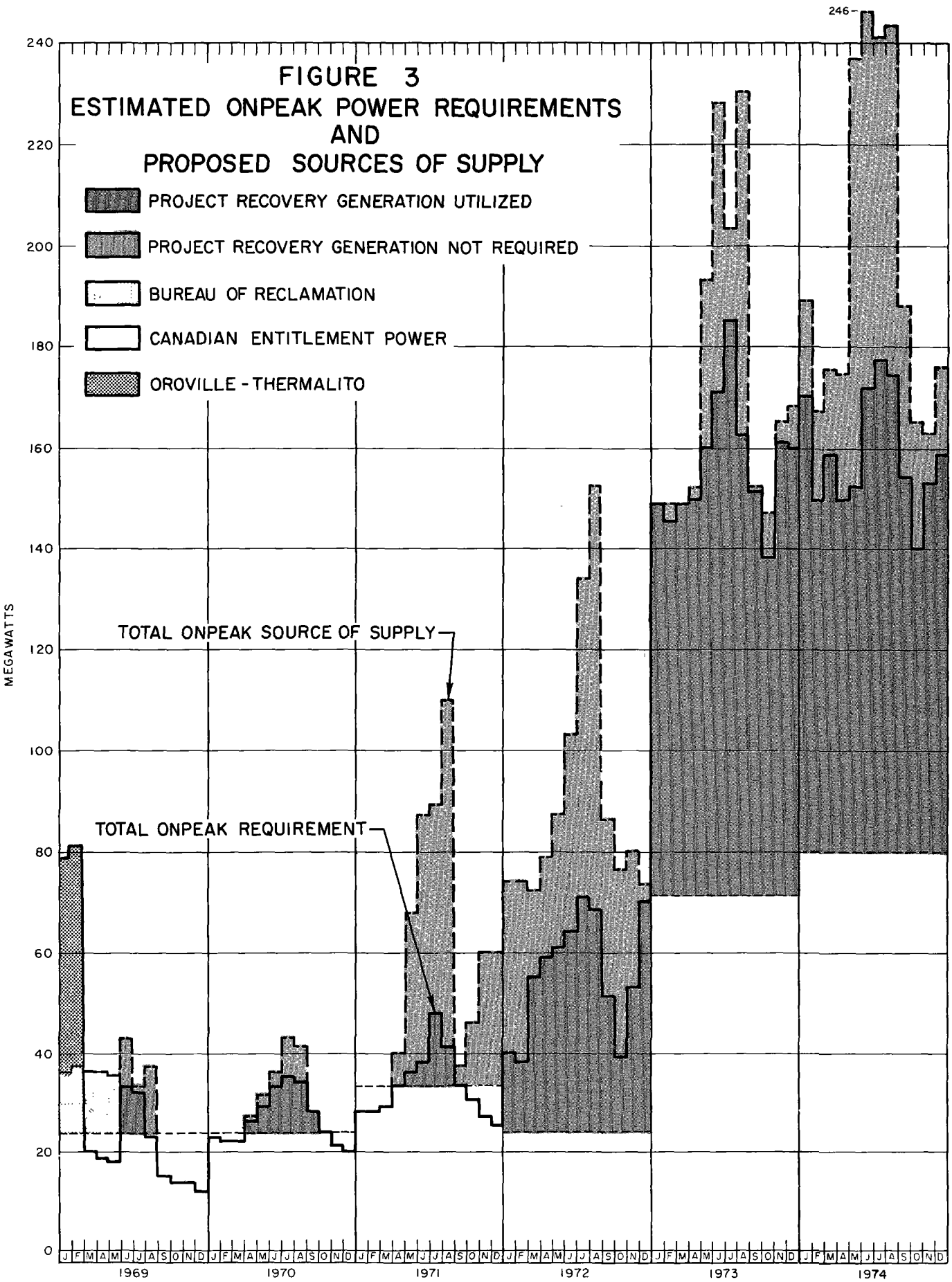


FIGURE 3
ESTIMATED ONPEAK POWER REQUIREMENTS
AND
PROPOSED SOURCES OF SUPPLY
PROJECT RECOVERY GENERATION UTILIZED
PROJECT RECOVERY GENERATION NOT REQUIRED
BUREAU OF RECLAMATION
CANADIAN ENTITLEMENT POWER
OROVILLE - THERMALITO
TOTAL ONPEAK SOURCE OF SUPPLY
TOTAL ONPEAK REQUIREMENT
MEGAWATTS
246
240
220
200
180
160
140
120
100
80
60
40
20
0
J F M A M J J A S O N D
1969
1970
1971
1972
1973
1974

CHAPTER IV. PROJECT OPERATIONS

The first year of project water deliveries to the San Joaquin Valley has put the State Water Project to one of the most severe operational tests that can be expected during the life of the Project. The 1967-68 water year was one of the five driest in the Central Valley during the past 30 years. Sacramento Valley runoff was 80 percent of normal; San Joaquin Valley runoff was 55 percent of normal. The San Joaquin Valley had the most critical water supply conditions of all areas in the State.

Low inflow to the Sacramento–San Joaquin Delta during the spring of 1968, combined with early irrigation demands of local water users in the Delta, made it difficult to pump sufficient water at the Delta Pumping Plant to meet water contractor requirements while maintaining water quality in the Delta in conformance with the Project's water rights permits. To conform with the conditions of the permits, the storage of Feather River inflow to Lake Oroville and pumping of unregulated flows from the Delta had to be curtailed beginning late in April. Also, to avoid aggravating low-water conditions for local water users pumping from Delta channels, Delta Pumping Plant operations had to be suspended during low-tide periods.

Coordination With Bureau of Reclamation

To help meet the dry-year emergency, the Department and the Bureau of Reclamation cooperated in the mutually beneficial exchange of water and use of facilities of the State Water Project and the federal Central Valley Project. The Department furnished onpeak Oroville power for pumping joint project water at Dos Amigos Pumping Plant and pumped for the Bureau at the Delta Pumping Plant when the Central Valley Project had extra water and power available. The Bureau and the Department also developed the following criteria for Delta operations during the summer of 1968:(95)

- Sufficient Delta inflow was provided from combined reservoirs of the two projects to meet the November 19, 1965 Delta Water Quality Criteria and to maintain water of suitable quality in the Delta at:

  The Tracy and Delta Pumping Plants. (Mean monthly total dissolved solids was not to exceed 600 ppm, and an effort was to be made to provide a total dissolved solids content of not more than 440 ppm.)

  The Contra Costa Canal intake. (Daily chloride concentration was not to exceed 250 ppm, and an effort was to be made to provide a chloride content of not more than 200 ppm.)

- The two projects used the total available water in active San Luis Reservoir storage to meet the combined demands of the two projects, so that diversions from the Delta could be minimized during the summer.

- The two projects shared available San Luis Reservoir water on an exchange basis. Water in San Luis Reservoir was made available from the Bureau to the Department and later (after the summer season) was returned from the Department to the Bureau into San Luis Reservoir.

- The Bureau's Tracy Pumping Plant diverted water from the Delta throughout the summer to meet Delta-Mendota Canal demands. (Some Delta-Mendota Canal demands were also met by releases from O'Neill Forebay.)

- The Department's Delta Pumping Plant diverted water from the Delta throughout the summer to meet the demands of the South Bay Aqueduct and the state contractor north of O'Neill Forebay (the Oak Flat Water District).

In exchange for use of State Water Project facilities, the Bureau lent to the Department 40,000 acre-feet of water to help the State fulfill contractor demands for project water during the late summer of 1968. These demands were met by (a) use of the 40,000-acre-foot loan, (b) use of storage the Department had accumulated in San Luis Reservoir by the end of April, and (c) "skimming" of 10,000 acre-feet from unexpected surplus flows in the Delta when a short period of rains and cooler weather in mid-August reduced irrigation demands upstream in the Sacramento Valley. The Bureau's water loan had been fully repaid by December 31, 1968 from the Delta Pumping Plant's diversion of fall and winter surplus Delta flows.

The Department and the Bureau of Reclamation also cooperated in conducting tests—May 25–30, 1968 and August 29–September 9, 1968—to determine how pumping for the State Water Project and the Central Valley Project affects water levels in southern Delta

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(95) See Water Service Contractors Council Memo No. 402, "Coordinated CVP & SWP Operations in Sacramento–San Joaquin Delta", July 30, 1968. (Negotiations for a comprehensive long-term agreement for coordinated operation of the State Water Project and the federal Central Valley Project continued during the year. The major negotiation effort has involved sharing of available water in the Delta between the two projects. The agreement is now expected to be completed by July 1, 1969.)

channels.(96) The results of these tests were widely distributed to local landowners, boards of supervisors, legislators, and other interested parties. The tests confirmed earlier estimates by department and bureau engineers that such pumping would have no general adverse effect on local water diversions in the Delta. (The lowering of water levels due to project pumping is minor in comparison with normal tidal variations.) Project pumping may have some effect in the vicinity of the Delta Pumping Plant at low tide, but this will be minimized in 1969 when Clifton Court Forebay becomes operational.

The Bureau and the Department will continue to monitor effects as the amount of project pumping increases in the future and will make further tests until the Peripheral Canal is operational. After the Peripheral Canal becomes operational, pumping for the state and federal projects will have no effect on water levels in southern Delta channels.

Monitor and Control System

A monitor and control system is required for safety, for economy, and for on-schedule delivery of water through the California Aqueduct and its branches. These requirements will be met through instant signaling of operating information and simultaneous regulation of the pumping plants, powerplants, dam outlets, check gates, and turnouts of the Aqueduct.(97)

- Safety——An emergency in any portion of the Aqueduct will be met by nearly instantaneous response all along the Aqueduct. This will greatly reduce the spilling of water from a portion of the Aqueduct that might be ruptured by earthquake or accident. Prevention of excessively rapid flow along an aqueduct section or of excessive lowering of the water level will greatly reduce the chance of lining failure.

- Economy——Planning for use of the "controlled-volume" concept is saving a net of about $87.5 million in project construction costs, mainly through elimination of spillways or storage facilities and placing of reliance on control of water flow.

- On-Schedule Delivery——The control system will achieve maximum flexibility in customer service. A change in water demand at any point along the California Aqueduct will be accompanied immediately by changes in operation of aqueduct features all the way from the point of delivery to the Delta Pumping Plant.

Simultaneous regulation of aqueduct features will be accomplished with the help of on-line computers. The system will be controlled from four area control centers——at the Delta Pumping Plant (Delta Field Division), at San Luis Dam (San Luis Field Division), at Wheeler Ridge Pumping Plant (San Joaquin Field Division), and at Castaic Dam (Southern Field Division).

The Sacramento Control Center, on the sixteenth floor of the Resources Building, is being used for projectwide dispatching and will provide backup control, when necessary, for the entire aqueduct system. The Center provides continuous coordination with other agencies, utilities, and utility groups which purchase project power from or furnish power to the Project, such as the Bureau of Reclamation, the Bonneville Power Administration, and the California Suppliers.

The Department continued, during 1968, testing and evalution of the South Bay Aqueduct Control System Model. Some on-line testing of computer control was begun in the latter part of 1968.

An alarm system was tested, beginning in February 1968, for the California Aqueduct between the Delta and 7th Standard Road, including the Coastal Branch "Stub". This interim system will provide high or low water level alarm information and also voice communication among pumping plants and check structures. The system will be incorporated in the California Aqueduct Monitor and Control System.

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(96) See Water Service Contractors Council Memos No. 401, "Results of Tests Showing Effect of Export Pumping on Delta Water Levels", July 29, 1968, and 436, "Summary of Effects of Export Pumping on Water Levels in the Southern Delta", December 11, 1968.

(97) See Water Service Contractors Council Memo No. 434, "Control Systems Consulting Board Report Dated November 22, 1968", December 4, 1968.

Operations and Maintenance Field Divisions

Responsibility for operations and maintenance of State Water Project facilities is divided among the following established field divisions:

- **Oroville Field Division** ––from the northern extremities of the Project south to Hood, on the Sacramento River, immediately upstream from the proposed intake to the Peripheral Canal.

- **Delta Field Division** ––from Hood on the north, through the Delta area, to O'Neill Forebay. of the California Aqueduct on the south, including the proposed Peripheral Canal, the North and South Bay Aqueducts, and the Delta Pumping Plant.

  San Luis Field Division––from O'Neill Forebay to Kettleman City, including San Luis Dam and Reservoir.

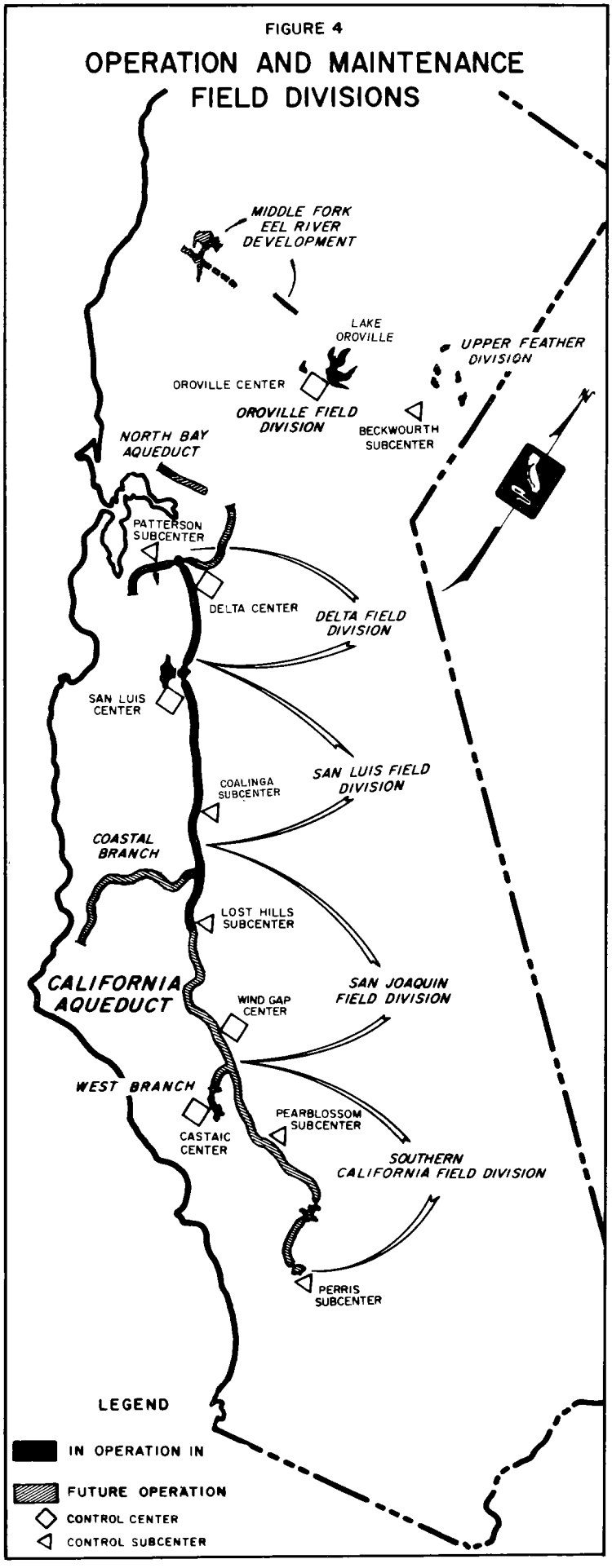
- **San Joaquin Field Division**––from Kettleman City to the intake to Tehachapi Tunnel No. 1, including the Coastal Branch and Buena Vista, Wheeler Ridge, and A.D. Edmonston Pumping Plants.

- **Southern Field Division**––from the intake to Tehachapi Tunnel No. 1 to the southern extremities of the Project.

Figure 4 shows the areal extent of and the major features in each field division. The following sections summarize the operations and maintenance activities during 1968 for features included in each field division.(98) Water operations during each month of 1968 are summarized for the three reservoirs in the Upper Feather Division in Table 4; for the Oroville Division in Table 5; and for the North Bay, South Bay and California Aqueducts in Table 6. Monthly power operations for 1968 are summarized in Table 7.

FIGURE 4

OPERATION AND MAINTENANCE FIELD DIVISIONS



(98) Publication of monthly progress reports on project operations and maintenance (distribution each month by Water Service Contractors Council Memo) was discontinued after the May 1968 issue. Information of the kind that was included in the progress report is maintained in the Department's files and is available on request.

TABLE 4

UPPER FEATHER DIVISION MONTHLY WATER OPERATIONS IN 1968

(in acre-feet unless otherwise indicated)

Month	Reservoir Storage			Outflow						
				Regulated Releases						
	Water Surface Elevation (in feet)	End-of-Month Storage	Monthly Storage Change	Stream Flow Maintenance (a	Water Right Entitlement	Project Water Delivered	Total	Spill	Estimated Evaporation and Seepage	Total Gross Outflow
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
FRENCHMAN LAKE										
January	5,582.77	47,537	885	123	0	0	123	0	114	237
February	5,585.52	51,587	4,050	115	0	0	115	0	117	232
March	5,587.52	54,662	3,075	123	0	0	123	0	185	308
April	5,587.43	54,521	- 141	71	0	1,704	1,775	618	316	2,709
May	5,585.72	51,889	-2,632	0	0	3,257	3,257	0	510	3,767
June	5,583.12	48,042	-3,847	0	0	3,320	3,320	0	812	4,132
July	5,581.14	45,231	-2,811	0	0	1,954	1,954	0	1,004	2,958
August	5,578.48	41,614	-3,617	0	0	2,807	2,807	0	810	3,617
September	5,577.69	40,575	-1,039	56	0	458	514	0	656	1,170
October	5,577.42	40,224	- 351	109	0	63	172	0	390	562
November	5,577.58	40,432	208	119	0	0	119	0	208	327
December	5,578.03	41,020	588	123	0	0	123	0	144	267
Total	-	-	-5,632	839	0	13,563(b	14,402	618	5,266	20,286
ANTELOPE LAKE										
January	5,002.21	22,709	943	615	0	0	615	27	65	707
February	5,002.86	23,321	612	574	0	0	574	3,201	66	3,841
March	5,002.77	23,236	- 85	615	0	0	615	4,733	123	5,471
April	5,002.71	23,179	- 57	564	0	0	564	4,961	189	5,714
May	5,002.16	22,662	- 517	339	0	0	339	2,951	301	3,591
June	5,001.34	21,903	- 759	794	192	0	986	151	399	1,536
July	5,000.31	20,970	- 933	431	188	0	619	0	502	1,121
August	4,999.46	20,217	- 753	482	133	0	615	0	337	952
September	4,998.53	19,411	- 806	415	176	0	591	0	391	982
October	4,998.03(c	18,987(c	- 424	274	338	0	612	0	254	866
November	4,998.31	19,224	237	595	0	0	595	0	136	731
December	4,998.81	19,652	428	615	0	0	615	0	94	709
Total	-	-	-2,114	6,313	1,027(d	0	7,340	16,024	2,857	26,221
LAKE DAVIS										
January	5,765.72	51,459(c	1,996	246	0	0	246	0	210	456
February	5,767.36	56,618	5,159	231	0	0	231	0	218	449
March	5,768.88	61,655	5,037	575	0	0	575	0	397	972
April	5,769.86	65,033	3,378	825	107	0	932	0	694	1,626
May	5,769.66	64,335	- 698	849	178	0	1,027	0	1,152	2,179
June	5,769.01	62,097	-2,238	499	249	0	748	0	1,897	2,645
July	5,768.26	59,571	-2,526	246	228	0	474	0	2,355	2,829
August	5,767.68	57,658	-1,913	247	130	0	377	0	1,584	1,961
September	5,767.16	55,974	-1,684	238	72	0	310	0	1,619	1,929
October	5,766.97	55,366	- 608	229	14	0	243	0	958	1,201
November	5,767.16	55,974	608	238	0	0	238	0	513	751
December	5,767.77	57,953	1,979	246	0	0	246	0	356	602
Total	-	-	8,490	4,669	978	0(e	5,647	0	11,953	17,600

a) Required specifically to maintain fish and wildlife habitats.
b) Provided under interim contract with Last Chance Creek Water District. Includes water right entitlements as well as project water.
c) Estimated data.
d) Required to satisfy water rights entitlements in Indian Valley.
e) The Plumas County Flood Control and Water Conservation District requested that its 1968 entitlement to project water of 250 acre-feet be held in storage to the extent possible.

Oroville Field Division

The following were operational in 1968:

- Frenchman Dam and Lake.
- Antelope Dam and Lake.
- Grizzly Valley Dam and Lake Davis.
- Oroville Dam and Lake Oroville.

  Edward Hyatt Powerplant.

  Thermalito Facilities.

- Feather River Fish Barrier Dam and Hatchery.

Frenchman Lake, with a gross storage capacity of 55,417 acre-feet, supplies irrigation water to the Last Chance Creek Water District and enhances recreational opportunities in the vicinity of the Lake and along the downstream channel of Little Last Chance Creek.

Antelope Lake, with a gross storage capacity of 22,513 acre-feet, enhances recreational opportunities in the vicinity of the Lake and along the downstream channel of Indian Creek.

Lake Davis, with a gross storage capacity of 84,371 acre-feet, enhances recreational opportunities in the vicinity of the Lake and along the downstream channel of Big Grizzly Creek and will supply water for municipal and industrial use to the Plumas County Flood Control and Water Conservation District under a long-term contract.

Lake Oroville, with a gross storage capacity of 3,537,577 acre-feet, is operated for water supply, power generation, flood control, recreation, and fish and wildlife enhancement.

Edward Hyatt Powerplant, with six generators (three reversible for pumpback operation), will have an installed power generation capacity of 644,250 kilowatts and an estimated average annual net energy output of 2,010,000,000 kilowatt-hours.

The primary mission of the Thermalito Facilities is to regulate releases from Edward Hyatt Powerplant, including storage of onpeak releases for pumpback offpeak. In addition, the Facilities supplement the power generation of Edward Hyatt Powerplant and enhance recreational opportunities near the City of Oroville. Water deliveries are also made directly from the Facilities, primarily to replace diversions from the Feather River which were severed by project construction.

Thermalito Diversion Dam forms a pool of 13,328 acre-feet gross capacity on the Feather River immediately downstream from the tailrace of Edward Hyatt Powerplant. Thermalito Forebay, located offstream about four miles west of the Diversion Dam, has a gross capacity of 11,768 acre-feet. Water released from Lake Oroville is diverted by the Diversion Dam through Thermalito Power Canal into Thermalito Forebay, from which it is released through Thermalito Powerplant into Thermalito Afterbay. Releases are also made through the Diversion Dam directly into the Feather River to maintain flows for fish preservation and water right entitlements.

Thermalito Powerplant, with four generators (three reversible for pumpback operation), will have an installed power generation capacity of 115,100 kilowatts and an estimated average annual net energy output of 292,000,000 kilowatt-hours.

From the Afterbay, with a gross storage capacity of 57,041 acre-feet, water is either released to the Feather River channel, pumped back into Lake Oroville through Thermalito and Edward Hyatt Powerplants, or diverted for irrigation or other uses. Diversions are made directly from the Afterbay to the Sutter Butte Canal, Pacific Gas and Electric Company (PG&E) Lateral, Richvale Canal, and Western Canal.

The Feather River Fish Barrier Dam diverts migrating salmon and steelhead into the Feather River Hatchery, which is operated by the Department of Fish and Game.

Water Operations

Frenchman Lake contained 46,652 acre-feet of water in storage on January 1, 1968. Inflow to the Lake during the year totaled 14,654 acre-feet. The Lake filled on April 8, and 618 acre-feet flowed over the spillway before the spilling ceased on April 25. Total regulated releases for the year amounted to 14,402 acre-feet for minimum streamflow requirements and for deliveries to the Last Chance Creek Water District. Total deliveries to the District in 1968 amounted to 13,563 acre-feet, which included both entitlements under existing water rights and an interim project supply.(99) Annual evaporation and seepage losses were estimated to be 5,266 acre-feet. Lake storage on December 31, 1968 was 41,020 acre-feet.

Antelope Lake contained 21,766 acre-feet of water in storage on January 1, 1968. Inflow to the Lake during the year totaled 24,107 acre-feet. The Lake filled January 29, and 16,024 acre-feet had flowed over the spillway by June 13, when the spilling ceased. Regulated releases from the Lake to satisfy downstream water rights entitlements and minimum streamflow requirements totaled 7,340 acre-feet. Annual evaporation and seepage losses were estimated to be 2,857 acre-feet. Lake storage on December 31, 1968 was 19,652 acre-feet.

Lake Davis contained 49,463 (adjusted) acre-feet of water in storage on January 1, 1968. Inflow to the Lake during the year totaled 26,090 acre-feet. No water flowed over the spillway in 1968. The maximum storage during the year was 65,173 acre-feet on May 5. Total regulated releases for the year were 5,647 acre-feet for minimum

(99) See p. 23.

TABLE 5

OROVILLE DIVISION MONTHLY WATER OPERATIONS IN 1968

(in acre-feet unless

Operation	Month					
	January	February	March	April	May	June
LAKE OROVILLE						
Reservoir Storage						
Water Surface Elevation (feet)	539.22	673.76	728.50	752.33	753.98	749.35
End-of-Month Storage	390,972	1,065,372	1,485,285	1,699,390	1,714,975	1,671,498
Monthly Storage Change	225,974	674,400	419,913	214,105	15,585	-43,477
Released						
Palermo Canal	0	0	0	0	0	0
EDWARD HYATT POWERPLANT						
Water Released Thru Plant for:						
Generation	0	0	6,085	115,942	168,234	198,864
Pumpback	0	0	0	0	0	0
Net	0	0	6,085	115,942	168,234	198,864
THERMALITO DIVERSION DAM POOL						
Reservoir Storage						
Water Surface Elevation (feet)	220.68	223.70	223.58	222.31	223.16	222.86
End-of-Month Storage	11,967	12,911	12,873	12,472	12,740	12,645
Monthly Storage Change	-1,190	944	-38	-401	268	-95
FISH BARRIER DAM AND FISH HATCHERY						
Released to River						
Fish Barrier Dam	22,540	33,270	27,420	21,520	22,440	20,020
Hatchery	2,460	2,301	2,460	2,380	2,460	3,893
THERMALITO FOREBAY AND POWER CANAL						
Released From Canal						
Thermalito Irrigation District	0	0	0	0	0	0
California Water Service	0	0	0	0	0	0
Storage						
Water Surface Elevation (feet)	220.65	223.71	223.57	221.97	222.92	223.01
End-of-Month Storage	9,148	10,966	10,880	9,918	10,485	10,540
Monthly Storage Change	-2,263	1,818	-86	-962	567	55
THERMALITO POWERPLANT						
Water Released Thru Plant for:						
Generation	0	0	44,243	141,889	256,722	197,873
Pumpback	0	1,641	31,161	434	0	0
Net	0	-1,641	13,082	141,455	256,722	197,873
THERMALITO AFTERBAY						
Reservoir Storage						
Water Surface Elevation (feet)	126.82	119.25	121.88	123.48	125.78	125.55
End-of-Month Storage	22,413	5,821	10,551	13,957	19,588	18,987
Monthly Storage Change	833	-16,592	4,730	3,406	5,631	-601
Released						
Sutter Butte Canal	446	592	6,015	76,990	95,700	90,150
PG&E Lateral	0	0	0	801	746	831
Richvale Canal	0	0	0	7,878	14,070	14,370
Western Canal	1,133	0	0	25,580	40,720	39,080
Outlet to River	24,520	19,820	18,167	33,660	124,800	55,600
Total	26,099	20,412	24,985	144,909	276,036	200,031

otherwise indicated)

Month							
July	August	September	October	November	December	Total	Operation
							LAKE OROVILLE
							Reservoir Storage
746.43	746.89	750.03	752.93	762.58	788.63	-	Water Surface El. (ft)
1,644,483	1,648,718	1,677,834	1,705,046	1,797,816	2,066,110	-	End-of-Month Storage
-27,015	4,235	29,116	27,212	92,770	268,294	1,901,112	Monthly Storage Change
							Released
0	0	0	101	322	314	737	Palermo Canal
							EDWARD HYATT POWERPLANT
							Released Thru Plant for:
171,651	155,866	110,240	91,476	64,017	41,793	1,124,168	Generation
0	0	0	0	0	1,070	1,070	Pumpback
171,651	155,866	110,240	91,476	64,017	40,723	1,123,098	Net
							THERMALITO DIVERSION DAM POOL
							Reservoir Storage
223.44	221.07	220.81	219.28	223.08	223.18	-	Water Surface El. (ft)
12,828	12,087	12,007	11,542	12,714	12,746	-	End-of-Month Storage
183	-741	-80	-465	1,172	32	-411	Monthly Storage Change
							FISH BARRIER DAM AND FISH HATCHERY
							Released to River
21,250	21,280	20,320	20,210	20,410	21,340	272,020	Fish Barrier Dam
3,941	3,898	4,165	4,304	4,165	3,525	39,952	Hatchery
							THERMALITO FOREBAY AND POWER CANAL
							Released From Canal
0	0	0	0	0	0	0	Thermalito Irr. Dist.
0	0	0	0	0	0	0	Calif. Water Service
							Storage
223.35	221.07	220.88	219.10	223.04	223.17	-	Water Surface El. (ft)
10,746	9,391	9,281	8,270	10,558	10,636	-	End-of-Month Storage
206	-1,355	-110	-1,011	2,288	78	-775	Monthly Storage Change
							THERMALITO POWERPLANT
							Released Thru Plant for:
153,099	139,815	95,366	120,414	106,801	86,658	1,342,880	Generation
256	0	1,531	42,160	56,023	51,915	185,121	Pumpback
152,843	139,815	93,835	78,254	50,778	34,743	1,157,759	Net
							THERMALITO AFTERBAY
							Reservoir Storage
126.12	126.18	124.66	124.74	124.05	124.86	-	Water Surface El. (ft)
20,492	20,684	16,741	16,938	15,274	17,235	-	End-of-Month Storage
1,505	162	-3,913	197	-1,664	1,961	-4,345	Monthly Storage Change
							Released
94,710	80,410	47,030	27,400	4,586	1,567	525,596	Sutter Butte Canal
945	767	90	0	0	0	4,180	PG&E Lateral
14,750	9,838	2,715	97	0	0	63,718	Richvale Canal
42,580	34,550	13,520	12,830	9,392	2,759	222,144	Western Canal
8	7,121	23,690	31,790	30,040	24,830	394,849	Outlet to River
152,993	132,686	87,045	72,117	44,018	29,156	1,210,487	Total

TABLE 6

AQUEDUCT MONTHLY WATER OPERATIONS IN 1968

(in acre-feet unless otherwise indicated)

Operation	Month					
	January	February	March	April	May	June
NORTH BAY AQUEDUCT						
Pumped at Interim (Cordelia) PP	-	-	24	12	168	75
Storage Change & Losses	-	-	+ 24	- 8	7	- 11
Delivered to Napa County FC&WCD	-	-	0	20	161	86
CALIFORNIA AQUEDUCT---NORTH SAN JOAQUIN DIVISION						
Pumped at Delta Pumping Plant	26,968	2,724	70,895	87,984	79,129	16,911
Storage Change	6,343	- 4,364	615	2,046	221	- 745
Operational Losses	1,945	3,219	2,050	1,361	853	400
Delivered						
South Bay Aqueduct	7,991	3,539	6,692	9,667	10,291	10,814
Oak Flat Water District	0	0	113	572	532	925
San Luis Division	10,689	330	61,425	74,338	67,232	5,517
Total	18,680	3,869	68,230	84,577	78,055	17,256
SOUTH BAY AQUEDUCT						
Pumped at South Bay PP	7,991	3,539	6,692	9,667	10,291	10,814
Storage Change	0	0	0	0	0	0
Operational Losses	57	13	116	138	193	163
Delivered						
Alameda County FC&WCD (Zone 7)	345	379	345	469	686	800
Alameda County Water District	2,114	563	1,039	3,125	2,142	2,846
Santa Clara County FC&WD	5,475	2,584	5,192	5,935	7,270	7,005
Total	7,934	3,526	6,576	9,529	10,098	10,651
CALIFORNIA AQUEDUCT---SAN LUIS DIVISION						
Del From North San Joaquin Div	10,689	330	61,425	74,338	67,232	5,517
Pumped at O'Neill PP (Federal) (a	17,565	27,749	85,783	39,631	62,757	2,823
Total Inflow, State and Federal	28,254	28,079	147,208	113,969	129,989	8,340
San Luis Reservoir Operation						
Water Surface Elevation (feet)	338.61	339.98	363.42	374.49	385.09	378.08
End-of-Month Storage	130,534	136,850	267,495	335,148	409,456	359,698
Monthly Storage Change	- 137	6,316	130,645	67,653	74,308	- 49,758
Operational Losses	314	404	2,254	8,328	5,451	2,958
Forebay and Aqueduct						
Storage Change	15,207	2,661	- 16,619	8,055	2,148	- 5,924
Operational Losses	5,230	4,238	4,416	6,290	10,305	4,376
Delivered						
Federal (San Luis) Service Area	1,559	2,672	7,218	12,274	17,832	25,079
Released Thru O'Neill PP	0	1,611	2,716	103	4,548	497
South San Joaquin Division	6,081	10,177	16,578	11,266	15,397	31,112
Total	7,640	14,460	26,512	23,643	37,777	56,688
CALIFORNIA AQUEDUCT---SOUTH SAN JOAQUIN DIVISION						
Storage Change	5,104	739	1,540	2,662	- 347	412
Operational Losses	305	594	643	547	1,286	1,840
Delivered						
Kings County	0	0	0	0	0	0
Empire West Side Irr Dist	0	0	0	0	0	0
Tulare Lake Basin WSD	0	0	0	0	0	0
Hacienda Water District	0	0	0	0	0	0
Dudley Ridge Water District	0	2,982	4,036	1,287	1,692	4,759
Kern County Water Agency	56	745	3,357	1,235	4,848	10,281
Coastal Branch	616	5,117	7,002	5,535	7,918	13,820
Total	672	8,844	14,395	8,057	14,458	28,860
CALIFORNIA AQUEDUCT---COASTAL BRANCH						
Storage Change	110	70	28	- 11	2	3
Operational Losses	21	66	68	65	89	128
Delivered						
Devil's Den Water District	0	872	1,088	400	640	1,300
Kern County Water Agency	485	4,109	5,818	5,081	7,187	12,389
Total	485	4,981	6,906	5,481	7,827	13,689

a) Included are the following amounts of acre-feet pumped for the State: February, 7,913; August, 9,581; September, 10,950; October, 14,720; December, 7,776.

Month						Total	Operation
July	August	September	October	November	December		
				NORTH BAY AQUEDUCT			
183	127	206	141	127	165	1,228	Pumped at Cordelia PP
+ 1	6	- 5	+ 8	+ 1	- 9	14	Storage Change & Losses
182	121	211	133	126	174	1,214	Del to Napa Co FC&WCD
				CALIFORNIA AQUEDUCT---NORTH SAN JOAQUIN DIVISION			
12,720	47,466	108,315	142,256	156,534	158,159	910,061	Pumped at Delta PP
- 350	- 689	- 6,274	8,171	- 1,155	587	4,406	Storage Change
469	732	557	577	593	550	13,306	Operational Losses
							Delivered
11,986	11,792	9,444	9,584	5,354	5,748	102,902	South Bay Aqueduct
615	272	55	0	0	0	3,084	Oak Flat Water District
0	35,359	104,533	123,924	151,742	151,274	786,363	San Luis Division
12,601	47,423	114,032	133,508	157,096	157,022	892,349	Total
				SOUTH BAY AQUEDUCT			
11,986	11,792	9,444	9,584	5,354	5,748	102,902	Pumped at South Bay PP
0	0	0	0	0	0	0	Storage Change
424	379	79	36	181	68	1,847	Operational Losses
							Delivered
733	829	601	357	283	306	6,133	Alameda Co FC&WCD (Z7)
3,233	3,133	2,082	2,389	1,156	995	24,817	Alameda Co Water Dist
7,596	7,451	6,682	6,802	3,734	4,379	70,105	Santa Clara Co FC&WD
11,562	11,413	9,365	9,548	5,173	5,680	101,055	Total
				CALIFORNIA AQUEDUCT---SAN LUIS DIVISION			
0	35,359	104,533	123,924	151,742	151,274	786,363	Del From North SJ Div
227	22,155	106,494	141,500	121,087	68,238	696,009	Pumped at O'Neill PP
227	57,514	211,027	265,424	272,829	219,512	1,482,372	Total Inflow, St & Fed
							San Luis Reservoir Op
365.48	362.00	386.29	411.75	436.86	455.28		Water Surface El (feet)
276,674	255,297	418,210	619,400	844,942	1,025,100		End-of-Month Storage
83,024	- 21,377	162,913	201,190	225,542	180,158	894,429	Monthly Storage Change
2,739	3,138	4,865	4,975	6,982	2,893	45,301	Operational Losses
							Forebay and Aqueduct
3,754	881	- 7,958	11,238	- 1,236	- 240	11,967	Storage Change
4,934	6,029	11,304	22,886	15,135	4,460	99,603	Operational Losses
							Delivered
33,983	26,346	14,682	18,095	12,343	13,310	185,393	Fed (San Luis) Sv Area
1,930	11,187	10,826	0	0	0	33,418	Rel Thru O'Neill PP
35,911	31,310	14,395	7,092	14,011	18,931	212,261	South San Joaquin Div
71,824	68,843	39,903	25,187	26,354	32,241	431,072	Total
				CALIFORNIA AQUEDUCT---SOUTH SAN JOAQUIN DIVISION			
126	200	- 59	- 199	- 99	371	10,450	Storage Change
1,733	1,441	1,018	727	771	719	11,624	Operational Losses
							Delivered
0	0	0	0	0	900	900	Kings County
0	0	0	0	838	1,140	1,978	Empire W Side Irr Dist
0	0	3,357	3,635	8,865	9,243	25,100	Tulare Lake Basin WSD
0	0	0	0	0	0	0	Hacienda Water District
5,607	4,481	164	138	346	868	26,360	Dudley Ridge Water District
13,921	10,864	3,604	2,034	2,292	2,490	55,727	Kern County Water Agency
14,524	14,324	6,311	757	998	3,200	80,122	Coastal Branch
34,052	29,669	13,436	6,564	13,339	17,841	190,187	Total
				CALIFORNIA AQUEDUCT---COASTAL BRANCH			
9	- 2	- 3	- 206	180	6	+ 186	Storage Change
120	111	90	21	29	89	897	Operational Losses
							Delivered
1,342	1,019	0	0	0	721	7,382	Devil's Den Water Dist
13,053	13,196	6,224	942	789	2,384	71,657	Kern County Water Agency
14,395	14,215	6,224	942	789	3,105	79,039	Total

TABLE 7

MONTHLY POWER OPERATIONS IN 1968

(in millions of kilowatt-hours)

Operation	Month of Operation												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
ENERGY GENERATED BY EDWARD HYATT AND THERMALITO POWERPLANTS													
Gross Generation	-	0.11	5.36	67.46	102.16	112.27	91.59	77.76	52.05	50.22	32.96	24.32	616.26
Powerplant Use and Pumpback Requirements (a	-	0.21	3.58	0.02	-	0.05	0.10	0.15	0.39	4.27	6.30	6.55	21.62
Disposition of Project Energy Generation:													
For Project Pumping	-	-	1.84	27.83	9.98	1.35	2.60	23.23	39.40	43.02	25.66	16.95	191.86
Interim Energy Account	-	0.11	3.52	39.63	92.18	110.92	88.99	54.53	12.65	7.20	7.30	7.37	424.40
ENERGY CONSUMED BY PROJECT PUMPING PLANTS													
Interim (Cordelia)	-	-	0.01	0.01	0.08	0.03	0.09	0.06	0.09	0.07	0.06	0.08	0.56
South Bay	7.01	2.71	4.50	7.87	7.77	7.93	9.76	8.68	7.34	7.01	4.10	5.17	79.85
Delta	8.64	0.90	21.50	26.15	12.09	5.73	4.12	13.94	34.55	42.90	47.13	47.57	265.22
Federal Pumping Plants (b	-	2.45	-	-	-	-	-	2.81	3.41	4.67	-	2.43	15.77
San Luis (State Share)	-	-	8.63	10.13	1.38	-	0.05	3.90	19.62	26.88	34.49	37.01	142.09
Dos Amigos (State Share)	1.09	2.36	2.65	1.96	2.45	4.53	5.03	4.51	2.16	1.15	2.15	2.95	32.99
Las Perillas	0.05	0.45	0.49	0.41	0.61	1.04	1.06	1.05	0.46	0.07	0.10	0.24	6.03
Badger Hill	0.10	0.93	1.27	1.04	1.53	2.75	2.87	2.82	1.20	0.15	0.20	0.58	15.44
Transmission Losses	0.02	0.08	0.24	2.47	1.64	0.50	1.07	2.66	4.41	4.47	2.92	2.37	22.85
Total	16.91	9.88	39.28	50.03	27.55	22.52	24.05	40.43	73.24	87.36	91.15	98.40	580.80
SOURCES OF ENERGY FOR PROJECT PUMPING PLANTS													
Edward Hyatt & Thermalito Powerplants and San Luis Pumping-Generating Plant	-	-	1.80	27.80	10.00	4.51	7.86	25.25	39.41	43.27	27.04	16.99	203.93
Central Valley Project	7.01	2.71	4.50	7.87	7.77	7.93	9.76	8.68	7.35	7.07	4.10	5.17	79.92
Canadian Entitlement Power	-	-	-	10.28	10.70	10.33	10.68	10.68	10.34	10.67	10.33	10.68	94.69
Bonneville Power Administration	-	-	-	4.56	1.77	5.21	4.09	1.45	2.27	3.08	5.74	5.88	34.05
California "Suppliers"	9.90	7.10	32.90	0.76	1.12	2.02	1.97	1.94	0.88	6.04	44.58	59.00	168.21
Total	16.91	9.81	39.20	51.27	31.36	30.00	34.36	48.00	60.25	70.13	91.79	97.72	580.80

a) All energy for powerplant use and pumpback requirements supplied under letter agreement with Pacific Gas and Electric Company.

b) Power supplied by the State to federal Tracy and O'Neill Pumping Plants for pumping 50,940 acre-feet for the State.

streamflow requirements and water rights entitlements downstream from the Dam. No releases were made to the Plumas County Flood Control and Water Conservation District under their water supply contract, at the specific request of the District.(100) Annual evaporation and seepage losses were estimated to be 11,953 acre-feet. Lake storage on December 31, 1968 was 57,953 acre-feet.

Lake Oroville contained 164,998 (adjusted) acre-feet of water in storage on January 1, 1968. Storage steadily increased until it reached about 1,700,000 acre-feet near the end of April. The Lake remained at about that level, as outflow was approximately equal to inflow, until November, when the first significant runoff from the fall rains in the watershed reached the Lake. A decrease in irrigation releases about the same time also contributed to an increase in storage. Storage on December 31, 1968 was 2,066,110 acre-feet.

Palermo Outlet Works, in Oroville Dam, began operation on October 22. On the following day, the diversion at Kelly Ridge Penstock, a substitute water supply for the Outlet Works during the construction of Oroville Dam, was taken out of service.

At the Thermalito Facilities, water storage in the Thermalito Diversion Pool was 13,157 (adjusted) acre-feet on January 1, 1968 and 12,746 acre-feet on December 31, 1968. Flow released from the Pool and continuing over the Feather River Fish Barrier Dam varied from 300 to 800 cubic feet per second throughout the year. Storage in Thermalito Forebay, including the Power Canal, was 11,411 (adjusted) acre-feet on January 1, 1968, and 10,636 acre-feet on December 31, 1968.

Storage and disposition of water from Thermalito Afterbay during 1968 were as follows, in acre-feet:

Storage on December 31, 1968	4,180
Storage on December 31, 1967(a	63,718
Decrease in storage in 1968	4,345
Released to:	
PG&E Lateral	4,180
Richvale Canal	63,718
Sutter Butte Canal	525,596
Western Canal	222,144
Feather River	394,849
Total released	1,210,487

a) Adjusted

Water delivery was begun on April 13, 1968 to the Richvale Canal and on April 20 to the PG&E Lateral. Deliveries to these two diversion channels were terminated for the season on September 8 (PG&E Lateral) and September 24 (Richvale Canal). Sutter Butte Canal stopped receiving water on December 11. Western Canal stopped receiving water on January 4, 1968, began again on April 8, and stopped on December 10. Water was returned to the Feather River through the Thermalito Afterbay river outlet throughout 1968 except for two periods, from February 27 to March 5 and from July 2 to August 18.

During the initial filling of Thermalito Afterbay in November 1967, a rise in the ground water levels adjacent to the Afterbay was noticed. In February 1968, the reservoir was lowered and bentonite slurry and blankets were applied in an attempt to seal some of the borrow areas where sand lenses were discovered during construction. The Department is also (a) installing a series of relief wells to draw down the ground water levels near the Afterbay dam and pump the water back into the Afterbay, and (b) spreading a clay sealing slurry mixture over intake areas in the Thermalito Powerplant tail channel leading to the Afterbay, which might be the source of some seepage.

During March through November 1968, monthly water quality profiles were made at three stations in Lake Oroville. Temperature and turbidity measurements were made at several stations in the Thermalito Facilities.

Electrical conductivity and water temperature were continuously recorded throughout 1968 at the station on the Feather River near Gridley. Monthly samples were collected from this station, and from the station on the Feather River at Nicolaus. Plankton counts, nutrient determinations, and analyses for selected mineral constituents were made on these samples.

Electrical conductivity levels recorded at Gridley ranged from 90 to 120 micromhos. Monthly grab samples collected at Nicolaus indicated electrical conductivities ranging from 96 to 145 micromhos.

Recreation and Fish and Wildlife

Recreation developments at Frenchman Lake are operated and maintained by the United States Forest Service, Plumas National Forest. During 1968, the Lake received 312,000 recreation days of use—5,100 recreation days more than in 1967.(101)

The Department of Fish and Game, in 1968, planted in Frenchman Lake:

125,000 rainbow trout fingerlings.
600 rainbow trout subcatchables.
14,000 rainbow trout catchables.

During 1968, Antelope Lake received 54,300 recreation days of use—40,700 recreation days less than in 1967. Recreation developments at the Lake are operated and maintained by the United States Forest Service, Plumas National Forest. The Department of Fish and Game, in 1968, planted in Antelope Lake:

(100) See p. 23.

(101) One recreation day is the visit of one recreationist to a recreation area during any part of one day. (This term is used by the Department of Parks and Recreation in lieu of the term "visitor-day", since the latter conflicts with a different definition used by the United States Forest Service.)

102,000 rainbow trout fingerlings.
29,000 rainbow trout subcatchables.
7,000 rainbow trout catchables.

Lake Davis was opened to the public for the first time on April 27, 1968. During the remainder of 1968, the Lake and the downstream channel of Big Grizzly Creek received 210,000 recreation days of use. Initial recreation developments included a two-lane boat launching ramp and interim sanitary facilities. Campgrounds and picnic areas will be added later. The recreation developments are operated and maintained by the United States Forest Service, Plumas National Forest. The Department of Fish and Game planted 812,000 rainbow trout fingerlings in Lake Davis during 1968.

Recreation use of Lake Oroville commenced on April 4, 1968 when the Loafer Creek recreation area and the spillway boat ramp were opened to the public. Recreation use during July through December totaled 239,000 recreation days. (Recreation use specifically at various areas was not measured during April through June. Total recreation use of both the Lake Oroville and Thermalito Forebay areas during all of 1968 was 288,000 recreation days.)

During 1968, the Department of Fish and Game planted in Lake Oroville:

780,000 rainbow trout fingerlings.
322,000 rainbow trout subcatchables.
3,000 brown trout fingerlings.
90,000 brown trout subcatchables.
42,000 large mouth bass fingerlings.
1,000 large mouth bass subadults.
600 large mouth bass adults.
800 redeye bass subadults.
2,500 spotted bass fingerlings.
16 spotted bass subadults.
27,000 channel catfish fingerlings.
10,000 white catfish fingerlings.
8,000 red-ear sunfish fingerlings.
1,000 red-ear sunfish subadults.
26,500 threadfin shad fingerlings.
31 white sturgeon adults.
60,000 kokanee salmon fingerlings.

Thermalito Forebay was opened for recreation use for the first time on April 4, 1968. Recreation use during July through December totaled 26,000 recreation days. (Recreation use specifically at the Forebay was not measured during April through June.)

In 1968, the Department of Fish and Game planted in Thermalito Afterbay 250,000 rainbow trout fingerlings and 400 large-mouth bass adults. The Afterbay was not open for recreation use in 1968.

Flow to the Feather River Hatchery varied from 40 to 70 cubic feet per second throughout the year; all of the flow was returned to the Feather River. During 1968, the Hatchery received from the River approximately 6,000 king salmon and 1,000 steelhead adults. Egg production from these fish was 14,500,000 and 192,000, respectively. Due to disease, only 5,000 steelhead survived and were planted in the Feather River downstream from the Barrier Dam. Salmon had not matured sufficiently to plant as of December 31, 1968.

Operation studies were made by the Department in 1968 to assist in establishing criteria for preserving fish and wildlife habitat in the Feather River channel downstream from Oroville Dam. These studies are part of an agreement, signed in July 1967, between the Departments of Water Resources and Fish and Game to conduct an eight-year study of the fish and wildlife habitat in the Feather River channel.

Power Operations

At Edward Hyatt Powerplant, generating or pumping-generating units No. 1, 2, 3, 4, and 5 were placed in service during 1968; the remaining unit, No. 6, is scheduled for completion in 1969. All four units at the Thermalito Plant were put in service in 1968.

Electrical energy production at the two plants began March 6, 1968. During the year, 1,124,000 acre-feet passed through the turbines at Edward Hyatt Powerplant, while Thermalito Powerplant handled 1,343,000 acre-feet. Gross generation for the two plants was 616,260,000 kilowatt-hours measured at the Pacific Gas and Electric Company's Table Mountain substation. Pumpback during the year amounted to 1,070 acre-feet through Edward Hyatt Powerplant and 185,121 acre-feet through Thermalito Powerplant. Pumpback operations at Edward Hyatt Powerplant were conducted to test the units; both testing and operation for increased power production took place at Thermalito Powerplant. Power consumed was 340,000 kilowatt-hours at Edward Hyatt Powerplant and 20,380,000 kilowatt-hours at Thermalito Powerplant.

Operational in 1968 were:

- North Bay Aqueduct, Phase I Construction.
- Delta Pumping Plant.
- California Aqueduct from Delta Pumping Plant to O'Neill Forebay.
- South Bay Aqueduct, exclusive of Del Valle features.

The North Bay Aqueduct will deliver water from the Delta to Napa and Solano Counties for municipal and industrial use. The operational portion (Phase I construction) consists of an interim pumping plant that connects with the federal Solano Project terminal reservoir near Cordelia and a five-mile pipeline to the Napa Turnout. Phase II construction, scheduled for completion by 1980, will include the aqueduct and pumping plants between the Delta and Cordelia.

The Delta Pumping Plant pumps water from the Delta into the California Aqueduct.

The California Aqueduct from the Delta Pumping Plant to O'Neill Forebay, including Bethany Reservoir, supplies water to the South Bay Aqueduct and to the Oak Flat Water District. Most of the water entering this portion of the Aqueduct flows into O'Neill Forebay for storage in San Luis Reservoir and/or for transportation south.

The South Bay Aqueduct receives water from Bethany Reservoir, through the South Bay Pumping Plant, for delivery to Alameda and Santa Clara Counties, mainly for municipal and industrial use. Flood control, enhancement of recreation opportunities, and conservation of local runoff will commence in 1969, with initial operation of the Del Valle features. These features include Lake Del Valle and Del Valle Branch Pipeline, Pumping Plant, and Dam.

Water Operations

During 1968, the North Bay Aqueduct delivered 1,214 acre-feet of water (supplied by the federal Solano Project) to the Napa County Flood Control and Water Conservation District.

The Delta Pumping Plant pumped water all year except for a period from February 2 to February 20, when pumping was stopped because the Fish Protective Works were not yet operational. Pumping was reduced at times during the year because of salinity encroachment and low tides. The total amount pumped in 1968 was 910,061 acre-feet.

Water quality surveillance at the Delta Pumping Plant included weekly collection and analysis of samples for boron and sodium; monthly collection and analysis of samples for 20 constituents; and continuous measurement of specific conductance and turbidity. Hourly flows and hourly specific conductance values at the Delta Pumping Plant were used to determine the weighted monthly average concentrations of total dissolved solids (TDS), and total hardness, chlorides, sulfates, and percent sodium. The maximum monthly average TDS in 1968 was computed to be 526 ppm in February. The minimum monthly average TDS was computed to be 139 ppm in May.

The California Aqueduct, from the Delta Pumping Plant to O'Neill Forebay, supplied 102,902 acre-feet to the South Bay Aqueduct; 3,084 acre-feet to the Oak Flat Water District (beginning in March); and 786,363 acre-feet to O'Neill Forebay. Evaporation and seepage losses in this portion of the Aqueduct were estimated to be 13,306 acre-feet; water in aqueduct storage increased 4,406 acre-feet.

Samples from the Oak Flat Water District turnouts were collected and analyzed semiannually. Samples were collected monthly at the entrance to O'Neill Forebay and analyzed for 20 constituents.

On February 9, 1968, a slide of approximately 5,000 cubic yards occurred on the downhill side of the Aqueduct about six miles south of the Delta Pumping Plant. The slide occurred in the noncompacted fill that protects the compacted fill on which the canal lining rests. The slide did not affect operation of the Aqueduct, but it partially severed the maintenance road. As a precautionary measure, the water surface in the Aqueduct was held about nine feet lower than normal until April 20, 1968, when repairs to the fill were completed.

During 1968, the South Bay Aqueduct received 102,902 acre-feet of water, pumped from Bethany Reservoir by the South Bay Pumping Plant. The plant was shut down from November 17 to November 22 while reaches of the South Bay Aqueduct were inspected and cleaned and the Del Valle Branch Pipeline was connected to the main line of the Aqueduct.

Water deliveries from the South Bay Aqueduct included 6,133 acre-feet to the Alameda County Flood Control and Water Conservation District (Zone 7); 24,817 acre-feet to the Alameda County Water District; and 70,105 acre-feet to the Santa Clara County Flood Control and Water District. Total evaporation and seepage losses from the South Bay Aqueduct during 1968 were estimated to be 1,847 acre-feet.

Specific conductance was continuously recorded at the Santa Clara Terminal Facilities, and monthly samples were analyzed in the laboratory. Semiannual samples for analysis were taken at each contractor's turnout from the South Bay Aqueduct. The maximum monthly average total dissolved solids (TDS) at the terminal facilities was computed to be 404 ppm in February. The minimum monthly average TDS was computed to be 142 ppm in May.

Power Operations

The North Bay Aqueduct interim pumping plant, near Cordelia, commenced operations with one unit on March 26, 1968. The remaining three pump units were operational by late summer of 1968. Energy consumed for pumping during the year totaled 560,000 kilowatt-hours.

At the Delta Pumping Plant, Units No. 1 through 7, with a maximum pumping capability of 6,035 cubic feet per second, had been placed in operation by the end of 1968. Energy consumed for pumping during the year totaled 265,220,000 kilowatt-hours.

All six installed units (No. 1, 2, 3, 4, 8, and 9) of the South Bay Pumping Plant were operated during 1968; the three remaining units (No. 5, 6, and 7) will become operational in 1969. Energy consumed for pumping during the year totaled 79,850,000 kilowatt-hours.

San Luis Field Division

Operational in 1968 were the following state-federal joint-use facilities:

- O'Neill Forebay, including the California Aqueduct to Dos Amigos Pumping Plant.
- San Luis Reservoir, including San Luis Pumping-Generating Plant.
- California Aqueduct from, and including, Dos Amigos Pumping Plant to Kettleman City.
- Los Banos and Little Panoche Detention Reservoirs.

O'Neill Forebay and the aqueduct reach between the Forebay and Dos Amigos Pumping Plant regulate flows pumped from the Delta-Mendota Canal through O'Neill Pumping Plant, delivered from the Delta Field Division through the California Aqueduct, and released from San Luis Reservoir through the San Luis Pumping-Generating Plant. Flows so regulated are pumped into the California Aqueduct at Dos Amigos and into San Luis Reservoir through the San Luis Pumping-Generating Plant, or released to the Delta-Mendota Canal.

San Luis Reservoir, with a gross storage capacity of 2,040,552 acre-feet, regulates aqueduct flow from year to year and from month to month within a particular year. During the winter and spring, when the flow from the north is greater than demands to the south, the excess water is pumped into San Luis Reservoir. In the summer and fall, when area demands exceed the flow from the north, water is released from the Reservoir to help meet the water delivery requirements.

The California Aqueduct from O'Neill Forebay to Kettleman City is used by the Bureau of Reclamation to transport water to customers of the Central Valley Project (released through turnouts along this section of the Aqueduct) and by the Department to transport water for State Water Project customers farther south along the Aqueduct.

Los Banos Detention Reservoir, with a storage capacity of 34,562 acre-feet, is operated for flood control and recreation use. Little Panoche Detention Reservoir, with a storage capacity of 13,236 acre-feet, is operated for flood control only. The primary purpose of both of these reservoirs is to protect the California Aqueduct from damage by flood flows.

Federal-State Agreements for Operations and Maintenance

An interim letter of agreement for operation of the San Luis Division was extended to July 1, 1969.(102) Under the original agreement, the Bureau of Reclamation's Project Engineer is responsible for operations and maintenance of the San Luis Joint-Use Facilities and the Central Valley Project's control center is responsible for scheduling and dispatching. However, on July 1, 1968, the Bureau of Reclamation transferred the responsibility for scheduling and dispatching to the State. The letter agreement will otherwise remain in effect until the formal agreement for overall coordinated operation of the State Water Project and the federal Central Valley Project and the supplemental agreement for operation of the San Luis Division have been signed—expected by July 1, 1969.

The final inspection of the Facilities, before transfer to the Department, was made June 10. The Joint Federal-State Transfer Committee subsequently recommended that responsibility for operating and maintaining the Facilities be transferred to the Department, contingent upon completion of the long-term agreements mentioned above.

Water Operations

During 1968, storage in O'Neill Forebay (including the aqueduct reach between the Forebay and Dos Amigos Pumping Plant) decreased 7,215 acre-feet. During the year, inflow to the Forebay totaled 1,665,244 acre-feet: 786,363 acre-feet from the California Aqueduct; 696,009 acre-feet through O'Neill Pumping Plant from the Delta-Mendota Canal; and 182,872 acre-feet through San Luis Pumping-Generating Plant from storage in San Luis Reservoir. During 1968, outflow from the Forebay totaled 1,672,459 acre-feet: 419,218 acre-feet pumped through Dos Amigos Pumping Plant; 33,418 acre-feet

(102) See p. 94, Bulletin 132-68.

released to the Delta-Mendota Canal through O'Neill Pumping Plant; 2,160 acre-feet through turnouts for customers of the federal Central Valley Project; 1,122,602 acre-feet pumped into San Luis Reservoir through San Luis Pumping-Generating Plant; and 95,061 acre-feet lost through evaporation, seepage, and operational spills.

San Luis Reservoir completed its first full year of operation in 1968. Storage in the Reservoir on January 1, 1968 was 130,671 (adjusted) acre-feet. Filling of the Reservoir resumed after the inlet to the Pacheco Pass tunnel was completed on February 19, 1968 by the Bureau of Reclamation. Water pumped into the Reservoir totaled 1,122,602 acre-feet; water released to the Forebay amounted to 182,872 acre-feet. Evaporation, seepage, and other losses totaled 45,301 acre-feet. Storage in the reservoir on December 31, 1968 was 1,025,100 acre-feet—of which 537,067 acre-feet was project water and the remainder, Bureau water.

Storage in Los Banos and Little Panoche Detention Reservoirs on January 1, 1968 was 15,913 and 176 acre-feet respectively. On December 31, the storage was 14,066 and 195 acre-feet respectively.

The California Aqueduct from Dos Amigos Pumping Plant to Kettleman City received 419,218 acre-feet of water, in 1968, through Dos Amigos Pumping Plant. By the end of 1968, 94 turnouts on this reach for customers of the Central Valley Project were active; six of these are permanent and 88 are temporary. Deliveries through these turnouts totaled 183,233 acre-feet. Change in aqueduct storage and water losses through evaporation and seepage amounted to 23,724 acre-feet. Water released from the San Luis Field Division, at Kettleman City, totaled 212,261 acre-feet in 1968.

Monthly samples are obtained from both O'Neill Forebay and San Luis Reservoir and examined for phytoplankton and zooplankton content. The specific conductance of water is continuously measured immediately south of O'Neill Forebay and near Kettleman City, and monthly samples from these two locations are analyzed for 20 constituents. The total dissolved solids (TDS) concentration immediately south of O'Neill Forebay ranged from 223 to 359 ppm during 1968. At the sampling station near Kettleman City, TDS concentrations ranged from 205 to 318 ppm.

Recreation and Fish and Wildlife

Recreation use of O'Neill Forebay, San Luis Reservoir, and Los Banos Detention Reservoir areas during 1968 totaled 67,000 recreation days.

Power Operations

All eight units installed at the San Luis Pumping-Generating Plant were operated during the year. The State's share of energy used during the year totaled 142,090,000 kilowatt-hours; the State's share of energy generated was 11,220,000 kilowatt-hours.

Five of the six units of Dos Amigos Pumping Plant were operated during the year. The State's share of energy used during the year was 32,990,000 kilowatt-hours.

San Joaquin Field Division

Operational in 1968 were:

- California Aqueduct from Kettleman City to 7th Standard Road.

  Coastal Branch of the California Aqueduct from the main Aqueduct to the site of Devil's Den Pumping Plant.

The California Aqueduct from Kettleman City to 7th Standard Road delivers project water to the Coastal Branch and to agricultural users in the Tulare Lake Basin Water Storage District, Kings County, Empire West Side Irrigation District, Dudley Ridge Water District, Hacienda Water District, and a portion of the Kern County Water Agency.

The operational portion of the Coastal Branch (the first 15 miles) includes the Las Perillas and Badger Hill Pumping Plants and delivers project water to agricultural users in the Devil's Den Water District and a portion of the Kern County Water Agency.

Water Operations

The California Aqueduct from Kettleman City to 7th Standard Road delivered water to the first State Water Project customer in the San Joaquin Valley on January 13, 1968, when water was released to the Lost Hills Water District, a member unit of the Kern County Water Agency. Project water was delivered during the year to the Kern County Water Agency (55,727 acre-feet), Dudley Ridge Water District (26,360 acre-feet), Empire West Side Irrigation District (1,978 acre-feet), Tulare Lake Basin Water Storage District (25,100 acre-feet), and Kings County (900 acre-feet). The Hacienda Water District also will be served from this portion of the Aqueduct. Deliveries, excluding those to the Coastal Branch, totaled 110,065 acre-feet during 1968.

Las Perillas Pumping Plant pumped 80,034 acre-feet and Badger Hill Pumping Plant pumped 79,811 acre-feet during 1968. Deliveries from the Coastal Branch of the California Aqueduct during 1968 totaled 79,039

acre-feet—to the Devil's Den Water District (7,382 acre-feet) and the Berrenda Mesa Water District, a member unit of the Kern County Water Agency (71,657 acre-feet).

Semiannual samples were taken at each contractor's turnout served from the California Aqueduct and Coastal Branch and were analyzed in the laboratory.

Power Operations

Three units each of Las Perillas and Badger Hill Pumping Plants started operations January 28, 1968. Under agreement with the State,(103) the Berrenda Mesa Water District installed one unit at each of the Plants. These two units commenced operations in May. Energy used during the year totaled 6,030,000 kilowatt-hours at Las Perillas Pumping Plant and 15,440,000 kilowatt-hours at Badger Hill Pumping Plant.

Southern Field Division

No project features were operational in this new field division during 1968.

The Southern Field Division, established during the latter half of 1968, was responsible for operations and maintenance of the Cedar Springs Interim Water Supply Facility and for maintenance of stream gaging and climatological stations in areas tributary to project facilities.

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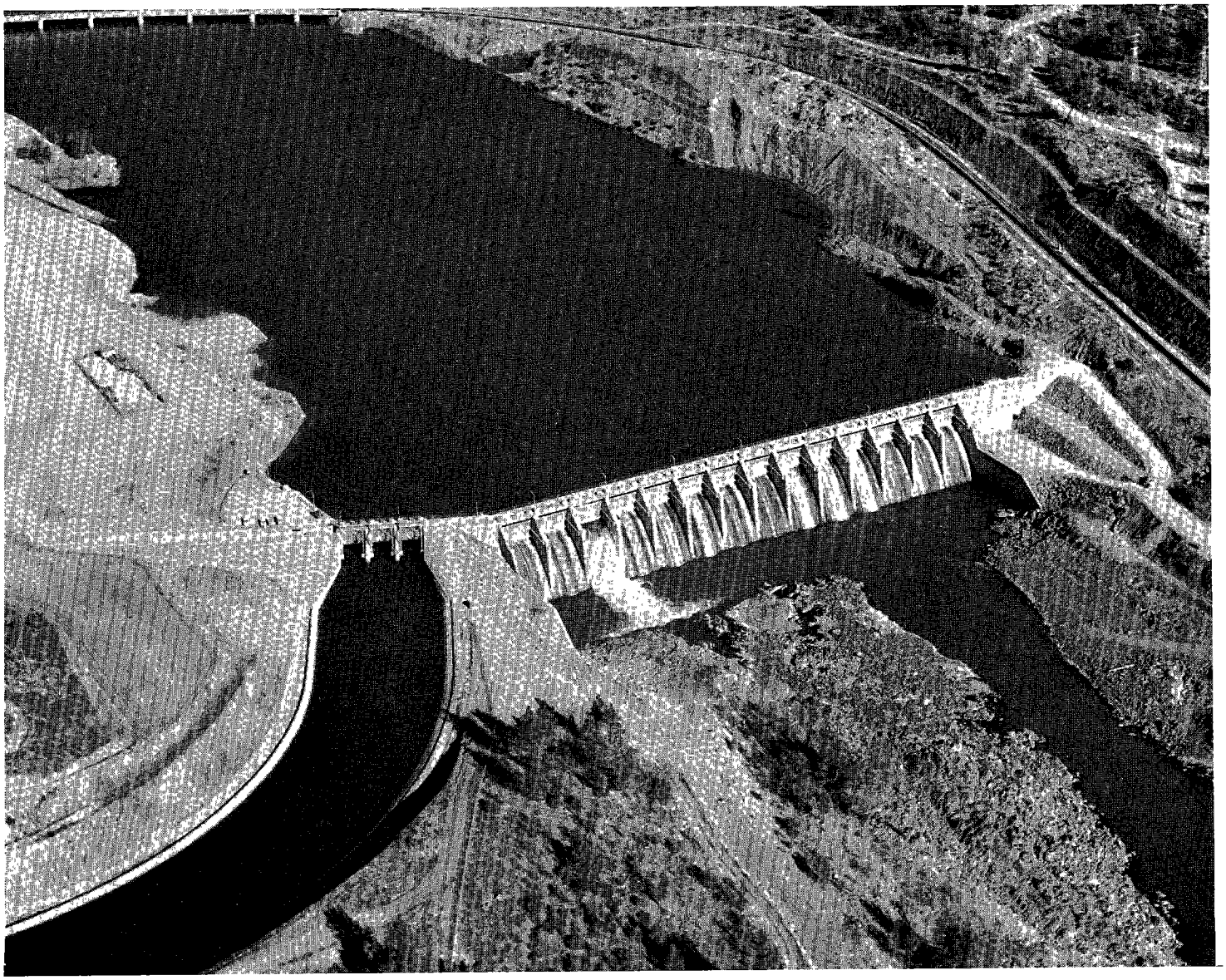
(103) See pp. 7-8



THERMALITO DIVERSION DAM AND POWER CANAL

CHAPTER V. PROJECT FINANCING

This chapter presents a financial analysis of the State Water Project, including (a) the current construction program, which will result in delivery of water to the southern extremities of the Project in 1972, and (b) project construction after 1972 under a particular set of assumptions regarding:

What is to be built. • When it is to be built. • How it is to be financed.

The year ending December 31, 1968 was the 12th year of a 16-year construction program which commenced in 1957 with the start of highway and railroad relocations around the site of Lake Oroville in Butte County and which will end about 1972 with the completion of Perris Dam in Riverside County. The current construction program, about two-thirds complete in terms of capital expenditures, includes:

- Three dams and reservoirs of the five planned for the Upper Feather Division—Frenchman and Antelope Dams and Lakes, Grizzly Valley Dam and Lake Davis (completed).
- The Oroville Division, including Oroville Dam and Lake Oroville, Edward Hyatt Powerplant, and the Thermalito Facilities (to be completed in 1969).
- Phase I construction of the North Bay Aqueduct (completed).
- The South Bay Aqueduct, including the Del Valle features (to be completed in 1969).
- The California Aqueduct, including San Luis Dam and Reservoir, through Perris Dam and Lake Perris (essentially completed for about half of its 444-mile length, with the remainder in various stages of construction).

  The West Branch of the California Aqueduct to and including Castaic Dam and Lake (under construction).
- Phase I construction of the Coastal Branch of the California Aqueduct (essentially completed).

Present estimates are that adequate funds will be available to the Project to complete the current construction program and to deliver water to the southern extremities of the Project in 1972. However, under the particular assumptions used herein, additional funds must be secured to complete construction after 1972 for the remaining facilities of the Project. These remaining facilities include:

- Abbey Bridge and Dixie Refuge Dams and Reservoirs of the Upper Feather Division.
- The Peripheral Canal.
- The Middle Fork Eel River Development.
- Phase II construction of the North Bay Aqueduct.
- Miscellaneous supplemental developments on the California Aqueduct, including additional pump and power recovery units, San Luis Division modifications, and Buttes Dam and Reservoir.
- Pyramid Power Complex on the West Branch of the California Aqueduct.
- Phase II construction of the Coastal Branch of the California Aqueduct.
- The San Joaquin Drainage Facilities.

In view of the several possible assumptions regarding construction of the above facilities, it is not possible now to define with any degree of assurance when and how much additional funds will be required by the Project. Furthermore, it is too early now to specify just how additional funds should be secured. Available courses of action include:

- Issuance of general obligation bonds in addition to those authorized by the State Water Resources Development Bond Act (California Water Code Sections 12930-12944), hereafter called the Burns-Porter Act.
- Appropriation of additional amounts of the State's tideland oil and gas revenues for use by the Project.
- Issuance of revenue bonds to finance construction of the powerplants on or along the California Aqueduct.
- Advances of money by the Project's water contractors.

Present Sources of Funds

General obligation bonds, provided for by the Burns-Porter Act, constitute the major source of funds for project construction costs. The Act authorizes the issuance of $1.75 billion in bonds for construction of the "State Water Facilities", a specific group of works defined in the Act which, together with certain "Additional Facilities" (the Middle Fork Eel River Development), constitute the present State Water Project. This authorization includes a reservation of $130 million in bonds specifically for financial assistance to local agencies under the Davis-Grunsky Program (California Water Code Sections 12880-12898). As of December 31, 1968, general obligation bonds for $1.15 billion had been sold.

California Water Fund moneys, derived from payments to the State for oil and gas royalties and bonuses under tideland leases, are also pledged to purposes of the Burns-Porter Act. As of December 31, 1968, expenditures from the Fund totaled about $174 million. By enactment of Senate Bill 261 on June 28, 1968 (Calif. Stats. of 1968, Chapter 411), the balance of moneys in the Fund and moneys which would have accrued to the Fund through fiscal year 1971-72 were appropriated to other project funds. Under this new Act, $25 million annually will accrue to the California Water Fund commencing in fiscal year 1972-73.(104)

The Burns-Porter Act also provides that, to the extent the California Water Fund moneys are used for construction of the "State Water Facilities" in lieu of bond proceeds, an equal amount of bonds is reserved ("offset") for construction of "Additional Facilities". The amount of bonds to be "offset" was effectively limited to about $174 million by enactment of Senate Bill 261. By the time moneys will again accrue to the California Water Fund under the new law (fiscal year 1972-73), all authorized general obligation bonds are expected to have been either expended or reserved.

Revenue bonds may be issued by the Department under the State's Central Valley Project Act (California Water Code Sections 11100-11925). As of December 31, 1968, the Department had sold $150 million in Central Valley Project Revenue Bonds, Oroville Division, Series A, which will finance about $122 million in capital expenditures.

Miscellaneous Receipts are also available to the Project as a result of various cost-sharing agreements and legislative actions, as follows:

- Those moneys diverted from the California Water Fund during the period June 28, 1968 through June 30, 1972 by enactment of Senate Bill 261 of the 1968 Legislature.
- A continuing annual appropriation of $5 million from tideland gas and oil revenues to reimburse project expenditures for recreation and fish and wildlife enhancement, provided for by enactment of Assembly Bill 12 of the 1966 Legislature (Calif. Stats. of 1966, Chapter 27).
- Specific appropriations made available by the Legislature for project construction prior to the effective date of the Burns-Porter Act.
- Federal contributions for the costs of project facilities which are allocable to flood control.
- Payments by the City of Los Angeles, Department of Water and Power, under Cooperative Development of the West Branch (Castaic).
- Advance payments by water contractors for project construction of excess delivery capability and turnout structures.
- Other income, including proceeds from certain right-of-way and interest earnings.

Miscellaneous Receipts may be applied both to capital costs and to general obligation bond service. The first call on Miscellaneous Receipts is coverage of any bond service in excess of available operating revenues—to avoid withdrawals from the State General Fund for this purpose. Because of this first call, the present ability of available funds to finance capital costs depends on the total Miscellaneous Receipts which must be reserved now for all future bond service coverage. Thus, a financial analysis of the State Water Project requires comprehensive evaluation of the relationship of annual bond service requirements and annual operating revenues for all future years until the bonds have been repaid.

(104) See pp. 1-2

Assumptions Basic to the Financial Analysis

Though construction is well under way and water and power sales contracts guarantee eventual repayment of substantially all reimbursable costs to be incurred, the future capital requirements and the annual relationships between bond service and operating revenues depend on several undefined aspects of the Project. This section describes these aspects and the Department's current assumptions concerning them.

Assumptions re Future Construction Costs

Listed below are the major assumptions regarding future capital costs to be incurred to complete the State Water Project.

- *Construction prices and state salaries,* compared with the prices and salaries prevailing on December 31, 1968, will rise approximately 5 percent, compounded annually, during the period 1969 through 1972 (the year of expiration of most recent and near-future labor contracts) and 2 percent compounded annually during the period 1973 through 1975. After 1975, no further change of price levels is assumed.(105)

  Abbey Bridge and Dixie Refuge Dams and Reservoirs will be constructed so as to be operational in 1979 and 1981, respectively--assuming the availability of sufficient funds and determinations by the Department of Parks and Recreation that these facilities will be needed by those dates. Procurement of right-of-way for Abbey Bridge Dam and Reservoir will begin in 1969 and extend through 1970. The total capital costs for these facilities are estimated to be $14 million.

- The *Peripheral Canal* will require the expenditure of about $149 million in project funds--the State's share of capital costs for a joint federal-state facility as presented in the Bureau of Reclamation's final feasibility report (not yet released), with allowances for rising construction prices and salaries and for state planning costs. Final design of the Peripheral Canal will be initiated in 1972; the facility will be operational in 1977. This schedule and/or estimated expenditure may have to be modified (a) to conform to the timing of federal authorization and funding or (b) to permit the State to proceed without federal participation.

- The *Middle Fork Eel River Development* will be constructed to a capacity which will provide an additional 900,000 acre-feet of annual yield in the Sacramento–San Joaquin Delta--sufficient to maintain project water delivery commitments under long-term contracts until the end of the project repayment period (approximately 2035). Construction of the Dos Rios–Grindstone Tunnel and the Stony Creek Conveyance Channel by the State will commence in 1976 and 1985, respectively. Payments to the Corps of Engineers by the State will commence in 1986 under an assumed Water Supply Act of 1958 contract for conservation storage in Dos Rios Reservoir. The costs of such storage will approximate those shown in the Corps of Engineers' final report on the Dos Rios Project, with allowances for future construction price escalation and for an increase in the applicable federal interest rate to 4-3/8 percent per annum.

- *Phase II Construction of the North Bay Aqueduct,* estimated to require $13 million, is scheduled to commence in 1976 so that deliveries of project water to Napa and Solano Counties from the Sacramento–San Joaquin Delta can begin in 1980; however, these dates may be accelerated if mutually agreed to by the Counties and the Department. Purchase of right-of-way in critical areas subject to early municipal and industrial development will commence in 1970.

- *Buttes Dam and Reservoir,* along the Mojave Division of the California Aqueduct, will be constructed during 1976 through 1980. The capital costs of the Dam and Reservoir are estimated to be $11 million, based on recent studies which indicate that construction of an assumed 21,800-acre-foot facility would be feasible. Construction of this facility is conditioned on financial feasibility. Therefore, these estimated expenditures may be modified, deferred, or eliminated, depending on the final size of the facility to be constructed and on the availability of project funds.

- *Cottonwood Powerplant,* which was planned for construction on the Mojave Division of the California Aqueduct, is not economically justified under presently assumed values of project power. Therefore, the Powerplant is replaced by an energy dissipator chute, with provision for possible future construction of the Powerplant should power values materially increase.

- The *San Luis Division* of the California Aqueduct will have to be modified to maintain, and eventually augment, the design conveyance capacity of the canal between Dos Amigos Pumping Plant and Kettleman City. Recent measurements of subsidence rates along the canal indicate that it will cost the State about $10 million during 1969 through 1973 to maintain the

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(105) See Water Service Contractors Council Memo No. 406, "Increasing Cost of Construction", August 13, 1968.

present design capacity. In addition, about $15 million will have to be expended in the period 1983 through 1985 for raising the canal lining to increase the design capacity of the canal by about 1,000 cubic feet per second.

- *Phase II Construction of the Coastal Branch* of the California Aqueduct will commence in 1975 and will be completed so as to permit initial delivery of project water to San Luis Obispo and Santa Barbara Counties in 1980. Under the Counties' water contracts, the year of initial water delivery (and the schedule for expending approximately $64 million in capital costs for Phase II construction) may be accelerated or deferred, or such services and expenditures may be eliminated entirely—depending on the exercise of options available to the Counties.

- The *Pyramid Power Complex,* on the West Branch of the California Aqueduct, is the subject of current negotiations between the Department and the City of Los Angeles, Department of Water and Power, with the objective of formulating pumped storage power facilities which would be financed by revenue bonds. Since the physical and financial plan is currently under negotiation, neither the costs of the Complex nor the funds which offset such costs are included in the financial analysis.

- The *San Joaquin Drainage Facilities* will be constructed at some indefinite time after 1980 when annual accruals to project funds exceed remaining construction expenditures for project facilities (assuming that beneficiaries guarantee repayment of the reimbursable costs of the Facilities). The only costs for the Facilities that are included in the financial analysis are planning costs incurred to date and the State's share of the future costs to complete joint studies being conducted with federal agencies concerning the feasibility of treatment of agricultural waste waters.

Assumptions re Future Available Funds

Listed below are the major assumptions regarding future project funds to be made available to the Department for financing (a) remaining capital costs and (b) future general obligation bond service that will not be covered by project operating revenues.

- Sale of Central Valley Project Revenue Bonds, Oroville Division, Series B, will provide an additional $88 million for financing capital costs.

- Additional funds will be derived from the future sale of revenue bonds supported by generation from a Pyramid Power Complex on the West Branch of the California Aqueduct. Such future sale will net additional funds at least equal to the capital costs of the Complex, including the Peace Valley Pipeline or its equivalent.

- Annual appropriations from the State's tideland gas and oil revenues to the Department will continue indefinitely in the full amounts presently provided for by law (Calif. Stats. of 1966, Chapter 27, and Calif. Stats. of 1968, Chapter 411)—$16 million annually through fiscal year 1969-70 and $30 million annually thereafter. (In the past, the Legislature has acted to both decrease and increase such annual appropriations and may exercise its prerogative to do either at any time in the future.)

- Funds advanced to the Department by The Metropolitan Water District of Southern California will include a payment of at least $15 million in 1971 for excess capacity to be constructed in the West Branch at the District's request. (Under proposed Amendment 7 to the District's water contract, this payment will be in lieu of payments required under Amendment 2 on a basis which has been made obscure by subsequently formulated West Branch power developments.)

- Payments by the City of Los Angeles, Department of Water and Power for the sharing of power generation benefits to be realized at Castaic Powerplant will be made in the original amounts set forth in the contract for Cooperative Development of the West Branch. Completion of Pyramid Lake (which adds to the generation potential of Castaic Powerplant) may be delayed somewhat from the original construction schedule. Also, the City will exercise its option to defer such payments to the Department to the maximum extent permitted by the contract.

- The present contractual limit of the total amount of federal contributions for costs of Del Valle Dam and Lake Del Valle ($4.856 million) will be increased by approximately $1.4 million to more properly account for the actual multiple-purpose costs of the facility allocable to flood control. (The Corps of Engineers is currently reanalyzing the flood control benefits to be realized from operation of Lake Del Valle.)

- The additional funds required to complete the State Water Project under the particular expenditures and construction schedules assumed for the financial analysis will be provided in the amounts and years needed through one or a combination of possible sources previously described.

Assumptions re Future General Obligation Bond Service

Listed below are the major assumptions as to the Project's future annual principal and interest payments on general obligation bonds, which affect the projected amounts of funds to be diverted from financing capital costs and reserved for coverage of such bond service.

- The additional funds needed to complete the State Water Project will be derived from a supplemental authorization of general obligation bonds.

- All future issues of general obligation bonds will be sold at a net interest cost of 5 percent—the maximum limit on such cost pursuant to the State General Obligation Bond Law which is specifically incorporated in the Burns-Porter Act.

  The service pattern for all future issues of general obligation bonds will provide for no maturities during the first nine years after issuance, with maturities scheduled so as to produce approximately level annual service for the years thereafter, and with a final maturity not later than 50 years after issuance—the maximum permitted by the Burns-Porter Act.

Assumptions re Future Project Revenues

Listed below are the major assumptions regarding the flow to the Project of "net operating revenues" [the portion of total operating revenues which exceeds operating costs (costs of project operations, maintenance, pumping power, and replacements) and which can be applied to general obligation bond service].

- The Pyramid Power Complex will constitute a separate set of power facilities not included under the classification of "project facilities" as defined in water contracts. As such, (a) the capital and operating costs of the Complex will not be reimbursed by the water contractors and (b) the value of power generated by the Complex will not be credited to the costs to be reimbursed by the water contractors. (Once the facilities of the Complex become defined, this assumption would not be necessary. The Oroville power facilities, which are also financed by revenue bonds, are "project facilities". The water contractors share in both the costs and credits associated with Oroville power. If the Pyramid Power Complex were to be classified as "project facilities", project net operating revenues during the construction period of the Complex would be noticeably increased over those assumed for the financial analysis—and would be reduced once the Complex was generating power.)

- Articles 22(e) and 22(g) of the water contracts will be amended so as to provide for inclusion of the reimbursable costs of the Middle Fork Eel River Development in the determination of water rates in the years the State commences to incur costs for major construction of each facility of the Development—not in the year when the Development was authorized for construction.(106) This amendment, which was proposed by the Department at the time the Development was authorized by administrative action in 1964, will cause water charges to be about $3.00 per acre-foot lower during the early 1970's and to increase more or less gradually to about $1.00 per acre-foot higher during the early 1990's and each year thereafter. This early decrease in water charges, and in project operating revenues, will increase those project funds which must be applied to general obligation bond service coverage by about $38 million during 1970 through 1980.

- The Project repayment period will extend through the year 2035--50 years after the last year of project construction as assumed herein.

- Final percentages of multiple-purpose project costs allocable to recreation and fish and wildlife enhancement will approximate those preliminary percentages summarized in the Department's Bulletin 153-68, "Allocations of Costs Among Purposes of the California State Water Project".

- Future legislatures will make available appropriations from the State's General Fund in annual amounts equal to the multiple-purpose operating costs of the Project allocable to recreation and fish and wildlife enhancement. (Continuing appropriations from the State's tideland gas and oil revenues for the multiple-purpose capital costs of the Project allocable to these purposes has been provided for by Calif. Stats. of 1966, Chapter 27.)

- Approximately 20 percent of the $130 million in total expenditures under the Davis-Grunsky Program will be for loans and 80 percent for grants. (This is approximately the same relationship between loans and grants as for the $54 million in applications which have been approved through December 31, 1968.)

(106) See pp. 26-27.

Estimated Project Costs

This section summarizes the estimated total costs of the State Water Project under the assumptions previously described.

Estimated Capital Expenditures

About $1,448,000 in capital have been expended through December 31, 1968. Capital expenditures which will have been incurred by the end of the Project's construction period (1985) are estimated to total $2,796 million. (This estimate excludes future costs of the San Joaquin Drainage Facilities and Pyramid Power Complex as previously described.) By the end of the project repayment period (2035), an estimated additional $680 million will have been incurred for principal and interest payments to the Corps of Engineers for the State's share of construction costs for Dos Rios Dam and Reservoir. (These payments will be funded solely by moneys derived from operating revenues and do not add to the capital funding requirements of the Project.)

Estimated annual expenditures for each major facility are shown in Table 8 and are summarized graphically for the project construction period on Figure 5.

Composition of Estimated Capital Expenditures

Generally, total capital expenditures for each facility include all direct costs--and an allocated share of general projectwide costs--incurred between the dates when the facility was authorized for construction and December 31 of the year when the facility was or will be declared capable of delivering water in accordance with the provisions of long-term water contracts. Capital expenditures also include those for constructing or installing additional works or betterments within the operational period, such as pump installations.

Capital costs of facilities constructed by federal agencies and used by the State Water Project require special treatment.

For Dos Rios Dam and Reservoir, project capital expenditures include only those principal and interest payments by the State to the Corps of Engineers under an assumed repayment contract executed under the Water Supply Act of 1958.

FIGURE 5

CAPITAL EXPENDITURES 1952-1985

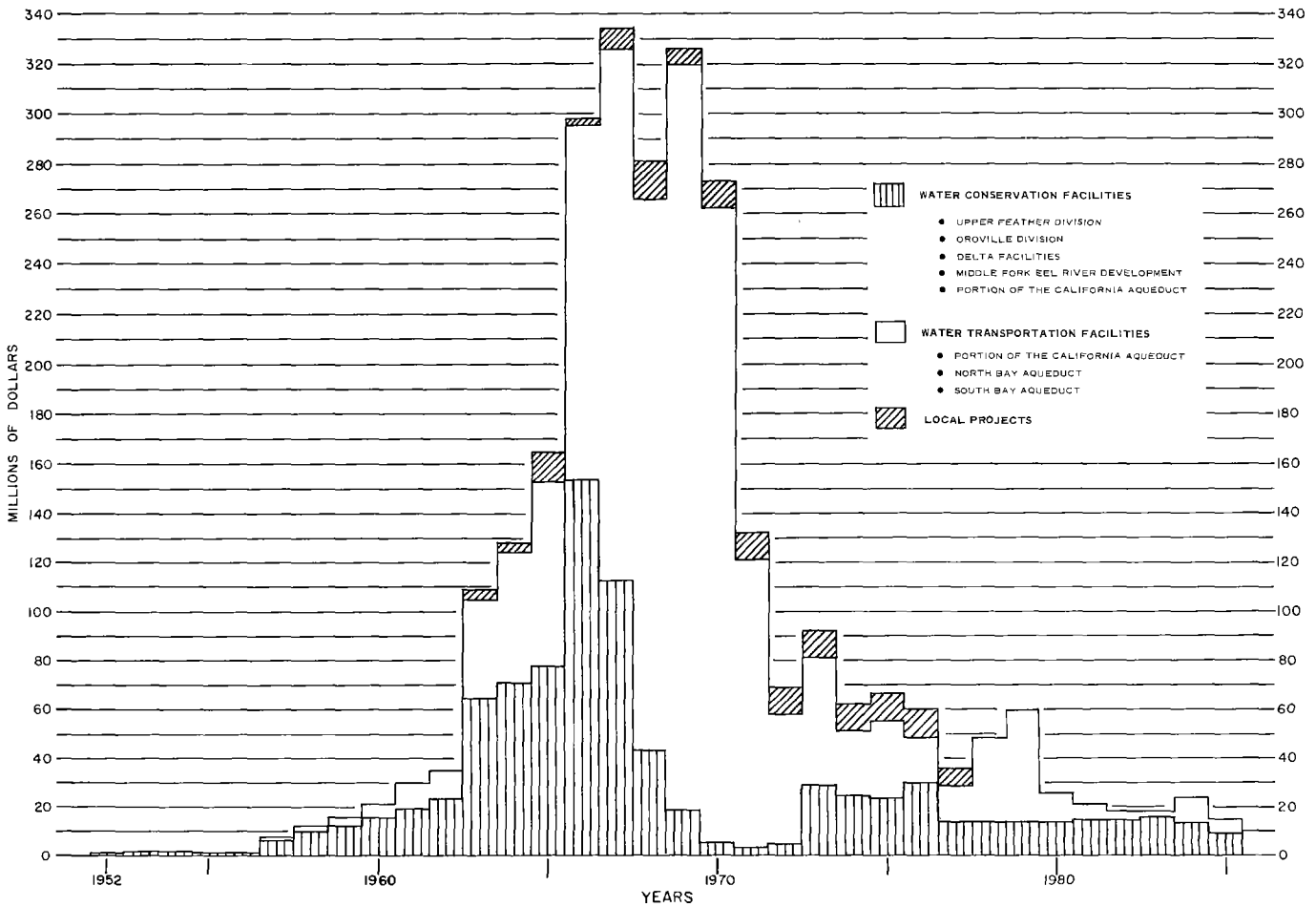

TABLE 8

SUMMARY OF ANNUAL CAPITAL EXPENDITURES FOR MAJOR FACILITIES

(in thousands of dollars)

Calendar Year	Local Projects (Davis-Grunsky Program)	San Joaquin Drainage Facilities	Feather River Facilities		Delta Facilities (Peripheral Canal) (a	Middle Fork Eel River Development (b	California Aqueduct (a	North Bay Aqueduct	South Bay Aqueduct	Unassigned Costs (c	Total
			Upper Feather Division	Oroville Division							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	Financed from legislative appropriations provided prior to Burns-Porter Act (d										
1952	0	0	0	171	0	0	109	0	1	23	304
1953	0	0	0	307	0	0	338	0	3	71	719
1954	0	0	0	299	0	0	432	0	9	61	801
1955	0	0	0	190	0	0	177	0	12	154	533
1956	0	0	0	1,370	0	0	291	0	119	39	1,819
1957	0	0	12	6,310	0	0	835	27	796	43	8,023
1958	0	0	229	9,599	0	0	1,565	50	965	67	12,475
1959	0	0	623	10,350	0	0	3,460	30	889	146	15,498
1960	0	51	1,138	13,409	75	0	4,488	27	1,858	66	21,112
1961	0	252	712	15,559	308	0	3,785	13	3,569	50	24,248
1962	0	17	120	4,467	219	0	1,907	- 6	1,852	2	8,578
1963	0	0	- 1	1,614	12	0	3,859	- 6	941	- 4	6,415
1964	0	1	0	22	2	0	80	0	103	0	208
1965	0	0	0	- 36	0	0	-221	0	- 24	- 1	-282
1966	0	0	16	- 28	0	0	- 34	0	- 5	1	- 50
1967	0	0	13	-102	0	0	- 1	0	- 1	0	- 91
1968	0	0	0	0	0	0	0	0	- 5	- 1	- 6
17 years, 1952-1968	0	321	2,862	63,501	616	0	21,070	135	11,082	717	100,304
	Financed from project funds provided subsequent to Burns-Porter Act (e										
1960	0	0	0	0	0	0	15	0	0	6	21
1961	66	164	309	2,056	192	0	2,642	3	579	0	6,011
1962	552	430	1,227	15,516	605	0	6,944	11	1,283	61	26,629
1963	2,947	438	2,971	46,400	1,366	0	43,214	21	5,092	290	102,739
1964	3,885	518	1,131	53,611	1,526	166	55,899	78	11,194	379	128,387
1965	11,189	837	1,351	55,839	1,564	849	87,167	222	5,968	822	165,808
1966	1,745	1,567	2,026	120,403	2,205	1,545	160,406	510	7,986	1,383	299,776
1967	6,646	1,003	1,112	87,290	2,485	1,528	218,025	1,626	14,072	1,636	335,423
1968	15,592	604	332	35,378	2,235	1,092	218,192	952	6,867	1,663	282,907
9 years, 1960-1968	42,622	5,561	10,459	416,493	12,178	5,180	792,504	3,423	53,041	6,240	1,347,701
Subtotal, actual for 17 years, 1952-1968	42,622	5,882	13,321	479,994	12,794	5,180	813,574	3,558	64,123	6,957	1,448,005
	To be financed from project funds (f										
1969	5,609	433	519	13,723	1,555	1,599	300,847	478	1,083	226	326,072
1970	10,600	307	672	3,247	1,583	1,328	254,274	276	255	225	272,767
1971	10,600	235	72	330	1,417	1,338	117,271	164	71	226	131,724
1972	10,600	228	74	139	5,283	1,343	51,313	137	22	500	69,639
1973	10,600	228	76	2	37,078	4,014	39,008	300	423	0	91,729
1974	10,600	228	76	0	31,050	3,463	16,292	380	60	0	62,149
1975	10,600	233	274	0	30,383	2,920	21,881	288	267	0	66,846
7 years, 1969-1975	69,209	1,892	1,763	17,441	108,349	16,005	800,886	2,023	2,181	1,177	1,020,926
1976	10,600	0	390	0	27,628	11,186	9,351	467	88	0	59,710
1977	7,569	0	2,581	0	0	14,623	10,750	711	0	0	36,234
1978	0	0	4,041	0	0	14,768	28,060	2,345	0	0	49,214
1979	0	0	582	0	0	14,915	37,820	6,895	0	0	60,212
1980	0	0	3,443	0	0	15,060	7,702	238	0	0	26,443
1981	0	0	1,198	0	0	15,210	4,252	30	0	0	20,690
1982	0	0	0	0	0	15,360	3,140	0	0	0	18,500
1983	0	0	0	0	0	16,818	859	248	0	0	17,925
1984	0	0	0	0	0	14,604	8,830	0	0	0	23,434
1985	0	0	0	0	0	9,130	5,320	0	0	0	14,450
10 years, 1976-1985	18,169	0	12,235	0	27,628	141,674	116,084	10,934	88	0	326,812
Subtotal, projected for 17 years, 1969-1985	87,378	1,892	13,998	17,441	135,977	157,679	916,970	12,957	2,269	1,177	1,347,738
Total, actual and projected for project construction period, 1952-1985	130,000	7,774	27,319	497,435	148,771	162,859	1,730,544	16,515	66,392	8,134	2,795,743
	To be financed from repayments of project funds provided by project net operating revenues (g										
10 years, 1986-1995	0	0	0	0	0	99,838	0	0	0	0	99,838
10 years, 1996-2005	0	0	0	0	0	145,110	0	0	0	0	145,110
10 years, 2006-2015	0	0	0	0	0	145,110	0	0	0	0	145,110
10 years, 2016-2025	0	0	0	0	0	145,110	0	0	0	0	145,110
10 years, 2026-2035	0	0	0	0	0	145,110	0	0	0	0	145,110
Total, projected subsequent to project construction period, 1986-2035	0	0	0	0	0	680,278	0	0	0	0	680,278

a) Excludes United States' share of costs of the joint-use San Luis Division of the California Aqueduct and Delta Facilities.
b) Estimated capital expenditures thru 1985 are for the Dos Rios-Grindstone Tunnel and Stony Creek Conveyance Channel. Expenditures after 1985 represent the State's payments for the capital costs of conservation storage in Dos Rios Reservoir under an assumed Water Supply Act of 1958 contract.
c) Includes planning costs incurred for facility features subsequently deleted from the Project -- such as the North Bay Aqueduct west of Napa Valley -- and initial costs of mobile equipment for project operations and maintenance.
d) Includes actual expenditures financed by special legislative appropriations from the General Fund and California Water Fund. The funds so made available by these prior appropriations are included in the classification of "Miscellaneous Receipts" (Table 16, Column 2).
e) Includes actual expenditures from general obligation and revenue bond proceeds, California Water Fund, and "Miscellaneous Receipts". Negative amounts reflect accounting adjustments.
f) An estimate of the projected sources of financing for these capital expenditures are presented in Table 15.
g) These costs would be financed thru repayments to the California Water Fund under the "third priority" use of project revenues as defined in the Burns-Porter Act, in the manner indicated in Table 15.

For joint-use facilities constructed by the Bureau of Reclamation and financed, in part, with funds advanced by the State (the San Luis Division of the California Aqueduct and, as assumed herein, the Delta Facilities), only the amount of the State's advances is included as project capital expenditures for the respective facilities.

Estimates of annual capital expenditures for each project facility are developed as the sum of the following:

- All capital costs actually incurred during each year through 1968, as shown in the Department's accounting records.
- Unpaid amounts of construction contracts in effect at the end of 1968.
- Estimated costs to be incurred directly under future construction contracts.
- Other direct costs to be incurred for each facility, including design, right-of-way acquisition, construction supervision, payments to the Bureau of Reclamation, and direct operating costs to be incurred during the construction period.
- An allocated share of those general costs to be incurred for the Project as a whole during the construction period of each facility.

  Payments to the Corps of Engineers for conservation storage in Dos Rios Reservoir under a Water Supply Act of 1958 contract.

The estimated composition of annual capital expenditures for the Project as a whole is shown in Table 9.

Changes in Estimated Capital Expenditures

The current estimate of $2,796 million for the total capital expenditures during the Project's construction period is about $18 million more than the estimate of $2,778 million shown in Bulletin 132-68. A general reconciliation of the cost changes for each project facility is shown in Table 10.

Allocation of Capital Expenditures Among Project Purposes

The Department must allocate estimated capital costs among project purposes before it can project future operating revenues and Miscellaneous Receipts to be available to the Project. The current allocation of actual and projected annual capital costs among purposes of project facilities is shown in Table 11.

Operating Costs

While operating costs must be projected to estimate future operating revenues, changes in operating costs cause concomitant changes in operating revenues and thus have no material effect on the financial analysis. For this reason, the projected salaries of operations and maintenance personnel are not increased herein to allow for future price escalation during the operational period. Generally, the portion of operating revenues received for reimbursement of operating costs is directly applied to such costs during the year in which they are incurred. Not covered by corresponding operating revenues, however, is a small percentage of the Project's operating costs which are allocable to (a) flood control(107) and (b) excess capacity in the South Bay Aqueduct.

All actual and estimated operating costs for the State Water Project, together with the estimated composition of such costs, are summarized in Table 12.

Pumping Power and Energy Costs

As shown in Table 12, the costs of pumping power and energy constitute the largest single item of annual operating costs for the Project. Commencing in 1991, when the full water delivery capability of the Project will be utilized, power costs, including costs for transmission service, are estimated to be $41.1 million annually.

The combined capacity and energy requirements of all project pumping plants are treated as an integrated system load which is met by the most economical combination of power sources available to the Department. For delivery of project water under long-term contracts (as distinguished from surplus water deliveries), these available sources include Edward Hyatt and Thermalito Powerplants (until April 1, 1969), Canadian Entitlement power contracts, Bureau of Reclamation, Bonneville Power Administration, the California Suppliers, and power recovery plants on the California Aqueduct (including San Luis Pumping-Generating Plant, Devil Canyon Powerplant, and San Luis Obispo Powerplant).

The value of recovery plant generation, which is used to meet part of the system load, is assumed to be equal to the cost of capacity and energy which would have been purchased from alternative sources if this generation were not available. The annual value of such generation under full project operations is estimated to be $8.2 million. This amount includes the payment from the City of Los Angeles, Department of Water and Power for peaking capacity foregone under Cooperative Development of the West Branch (Castaic). Estimated sales of Oroville (after April 1, 1969) and Pyramid power are not shown in Table 12, since these sales will support actual and assumed revenue bonds and will not be applied directly to reduce operating costs.

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(107) Federal contributions for flood control, treated in the financial analysis as Miscellaneous Receipts, include amounts covering those operating costs allocable to flood control on a capitalized basis.

TABLE 9

COMPOSITION OF ANNUAL CAPITAL EXPENDITURES (a

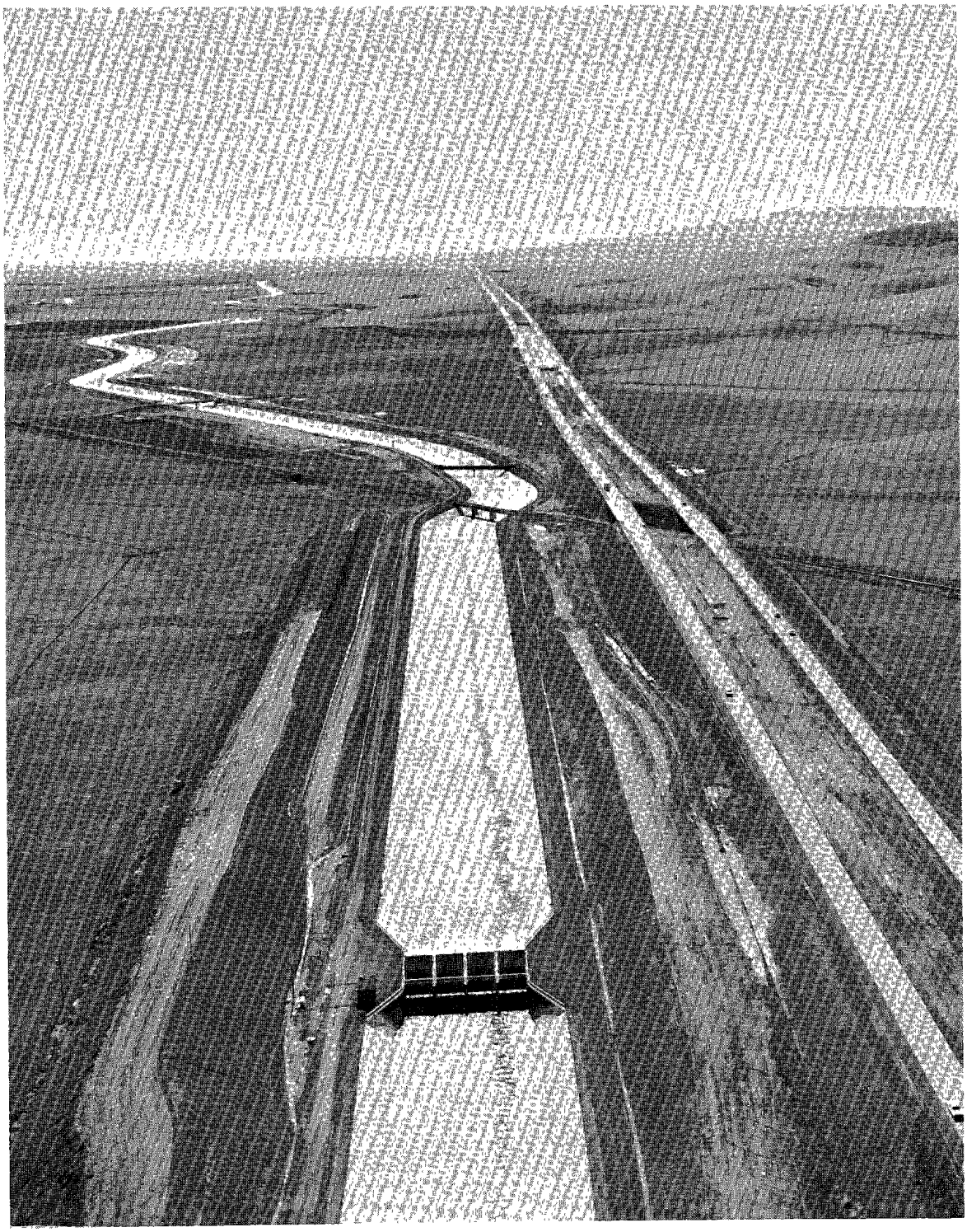
(in thousands of dollars)

Calendar Year	Surveys and Engineering Studies	Preliminary and Final Design	Rights-of-Way and Relocations	Construction Contracts and Supervision	Operating Costs Incurred During Construction (b	Loans and Grants (Davis-Grunsky Program)	Project Payments to the United States (c	Allowance for Future Price Escalation	Total Capital Expenditures
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Subtotal, actual costs for 17 years, 1952-1968	32,058	96,471	144,147	954,916	31,964	42,622	145,827	0	1,448,005
1969	2,327	6,775	23,361	268,538	10,297	5,609	1,427	7,738	326,072
1970	2,045	2,810	8,512	227,341	7,276	10,600	984	13,199	272,767
1971	1,807	1,419	4,033	97,340	8,359	10,600	664	7,502	131,724
1972	1,705	796	2,343	41,872	3,989	10,600	3,092	5,242	69,639
1973	1,690	3,320	6,630	22,008	4,492	10,600	28,164	14,825	91,729
1974	1,115	2,996	651	10,017	2,903	10,600	23,147	10,720	62,149
1975	540	3,802	495	15,247	650	10,600	22,624	12,888	66,846
7 years, 1969-1975	11,229	21,918	46,025	682,363	37,966	69,209	80,102	72,114	1,020,926
1976	310	2,020	510	14,847	699	10,600	20,612	10,112	59,710
1977	0	1,178	1,356	20,588	306	7,569	0	5,237	36,234
1978	0	487	957	36,685	306	0	0	10,779	49,214
1979	0	477	360	45,890	277	0	0	13,208	60,212
1980	0	337	182	20,850	179	0	0	4,895	26,443
1981	0	62	0	16,956	179	0	0	3,493	20,690
1982	0	26	0	15,295	149	0	0	3,030	18,500
1983	0	522	0	14,231	149	0	0	3,023	17,925
1984	0	100	0	17,794	149	0	0	5,391	23,434
1985	0	0	0	10,570	149	0	0	3,731	14,450
10 years, 1976-1985	310	5,209	3,365	213,706	2,542	18,169	20,612	62,899	326,812
Subtotal, projected costs for 17 years, 1969-1985	11,539	27,127	49,390	896,069	40,508	87,378	100,714	135,013	1,347,738
Total, actual and projected costs for project construction period, 1952-1985	43,597	123,598	193,537	1,850,985	72,472	130,000	246,541	135,013	2,795,743
10 years, 1986-1995	0	0	0	0	0	0	99,838	0	99,838
10 years, 1996-2005	0	0	0	0	0	0	145,110	0	145,110
10 years, 2006-2015	0	0	0	0	0	0	145,110	0	145,110
10 years, 2016-2025	0	0	0	0	0	0	145,110	0	145,110
10 years, 2026-2035	0	0	0	0	0	0	145,110	0	145,110
Total projected costs subsequent to project construction period, 1986-2035	0	0	0	0	0	0	680,278	0	680,278

a) Estimated costs for future years based on prices generally prevailing in December 1968 except that Column 8 includes additional costs on items included in columns to the left (other than Column 6)--based on 5% per annum for the 4-year period 1969-1972 and 2% per annum for the 3-year period 1973-1975.

b) Operating costs incurred prior to transfer from construction to operations and for initial fill of project reservoirs during operations.

c) State's share of capital expenditures incurred by the United States for federally constructed works of the San Luis Division and the Delta Facilities, and annual principal and interest payments for capital costs of conservation storage in a federally constructed Dos Rios Reservoir, estimated to commence after 1985 under a Water Supply Act of 1958 contract.



CALIFORNIA AQUEDUCT AND
WESTSIDE FREEWAY SOUTH
OF HIGHWAY U.S. 50

TABLE 10

GENERAL RECONCILIATION OF CHANGES IN CAPITAL EXPENDITURES

(in millions of dollars)

Project Facilities	Bulletin 132-68	Bulletin 132-69	Change	Major Reasons for Cost Change
UPPER FEATHER DIVISION	27.8	27.3	- 0.5	Change in financing of Grizzly Valley Pipeline Prior estimate ($0.8 million), based on state construction and financing of Upper Reach (by 1970) and Lower Reach (by 1980), included $0.2 million for price escalation. Present estimate based on construction by Plumas County Flood Control and Water Conservation District (both reaches to be completed by 1970), partially financed by project funds ($0.2+ million) and remainder by federal grant.
OROVILLE DIVISION	492.7	497.4	4.7	Increase in Completion Costs o Net adjustments for land and relocation costs for Oroville Dam and Lake Oroville.....+ $2 million o Completion costs for Edward Hyatt Powerplant.....+ $2 million o Costs (including seepage correction) for Thermalito Facilities.....+ $1 million o Delay in year Division to be declared operational.....+ $4 million o Adjustment of general operating costs.....- $5 million
DELTA FACILITIES	109.5	148.8	39.3	Change in basis for estimating cost of Peripheral Canal Present estimate based on indicated State's share of costs of Peripheral Canal as shown in Bureau of Reclamation's final feasibility report ($101 million) plus the State's cost for planning ($17 million) and allowances for future construction price escalation ($31 million). Prior estimate based on the State's costs as shown in the Bureau's preliminary report ($55 million), doubled for contingencies.
MIDDLE FORK EEL RIVER DEVELOPMENT	165.0	162.9	- 2.1	Decrease in advance planning and general operating costs Department costs for surveys and engineering studies decrease a net of about $1 million during 1969 thru 1974 as compared with prior estimate. Remainder of indicated reduction due to decrease in general operating costs for Project as a whole, a portion of which is allocated to the Development.
NORTH BAY AQUEDUCT	16.5	16.5	0.0	No major change.
SOUTH BAY AQUEDUCT	67.5	66.4	- 1.1	Defer final Monitor and Control System costs Deletion of the System completion contract pending final decision as to remote or manual operation of the South Bay Aqueduct ($0.6 million) together with a net reduction of final pumping plant and aqueduct costs ($0.5 million).
CALIFORNIA AQUEDUCT North San Joaquin Division	167.1	168.5	1.4	Increase in estimated cost to complete Delta Diversion Works Estimated cost reflects increases for Clifton Court Forebay ($1 million), Fish Protective Works ($0.2 million), and Delta Pumping Plant ($1 million); partially offset by a net reduction of final aqueduct costs.
San Luis Division	189.6	200.4	10.8	Cost allowances for maintaining design conveyance capacities o State's share of remedial work to compensate for subsidence expected along certain canal reaches.....+ $10 million o Increase in State's share of other joint construction costs.....+ $ 2 million o Decrease in general state-only costs.....- $ 1 million
South San Joaquin Division	258.9	257.9	- 1.0	Reduction in estimated costs of pumping plants Compared with prior estimate, the total costs of Buena Vista, Wheeler Ridge, and Wind Gap Pumping Plants decreased $6 million; however, estimated aqueduct land costs increased about $5 million.
Tehachapi Division	272.8	280.5	7.7	Construction cost increases Estimated construction costs increased $3 million for A. D. Edmonston Pumping Plant and $5 million for Tunnels No. 1, 2, & 3.
Mojave Division	217.8	227.4	9.6	Modification of features and changes in cost estimates o Substitution of Energy Dissipator Chute for Cottonwood Powerplant...- $ 9 million o Decrease in estimated costs of Buttes Dam and Reservoir.....- $10 million o Increase in estimated costs for land and relocations along the aqueduct.....+ $12 million o Increase in estimated costs for land and relocations at Silverwood Lake.....+ $ 8 million o Increase in construction costs of aqueduct.....+ $ 8 million
Santa Ana Division	205.3	198.1	- 7.2	Decrease in allowances for future construction price escalation Prior estimate based on maximum deferral of Perris Dam construction. Estimated costs of the Dam decrease $6 million under current minimum-deferral schedule.
West Branch	372.5	319.2	-53.3	Change in treatment of costs of Pyramid Power Complex o Prior estimate of costs of Peace Valley Pipeline and Pyramid Powerplant (now assumed to be financed by revenue bonds).....- $74 million o Increase in estimated total costs of Quail Canal.....+ $ 8 million o Increase in estimated total costs of Pyramid Dam and Lake.....+ $ 3 million o Increase in estimated total costs of Castaic Dam and Lake.....+ $ 9 million
Coastal Branch	75.7	78.5	2.8	Increase in allowances for future construction price escalation Prior estimate of costs for Phase II construction increased $3 million due to additional allowances for price escalation; partially offset by a reduction in general operating costs allocated to the Branch.
SUBTOTAL, CALIFORNIA AQUEDUCT	1,759.7	1,730.5	-29.2	
LOCAL PROJECTS	130.0	130.0	0.0	Fixed reservation for expenditures under Davis-Grunsky Act.
SAN JOAQUIN DRAINAGE FACILITIES	7.6	7.8	0.2	Additional costs for current joint studies with federal agencies.
UNASSIGNED	2.0	8.1	6.1	Additional allowances for initial costs of mobile equipment stationed at operations and maintenance centers (reimbursed thru annual rental charges).
TOTAL CAPITAL EXPENDITURES	2,778.3	2,795.7	17.4	

ANNUAL CAPITAL EXPENDITURES FOR FACILITIES BY PROJECT PURPOSE

(in thousands of dollars) Sheet 1 of 2

Calendar Year	Middle Fork Eel River Development, All Assumed Water Supply	San Joaquin Drainage Facilities, Agricultural Waste Water Disposal	Upper Feather Division: Conservation Facilities: Frenchman Dam and Lake: Multipurpose R&F&WE (b (50.0%)	Frenchman Dam and Lake: Multipurpose Water Supply (50.0%)	Frenchman Dam and Lake: Specific R&F&WE (b	Frenchman Dam and Lake: Total	Grizzly Valley Dam and Lake Davis: Multipurpose R&F&WE (b (94.9%)	Grizzly Valley Dam and Lake Davis: Multipurpose Water Supply (5.1%)	Grizzly Valley Dam and Lake Davis: Specific R&F&WE (b	Grizzly Valley Dam and Lake Davis: Total	Antelope Dam and Lake R&F&WE (b	All Other Units, Assumed R&F&WE (b,c	Transportation: Grizzly Valley Pipeline, Specific Water Supply	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1952	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	2	2	0	4	2	0	0	2	3	3	0	12
58	0	0	109	109	0	218	2	0	0	2	3	6	0	229
59	0	0	245	245	43	533	13	1	0	14	6	82	0	623
1960	0	51	496	496	0	992	14	1	0	15	35	96	0	1,138
61	0	416	408	408	0	816	2	0	0	2	197	6	0	1,021
62	0	447	220	220	0	440	115	6	0	121	775	11	0	1,347
63	0	438	66	66	0	132	176	9	0	185	2,645	8	0	2,970
64	166	519	5	5	0	10	515	28	27	570	512	31	8	1,131
1965	849	837	3	3	0	6	975	52	4	1,031	258	53	3	1,351
66	1,545	1,567	11	11	0	22	1,752	94	43	1,889	35	96	0	2,042
67	1,528	1,003	32	32	0	64	568	30	154	752	125	184	0	1,125
68	1,092	604	2	2	0	4	196	11	-16	191	40	45	52	332
69	1,599	433	-2	-2	0	-4	129	7	0	136	-39	218	208	519
1970	1,328	307	0	0	0	0	0	0	0	0	0	656	16	672
71	1,338	235	0	0	0	0	0	0	0	0	0	72	0	72
72	1,343	228	0	0	0	0	0	0	0	0	0	74	0	74
73	4,014	228	0	0	0	0	0	0	0	0	0	76	0	76
74	3,463	228	0	0	0	0	0	0	0	0	0	76	0	76
1975	2,920	233	0	0	0	0	0	0	0	0	0	274	0	274
76	11,186	0	0	0	0	0	0	0	0	0	0	390	0	390
77	14,623	0	0	0	0	0	0	0	0	0	0	2,581	0	2,581
78	14,768	0	0	0	0	0	0	0	0	0	0	4,041	0	4,041
79	14,915	0	0	0	0	0	0	0	0	0	0	582	0	582
1980	15,060	0	0	0	0	0	0	0	0	0	0	3,443	0	3,443
81	15,210	0	0	0	0	0	0	0	0	0	0	1,198	0	1,198
82	15,360	0	0	0	0	0	0	0	0	0	0	0	0	0
83	16,818	0	0	0	0	0	0	0	0	0	0	0	0	0
84	14,604	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	9,130	0	0	0	0	0	0	0	0	0	0	0	0	0
Total, 34 years, 1952-1985	162,859	7,774	1,597	1,597	43	3,237	4,459	239	212	4,910	4,583	14,302	287	27,319

Calendar Year	Oroville Division (Conservation Facilities): Specific R&F&WE (b	Specific: Oroville Power (d	Specific: Water Supply	Multiple-Purpose: Water Supply and Oroville Power	Multiple-Purpose: Flood Control	Multiple-Purpose: Total	Total	Delta Facilities (Conservation) (e: Specific Water Supply	Specific R&F&WE (b	Multiple-Purpose Water Supply	Multiple-Purpose R&F&WE (b	Total	Unspecified Purposes: Local Projects (Davis-Grunsky Program)(f	Unassigned Costs (g
	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
1952	0	22	0	118	31	149	171	0	0	0	0	0	0	23
53	0	50	0	204	53	257	307	0	0	0	0	0	0	71
54	0	39	0	207	53	260	299	0	0	0	0	0	0	61
1955	0	34	0	124	32	156	190	0	0	0	0	0	0	154
56	0	39	0	1,059	272	1,331	1,370	0	0	0	0	0	0	39
57	0	52	0	4,952	1,306	6,258	6,310	0	0	0	0	0	0	43
58	0	97	0	7,514	1,988	9,502	9,599	0	0	0	0	0	0	67
59	0	280	0	7,960	2,110	10,070	10,350	0	0	0	0	0	0	146
1960	11	448	0	10,252	2,698	12,950	13,409	7	0	46	22	75	0	72
61	11	922	1	13,270	3,411	16,681	17,615	31	0	315	154	500	66	50
62	51	1,072	4	15,143	3,713	18,856	19,983	130	0	466	228	824	552	63
63	127	1,790	6	36,957	9,134	46,091	48,014	108	0	852	418	1,378	2,947	286
64	195	5,757	8	40,002	7,671	47,673	53,633	79	0	972	477	1,528	3,885	379
1965	508	13,676	1	34,949	6,669	41,618	55,803	37	14	1,015	498	1,564	11,189	821
66	1,046	23,767	92	79,702	15,768	95,470	120,375	31	38	1,433	703	2,205	1,745	1,384
67	23	27,729	88	50,697	8,651	59,348	87,188	30	2	1,646	807	2,485	6,646	1,636
68	-13	16,986	4	15,860	2,541	18,401	35,378	27	0	1,481	727	2,235	15,592	1,662
69	0	5,962	0	6,430	1,331	7,761	13,723	0	0	1,043	512	1,555	5,609	226
1970	0	1,626	0	1,371	250	1,621	3,247	0	0	1,062	521	1,583	10,600	225
71	0	118	0	186	26	212	330	0	0	951	466	1,417	10,600	226
72	0	40	0	82	17	99	139	0	0	3,545	1,738	5,283	10,600	500
73	0	2	0	0	0	0	2	0	0	24,879	12,199	37,078	10,600	0
74	0	0	0	0	0	0	0	0	0	20,835	10,215	31,050	10,600	0
1975	0	0	0	0	0	0	0	0	0	20,387	9,996	30,383	10,600	0
76	0	0	0	0	0	0	0	0	0	18,538	9,090	27,628	10,600	0
77	0	0	0	0	0	0	-0	0	0	0	0	0	7,569	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total, 34 years, 1952-1985	1,959	100,508	204	327,039	67,725	394,764	497,435	480	54	99,466	48,771	148,771	130,000	8,134

a) Based upon allocation percentages shown on page 19 of Bulletin 153-68, "Allocations of Costs Among Purposes of the State Water Project".

b) Recreation and Fish and Wildlife Enhancement (R&F&WE) are considered as one purpose herein. Specific R&F&WE costs include those for recreation lands purchased concurrently with project lands, as authorized by Water Code Section 346.

c) Includes the costs of Dixie Refuge and Abbey Bridge Dams and Reservoirs.

d) Costs of Oroville power facilities.

e) Estimated state share of a joint state-federal Peripheral Canal.

f) Projects financed under Davis-Grunsky Program may be constructed for a number of purposes, as set forth in Water Code Section 12880.

g) Includes planning costs for features subsequently deleted from the Project and initial cost of mobile equipment for project operations and maintenance.

ANNUAL CAPITAL EXPENDITURES FOR FACILITIES BY PROJECT PURPOSE

(In thousands of dollars)

Calendar Year	California Aqueduct													North Bay Aqueduct, All Assumed Water Supply
	Conservation Facilities						Transportation Facilities							
	Specific		Multiple-Purpose				Specific		Multiple-Purpose					
	R&F&WE (b	Water Supply	R&F&WE (8.7%) (b	Water Supply (91.3%)	Total	Total	R&F&WE (b	Water Supply	R&F&WE (3.0%) (b	Water Supply (97.0%)	Total	Total	Total	
	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)
1952	0	0	0	5	5	5	0	0	3	101	104	104	109	0
53	0	0	1	12	13	13	0	0	10	315	325	325	338	0
54	0	0	1	16	17	17	0	0	13	402	415	415	432	0
1955	0	0	1	8	9	9	0	0	5	163	168	168	177	0
56	0	0	3	30	33	33	0	0	8	250	258	258	291	0
57	0	0	8	90	98	98	0	0	22	715	737	737	835	27
58	0	0	14	144	158	158	0	0	42	1,365	1,407	1,407	1,565	50
59	0	0	89	937	1,026	1,026	0	43	72	2,319	2,391	2,434	3,460	30
1960	2	0	86	902	988	990	1	124	102	3,286	3,388	3,513	4,503	27
61	4	10	89	933	1,022	1,036	9	114	158	5,110	5,268	5,391	6,427	16
62	19	38	195	2,043	2,238	2,295	6	291	188	6,071	6,259	6,556	8,851	5
63	2	54	1,460	15,323	16,783	16,839	51	432	892	28,859	29,751	30,234	47,073	15
64	0	43	1,533	16,092	17,625	17,668	-4	658	1,130	36,527	37,657	38,311	55,979	78
1965	174	24	1,940	20,361	22,301	22,499	417	968	1,892	61,170	63,062	64,447	86,946	222
66	-19	32	2,924	30,689	33,613	33,626	511	2,898	3,701	119,636	123,337	126,746	160,372	510
67	7	32	1,932	20,280	22,212	22,251	752	7,097	5,638	182,286	187,924	195,773	218,024	1,626
68	0	0	480	5,038	5,518	5,518	386	3,149	6,274	202,865	209,139	212,674	218,192	952
69	0	0	254	2,661	2,915	2,915	355	2,888	8,841	285,848	294,689	297,932	300,847	478
1970	0	0	79	829	908	908	0	1,693	7,550	244,123	251,673	253,366	254,274	276
71	0	0	68	713	781	781	0	3,543	3,388	109,559	112,947	116,490	117,271	164
72	0	0	7	71	78	78	0	68	1,535	49,632	51,167	51,235	51,313	137
73	0	0	16	171	187	187	0	65	1,163	37,593	38,756	38,821	39,008	300
74	0	0	76	793	869	869	0	1,120	429	13,874	14,303	15,423	16,292	380
1975	0	0	90	948	1,038	1,038	0	1,636	576	18,631	19,207	20,843	21,881	288
76	0	0	2	25	27	27	0	2,573	199	6,552	6,751	9,324	9,351	467
77	0	0	0	0	0	0	0	5,782	110	4,858	4,968	10,750	10,750	711
78	0	0	1	8	9	9	0	25,749	51	2,251	2,302	28,051	28,060	2,345
79	0	0	7	71	78	78	0	29,247	75	8,420	8,495	37,742	37,820	6,895
1980	0	0	25	267	292	292	0	828	110	6,472	6,582	7,410	7,702	238
81	0	0	76	802	878	878	0	1,085	69	2,220	2,289	3,374	4,252	30
82	0	0	74	773	847	847	0	74	67	2,152	2,219	2,293	3,140	0
83	0	0	2	23	25	25	0	1	25	808	833	834	859	248
84	0	0	0	0	0	0	0	52	263	8,515	8,778	8,830	8,830	0
1985	0	0	0	0	0	0	0	28	159	5,133	5,292	5,320	5,320	0
Total, 34 years, 1952-1985	189	233	11,533	121,058	132,591	133,013	2,484	92,206	44,760	1,458,081	1,502,841	1,597,531	1,730,544	16,515

Calendar Year	South Bay Aqueduct (Transportation Facilities)							Total by Purpose, State Water Project						
	Specific		Multiple-Purpose									Water Supply and Oroville Power		
	R&F&WE (b	Water Supply	R&F&WE (b (51.0%)	Water Supply (27.5%)	Flood Control (21.5%)	Total	Total	Unspecified (h	Agricultural Waste Water Disposal (i	Recreation and Fish and Wildlife Enhancement (j	Flood Control (k	Conservation Facilities (l	Transportation Facilities (m	Total
	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)
1952	0	1	0	0	0	0	1	23	0	3	31	145	102	304
53	0	2	1	0	0	1	3	71	0	12	53	266	317	719
54	0	7	1	0	1	2	9	61	0	15	54	262	409	801
1955	0	9	1	1	1	3	12	154	0	7	33	166	173	533
56	0	88	16	8	7	31	119	39	0	27	279	1,128	346	1,819
57	0	709	44	24	19	87	796	43	0	84	1,325	5,096	1,475	8,023
58	0	906	30	16	13	59	965	67	0	206	2,001	7,864	2,337	12,475
59	0	835	28	15	11	54	889	146	0	566	2,121	9,423	3,242	15,498
1960	0	1,674	95	51	38	184	1,858	72	51	960	2,736	12,152	5,162	21,133
61	0	3,911	122	65	50	237	4,148	116	416	1,160	3,461	15,890	9,216	30,259
62	0	3,019	59	32	25	116	3,135	615	447	1,867	3,738	19,122	9,418	35,207
63	0	5,462	291	157	123	571	6,033	3,233	438	6,136	9,257	55,165	34,925	109,154
64	188	10,455	334	180	140	654	11,297	4,264	519	4,943	7,811	63,152	47,906	128,595
1965	57	4,410	753	406	318	1,477	5,944	12,010	837	7,546	6,987	70,967	67,179	165,526
66	72	1,951	3,039	1,638	1,281	5,958	7,981	3,129	1,567	13,952	17,049	137,396	126,633	299,726
67	493	1,412	6,205	3,346	2,615	12,166	14,071	8,282	1,003	16,922	11,266	102,092	195,767	335,332
68	-71	3,085	1,963	1,058	827	3,848	6,862	17,254	604	10,013	3,368	40,501	211,161	282,901
69	0	977	54	29	23	106	1,083	5,835	433	10,322	1,354	17,700	290,428	326,072
1970	0	254	1	0	0	1	255	10,825	307	8,807	250	6,216	246,362	272,767
71	0	69	1	1	0	2	71	10,826	235	3,995	26	3,306	113,336	131,724
72	0	21	1	0	0	1	22	11,100	228	3,355	17	5,081	49,858	69,639
73	0	330	47	26	20	93	423	10,600	228	13,501	20	29,066	38,314	91,729
74	0	60	0	0	0	0	60	10,600	228	10,796	0	25,091	15,434	62,149
1975	0	267	0	0	0	0	267	10,600	233	10,936	0	24,255	20,822	66,846
76	0	88	0	0	0	0	88	10,600	0	9,681	0	29,749	9,680	59,710
77	0	0	0	0	0	0	0	7,569	0	2,691	0	11,623	11,351	36,234
78	0	0	0	0	0	0	0	0	0	4,093	0	14,776	30,345	49,214
79	0	0	0	0	0	0	0	0	0	664	0	14,986	44,562	60,212
1980	0	0	0	0	0	0	0	0	0	3,578	0	15,327	7,538	26,443
81	0	0	0	0	0	0	0	0	0	1,343	0	16,012	3,335	20,690
82	0	0	0	0	0	0	0	0	0	141	0	16,133	2,226	18,500
83	0	0	0	0	0	0	0	0	0	27	0	16,841	1,057	17,925
84	0	0	0	0	0	0	0	0	0	263	0	14,604	8,567	23,434
1985	0	0	0	0	0	0	0	0	0	159	0	9,130	5,161	14,450
Total, 34 years, 1952-1985	739	40,002	13,086	7,053	5,512	25,651	66,392	138,134	7,774	148,771	73,237	813,683	1,614,144	2,795,743 (p

h) Total of Columns 27 and 28.

i) Same as Column 2.

j) Total of Columns 3, 5, 7, 9, 11, 12, 15, 23, 25, 29, 31, 35, 37, 43, and 45.

k) Total of Columns 19 and 47.

l) Total of Columns 1, 4, 8, 16, 17, 18, 22, 24, 30, and 32.

m) Total of Columns 13, 36, 38, 42, 44, and 46.

n) Does not include $680,278,000 in principal and interest payments to the Corps of Engineers for the years 1986 thru 2035, for conservation storage in Dos Rios Reservoir under an assumed Water Supply Act of 1958 contract.

TABLE 12

COMPOSITION OF ANNUAL OPERATING COSTS

(in thousands of dollars)

Calendar Year	General Operations Costs (a	Salaries and Indirect Costs of Field Personnel (b		Equipment, Materials, and Supplies (c	Power and Energy (d		Deposits to Replacement Sinking Fund Account (e	Total Operating Costs	Less: Portion Included in Capital Expenditures (f	Remaining Operating Costs
		Operations	Maintenance		Consumed by Pumping Plants	Generated by Recovery Plants				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Subtotal, 1962-1968	Actual for 7 Years, 28,532	(g	10,682	(g	3,122	-88	190	42,438	31,964	10,474
1969	7,606	3,008	6,979	1,515	2,422	-103	285	21,712	10,297	11,415
1970	7,480	3,674	7,971	1,643	2,068	-71	427	23,192	7,276	15,916
1971	7,296	3,771	8,666	1,970	5,266	-292	593	27,270	8,359	18,911
1972	7,179	3,696	9,770	2,356	11,117	-1,632	721	33,207	3,989	29,218
1973	7,010	3,721	9,834	1,856	14,920	-3,510	752	34,583	4,492	30,091
1974	6,889	3,721	9,836	1,856	15,348	-3,954	758	34,454	2,903	31,551
1975	6,827	3,721	9,932	1,856	16,116	-5,015	760	34,197	650	33,547
7 Years, 1969-1975	50,287	25,312	62,988	13,052	67,257	-14,577	4,296	208,615	37,966	170,649
1976	6,729	3,721	9,800	1,909	17,992	-5,387	765	35,529	699	34,830
1977	6,655	4,138	10,013	1,909	19,246	-5,621	810	37,150	306	36,844
1978	6,655	4,138	10,008	1,909	21,337	-6,054	810	38,803	306	38,497
1979	6,672	4,138	10,029	1,909	22,845	-6,418	810	39,985	277	39,708
1980	6,664	4,167	10,108	1,934	25,593	-7,589	863	41,740	179	41,561
1981	6,664	4,167	10,109	1,934	26,396	-7,280	875	42,865	179	42,686
1982	6,664	4,167	10,132	1,934	27,981	-7,308	875	44,445	149	44,296
1983	6,664	4,167	10,136	1,934	30,810	-7,625	875	46,961	149	46,812
1984	6,664	4,167	10,146	1,934	29,914	-6,690	875	47,010	149	46,861
1985	6,664	4,167	10,140	1,934	32,578	-7,644	875	48,714	149	48,565
10 Years, 1976-1985	66,695	41,137	100,621	19,240	254,692	-67,616	8,433	423,202	2,542	420,660
10 Years, 1986-1995	66,640	43,330	103,501	19,340	390,766	-82,033	8,750	550,294	0	550,294
10 Years, 1996-2005	66,640	43,610	104,188	19,340	410,860	-82,200	8,750	571,188	0	571,188
10 Years, 2006-2015	66,640	43,610	104,180	19,340	410,860	-82,160	8,750	571,220	0	571,220
10 Years, 2016-2025	66,640	43,610	104,180	19,340	410,860	-82,160	8,750	571,220	0	571,220
10 Years, 2026-2035	66,640	43,610	104,180	19,340	410,860	-82,160	8,750	571,220	0	571,220
Subtotal, 1969-2035	Projected for 67 Years 450,182	284,219	683,838	128,992	2,356,155	-492,906	56,479	3,466,959	40,508	3,426,451
TOTAL ACTUAL AND PROJECTED, 1962-2035	478,714	284,219	694,520	128,992	2,359,277	-492,994	56,669	3,509,397	72,472	3,436,925

a) Costs incurred at Sacramento headquarters for such programs as water contract negotiation and administration, project cost accounting, power contract management, scheduling and dispatching, and operation and maintenance engineering. Also included are such miscellaneous costs as insurance required under revenue bond financing and administrative costs of Federal Power Commission licenses.

b) Costs of direct labor of Field Divisions, including departmental indirect charges for supervision, administration, and standard operating expenses.

c) Costs of maintenance materials, supplies, and mobile equipment rentals.

d) Does not include power and/or energy consumption or generation for the Oroville Division (such net generation supports capital funds rather than reduces operating costs) or for the federal share of the San Luis Division and the Delta Facilities.

e) Funds, earning 4.5% per annum, for financing the future costs of replacing major components expected to wear out during the project repayment period.

f) These costs are included in Column 5 of Table 9 and are financed by capital funds.

g) These costs are included in the $10,682,000 shown in Column 3.

The estimated power and energy costs and the power recovery values shown in Table 12 reflect (a) the provisions of all executed contracts and (b) assumed economies to be realized from extensive development of nuclear power. The estimated power and energy costs assume that the State will share about half the capacity of two 1,200-megawatt plants; the first to be completed in 1978 and the second, in 1984. The total savings in power costs effected by the use of generation through such cooperative participation could amount to several hundreds of millions of dollars during 1978 through 2035. The assumed annual savings amount to approximately $2.0 million in 1978 and increase to about $10.5 million by 1991.

While reasonable assumptions were applied in developing nuclear power cost estimates, it should be recognized that estimating nuclear power costs ten or more years in the future is a somewhat risky undertaking, with no large-plant operating experience yet accumulated and with many plants now under construction overrunning their cost estimates. Adding to the speculative nature of nuclear power estimates is the unknown trend of price levels that will prevail in the future. In view of present conditions, there seems no doubt that prices will continue to increase. No attempt was made to evaluate this trend, all estimates being made in terms of 1968 prices.

Allocation of Operating Costs Among Project Purposes

Allocation of actual and projected operating costs among project purposes and classification of such costs into "minimum and variable" components are summarized in Table 13. The water supply contracts define variable operating costs as those that vary with the quantities of water delivered—and minimum operating costs as those that do not so vary. The items of operating costs included in the minimum and variable components are described in Appendix B.

Table 13 also shows the specific operating costs of the Oroville power facilities. These costs are estimated to be $1,500,000 annually, including $560,000 annually for deposits to reserves for replacements, future increases in cost levels and other contingencies. These operating costs will be funded exclusively by revenues from Oroville power sales. (Estimates of operating costs for the Pyramid Power Complex are not included in Table 13.)

Estimated Net Operating Revenues

Net operating revenues represent total operating revenues remaining after deducting payments of operating costs. Estimated annual net operating revenues available for application to general obligation bond service are summarized in Table 14.

Project Revenues

Operating revenues are primarily derived from water sales. For the financial analysis, no revenues are assumed under future drainage contracts (since future costs of the San Joaquin Drainage Facilities are ignored herein), and power sales are reserved for coverage of revenue bond service. Operating revenues incidental to water sales include:

Repayments of loans under the Davis-Grunsky Program.

- Continuing appropriations from the State's General Fund in amounts equal to the operating costs allocable to recreation and fish and wildlife enhancement.
- Federal payments for a share of the annual operating costs of the joint-use San Luis Division of the California Aqueduct.

Water Revenues

Operating revenues from water sales will be derived from contractor payments of two separate water charges under the provisions of the water supply contracts:

- The Delta Water Charge, which, together with projected Oroville power revenues, will return to the State, with interest, the costs of project conservation facilities allocated to water supply and to Oroville power generation.
- The Transportation Charge, which will return to the State, with interest, the costs of project transportation facilities allocated to water supply.

Contracts have been executed insuring the return of over 99 percent of the total capital costs of project facilities allocable to water supply. The remaining 1 percent of such costs will be charged to a future contractor to be served from excess conveyance capacity constructed in the South Bay Aqueduct. When project water deliveries increase to the maximum, in about 1991, the percentages of such costs to be returned by principal water supply contractors is expected to be as follows:

ANNUAL OPERATING COSTS OF FACILITIES BY PROJECT PURPOSE(a

(in thousands of dollars)

Calendar Year (b	Upper Feather Division								Oroville Division				
	Conservation Facilities								Conservation Facilities				
	Frenchman Dam and Lake			Grizzly Valley Dam and Lake Davis			Antelope Dam & Lake and Abbey Bridge and Dixie Refuge Dams & Reservoirs, R&F&WE (Minimum)	Total	Specific Oroville Power	Multiple-Purpose (Minimum) (c			
	Multiple-Purpose (Minimum) (c			Multiple-Purpose (Minimum) (c						Water Supply and Oroville Power	Flood Control	Total	Total
	R&F&WE (50.0%)	Water Supply (50.0%)	Total	R&F&WE (91.2%)	Water Supply (8.8%)	Total							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1962	5	5	10	0	0	0	0	10	0	0	0	0	0
1963	14	0	14	0	0	0	0	14	0	0	0	0	0
1964	7	-6	1	0	0	0	0	1	0	0	0	0	0
1965	16	2	18	0	0	0	18	36	0	0	0	0	0
1966	31	18	49	0	0	0	16	65	0	0	0	0	0
1967	14	0	14	37	4	41	6	61	0	0	0	0	0
1968	12	-1	11	44	4	48	7	66	0	0	0	0	0
1969	16	15	31	26	3	29	31	91	0	0	0	0	0
1970	15	15	30	28	3	31	30	91	1,500	2,592	135	2,727	4,227
1971	15	15	30	27	3	30	30	90	1,500	2,644	136	2,780	4,280
1972	16	16	32	29	3	32	32	96	1,500	2,715	136	2,851	4,351
1973	16	16	32	29	3	32	32	96	1,500	2,775	135	2,910	4,410
1974	16	16	32	29	3	32	32	96	1,500	2,755	134	2,889	4,389
1975	16	16	32	29	3	32	32	96	1,500	2,762	134	2,896	4,396
1976	16	16	32	28	3	31	32	95	1,500	2,728	133	2,861	4,361
1977	16	16	32	29	3	32	32	96	1,500	2,714	133	2,847	4,347
1978	16	16	32	29	3	32	32	96	1,500	2,714	133	2,847	4,347
1979	15	16	31	29	3	32	61	124	1,500	2,717	133	2,850	4,350
1980	16	16	32	29	3	32	62	126	1,500	2,716	133	2,849	4,349
1981	16	16	32	29	3	32	62	126	1,500	2,716	133	2,849	4,349
1982	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1983	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1984	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1985	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1986	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1987	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1988	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1989	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1990	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1991	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1992	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1993	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1994	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1995	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1996	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1997	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1998	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
1999	16	16	32	29	3	32	92	156	1,500	2,716	133	2,849	4,349
2000 (d	16	16	32	28	2	30	92	154	1,500	2,716	133	2,849	4,349

a) Under the "Standard Provisions for Water Supply Contract", all project facilities are classified as either conservation facilities or transportation facilities, and all operating costs thereof as either:

- Minimum operation, maintenance, power, and replacement costs (those incurred irrespective of the amounts of project water delivered to water supply contractors).
- Variable operation, maintenance, power, and replacement costs (those that depend on and vary with the amounts delivered to water supply contractors).

In addition, the "Standard Provisions" require allocation of all facility costs between project purposes for which the costs are reimbursable (water supply and power generation), and project purposes for which the costs are nonreimbursable [recreation and fish and wildlife enhancement (R&F&WE) and purposes for which the costs are to be repaid by the United States, including flood control]. All of these cost allocations for each facility of the State Water Project are summarized in this table.

b) Costs thru 1968 are actual costs; all others are projected.

c) Based on percentages shown on page 19 of Bulletin 153-68, "Allocations of Costs Among Purposes of the State Water Project", applied to currently estimated minimum operating costs.

d) And each year thereafter, for the remainder of the project repayment period.

ANNUAL OPERATING COSTS OF FACILITIES BY PROJECT PURPOSE[a]

(in thousands of dollars) Sheet 2 of 4

Calendar Year (b	Unspecified Purposes (Minimum) (e	Delta Facilities				North Bay Aqueduct			South Bay Aqueduct					
		Conservation Facilities				Transportation Facilities			Transportation Facilities					
		Multiple-Purpose (Minimum) (c		Specific Water Supply (Minimum) (f		Specific Water Supply			Specific Water Supply (g		Multiple-Purpose (Minimum) (c			
		R&F&WE (82.1%)	Water Supply (17.9%)		Total	Minimum	Variable	Total	Minimum	Variable	R&F&WE (39.5%)	Water Supply (34.9%)	Flood Control (25.6%)	Total
	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
1962	0	0	0	0	0	0	0	0	80	38	0	0	0	118
1963	0	0	0	0	0	0	0	0	146	59	0	0	0	205
1964	0	0	0	0	0	0	0	0	157	74	0	0	0	231
1965	18	0	0	0	0	0	0	0	354	144	0	0	0	498
1966	16	0	0	0	0	0	0	0	382	199	0	0	0	581
1967	6	0	0	0	0	0	0	0	580	229	0	0	0	809
1968	75	0	0	0	0	0	10	10	443	418	0	0	0	861
1969	31	0	0	0	0	95	18	113	460	393	0	0	0	853
1970	67	0	0	0	0	94	25	119	573	586	42	37	27	1,265
1971	66	0	0	0	0	93	28	121	570	577	41	36	27	1,251
1972	67	0	0	0	0	92	23	115	566	496	40	35	26	1,163
1973	68	0	0	0	0	91	27	118	563	552	40	36	26	1,217
1974	68	0	0	0	0	90	30	120	560	558	40	36	26	1,220
1975	67	0	0	0	0	92	34	126	552	582	40	35	26	1,235
1976	248	0	0	91	91	91	36	127	549	577	39	35	25	1,225
1977	246	640	140	95	875	90	38	128	546	566	40	35	25	1,212
1978	246	640	140	99	879	90	39	129	547	572	39	35	25	1,218
1979	275	640	140	113	893	91	40	131	545	541	39	35	25	1,185
1980	276	640	139	137	916	289	56	345	538	521	40	35	26	1,160
1981	276	640	139	157	936	289	64	353	538	506	40	35	25	1,144
1982	306	640	139	159	938	288	66	354	538	501	40	35	25	1,139
1983	306	640	139	158	937	288	67	355	538	487	39	35	25	1,142
1984	306	640	139	156	935	288	69	357	538	470	39	35	25	1,107
1985	306	640	139	162	941	288	72	360	538	471	39	35	25	1,108
1986	305	640	139	186	965	287	80	367	538	477	38	34	25	1,112
1987	305	640	139	161	940	287	81	368	537	474	38	34	25	1,108
1988	305	640	139	164	943	287	83	370	537	478	38	34	25	1,112
1989	305	640	139	158	937	287	82	369	537	473	38	34	25	1,107
1990	305	640	139	180	959	287	85	372	537	480	38	34	25	1,114
1991	305	640	139	191	970	287	85	372	537	486	38	34	25	1,120
1992	305	640	139	191	970	287	85	372	537	487	38	34	24	1,120
1993	305	640	139	191	970	287	85	372	537	487	38	34	24	1,120
1994	305	640	139	191	970	287	85	372	537	487	38	34	24	1,120
1995	305	640	139	191	970	287	85	372	537	487	38	34	24	1,120
1996	305	640	139	191	970	287	85	372	537	488	38	34	24	1,121
1997	305	640	139	191	970	287	85	372	537	488	38	34	24	1,121
1998	305	640	139	191	970	287	85	372	537	488	38	34	24	1,121
1999	305	640	139	191	970	287	85	372	537	488	38	34	24	1,121
2000 (d	305	640	139	191	970	287	85	372	537	488	38	34	24	1,121

e) Costs for miscellaneous purposes including project general operating costs allocated to San Joaquin Drainage Facilities and City of Los Angeles share of maintenance of Angeles Tunnel.

f) Includes primarily costs of electrical power and energy required for pumping project water at head of Peripheral Canal. (Minor amount allocable to R&F&WE herein ignored.)

g) Operating costs of entire South Bay Aqueduct, except those of Del Valle Dam and Lake Del Valle.

TABLE 13

ANNUAL OPERATING COSTS OF FACILITIES BY PROJECT PURPOSE[a]

(in thousands of dollars)

Calendar Year (b	Middle Fork Eel River Development, Specific Water Supply (Minimum) (h	California Aqueduct												
		Conservation Facilities				Transportation Facilities							Portion Allocated to the United States (l	Total
		Multiple-Purpose (Minimum) (c		Specific Water Supply (Minimum) (i	Total	Specific Water Supply (j		Multiple-Purpose				Total		
								Minimum (c		Variable (k				
		R&F&WE (5.6%)	Water Supply (94.4%)			Minimum	Variable	R&F&WE (7.1%)	Water Supply (92.9%)	R&F&WE	Water Supply			
	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	21	21	0	21
1968	0	78	1,335	1,041	2,454	0	136	162	2,164	0	693	3,155	1,163	6,772
1969	0	103	1,745	1,325	3,173	459	60	316	4,118	0	534	5,487	1,667	10,327
1970	0	104	1,752	292	2,148	455	112	355	4,641	0	738	6,301	1,698	10,147
1971	0	103	1,742	228	2,073	308	90	490	6,390	21	2,049	9,348	1,682	13,103
1972	0	102	1,729	-244	1,587	306	75	956	12,480	242	6,110	20,169	1,670	23,426
1973	0	102	1,714	-638	1,178	305	112	974	12,753	298	6,908	21,350	1,654	24,182
1974	0	102	1,702	-315	1,489	302	133	980	12,794	351	7,964	22,524	1,645	25,658
1975	0	102	1,705	-579	1,228	303	153	978	12,830	349	10,139	24,752	1,647	27,627
1976	0	100	1,697	178	1,975	300	155	975	12,800	396	10,444	25,070	1,638	28,683
1977	0	101	1,697	-74	1,724	299	165	970	12,672	352	12,124	26,582	1,634	29,940
1978	0	101	1,694	43	1,838	299	175	968	12,644	335	13,690	28,111	1,633	31,582
1979	0	101	1,695	-362	1,434	300	181	968	12,650	332	15,252	29,683	1,633	32,750
1980	0	99	1,656	-437	1,318	564	228	961	12,557	331	16,790	31,431	1,640	34,389
1981	0	98	1,651	-828	921	553	238	961	12,531	324	18,340	32,947	1,634	35,502
1982	0	99	1,658	-847	910	540	268	959	12,538	320	19,879	34,504	1,640	37,054
1983	0	99	1,654	-1,079	674	532	270	960	12,544	326	22,643	37,275	1,637	39,586
1984	0	99	1,658	-382	1,375	531	316	954	12,493	314	22,028	36,636	1,640	39,651
1985	0	99	1,658	-1,435	322	527	365	953	12,470	300	24,771	39,386	1,637	41,345
1986	502	98	1,645	391	2,134	524	430	947	12,399	290	23,581	38,171	1,624	41,929
1987	502	98	1,642	-149	1,591	524	482	948	12,395	280	25,587	40,216	1,621	43,428
1988	502	98	1,643	-443	1,298	522	537	950	12,444	295	28,055	42,803	1,623	45,724
1989	502	98	1,647	-571	1,174	522	634	951	12,431	284	29,610	44,432	1,629	47,235
1990	502	98	1,647	-779	966	520	686	952	12,428	288	30,809	45,683	1,628	48,277
1991	502	98	1,647	-465	1,280	520	688	953	12,432	291	31,337	46,221	1,628	49,129
1992	502	98	1,647	-465	1,280	520	688	953	12,432	290	31,400	46,283	1,628	49,191
1993	502	98	1,647	-465	1,280	520	688	953	12,432	290	31,400	46,283	1,628	49,191
1994	619	98	1,647	-465	1,280	520	688	953	12,432	290	31,400	46,283	1,628	49,191
1995	619	97	1,648	-465	1,280	520	688	953	12,432	290	31,401	46,284	1,628	49,192
1996	619	97	1,648	-465	1,280	520	688	953	12,432	290	31,401	46,284	1,628	49,192
1997	619	97	1,648	-465	1,280	520	688	953	12,432	290	31,441	46,324	1,628	49,232
1998	619	97	1,648	-465	1,280	520	688	953	12,432	290	31,441	46,324	1,628	49,232
1999	619	97	1,648	-465	1,280	520	688	953	12,432	290	31,441	46,324	1,628	49,232
2000 (d	619	97	1,648	-465	1,280	520	688	953	12,432	290	31,441	46,324	1,628	49,232

h) Estimated State payments to the United States for the operating costs of Dos Rios Dam and Reservoir allocated to conservation, and State's costs for the Dos Rios-Grindstone Tunnel and Stony Creek Conveyance Channel.

i) Includes primarily (1) net costs of electrical power and energy required for pumping project water thru San Luis Pumping-Generating Plant and (2) share of power and energy required for Delta Pumping Plant. (Minor share allocated to R&F&WE herein ignored.)

j) Operating costs of Coastal Branch.

k) Percentages shown in Bulletin 153-68 for operating costs apply only to minimum costs. Variable operating costs of features jointly used among project purposes are allocated annually in proportion to annual deliveries for each purpose.

l) Includes 45% of the joint operating costs of the San Luis Division, exclusive of power and energy costs. (Federal power and energy costs are excluded herein.)

TABLE 13

ANNUAL OPERATING COSTS OF FACILITIES BY PROJECT PURPOSE[a]

(in thousands of dollars)

Sheet 4 of 4

Calendar Year (b	State Water Project Totals											
	Unspecified Purposes (Minimum) (e	Recreation and Fish and Wildlife Enhancement			Purposes for Which Costs Are Paid by the United States			Water Supply and Oroville Power				Total, All Purposes
								Conservation Facilities	Transportation Facilities			
		Minimum (m	Variable (n	Total	Flood Control (o	Other (San Luis)(p	Total	Minimum (q	Minimum (r	Variable (s	Total	
	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)
1962	0	5	0	5	0	0	0	5	80	38	118	123	128
1963	0	14	0	14	0	0	0	0	146	59	205	205	219
1964	0	7	0	7	0	0	0	-6	157	74	231	225	232
1965	18	34	0	34	0	0	0	2	354	144	498	500	552
1966	16	47	0	47	0	0	0	18	382	199	581	599	662
1967	6	57	0	57	0	0	0	4	580	250	830	834	897
1968	75	303	0	303	0	1,163	1,163	2,379	2,607	1,257	3,864	6,243	7,784
1969	31	492	0	492	0	1,667	1,667	3,088	5,132	1,005	6,137	9,225	11,415
1970	67	574	0	574	162	1,698	1,860	6,154	5,800	1,461	7,261	13,415	15,916
1971	66	706	21	727	163	1,682	1,845	6,132	7,397	2,744	10,141	16,273	18,911
1972	67	1,175	242	1,417	162	1,670	1,832	5,719	13,479	6,704	20,183	25,902	29,218
1973	68	1,193	298	1,491	161	1,654	1,815	5,370	13,748	7,599	21,347	26,717	30,091
1974	68	1,199	351	1,550	160	1,645	1,805	5,661	13,782	8,685	22,467	28,128	31,551
1975	67	1,197	349	1,546	160	1,647	1,807	5,407	13,812	10,908	24,720	30,127	33,547
1976	248	1,190	396	1,586	158	1,638	1,796	6,213	13,775	11,212	24,987	31,200	34,830
1977	246	1,828	352	2,180	158	1,634	1,792	6,091	13,642	12,893	26,535	32,626	36,844
1978	246	1,825	335	2,160	158	1,633	1,791	6,209	13,615	14,476	28,091	34,300	38,497
1979	275	1,853	332	2,185	158	1,633	1,791	5,822	13,621	16,014	29,635	35,457	39,708
1980	276	1,847	331	2,178	159	1,640	1,799	5,730	13,983	17,595	31,578	37,308	41,561
1981	276	1,846	324	2,170	158	1,634	1,792	5,354	13,946	19,148	33,094	38,448	42,686
1982	306	1,875	320	2,195	158	1,640	1,798	5,344	13,939	20,714	34,653	39,997	44,296
1983	306	1,875	326	2,201	158	1,637	1,795	5,107	13,937	23,466	37,403	42,510	46,812
1984	306	1,869	314	2,183	158	1,640	1,798	5,806	13,885	22,883	36,768	42,574	46,861
1985	306	1,868	300	2,168	158	1,637	1,795	4,759	13,858	25,679	39,537	44,296	48,565
1986	305	1,860	290	2,150	158	1,624	1,782	7,098	13,782	24,568	38,350	45,448	49,685
1987	305	1,861	280	2,141	158	1,621	1,779	6,530	13,777	26,624	40,401	46,931	51,156
1988	305	1,863	295	2,158	158	1,623	1,781	6,240	13,824	29,153	42,977	49,217	53,461
1989	305	1,864	284	2,148	158	1,629	1,787	6,110	13,811	30,799	44,610	50,720	54,960
1990	305	1,865	288	2,153	158	1,628	1,786	5,924	13,806	32,060	45,866	51,790	56,034
1991	305	1,866	291	2,157	158	1,628	1,786	6,249	13,810	32,596	46,406	52,655	56,903
1992	305	1,866	290	2,156	157	1,628	1,785	6,249	13,810	32,660	46,470	52,719	56,965
1993	305	1,866	290	2,156	157	1,628	1,785	6,249	13,810	32,660	46,470	52,719	56,965
1994	305	1,866	290	2,156	157	1,628	1,785	6,366	13,810	32,660	46,470	52,836	57,082
1995	305	1,865	290	2,155	157	1,628	1,785	6,367	13,810	32,661	46,471	52,838	57,083
1996	305	1,865	290	2,155	157	1,628	1,785	6,367	13,810	32,662	46,472	52,839	57,084
1997	305	1,865	290	2,155	157	1,628	1,785	6,367	13,810	32,702	46,512	52,879	57,124
1998	305	1,865	290	2,155	157	1,628	1,785	6,367	13,810	32,702	46,512	52,879	57,124
1999	305	1,865	290	2,155	157	1,628	1,785	6,367	13,810	32,702	46,512	52,879	57,124
2000 (d	305	1,864	290	2,154	157	1,628	1,785	6,366	13,810	32,702	46,512	52,878	57,122

m) Total of Columns 1, 4, 7, 15, 24, 29, and 35.

n) Equal to Column 37.

o) Total of Columns 11 and 26.

p) Equal to Column 40.

q) Total of Columns 2, 5, 9, 10, 16, 17, 28, 30, and 31.

r) Total of Columns 19, 22, 25, 33, and 36.

s) Total of Columns 20, 23, 34, and 38.

TABLE 14

NET OPERATING REVENUES AVAILABLE FOR COVERAGE OF GENERAL OBLIGATION BOND SERVICE

(in thousands of dollars)

Calendar Year	Operating Revenues, Excluding Oroville Power Revenues (a									Less Total Operating Costs (h	Plus Operating Costs Funded by Oroville Power (i	Available Net Operating Revenues
	Water Supply Revenues (b						Operating Costs Allocated to:					
	Delta Water Charges (c		Transportation Charges (d			Davis-Grunsky Loan Repayments (e	Recreation and Fish & Wildlife Enhancement (f	United States (San Luis) (g	Total			
	Capital Costs	Operating Costs	Capital Costs	Operating Costs	Total							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Subtotal, 1962-1968	Actual for 7 Years, 1,288	0	56,979	7,471	65,738	609	467	1,163	2,239	10,474	0	66,546(j
1969	1,478	0	35,769	5,540	42,787	71	492	1,667	2,230	11,415	0	47,642(j
1970	2,420	534	52,209	6,321	61,484	157	574	1,860	2,591	15,916	1,125	49,284
1971	3,993	741	61,320	10,037	76,091	211	727	1,845	2,783	18,911	1,500	61,463
1972	5,688	1,363	48,325	20,084	75,460	275	1,417	1,832	3,524	29,218	1,500	51,266
1973	6,713	1,634	54,614	21,247	84,208	330	1,491	1,815	3,636	30,091	1,500	59,253
1974	7,740	1,902	63,353	22,368	95,363	384	1,550	1,805	3,739	31,551	1,500	69,051
1975	10,060	2,175	64,666	24,624	101,525	436	1,546	1,807	3,789	33,547	1,500	73,267
7 Years, 1969-1975	38,092	8,349	380,256	110,221	536,918	1,864	7,797	12,631	22,292	170,649	8,625	411,226(j
1976	12,573	2,512	65,932	24,892	105,909	492	1,586	1,796	3,874	34,830	1,500	76,453
1977	13,993	2,813	66,839	26,441	110,086	559	2,180	1,792	4,531	36,844	1,500	79,273
1978	15,404	3,114	68,246	27,996	114,760	756	2,160	1,791	4,707	38,497	1,500	82,470
1979	16,937	3,411	70,422	29,540	120,310	775	2,185	1,791	4,751	39,708	1,500	86,853
1980	18,548	3,763	72,063	31,481	125,855	898	2,178	1,799	4,875	41,561	1,500	90,669
1981	20,091	4,093	72,731	32,997	129,912	930	2,170	1,792	4,892	42,686	1,500	93,618
1982	21,642	4,417	73,268	34,557	133,884	961	2,195	1,798	4,954	44,296	1,500	96,042
1983	23,210	4,750	73,778	37,307	139,045	991	2,201	1,795	4,987	46,812	1,500	98,720
1984	24,934	5,080	74,354	36,672	141,040	1,022	2,183	1,798	5,003	46,861	1,500	100,682
1985	30,571	5,468	74,983	39,441	150,463	1,052	2,168	1,795	5,015	48,565	1,500	108,413
10 Years, 1976-1985	197,903	39,421	712,616	321,324	1,271,264	8,436	21,206	17,947	47,589	420,660	15,000	913,193
10 Years, 1986-1995	434,212	71,008	764,566	443,538	1,713,324	10,612	21,530	17,841	49,983	550,294	15,000	1,228,013
10 Years, 1996-2005	498,103	76,093	767,290	464,120	1,805,606	10,134	21,544	17,850	49,528	571,188	15,000	1,298,946
10 Years, 2006-2015	498,194	76,108	755,313	464,160	1,793,775	8,706	21,540	17,850	48,096	571,220	15,000	1,285,651
10 Years, 2016-2025	498,250	76,120	340,404	464,160	1,378,934	5,937	21,540	17,850	45,327	571,220	15,000	868,041
10 Years, 2026-2035	473,337	76,120	106,194	464,160	1,119,811	374	21,540	17,850	39,764	571,220	15,000	603,355
Subtotal, 1969-2035	Projected for 67 Years, 2,638,091	423,219	3,826,639	2,731,683	9,619,632	46,063	136,697	119,819	302,579	3,426,451	98,625	6,608,425(j
TOTAL, ACTUAL AND PROJECTED, 1962-2035	2,639,379	423,219	3,883,618	2,739,154	9,685,370	46,672	137,164	120,982	304,818	3,436,925	98,625	6,674,971(j

a) Oroville power revenues are pledged to the payment of certain operating costs of the Oroville Division and to the service on revenue bonds.

b) These revenues are based on an assumed project interest rate of 4.357%. Repayments of capital costs are shown on an accrual basis to be consistent with the presentation of general obligation bond service in Table 18.

c) These charges, together with Oroville power revenues, repay the reimbursable capital costs (Table 11, Column 54) and operating costs (Table 13, Column 49) of project conservation facilities allocable to water supply and Oroville power, respectively.

d) These charges repay the reimbursable capital costs (Table 11, Column 55) and reimbursable operating costs (Table 13, Column 53) of project transportation facilities allocable to water supply and Oroville power, respectively.

e) Based on the assumption that 20% of all future expenditures under the program will be for loans, to be repaid in the last 40 years of a 50-year loan repayment period with interest at 2½%.

f) These costs (from Table 13, Column 45) will be financed by appropriations from the General Fund under the Davis-Dolwig Act.

g) From Table 13, Column 47. (Operating costs allocable to flood control are repaid on a capitalized basis by the United States, and these advances, together with payments for capital costs allocable to flood control, are used by the Project as "Miscellaneous Receipts".)

h) From Table 13, Column 54.

i) From Table 13, Column 9.

j) Includes income, thru 1969, in addition to those amounts shown in Columns 5 and 9, of $1,554,000 realized from premiums and accrued interest associated with the sale of general obligation bonds and $21,529,000 from interest earnings on short term investments and other miscellaneous income sources.

Water Supply Contractor	Project Conservation Facilities	Project Transportation Facilities
	(in percent)	
The Metropolitan Water District of Southern California.	48	64
Kern County Water Agency.....	27	11
Antelope Valley--East Kern Water Agency...	3	4
San Bernardino Valley Municipal Water District.....	2	4
Other 27 water supply contractors.....	20	16
Future contractor (South Bay Area)....	0(a	1
TOTAL.....	100	100

a) In addition, the future contractor would pay a share of the conservation costs of an enlarged project yield.

Table 14 summarizes the total annual payments under the Delta Water Charge and the Transportation Charge by all water supply contractors. A detailed development of water charges for each contractor is presented in Appendix B, which supports the Department's determination of 1970 water charges. There are significant differences between the bases for the financial analysis and the determination of water charges, as follows:

- The capital costs shown in Appendix B are based on state salaries and construction prices prevailing on about December 31, 1968; the capital costs for the financial analyses include allowances for future price escalation. (The Department determines water charges on estimates reflecting then-prevailing price levels. To do otherwise would be to charge inflated prices—under certain of the rate calculations—before the contractor payment capacities have been allowed to inflate.)
- The calculations basic to Appendix B use the current project interest rate (4.021 percent through the sale of Series M general obligation bonds) rather than the projected long-term rate of 4.357 percent which is basic to the financial analysis. (As previously noted, the financial analysis is based on the assumption that all remaining general obligation bonds will be sold at a net interest cost of 5.0 percent.)(108)
- The calculations summarized in Appendix B develop what past payments should have been under the annual redetermination and adjustment process specified in the water supply contracts; the financial analysis shows actual charges paid to date.
- The calculations summarized in Appendix B develop what future payments should be under the Transportation Charge prior to any adjustment for net credits from advances to be made by water supply contractors for excess capacity; the financial analysis reflects the application of such net credits.

Both the estimated charges shown in Appendix B and operating revenues reflected in the financial analysis are based on the assumption that the project repayment period would extend through 2035—50 years after the last year of construction. This assumption recognizes the difficulty of accurately predicting the last year of repayment of general obligation bonds authorized under the Burns-Porter Act. (As specified in the water contracts, the project repayment period shall extend until all such bonds have been repaid.) If future financial analyses indicate that the last bond repayment will occur before the fiftieth year after the end of construction, the amortization period for charges on reimbursable capital costs to be incurred during the latter portion of the construction period will be adjusted accordingly.

Estimated Funds Available for Financing Capital Costs

Summarized on the next page are:

- The funds which had been made available to the Project as of December 31, 1968 for financing capital costs and for application to general obligation bond service.
- The additional funds which are assumed will be made available to the Project during 1969 through 1985, estimated to be the last year of construction.

(108) See Appendix A for a summary of interest rates on bond sales through December 31, 1968.

Source of Funds	Actual Through 1968	Projected 1969-1985	Total
	(millions of dollars)		
GENERAL OBLIGATION BONDS (AUTHORIZED BY BURNS-PORTER ACT):			
Reserved for "Additional Facilities"	5	169	174
Reserved for Davis-Grunsky Program	43	87	130
Available for "State Water Facilities"	1,102	344	1,446
Subtotal	1,150	600	1,750
CALIFORNIA WATER FUND:			
Appropriations through 6/28/68	174	0	174
Appropriations 7/1/72 through 1985	0	350	350
Repayments from operating revenues	0	40	40
Subtotal	174	390	564
REVENUE BONDS:			
Oroville Division	122	88	210
Pyramid Power Complex	0	(a	(a
Subtotal	122	88	210
MISCELLANEOUS RECEIPTS:			
Appropriations made prior to Burns-Porter Act	100	0	100
Transfer from California Water Fund (SB 261), 6/28/68—6/30/72	22	61	83
Continuing reimbursements for costs of recreation and fish and wildlife enhancement	16	85	101
Federal flood control reimbursements	59	15	74
Advance payments by water contractors for turnouts and excess capacity	27	48	75
Payments by City of Los Angeles (Castaic)	0	41	41
Estimated interest earnings	13	29	42
Subtotal	237	279	516
ADDITIONAL FUNDS (ASSUMED SUPPLEMENTAL GENERAL OBLIGATION BOND AUTHORIZATION)	0	82	82
TOTAL AVAILABLE FUNDS	1,683	1,439	3,122

a) Assumed equal to costs of Pyramid Power Complex.

Financial Analysis

The current financial analysis of the State Water Project is shown in Table 15. The table shows the actual and projected annual application of funds for financing all estimated capital expenditures of the Project.

The projected funding of capital expenditures during the project construction period is summarized below and is shown graphically on Figure 6. Also shown below are those Miscellaneous Receipts which must be applied to bond service and the amounts of available funds which cannot be applied to capital expenditures as assumed in this analysis.

Application of Funds	Actual Through 1968	Projected 1969-1985	Total
	(millions of dollars)		
APPLIED TO CAPITAL EXPENDITURES:			
General Obligation Bonds	1,053	599	1,652
California Water Fund	174	320	494
Revenue Bonds	89	121	210
Miscellaneous Receipts	132	226	358
Additional Funds (Assumed)	0	82	82
Subtotal, CAPITAL EXPENDITURES	1,448	1,348	2,796
APPLIED TO GENERAL OBLIGATION BOND SERVICE (MISCELLANEOUS RECEIPTS)	33	80	113
PLUS (MINUS) CARRYOVER OF FUNDS	202	(202)	-
AVAILABLE FOR ADDITIONAL CAPITAL EXPENDITURES:			
General Obligation Bonds (reserved for "Additional Facilities")	-	98	98
California Water Fund	-	70	70
Miscellaneous Receipts	-	45	45
Subtotal, UNUSED FUNDS	-	213	213
TOTAL AVAILABLE FUNDS	1,683	1,439	3,122

The analysis indicates that, on the basis of the assumptions which were previously described, funds available during 1969 through 1972 will be sufficient to finance the present construction program through 1972 and part of 1973—permitting first delivery of project water across the Tehachapis to Castaic Lake in 1971 and to the Perris area late in 1972. Additional financing will be required to provide $82 million during 1973 through 1979—to complete the project facilities as assumed in this analysis.

However, should major changes from present assumptions occur, such as construction of the Peripheral Canal entirely by the State, additional financing might well be required prior to 1973. Similarly, more rapid escalation of construction costs would further reduce the construction capability of available funds.

TABLE 15

FINANCIAL ANALYSIS FOR THE STATE WATER PROJECT, DECEMBER 31, 1968

(in thousands of dollars)

Calendar Year	Total Capital Expenditures (a	Financing of Capital Expenditures: General Obligation Bonds (b: Burns-Porter Authorization: From Portion Reserved for: Davis-Grunsky Program (c	Add'l. Facil. (Offset Bonds) (d	From Remaining Portion	Total	Assumed Supplemental Authorization	California Water Fund	Oroville Division Revenue Bond Proceeds (e	Miscellaneous Receipts (f	General Obligation Bond Service (g	Available Net Operating Revenues (h	General Obligation Bond Service in Excess of Net Operating Revenues (i	Disposition of Net Operating Revenues in Excess of General Obligation Bond Service: Paid to California Water Fund (j	Available for Construction (k
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Prior Appropriations (l	100,304								100,304					
9 Years, 1960-1968	1,347,701	42,622	5,180	1,102,198	1,150,000	0	173,313	121,800	31,413	99,437	66,546	32,891	0	0
1969	326,072	5,609	1,599	100,539	107,747	0	0	88,500	0	60,263	47,642	12,621	0	0
1970	272,767	10,600	1,328	242,950	254,878	0	0	0	17,889	61,343	49,284	12,059	0	0
1971	131,724	10,600	1,338	0	11,938	0	0	0	119,786	65,990	61,463	4,527	0	0
1972	69,639	10,600	1,343	0	11,943	0	25,000	0	32,696	66,987	51,266	15,721	0	0
1973	91,729	10,600	4,014	0	14,614	10,548	25,000	0	41,567	69,404	59,253	10,151	0	0
1974	62,149	10,600	3,463	0	14,063	19,618	25,000	0	3,468	72,973	69,051	3,922	0	0
1975	66,846	10,600	2,920	0	13,520	25,854	25,000	0	2,472	76,328	73,267	3,061	0	0
7 Years, 1969-1975	1,020,926	69,209	16,005	343,489	428,703	56,020	100,000	88,500	217,878	473,288	411,226	62,062	0	0
1976	59,710	10,600	11,186	0	21,786	11,636	25,000	0	1,288	80,678	76,453	4,225	0	0
1977	36,234	7,569	14,623	0	22,192	0	14,042	0	0	84,173	79,273	4,900	0	0
1978	49,214	0	14,768	0	14,768	0	34,446	0	0	87,400	82,470	4,930	0	0
1979	60,212	0	14,915	0	14,915	14,130	26,512	0	4,655	90,676	86,853	3,823	0	0
1980	26,443	0	0	0	0	0	25,000	0	1,443	91,090	90,669	421	0	0
1981	20,690	0	0	0	0	0	20,690	0	0	90,987	93,618	0	2,631	0
1982	18,500	0	0	0	0	0	18,500	0	0	91,114	96,042	0	4,928	0
1983	17,925	0	0	0	0	0	17,925	0	0	91,468	98,720	0	7,252	0
1984	23,434	0	0	0	0	0	23,434	0	0	91,818	100,682	0	8,864	0
1985	14,450	0	0	0	0	0	14,450	0	0	91,833	108,413	0	16,580	0
10 Years, 1976-1985	326,812	18,169	55,492	0	73,661	25,766	219,999	88,500	7,386	891,237	913,193	18,299	40,255	0
Subtotal, Projected for 17 Years, 1969-1985	1,347,738	87,378	71,497	343,489	502,364	81,786	319,999	210,300	225,264	1,364,525	1,324,419	80,361	40,255	0
Total, actual and projected for project construction period, 1952-1985	2,795,743	130,000	76,677	1,445,687	1,652,364	81,786	494,312	0	356,981	1,463,962	1,390,965	113,252	40,255	0
10 Years, 1986-1995	99,838	0	0	0	0	0	99,838	0	0	916,001	1,228,013	0	312,012	0
10 Years, 1996-2005	145,110	0	0	0	0	0	145,110	0	0	905,835	1,298,946	0	386,993	6,118
10 Years, 2006-2015	145,110	0	0	0	0	0	145,110	0	0	863,036	1,285,651	0	145,110	277,505
10 Years, 2016-2025	145,110	0	0	0	0	0	145,110	0	0	242,935	868,041	0	145,110	479,996
10 Years 2026-2035	145,110	0	0	0	0	0	145,110	0	0	8,029	603,355	0	145,110	450,216
Total, projected subsequent to project construction period, 1986-2035	680,278	0	0	0	0	0	680,278	0	0	2,935,836	5,284,006	0	1,134,335	1,213,835

a) From Table 8, Column 11.

b) Bonds issued thru 1968 produce a temporary excess of unexpended bond proceeds which will be used by the end of 1969.

c) Under the Burns-Porter Act, $130 million in bonds is reserved for Davis-Grunsky Loans and Grants.

d) See Table 17, Column 10.

e) From revenue bonds supported by sale of Oroville power. This analysis also assumes the issuance of revenue bonds supported by sale of Pyramid power; however, neither the costs of the Pyramid Power Complex nor the funds to be derived from such bonds are included in this analysis.

f) See Table 16, Column 9.

g) See Table 18, Column 7.

h) From Table 14, Column 12.

i) These amounts are funded by Miscellaneous Receipts.

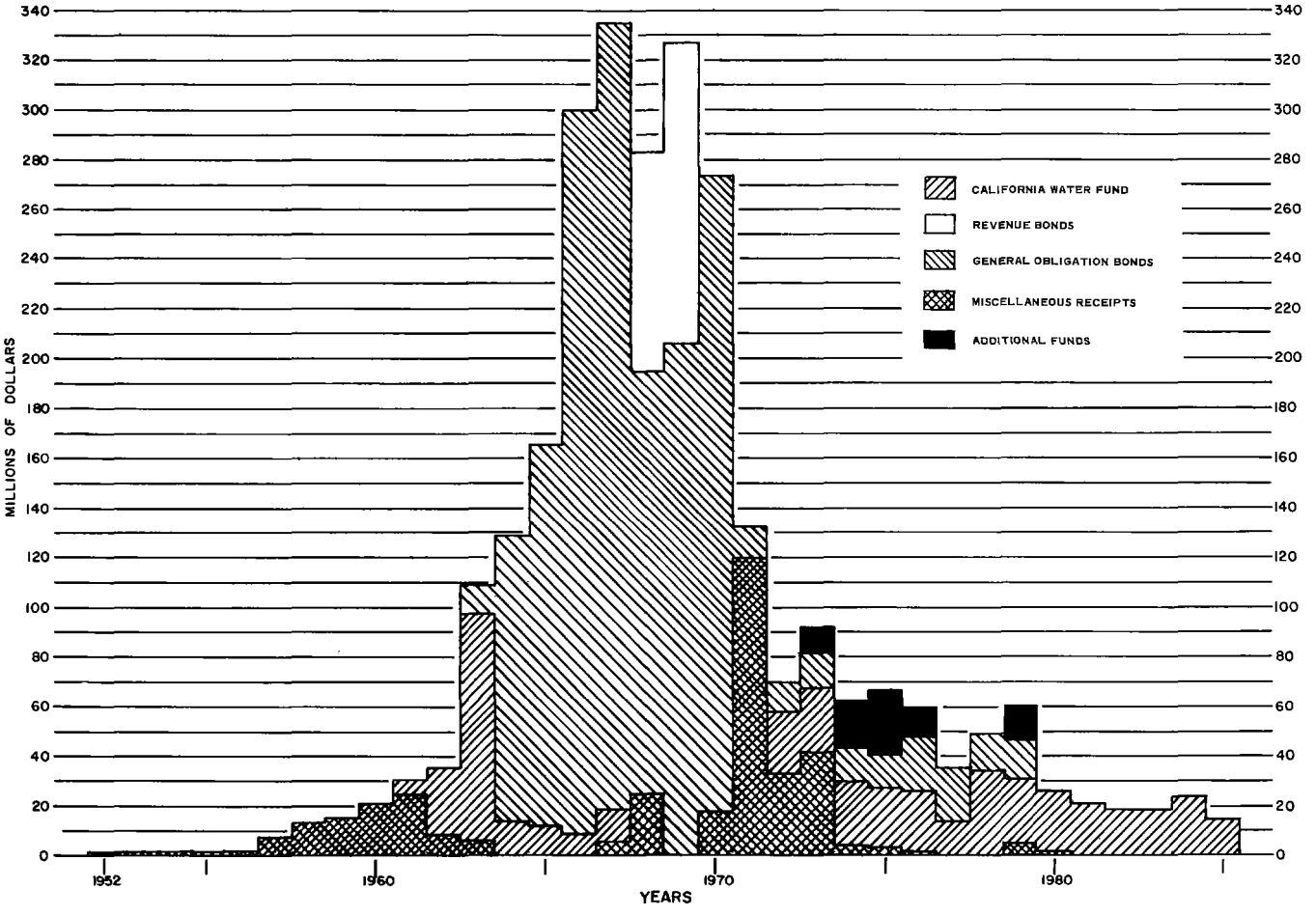
j) Projected reimbursement of expenditures from California Water Fund under the "third priority" of use of revenues as specified by the Burns-Porter Act. Total of repayments shown in Column 13 equal the total of expenditures shown in Column 7.

k) Amounts available for future construction under the "fourth priority" of use of revenues as specified by the Burns-Porter Act.

l) Expenditures during 1952-1968 from specific appropriations made available prior to the effective date of Burns-Porter Act. (See top portion of Table 8.)

FIGURE 6

FINANCING OF CAPITAL EXPENDITURES 1952-1985



The financial analysis indicates that about $113 million of Miscellaneous Receipts, which could otherwise be applied to capital expenditures, must be diverted to coverage of general obligation bond service. Table 16 summarizes the annual amounts of Miscellaneous Receipts accruing to the Project, the amount of such receipts which must be applied to bond service, and the remaining amounts available for application to capital expenditures. As a safeguard, an uncommitted reserve of $10 million of Miscellaneous Receipts will be maintained until two years after the date when net operating revenues are estimated to be adequate to cover all subsequent bond service.

Sizable amounts of available funds will remain unused by 1985 after financing of capital expenditures assumed for this analysis. In addition, more than sufficient funds will accrue to the Project to finance principal and interest payments to the Corps of Engineers for the capital costs of conservation storage in Dos Rios Reservoir.

Payments to the Corps of Engineers will be made from the California Water Fund with moneys derived from those project operating revenues which will exceed operating costs and general obligation bond service after 1985. Such net revenues will accrue to the California Water Fund, under the "third priority" of use provided by the Burns-Porter Act, until all expenditures therefrom have been repaid. All net revenue remaining after repayment of the California Water Fund will be available for financing the construction of "Additional Facilities" under the "fourth priority" of use.

The sources and applications of project operating revenues are shown graphically on Figure 7.

Included in those funds which the financial analysis indicates will be unused are about $98 million in "offset bonds". Summarized in Table 17 is the use of "offset bonds" for the State's construction of the Middle Fork Eel River Development (Dos Rios–Grindstone Tunnel and Stony Creek Conveyance Channel). This residual amount of "offset bonds" could be reduced by about $87 million if those Miscellaneous Receipts and California Water Fund moneys accruing after about 1979——used, in the financial analysis, to assist in financing the Development——were used instead for future costs of the San Joaquin Drainage Facilities or for other costs which eventually may be incurred in addition to those assumed for the financial analysis.

The results of the financial analysis——whereby both the need for additional funds and a surplus of available funds are projected by the end of the Project's construction period——indicate the possibility of a

TABLE 16

ANALYSIS OF MISCELLANEOUS RECEIPTS

(in thousands of dollars)

Calendar Year	Cumulative Balance at Beginning of Year (a	Miscellaneous Receipts: Legislative Appropriations (b	Federal Reimbursements: Oroville Dam and Lake	Federal Reimbursements: Del Valle Dam and Lake (c	Cooperative Power Development	Total Advances by Water Contractors (d	Total (e	Cumulative Balance Plus Receipts (f	Expenditures: Financing of Capital Expenditures (g	Expenditures: Coverage of Bond Service (h	Balance at End of Year, Excluding Interest (i	Interest on Average Balance at 5.0% (j
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Prior Appropriations	-	100,304	0	0	0	0	100,304	-	100,304	0	-	0
9 Years, 1960-1968	-	38,136	56,625	2,267	0	27,399	124,427	-	31,413	32,891	-	12,725
1969	72,848	16,000	9,692(k	1,133	0	10,160	36,985	109,833	0	12,621	97,212	4,251
1970	101,463	30,000	1,564	1,456	0	9,806	42,826	144,289	17,889	12,059	114,341	5,395
1971	119,736	30,000	0	1,433	15,842	21,939	69,214	188,950	119,786	4,527	64,637	4,609
1972	69,246	5,000	0	0	12,429	2,434	19,863	89,109	32,696	15,721	40,692	2,748
1973	43,440	5,000	0	0	12,926	352	18,278	61,718	41,567	10,151	10,000	1,336
1974	11,336	5,000	0	0	0	1,054	6,054	17,390	3,468	3,922	10,000	533
1975	10,533	5,000	0	0	0	0	5,000	15,533	2,472	3,061	10,000	513
7 Years, 1969-1975	-	96,000	11,256	4,022	41,197	45,745	198,220	-	217,878	62,062	-	19,385
1976	10,513	5,000	0	0	0	0	5,000	15,513	1,288	4,225	10,000	513
1977	10,513	5,000	0	0	0	0	5,000	15,513	0	4,900	10,613	528
1978	11,141	5,000	0	0	0	12	5,012	16,153	0	4,930	11,223	559
1979	11,782	5,000	0	0	0	1,696	6,696	18,478	4,655	3,823	10,000	545
1980	10,545	5,000	0	0	0	0	5,000	15,545	1,443	421	13,681	606
1981	14,287	5,000	0	0	0	0	5,000	19,287	0	0	19,287	839
1982	20,126	5,000	0	0	0	0	5,000	25,126	0	0	25,126	1,131
1983	26,257	5,000	0	0	0	0	5,000	31,257	0	0	31,257	1,438
1984	32,695	5,000	0	0	0	24	5,024	37,719	0	0	37,719	1,760
1985	39,479	5,000	0	0	0	0	5,000	44,479	0	0	44,479	2,099
10 Years, 1976-1985	-	50,000	0	0	0	1,732	51,732	-	7,386	18,299	-	10,018
TOTAL 1952-1985	-	284,440	67,881	6,289	41,197	74,876	474,683	-	356,981	113,252	-	42,128

a) Total of values in Columns 11 and 12 for the preceding year.

b) Includes:
Specific appropriations for project construction made available by the Legislature prior to the effective date of the Burns-Porter Act ($100,304,000).

Those moneys diverted from the California Water Fund during the period June 28, 1968 through June 30, 1972.

A continuing annual appropriation of $5 million from tideland gas and oil revenues to reimburse project expenditures for recreation and fish and wildlife enhancement.

c) Assumes that the present contractual limit on the total amount of federal contributions ($4.856 million) will be increased by approximately $1.4 million to more properly account for the actual costs allocable to flood control.

d) Values from Tables B-8 and B-9, increased by allowances for cost escalation, plus a $15,000,000 advance payment in 1971 by The Metropolitan Water District of Southern California under assumed Amendment No. 7 to the District's contract. (Includes $1,275,000 from the sale of right-of-way originally purchased for Airpoint Reservoir.)

e) Total of Columns 2 thru 6.

f) Total of Columns 1 and 7.

g) Miscellaneous Receipts remaining after coverage of general obligation bond service (Column 10), scheduled annually so that a minimum balance of $10 million will remain (Column 11) until two years after the estimated year when net operating revenues exceed such bond service (1980).

h) See Column 12, Table 15.

i) Column 8, less Columns 9 and 10.

j) Interest income on the average of the balances shown in Columns 1 and 11 at rate of 5.0 percent per annum.

k) Excluding $2,400,000 for the following reserves, in accordance with the requirements for sale of Oroville Division Revenue Bonds: $750,000 in an operating reserve account, and $1,650,000 in the General Reserve Fund.

PROJECT OPERATING REVENUES

FIGURE 7

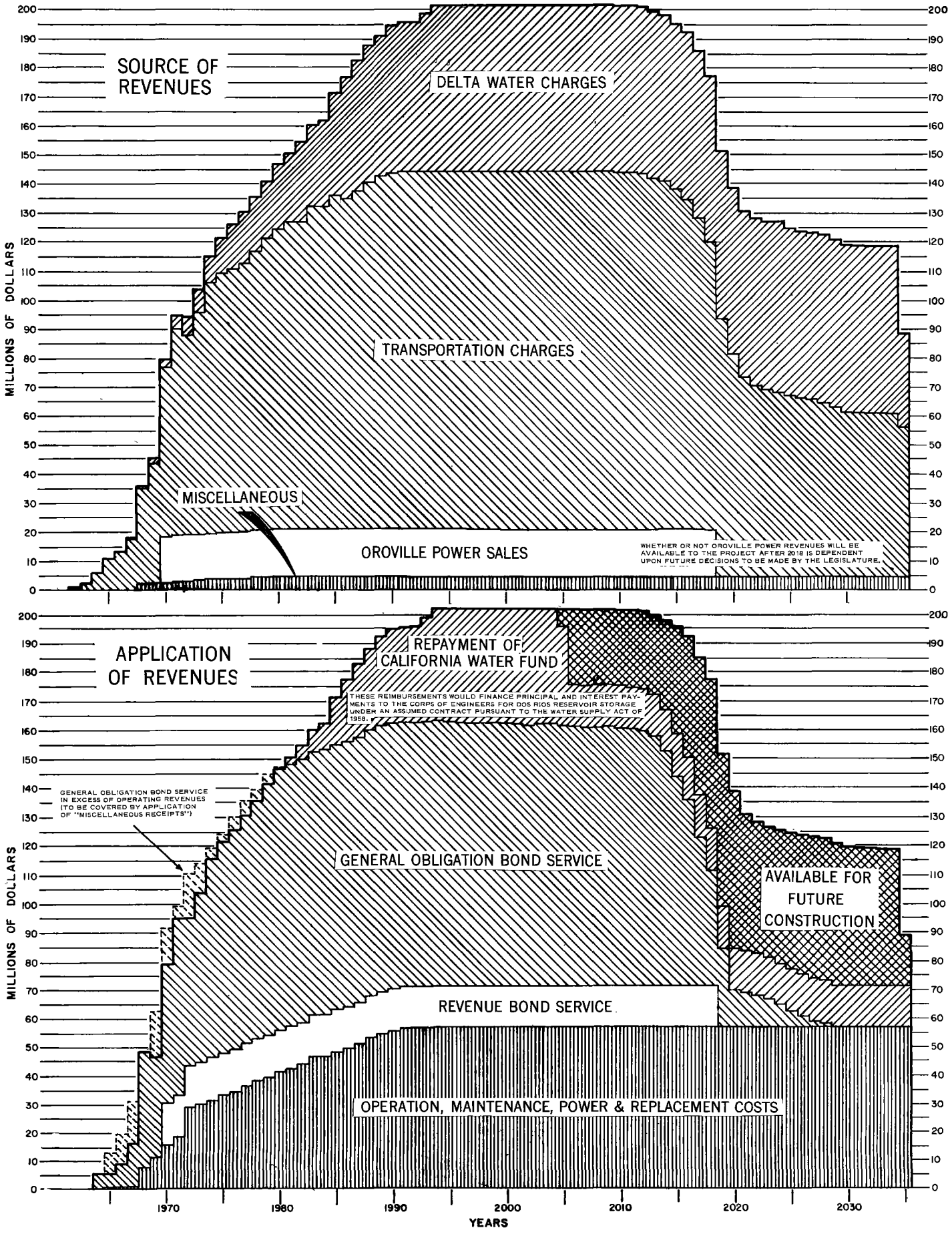


TABLE 17

ANALYSIS OF OFFSET BONDS

(in thousands of dollars)

Calendar Year	Financing of Capital Expenditures												Balance at End of Year of Unissued Offset Bonds (f
	Total State Water Project				State Water Facilities				Additional Facilities				
	California Water Fund (a	General Obligation Bonds (b	All Other (c	Total (d	California Water Fund	General Obligation Bonds	All Other	Total	California Water Fund	General Obligation Bonds	All Other	Total (e	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Prior Appropriations	0	0	100,304	100,304	0	0	100,304	100,304	0	0	0	0	0
9 Years, 1960-1968	174,313	1,053,115	120,273	1,347,701	174,313	1,047,935	120,273	1,342,521	0	5,180	0	5,180	-
1969	0	204,632	121,440	326,072	0	203,033	121,440	324,473	0	1,599	0	1,599	167,534
1970	0	254,878	17,889	272,767	0	253,550	17,889	271,439	0	1,328	0	1,328	166,206
1971	0	11,938	119,786	131,724	0	10,600	119,786	130,386	0	1,338	0	1,338	164,868
1972	25,000	11,943	32,696	69,639	25,000	10,600	32,696	68,296	0	1,343	0	1,343	163,525
1973	25,000	25,162	41,567	91,729	25,000	21,148	41,567	87,715	0	4,014	0	4,014	159,511
1974	25,000	33,681	3,468	62,149	25,000	30,218	3,468	58,686	0	3,463	0	3,463	156,048
1975	25,000	39,374	2,472	66,846	25,000	36,454	2,472	63,926	0	2,920	0	2,920	153,128
7 Years, 1969-1975	100,000	581,608	339,318	1,020,926	100,000	565,603	339,318	1,004,921	0	16,005	0	16,005	-
1976	25,000	33,422	1,288	59,710	25,000	22,236	1,288	48,524	0	11,186	0	11,186	141,942
1977	14,042	22,192	0	36,234	14,042	7,569	0	21,611	0	14,623	0	14,623	127,319
1978	34,446	14,768	0	49,214	34,446	0	0	34,446	0	14,768	0	14,768	112,551
1979	26,512	29,045	4,655	60,212	26,512	14,130	4,655	45,297	0	14,915	0	14,915	97,636
1980	25,000	0	1,443	26,443	11,383	0	0	11,383	13,617	0	1,443	15,060	97,630
1981	20,690	0	0	20,690	5,480	0	0	5,480	15,210	0	0	15,210	97,630
1982	18,500	0	0	18,500	3,140	0	0	3,140	15,360	0	0	15,360	97,630
1983	17,925	0	0	17,925	1,107	0	0	1,107	16,818	0	0	16,818	97,630
1984	23,434	0	0	23,434	8,830	0	0	8,830	14,604	0	0	14,604	97,630
1985	14,450	0	0	14,450	5,320	0	0	5,320	9,130	0	0	9,130	97,630
10 Years, 1976-1985	219,999	99,427	7,386	326,812	135,260	43,935	5,943	185,138	84,739	55,492	1,443	141,674	-
TOTAL, 1952-1985	494,312	1,734,150	567,281	2,795,743	409,573	1,657,473	565,838	2,632,884	84,739	76,677	1,443	162,859	-

a) From Column 7, Table 15.

b) Total of Columns 5 and 6, Table 15.

c) Total of Columns 8 and 9, Table 15.

d) From Column 1, Table 15.

e) From Column 6, Table 8, thru 1985.

f) California Water Fund expenditures thru June 28, 1968 (totaling $174,313,000) reserve bonds (Offset Bonds) to be used solely for financing the construction of Additional Facilities.

TABLE 18

SERVICE ON ACTUAL AND PROJECTED GENERAL OBLIGATION BONDS

(in thousands of dollars)

Calendar Year	Bond Service on Actual Issues Through Series "M" (a			Bond Service on Projected Issues (b			Total Bond Service (c
	Principal	Interest	Total	Principal	Interest	Total	Actual and Projected
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1963	0	0	0	0	0	0	0
1964	0	5,507	5,507	0	0	0	5,507
1965	0	12,637	12,637	0	0	0	12,637
1966	0	19,115	19,115	0	0	0	19,115
1967	0	30,402	30,402	0	0	0	30,402
1968	0	31,776	31,776	0	0	0	31,776
6 Years, 1963-1968	0	99,437	99,437	0	0	0	99,437
1969	0	56,672	56,672	0	3,591	3,591	60,263
1970	0	47,461	47,461	0	13,882	13,882	61,343
1971	0	47,461	47,461	0	18,529	18,529	65,990
1972	400	47,461	47,861	0	19,126	19,126	66,987
1973	1,800	47,441	49,241	0	20,163	20,163	69,404
1974	3,917	47,351	51,268	0	21,705	21,705	72,973
1975	5,583	47,166	52,749	0	23,579	23,579	76,328
1976	8,425	46,903	55,328	0	25,350	25,350	80,678
1977	11,025	46,502	57,527	0	26,646	26,646	84,173
1978	13,075	45,973	59,048	843	27,509	28,352	87,400
1979	13,775	45,342	59,117	2,878	28,681	31,559	90,676
1980	14,275	44,678	58,953	3,115	29,022	32,137	91,090
1981	14,767	43,990	58,757	3,364	28,866	32,230	90,987
1982	15,408	43,279	58,687	3,729	28,698	32,427	91,114
1983	16,242	42,536	58,778	4,179	28,511	32,690	91,468
1984	17,067	41,753	58,820	4,696	28,302	32,998	91,818
1985	17,642	40,931	58,573	5,192	28.068	33.260	91.833
17 Years, 1969-1985	153,401	782,900	936,301	27,996	400,228	428,224	1,364,525
1986	18,242	40,081	58,323	5,625	27,808	33,433	91,756
1987	18,966	39,202	58,168	6,022	27,527	33,549	91,717
1988	19,892	38,300	58,192	6,550	27,226	33,776	91,968
1989	20,792	37,426	58,218	6,878	26,898	33,776	91,994
1990	21,417	36,548	57,965	7,222	26,554	33,776	91,741
1991	21,992	35,645	57,637	7,583	26,193	33,776	91,413
1992	22,725	34,743	57,468	7,962	25,814	33,776	91,244
1993	23,817	33,829	57,646	8,360	25,416	33,776	91,422
1994	24,883	32,874	57,757	8,778	24,998	33,776	91,533
1995	25,558	31,879	57,437	9,217	24,559	33,776	91,213
1996	26,292	30,854	57,146	9,677	24,099	33,776	90,922
1997	27,083	29,802	56,885	10,162	23,614	33,776	90,661
1998	28,333	28,717	57,050	10,670	23,106	33,776	90,826
1999	29,600	27,587	57,187	11,203	22,573	33,776	90,963
2000	30,500	26,405	56,905	11,763	22,013	33,776	90,681
2001	31,400	25,182	56,582	12,351	21,425	33,776	90,358
2002	32,500	23,923	56,423	12,969	20,807	33,776	90,199
2003	34,100	22,622	56,722	13,617	20,159	33,776	90,498
2004	35,600	21,253	56,853	14,298	19,478	33,776	90,629
2005	36,500	19,822	56,322	15,013	18,763	33,776	90,098
2006	37,492	18,356	55,848	15,764	18,012	33,776	89,624
2007	38,725	16,845	55,570	16,552	17,224	33,776	89,346
2008	40,483	15,283	55,766	17,380	16,396	33,776	89,542
2009	42,208	13,649	55,857	18,249	15,527	33,776	89,633
2010	43,408	11,944	55,352	19,161	14,615	33,776	89,128
2011	44,583	10,189	54,772	20,119	13,657	33,776	88,548
2012	45,808	8,386	54,194	21,125	12,651	33,776	87,970
2013	45,675	6,623	52,298	22,181	11,595	33,776	86,074
2014	42,183	4,970	47,153	23,290	10,486	33,776	80,929
2015	35,100	3,366	38,466	24,455	9,321	33,776	72,242
2016	28,375	2,032	30,407	25,678	8,098	33,776	64,183
2017	16,367	935	17,302	26,962	6,814	33,776	51,078
2018	6,000	253	6,253	28,341	5,435	33,776	40,029
2019	0	0	0	23,572	3,973	27,545	27,545
2020	0	0	0	9,942	2,866	12,808	12,808
2021	0	0	0	9,749	2,369	12,118	12,118
2022	0	0	0	9,549	1,879	11,428	11,428
2023	0	0	0	8,575	1,398	9,973	9,973
2024	0	0	0	7,057	968	8,025	8,025
2025	0	0	0	5,132	616	5,748	5,748
2026	0	0	0	3,453	363	3,816	3,816
2027	0	0	0	2,340	194	2,534	2,534
2028	0	0	0	1,608	71	1,679	1,679
43 Years, 1986-2028	996,599	729,525	1,726,124	556,154	653,558	1,209,712	2,935,836
TOTALS, ACTUAL AND PROJECTED	1,150,000	1,611,862	2,761,862	584,150	1,053,786	1,637,936	4,399,798

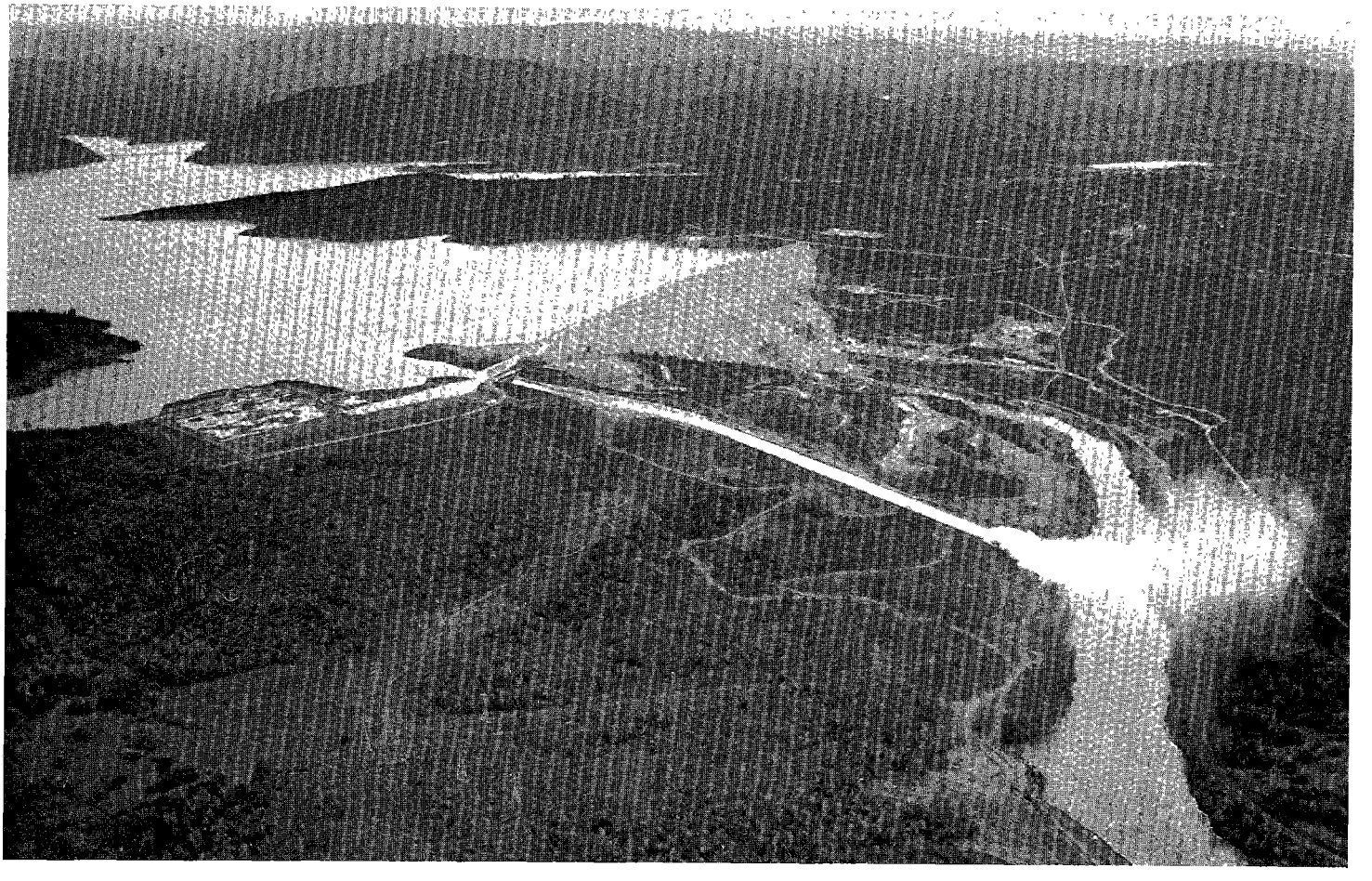
a) Placed on an accrual basis.
b) All projected issues are assumed at 5 percent net interest cost, with amortization commencing in the 10th year of such issues, to produce level annual bond service for the 41-year period beginning with the 10th and ending with the 50th year.
c) See Table 15, column 10.

solution through a rescheduling of construction expenditures. However, this obvious solution depends on whether the assumed construction schedule (and annual capital expenditures) can be sufficiently modified to permit full use of available funding capability without jeopardizing needed project services. Through continuing reanalyses, the Department will formulate the optimum course of action as to how the construction schedule can be modified and when, and how much, additional financing must be secured.

Miscellaneous Financial Tables

Annual service on actual and projected issues of general obligation bonds is summarized in Table 18. Similar data for Central Valley Project Revenue Bonds, Oroville Division, are shown in Table 19.

Table 21 sets forth the maturities and coupon rates of outstanding general obligation bond issues, and Table 20 sets forth their redemption provisions. (Although the Burns-Porter Act does not provide for refunding, general obligation bonds authorized under the Act could be refunded under a supplemental bond authorization.) Table 22 summarizes additional data for Central Valley Project Revenue Bonds, Oroville Division.



RELEASE OF FLOOD WATER OVER
THE OROVILLE SPILLWAY

TABLE 19

SERVICE ON CENTRAL VALLEY PROJECT REVENUE BONDS, OROVILLE DIVISION

(in thousands of dollars)

Calendar Year	Bonds Outstanding at Beginning of Year (a	Costs Financed by Oroville Power Revenues					Oroville Power Revenues (c	Power Revenues in Excess of Costs (d
		Bond Service			Operating Costs (b	Total		
		Interest Payment	Principal Payment	Total				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1968	0	3,876	0	3,876(e	0	3,876	0	0
1969	150,000	10,448	0	10,448(e	1,125(f	11,573	9,413	9,413
1970	244,995	13,145	0	13,145(e	1,500(f	14,645	16,150	9,577
1971	244,995	13,145	0	13,145	1,500	14,645	16,150	1,880
1972	244,995	13,111	1,260	14,371	1,500	15,871	16,150	279
1973	243,735	13,042	1,330	14,372	1,500	15,872	16,150	278
1974	242,405	12,969	1,400	14,369	1,500	15,869	16,150	281
1975	241,005	12,893	1,475	14,368	1,500	15,868	16,150	282
1976	239,530	12,812	1,555	14,367	1,500	15,867	16,150	283
1977	237,975	12,726	1,635	14,361	1,500	15,861	16,150	289
1978	236,340	12,636	1,725	14,361	1,500	15,861	16,150	289
1979	234,615	12,541	1,815	14,356	1,500	15,856	16,150	294
1980	232,800	12,441	1,915	14,356	1,500	15,856	19,144	3,288
1981	230,885	12,334	2,020	14,354	1,500	15,854	16,616	762
1982	228,865	12,221	2,130	14,351	1,500	15,851	19,325	3,474
1983	226,735	12,102	2,245	14,347	1,500	15,847	16,150	303
1984	224,490	11,982	2,365	14,347	1,500	15,847	27,191	11,344
1985	222,125	11,862	2,485	14,347	1,500	15,847	16,150	303
1986	219,640	11,736	2,605	14,341	1,500	15,841	16,150	309
1987	217,035	11,603	2,735	14,338	1,500	15,838	16,368	530
1988	214,300	11,463	2,870	14,333	1,500	15,833	16,150	317
1989	211,430	11,313	3,015	14,328	1,500	15,828	20,662	4,834
1990	208,415	11,153	3,175	14,328	1,500	15,828	21,532	5,704
1991	205,240	10,984	3,335	14,319	1,500	15,819	16,150	331
1992	201,905	10,806	3,510	14,316	1,500	15,816	16,961	1,145
1993	198,395	10,618	3,695	14,313	1,500	15,813	16,150	337
1994	194,700	10,421	3,885	14,306	1,500	15,806	16,150	344
1995	190,815	10,214	4,085	14,299	1,500	15,799	16,150	351
1996	186,730	9,996	4,300	14,296	1,500	15,796	18,735	2,939
1997	182,430	9,767	4,525	14,292	1,500	15,792	16,150	358
1998	177,905	9,525	4,760	14,285	1,500	15,785	16,150	365
1999	173,145	9,265	5,005	14,270	1,500	15,770	16,150	380
2000	168,140	8,987	5,280	14,267	1,500	15,767	16,150	383
2001	162,860	8,693	5,565	14,258	1,500	15,758	16,150	392
2002	157,295	8,384	5,865	14,249	1,500	15,749	16,150	401
2003	151,430	8,057	6,180	14,237	1,500	15,737	16,150	413
2004	145,250	7,713	6,520	14,233	1,500	15,733	16,150	417
2005	138,730	7,350	6,870	14,220	1,500	15,720	16,150	430
2006	131,860	6,968	7,245	14,213	1,500	15,713	16,150	437
2007	124,615	6,564	7,635	14,199	1,500	15,699	16,150	451
2008	116,980	6,138	8,050	14,188	1,500	15,688	16,150	462
2009	108,930	5,690	8,490	14,180	1,500	15,680	16,150	470
2010	100,440	5,217	8,950	14,167	1,500	15,667	16,150	483
2011	91,490	4,717	9,435	14,152	1,500	15,652	16,150	498
2012	82,055	4,191	9,945	14,136	1,500	15,636	16,150	514
2013	72,110	3,636	10,485	14,121	1,500	15,621	16,150	529
2014	61,625	3,051	11,055	14,106	1,500	15,606	16,150	544
2015	50,570	2,434	11,655	14,089	1,500	15,589	16,150	561
2016	38,915	1,783	12,290	14,073	1,500	15,573	16,150	577
2017	26,625	1,096	12,960	14,056	1,500	15,556	16,150	594
2018	13,665	372	13,665	14,037	1,500	15,537	16,150	613

a) Proceeds from sales of Central Valley Project Revenue Bonds, Oroville Division, applied as follows: (in thousands of dollars)

Application	Series A	Series B	Total
Total proceeds from sales	150,000	94,995	244,995
Deduct:			
Reimbursement of State General Fund	2,600	-	2,600
Provision for bond interest until one year after completion	15,503	5,394	20,897
Financing expenses, Insurance, and Miscellaneous reserves	10,097	1,101	11,198
Subtotal	28,200	6,495	34,695
Balance: net proceeds available for financing capital expenditures (See Column 8, Table 15)	121,800	88,500	210,300

b) Operation, maintenance, and replacement costs of Edward Hyatt and Thermalito Powerplants, including allowances for future cost increases and other contingencies (see Column 9, Table 13).

c) Including payments to be received from the Power Companies under the Power Sale Contract (including net annual energy generation in excess of 2.1 billion kilowatt-hours and payments for energy and generative capability under interim letter agreements).

d) Deposited in a General Reserve Fund.

e) Bond service amounting to $3,876,000 in 1968, $10,448,000 in 1969 and $6,573,000 in 1970 (totaling $20,897,000) are financed by bond proceeds.

f) Operating Costs amounting to $1,125,000 in 1969 and $375,000 in 1970 (totaling $1,500,000) are financed by bond proceeds.

TABLE 20

REDEMPTION PREMIUMS FOR GENERAL OBLIGATION BONDS

Maturity Dates, Series:

A--September 1 B--May 1 C--November 1 D--March 1 E--December 1 F--July 1 G--December 1
H--April 1 J--August 1 K--November 1 L--August 1 M--October 1

Year of Maturity	Percent premium if redemption occurs during 12-month period ending on maturity date in year:																				
	1983 b)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003 c)
1984	1/8	0																			
1985	1/4	1/8	0																		
1986	3/8	1/4	1/8	0																	
1987	1/2	3/8	1/4	1/8	0																
1988	5/8	1/2	3/8	1/4	1/8	0															
1989	3/4	5/8	1/2	3/8	1/4	1/8	0														
1990	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0													
1991	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0												
1992	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0											
1993	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0										
1994	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0									
1995	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0								
1996	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0							
1997	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0						
1998	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0					
1999	2	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0				
2000	2 1/8	2	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0			
2001	2 1/4	2 1/8	2	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0		
2002	2 3/8	2 1/4	2 1/8	2	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0	
2003 b)	2 1/2	2 3/8	2 1/4	2 1/8	2	1 7/8	1 3/4	1 5/8	1 1/2	1 1/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0

a) Bonds maturing prior to 1984 are not callable. Bonds of each series maturing in 1984 or later are callable for redemption, in inverse order of maturities, on the 1983 maturity date for the respective series; and on any date thereafter, at premiums of 1/8% for each full 12-month period from the redemption date to the earlier of (1) the maturity date of the bonds being called or (2) the 2003 maturity date for respective series.

b) Premium shown in this column applies only if called for redemption on the 1983 maturity date for the respective series, since bonds of each series are not callable for redemption prior thereto.

c) Or later.

TABLE 21

GENERAL OBLIGATION BONDS SCHEDULE OF MATURITIES, AMOUNT, AND COUPON

(amount in thousands of dollars; coupon as percent)

Calendar Year	Series A (a) Maturity Date September 1		Series B Maturity Date May 1		Series C Maturity Date November 1		Series D Maturity Date March 1		Series E Maturity Date December 1		Series F Maturity Date July 1	
	Amount	Coupon	Amount	Coupon	Amount	Coupon	Amount	Coupon	Amount	Coupon	Amount	Coupon
1973	1,200	5.000	0	.000	0	.000	0	.000	0	.000	0	.000
1974	1,200	5.000	600	5.000	1,200	4.500	0	.000	0	.000	0	.000
1975	1,200	5.000	600	5.000	1,200	4.500	1,000	4.500	1,000	4.500	0	.000
1976	1,200	5.000	600	5.000	1,200	4.500	1,000	4.500	1,000	4.500	1,000	5.000
1977	1,200	5.000	600	5.000	1,200	4.500	1,100	4.500	1,100	4.500	1,000	5.000
1978	1,500	5.000	600	5.000	1,200	4.500	1,100	4.500	1,100	4.500	1,100	5.000
1979	1,500	5.000	750	5.000	1,500	4.500	1,200	4.500	1,200	4.500	1,100	5.000
1980	1,500	5.000	750	5.000	1,500	4.500	1,200	4.500	1,200	4.500	1,200	5.000
1981	1,500	5.000	750	5.000	1,500	4.500	1,300	4.500	1,300	4.500	1,200	5.000
1982	1,500	5.000	750	5.000	1,500	4.500	1,400	4.500	1,400	4.500	1,300	5.000
1983	1,700	5.000	750	5.000	1,500	4.500	1,400	4.500	1,400	4.500	1,400	5.000
1984	1,700	5.000	850	5.000	1,700	4.500	1,500	4.500	1,500	4.500	1,400	5.000
1985	1,700	5.000	850	5.000	1,700	4.500	1,600	4.500	1,600	4.500	1,500	5.000
1986	1,700	5.000	850	5.000	1,700	4.500	1,600	4.500	1,600	4.500	1,600	5.000
1987	1,700	5.000	850	5.000	1,700	4.500	1,700	4.500	1,700	4.500	1,600	5.000
1988	2,000	4.000	850	4.750	1,700	3.750	1,800	4.500	1,800	4.500	1,700	5.000
1989	2,000	3.400	1,000	3.400	2,000	3.400	1,800	3.250	1,800	4.500	1,800	4.200
1990	2,000	3.400	1,000	3.400	2,000	3.400	1,900	3.400	1,900	4.500	1,800	3.800
1991	2,000	3.400	1,000	3.500	2,000	3.500	2,000	3.400	2,000	3.600	1,900	3.850
1992	2,000	3.400	1,000	3.500	2,000	3.500	2,000	3.400	2,000	3.600	2,000	3.850
1993	2,400	3.500	1,000	3.500	2,000	3.500	2,100	3.400	2,100	3.600	2,000	3.850
1994	2,400	3.500	1,200	3.500	2,400	3.500	2,200	3.400	2,200	3.625	2,100	3.850
1995	2,400	3.500	1,200	3.500	2,400	3.550	2,300	3.400	2,300	3.625	2,200	3.850
1996	2,400	3.500	1,200	3.500	2,400	3.550	2,300	3.400	2,300	3.625	2,300	3.875
1997	2,400	3.500	1,200	3.500	2,400	3.550	2,400	3.400	2,400	3.625	2,300	3.875
1998	2,900	3.500	1,200	3.500	2,400	3.550	2,500	3.500	2,500	3.625	2,400	3.875
1999	2,900	3.500	1,450	3.500	2,900	3.550	2,600	3.500	2,600	3.625	2,500	3.875
2000	2,900	3.500	1,450	3.600	2,900	3.600	2,700	3.500	2,700	3.700	2,600	3.875
2001	2,900	3.500	1,450	3.600	2,900	3.600	2,800	3.500	2,800	3.700	2,700	3.900
2002	2,900	3.500	1,450	3.600	2,900	3.600	2,900	3.500	2,900	3.700	2,800	3.900
2003	3,500	3.500	1,450	3.600	2,900	3.600	3,000	3.500	3,000	3.750	2,900	3.900
2004	3,500	3.600	1,750	3.600	3,500	3.625	3,100	3.500	3,100	3.750	3,000	3.900
2005	3,500	3.600	1,750	3.600	3,500	3.625	3,200	3.500	3,200	3.750	3,100	3.900
2006	3,500	3.600	1,750	3.625	3,500	3.625	3,300	3.500	3,300	3.750	3,200	3.900
2007	3,500	3.600	1,750	3.625	3,500	3.625	3,500	3.500	3,500	3.750	3,300	3.900
2008	4,000	3.625	1,750	3.625	3,500	3.650	3,600	3.500	3,600	3.750	3,500	3.900
2009	4,000	3.625	2,000	3.625	4,000	3.650	3,700	3.500	3,700	3.750	3,600	3.900
2010	4,000	3.625	2,000	3.625	4,000	3.650	3,900	3.600	3,900	3.750	3,700	3.900
2011	4,000	3.625	2,000	3.625	4,000	3.650	4,000	3.600	4,000	3.750	3,900	4.000
2012	4,000	3.625	2,000	3.625	4,000	3.000	4,100	3.600	4,100	3.750	4,000	4.000
2013	4,000	.100	2,000	3.625	4,000	3.000	4,300	3.000	4,300	3.750	4,100	4.000
2014	0	.000	2,000	.050	4,000	3.000	4,400	3.000	4,400	3.000	4,300	3.500
2015	0	.000	0	.000	0	.000	4,500	3.000	4,500	3.000	4,400	3.500
2016	0	.000	0	.000	0	.000	0	.000	0	.000	4,500	3.500
2017	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000
2018	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000
2019	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000
2020	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000
TOTAL	100,000		50,000		100,000		100,000		100,000		100,000	
Average Life (years)	34.02		34.52		34.52		34.98		34.98		34.98	

(a) Bond Anticipation Notes Dated December 1, 1963, in the amount of $50,000,000 and maturing on June 15, 1964, had a life of 0.27 years.

Series G		Series H		Series J		Series K		Series L		Series M		Calendar Year
Maturity Date December 1		Maturity Date April 1		Maturity Date August 1		Maturity Date November 1		Maturity Date August 1		Maturity Date October 1		
Amount	Coupon	Amount	Coupon	Amount	Coupon	Amount	Coupon	Amount	Coupon	Amount	Coupon	
0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	1973
0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	1974
0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	1975
1,000	5.000	0	.000	0	.000	0	.000	0	.000	0	.000	1976
1,000	5.000	1,000	4.500	1,000	5.000	1,000	5.000	0	.000	0	.000	1977
1,100	5.000	1,000	4.500	1,000	5.000	1,000	5.000	1,000	5.000	1,000	5.000	1978
1,100	5.000	1,100	4.500	1,100	5.000	1,100	5.000	1,000	5.000	1,000	5.000	1979
1,200	5.000	1,100	4.500	1,100	5.000	1,100	5.000	1,100	5.000	1,100	5.000	1980
1,200	5.000	1,200	4.500	1,200	5.000	1,200	5.000	1,100	5.000	1,100	5.000	1981
1,300	5.000	1,200	4.500	1,200	5.000	1,200	5.000	1,200	5.000	1,200	5.000	1982
1,400	5.000	1,300	4.500	1,300	5.000	1,300	5.000	1,200	5.000	1,200	5.000	1983
1,400	5.000	1,400	4.500	1,400	5.000	1,400	5.000	1,300	5.000	1,300	5.000	1984
1,500	5.000	1,400	4.500	1,400	5.000	1,400	5.000	1,400	5.000	1,400	5.000	1985
1,600	5.000	1,500	4.500	1,500	5.000	1,500	5.000	1,400	5.000	1,400	5.000	1986
1,600	5.000	1,600	4.500	1,600	5.000	1,600	5.000	1,500	5.000	1,500	5.000	1987
1,700	5.000	1,600	4.500	1,600	4.600	1,600	5.000	1,600	5.000	1,600	5.000	1988
1,800	5.000	1,700	4.500	1,700	4.150	1,700	5.000	1,600	5.000	1,600	5.000	1989
1,800	5.000	1,800	4.500	1,800	4.150	1,800	5.000	1,700	5.000	1,700	5.000	1990
1,900	4.700	1,800	4.500	1,800	4.150	1,800	5.000	1,800	5.000	1,800	5.000	1991
2,000	4.000	1,900	4.100	1,900	4.150	1,900	5.000	1,800	5.000	1,800	5.000	1992
2,000	4.000	2,000	3.750	2,000	4.150	2,000	5.000	1,900	5.000	1,900	5.000	1993
2,100	4.000	2,000	3.750	2,000	4.150	2,000	5.000	2,000	4.800	2,000	5.000	1994
2,200	4.000	2,100	3.750	2,100	4.200	2,100	5.000	2,000	4.800	2,000	5.000	1995
2,300	4.000	2,200	3.750	2,200	4.200	2,200	5.000	2,100	4.850	2,100	4.900	1996
2,300	4.000	2,300	3.625	2,300	4.200	2,300	4.900	2,200	4.850	2,200	4.900	1997
2,400	4.050	2,300	3.625	2,300	4.200	2,300	4.750	2,300	4.850	2,300	4.900	1998
2,500	4.050	2,400	3.625	2,400	4.150	2,400	4.750	2,300	4.875	2,300	5.000	1999
2,600	4.050	2,500	3.625	2,500	4.150	2,500	4.750	2,400	4.875	2,400	5.000	2000
2,700	4.050	2,600	3.700	2,600	4.050	2,600	4.750	2,500	4.875	2,500	5.000	2001
2,800	4.050	2,700	3.700	2,700	4.050	2,700	4.800	2,600	4.875	2,600	4.800	2002
2,900	4.100	2,800	3.700	2,800	4.050	2,800	4.800	2,700	4.750	2,700	5.000	2003
3,000	4.100	2,900	3.650	2,900	4.100	2,900	4.800	2,800	4.750	2,800	5.000	2004
3,100	4.100	3,000	3.650	3,000	4.100	3,000	4.800	2,900	4.750	2,900	4.850	2005
3,200	4.100	3,100	3.700	3,100	4.100	3,100	4.875	3,000	4.750	3,000	4.850	2006
3,300	4.100	3,200	3.700	3,200	4.100	3,200	4.875	3,100	4.800	3,100	4.875	2007
3,500	4.100	3,300	3.700	3,300	4.100	3,300	4.875	3,200	4.800	3,200	4.875	2008
3,600	4.100	3,500	3.700	3,500	4.100	3,500	4.875	3,300	4.800	3,300	4.875	2009
3,700	4.100	3,600	3.700	3,600	4.100	3,600	4.750	3,500	4.800	3,500	4.875	2010
3,900	4.100	3,700	3.700	3,700	4.100	3,700	4.750	3,600	4.800	3,600	4.900	2011
4,000	4.100	3,900	3.700	3,900	4.100	3,900	4.750	3,700	4.800	3,700	4.900	2012
4,100	4.100	4,000	3.700	4,000	4.100	4,000	4.750	3,900	4.800	3,900	4.900	2013
4,300	4.100	4,100	3.700	4,100	4.100	4,100	4.750	4,000	4.800	4,000	4.900	2014
4,400	3.500	4,300	3.700	4,300	4.100	4,300	4.000	4,100	4.800	4,100	4.900	2015
4,500	3.500	4,400	3.000	4,400	3.500	4,400	4.000	4,300	4.500	4,300	4.900	2016
0	.000	4,500	3.000	4,500	3.500	4,500	4.000	4,400	4.500	4,400	4.900	2017
0	.000	0	.000	0	.000	0	.000	4,500	4.500	4,500	4.000	2018
0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	2019
0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	2020
100,000		100,000		100,000		100,000		100,000		100,000		TOTAL
34.98		34.98		34.98		34.98		34.98		34.98		Average Life (years)

SUMMARY OF CENTRAL VALLEY PROJECT REVENUE BONDS, OROVILLE DIVISION

(amount in thousands of dollars; coupon as percent)

Year of Maturity	Type of Bonds	Series A Maturity or Redemption Date: April 1			Series B Maturity or Redemption Date: April 1		
		Maturity		Sinking Fund Redemption Amount	Maturity		Sinking Fund Redemption Amount
		Amount	Coupon		Amount	Coupon	
1972	Serial	900	5.500	0	360	5.000	0
1973	Serial	900	5.500	0	430	5.000	0
1974	Serial	900	5.500	0	500	5.000	0
1975	Serial	1,000	5.500	0	475	5.000	0
1976	Serial	1,000	5.500	0	555	5.100	0
1977	Serial	1,000	5.500	0	635	5.100	0
1978	Serial	1,000	5.500	0	725	5.200	0
1979	Serial	1,100	5.500	0	715	5.200	0
1980	Serial	1,200	5.500	0	715	5.250	0
1981	Serial	1,600	5.500	0	420	5.250	0
1982	Serial	1,600	5.500	0	530	5.300	0
1983	Serial	1,700	5.500	0	545	5.300	0
1984	Serial	1,700	4.750	0	665	5.400	0
1985	Serial	1,800	4.750	0	685	5.400	0
1986	Serial	1,800	4.800	0	805	5.400	0
1987	Serial	1,900	4.800	0	835	5.400	0
1988	Serial	1,900	4.800	0	970	5.400	0
1989		0		2,100	0		915
1990		0		2,200	0		975
1991		0		2,300	0		1,035
1992		0		2,400	0		1,110
1993		0		2,500	0		1,195
1994		0		2,700	0		1,185
1995		0		2,800	0		1,285
1996		0		2,900	0		1,400
1997		0		3,000	0		1,525
1998	Term	26,000	5.000	3,100	12,285	5.625	1,660
1999		0		3,100	0		1,905
2000		0		3,250	0		2,030
2001		0		3,400	0		2,165
2002		0		3,550	0		2,315
2003		0		3,700	0		2,480
2004		0		3,900	0		2,620
2005		0		4,100	0		2,770
2006		0		4,300	0		2,945
2007		0		4,500	0		3,135
2008		0		4,750	0		3,300
2009		0		5,000	0		3,490
2010		0		5,250	0		3,700
2011		0		5,500	0		3,935
2012		0		5,750	0		4,195
2013		0		6,050	0		4,435
2014		0		6,350	0		4,705
2015		0		6,650	0		5,005
2016		0		6,950	0		5,340
2017		0		7,300	0		5,660
2018	Term	101,000	5.200	7,650	72,145	5.750	6,015
Total		150,000		127,000	94,995		84,430

SUMMARY OF CENTRAL VALLEY PROJECT REVENUE BONDS, OROVILLE DIVISION

Serial and Term Bonds Optional Redemption and Premium Schedule

(percent premium if redemption occurs during 12-month period beginning April 1 of the year of redemption)

Type of Bonds:	← Serial →						← Term →	
Series:	← A →							B
Year of Redemption Beginning April 1:	(Year of Maturity)							
	1983	1984	1985	1986	1987	1988	1998 2018	1998 2018
1983	0	1/4	1/2	3/4	1	1 1/4	3 1/2	
1984		0	1/4	1/2	3/4	1	3 1/4	
1985			0	1/4	1/2	3/4	3	
1986				0	1/4	1/2	2 3/4	
1987					0	1/4	2 1/2	
1988						0	2 1/4	
1989							2	2 1/4
1990							1 3/4	2
1991							1 1/2	1 3/4
1992							1 1/4	1 1/2
1993							1	1 1/4
1994							3/4	1
1995							1/2	3/4
1996							1/4	1/2
1997							0	1/4
1998								0

No Series A or B Term Bonds due April 1, 2018 are to be retired through operation of the Sinking Fund prior to retirement of all Series A Term Bonds due April 1, 1998.

ADDITIONAL SINKING FUND: The Term Bonds of each series of Bonds will be entitled to Additional Sinking Fund payments out of moneys in the General Reserve Fund: in excess of $35,000,000 on or after January 1, 1975, and on or before January 1, 1980; in excess of $30,000,000 after January 1, 1980 and on or before January 1, 1985; and in excess of $25,000,000 after January 1, 1985, provided that on January 1, 1975 or on January 1, 1980 there is no negative balance in the Edison-San Diego Energy Adjustment Account. Moneys in the Additional Sinking Fund will be applied by the Trustee to the retirement of Term Bonds by purchase at not exceeding the principal amount thereof or by call by lot at the principal amount thereof (exclusive of accrued interest which is payable from the Interest Fund) on the next succeeding April 1, provided that no Series A or B Term Bonds due April 1, 1998 are to be retired through operation of the Additional Sinking Fund prior to the retirement of all Series A or B Term Bonds due April 1, 2018 and provided, further, that Series B Term Bonds shall not be subject to redemption from moneys in the Additional Sinking Fund prior to April 1, 1989. The Trustee will apply Additional Sinking Fund moneys to the purchase or retirement of Term Bonds of each series pro rata substantially in the proportion which the principal amount of Bonds of each series initially issued bears to the total amount of Bonds issued.

OPTIONAL REDEMPTION, SERIES A: The Series A Serial Bonds maturing on or before April 1, 1983 are not subject to redemption prior to their fixed maturity dates. The Series A Serial Bonds maturing on and after April 1, 1984 are subject to redemption at the option of the Department as a whole, or in part, in inverse order of maturities, or by lot within the maturity then callable if less than all of the Bonds of such maturity are redeemed, from any source of available funds on any date on and after April 1, 1983 at the principal amount thereof and accured interest thereon to the date of redemption plus a premium of 1/4 of 1% of the principal amount of the Bonds then called for redemption for each twelve months or fraction thereof from the date fixed for redemption to the fixed maturity date of the Bonds so called for redemption.

The Series A Term Bonds are subject to redemption as a whole or in part by lot at the option of the Department from any source of available funds (exclusive of Sinking Fund and Additional Sinking Fund moneys) on any date on and after April 1, 1983 at redemption prices which include premiums of 1/4 of 1% of the principal amount on the Bonds then called for redemption for each twelve months or fraction thereof from the date fixed for redemption according to the table above.

If less than all of the Series A Bonds are to be redeemed, the Series A Term Bonds are to be redeemed prior to or simultaneously with the redemption of the Series A Serial Bonds. The Series A Term Bonds due April 1, 2018 are to be redeemed prior to or simultaneously with any Series A Term Bonds due April 1, 1998.

OPTIONAL REDEMPTION, SERIES B: The Series B Serial Bonds are not subject to redemption prior to their fixed maturity dates.

The Series B Term Bonds are subject to redemption as a whole or in part by lot, at the option of the Department, from any source of available funds (exclusive of Sinking Fund and Additional Sinking Fund moneys) on any date on and after April 1, 1989, at the principal amount thereof plus a premium of 1/4 of 1% of the principal amount for the respective periods shown in the table, together with accrued interest to date of redemption.

Series B Term Bonds due April 1, 2018 are to be redeemed (except with Sinking Fund moneys) prior to or simultaneously with any Series B Term Bonds due April 1, 1998.

APPENDIX A

FINANCIAL STATEMENTS AS OF DECEMBER 31, 1968

EXHIBIT I

STATE WATER RESOURCES DEVELOPMENT SYSTEM BALANCE SHEET--- DECEMBER 31, 1968 (NOTE 1)

ASSETS			LIABILITIES		
Property, Plant, and Equipment (Note 2):			Capitalization:		
Middle Fork Eel River Development	$ 5,182,336		Water Resources Development General Obligation Bonds (Note 5)	$1,150,000,000	
Upper Feather Div.	13,306,614		Central Valley Project Revenue Bonds (Note 6)	150,000,000	
Oroville Division	481,468,909		Advances from California Water Fund (Note 7)	174,313,466	
Delta Facilities	12,797,128		Net Grants in Aid of Construction (Note 8)	82,085,593	
North Bay Aqueduct	3,585,105				$1,556,399,059
South Bay Aqueduct	63,206,369		Accumulated Net Revenues		61,186,820
California Aqueduct	835,444,662				
San Joaquin Drainage Facilities	5,885,644		Commitments (Note 9)		
Other	17,209,497				
	$1,438,086,264		Current Liabilities:		
Less: Allowance for Replacement	189,982		Accounts Payable	$ 19,750,256	
		$1,437,896,282	Contracts Retention	24,948,529	
Loans Receivable Arising from Davis-Grunsky Program		6,113,258	Due to Other Funds	4,442,739	
Working Capital Advance---Equipment		4,321,084	Accrued Interest:		
Long-Term Funds Held by Trustee (Note 3)		4,443,933	General Obligation Bonds	10,765,528	
Current Assets (Notes 1, 3, and 4):			Revenue Bonds	1,937,888	
Cash	$ 5,440,691				$ 61,844,940
Investments	206,720,000		Reserve for Deferred Accounts Receivable		708,753
Accounts Receivable:			Advance Payments from Water Supply Contractors		13,998,026
Billed	13,544,105		Accountability for Project Deposits		5,994,092
Unbilled	2,032,182				
Accrued Interest Receivable	4,739,367				
Funds Held by Trustee	7,751,550				
		240,227,895			
Deferred Charges and Other Assets		7,129,238			
Total Assets		$1,700,131,690	Total Liabilities		$1,700,131,690

The accompanying notes are an integral part of these statements.

EXHIBIT II

STATE WATER RESOURCES DEVELOPMENT SYSTEM STATEMENT OF NET REVENUES AND THEIR APPLICATIONS, CUMULATIVE TO DECEMBER 31, 1968 (NOTES 4 AND 10)

ITEM	PRIOR YEARS THROUGH DEC. 31, 1967	CURRENT YEAR 1968	TOTAL THROUGH DEC. 31, 1968
REVENUES:			
Capital Cost Reimbursements	$ 3,782,180	$ 4,390,313	$ 8,172,493
Interest on Capital Costs	18,637,341	15,890,799	34,528,140
Operations and Maintenance			
Water Contractor Payments	3,688,689	5,894,355	9,583,044
General Fund Reimbursements	-0-	215,931	215,931
Federal Reimbursements	-0-	614,407	614,407
Sales of Electrical Energy	-0-	2,115,919	2,115,919
Federal Flood Control Contributions	64,469,546	5,542,250	70,011,796
Appropriations for Non-Reimbursable Costs	5,000,000	11,044,480	16,044,480
Requested Excess Delivery Capability	5,662,264	6,787,774	12,450,038
Delivery Structures	939,595	144,360	1,083,955
Interest from Investments	22,668,156	7,598,774	30,266,930
Right-of-Way Rentals and Sales	5,547,079	633,258	6,180,337
Davis-Grunsky Loan Repayments	305,648	118,089	423,737
Other	228,468	20,644	249,112
Surplus Adjustments	252,679	-0-	252,679
Less: Income Credited to Capital Outlay	6,088,113	622,797	6,710,910
Total Revenues	$125,093,532	$ 60,388,556	$185,482,088
EXPENSES:			
Operation, Maintenance, and Power	$ 3,668,215	$ 6,555,185	$ 10,223,400
Provisions for Replacement	20,474	169,508	189,982
Interest:			
General Obligation Bonds	66,756,394	40,337,517	107,093,911
Revenue Bonds	-0-	6,787,975	6,787,975
Total Expenses	$ 70,445,083	$ 53,850,185	$124,295,268
Net Revenues	$ 54,648,449	$ 6,538,371	$ 61,186,820
Net Revenues Used or Available For:			
Construction of Project Facilities	$ 11,703,507	$ -1,876,386	$ 9,827,121
Reserve for Construction of Project Facilities	-0-	30,000,000	30,000,000
Reserve for Bond Interest	42,944,942	-21,585,243	21,359,699
Total	$ 54,648,449	$ 6,538,371	$ 61,186,820

EXHIBIT III

STATE WATER RESOURCES DEVELOPMENT SYSTEM STATEMENT OF SOURCES AND APPLICATION OF FUNDS, CUMULATIVE TO DECEMBER 31, 1968

ITEM	PRIOR YEARS THROUGH DEC. 31, 1967	CURRENT YEAR 1968	TOTAL THROUGH DEC. 31, 1968
SOURCE:			
Net Revenues	$ 54,648,449	$ 6,538,371	$ 61,186,820
Sales of Water Resources Development General Obligation Bonds	950,000,000	200,000,000	1,150,000,000
Sales of Central Valley Project Revenue Bonds	-0-	150,000,000	150,000,000
Advances from California Water Fund	174,912,524	-599,058	174,313,466
Grants in Aid of Construction:			
Prior Appropriations	98,868,892	-1,947,634	96,921,258
Tideland Oil and Gas Appropriations		21,585,658	21,585,658
Advance Payments from Water Service Contractors and Project Deposits	20,958,937	-966,819	19,992,118
Total	$1,299,388,802	$374,610,518	$1,673,999,320
APPLICATION:			
Net Additions to Property, Plant and Equipment	$1,166,026,678	$271,869,604	$1,437,896,282
Davis-Grunsky Program			
Loans	2,843,477	3,269,781	6,113,258
Grants	21,302,910	11,637,368	32,940,278
Administrative Expenses	2,868,564	612,481	3,481,045
Working Capital Advances - Equipment	2,985,058	1,336,026	4,321,084
Funds Held by Trustee	-0-	12,195,483	12,195,483
Increase in Net Current Assets, Other than Funds Held by Trustee	97,553,499	72,369,153	169,922,652
Increase in Deferred Charges and Other Assets	5,808,616	1,320,622	7,129,238
Total	$1,299,388,802	$374,610,518	$1,673,999,320

NOTES TO FINANCIAL STATEMENTS

1. Basis of Financial Statements

The accounting and the financial statements of the State Water Resources Development System are based on the principles and requirements of the Burns-Porter Act, the Central Valley Project Revenue Bonds, Oroville Division and the Central Valley Project Act, and other provisions of the California Water Code; and the Standard Provisions for Water Supply Contract and executed contracts related thereto.

The basic philosophy underlying these acts and contracts is that costs for construction and operation of the System be repaid by the beneficiaries of the System. Further details with regard to requirements for applications of funds and revenues are contained in Notes 4, 5, and 10.

2. Property, Plant, and Equipment

Property, plant, and equipment are recorded at cost, excluding interest during construction. Project costs are distributed to reaches and features of the Project and are subsequently allocated among project purposes in order to determine payments by beneficiaries. Such allocations are subject to adjustment in future years because the factors for calculating certain cost allocations have not been finalized.

The annual payments from project beneficiaries generally include charges for current maintenance of the facilities and for replacement deposits. Since there is adequate provision for maintaining the plant in full operating condition, the accumulated deposits for replacements are shown in the financial statements as a deduction from the property, plant, and equipment, in lieu of depreciation charges.

3. Funds Held by Trustee

The Department of Water Resources appointed the Bank of America N.T. & S.A., in San Francisco, California, as Trustee for its Central Valley Project Revenue Bonds. The Trustee is required by the Bond Resolution to establish and maintain funded reserves for: (1) interest; (2) principal amount of Serial Bonds becoming due; (3) sinking funds sufficient for the redemption of Term Bonds at maturity; and (4) general reserves to make good any deficiency in the Interest, Serial Maturity, or Sinking Fund Accounts, and to pay power operating expenses to the extent that the operating accounts are insufficient.

An analysis of receipts and disbursements by fund is presented below:

Fund	Balance December 31, 1967	Amount Transferred to Trustee by DWR	*plus:* Investment Income	Transfers	*less:* Debt Service	Balance December 31, 1968
Interest Fund	$ -0-	$15,503,100	$405,550	$ -0-	$3,875,775	$12,032,875
Serial Maturity Fund	-0-	-0-	-0-	-0-	-0-	-0-
Sinking Fund	-0-	-0-	-0-	-0-	-0-	-0-
General Reserve Fund	-0-	-0-	-0-	-0-	-0-	-0-
Additional Sinking Fund	-0-	-0-	-0-	-0-	-0-	-0-
Power Contract Reserve Fund	-0-	-0-	-0-	-0-	-0-	-0-
Subtotal	$ -0-	$15,503,100	$405,550	$ -0-	$3,875,775	$12,032,875
Funds in Transit						162,608
Total						$12,195,483
Classification						
Current						$ 7,751,550
Long-Term						4,443,933
Total						$12,195,483

Sources, purposes, and restrictions applicable to the funds are as follows:

a. Investments: Moneys held by the Trustee may be invested only in certificates of deposit secured by Federal Securities or in Federal Securities. All income from the investment of moneys in any fund maintained by the Trustee shall be credited to such fund.

b. Interest Fund: Revenue Bond proceeds sufficient to pay interest on bonds from their date through April 1, 1970, were placed in this fund. After April 1, 1970, semiannual allocations of power revenues sufficient to pay interest becoming due at the next interest payment date will be placed in this fund.

c. Serial Maturity Fund: Commencing in 1971 semiannual allocations of power revenues sufficient to pay the principal amount of Serial Bonds becoming due during the next 12-month period are placed in this fund.

d. Sinking Fund: Commencing in 1988 semiannual installments of power revenues as set forth in Supplemental Resolutions will be placed in this fund. Moneys in this fund shall be applied only to pay the principal amount of Term Bonds at maturity.

e. General Reserve Fund: The balance of all power revenues not allocated to the above funds and a one-time allocation of $1,650,000 of Federal Flood Control Contributions will be placed in this fund. Moneys in this fund shall be applied to make good any deficiency in the Interest, Serial Maturity, or Sinking Fund Accounts, and to pay power operating expenses to the extent that the operating accounts are insufficient.

f. Additional Sinking Fund: Excess revenues allocated to the General Reserve Fund and not required for the purposes of that fund will be transferred to this fund for the redemption of Term Bonds.

g. Power Contract Reserve Fund: Payments made by Pacific Gas and Electric Company after October 31, 1984, or payments received from a public power contractor or the State under a State Power Contract for positive entries in an energy adjustment account upon termination or statutory cancellation of a contract will be deposited in this fund. Moneys in this fund shall only be applied to make payments to power contractors for negative entries in an energy adjustment account under provisions of the Oroville-Thermalito Power Sale Contract.

4. Current Assets

Current assets are subject to certain applications according to their source and purpose. An analysis by fund and planned application is presented below:

Fund	Construction	Operation & Maintenance	Debt Service	Total
California Water Resources Development Bond Fund:				
Bond Proceeds Account	$106,954,118	$	$	$106,954,118
Revenue Account		2,379,423	3,441,311	5,820,734
Replacement Sinking Fund Account		189,982		189,982
Central Valley Water Project Construction Fund:				
Miscellaneous Receipts	34,803,800		41,739,489	76,543,289
Reimbursement Acoount	20,714,016			20,714,016
Construction Account	18,726,287			18,726,287
Operating Account		1,500,000		1,500,000
Central Valley Water Project Revenue Fund:				
Amount Available for Transfer to Trustee			2,027,919	2,027,919
Funds Held by Trustee			7,751,550	7,751,550
Total	$181,198,221	$4,069,405	$54,960,269	$240,227,895

Sources, purposes and restrictions applicable to the funds are as follows:

a. Bond Proceeds Account: Proceeds from sales of General Obligation Bonds, excluding premium and accrued interest received on such sales which are applied toward interest payments, are deposited in this account. Expenditures for construction of the State Water Resources Development System are made in part from this account.

b. Revenue Account: Payments from contracting agencies (other than certain advance payments) and other income received are deposited in this account. Expenditures from this account are subject to the following priorities under the Burns-Porter Act:

(1) Operation, maintenance, power and replacement costs;
(2) Principal and interest on General Obligation Bonds;
(3) Repayments to the California Water Fund for advances (see Note 7); and
(4) Construction of additional facilities.

c. Replacement Sinking Fund Account: Payments received for replacement costs are deposited and accumulated with interest in this account. Expenditures are limited to the acquisition of replacements.

d. Miscellaneous Receipts: Federal contributions received as reimbursements for the costs allocated to flood control, Federal Open-Space Land Grants, state contributions received as reimbursements for the cost of recreation, State grants in aid of construction from Tideland Oil and Gas Appropriations, certain advance payments from contractors, and interest from investments are deposited in this account. Expenditures for construction and interest on the General Obligation Bonds are made in part from this account.

e. Reimbursement Account: Revenue Bond proceeds to reimburse the State for expenditures made, prior to the date of delivery of Revenue Bonds, for power construction costs of the Oroville Division, and interest from investments are deposited in this account. Expenditures for construction of the Project, excluding Oroville Division power costs, are made in part from this account.

f. Construction Account: Revenue Bond proceeds to pay the Oroville Division power construction costs, after the date of delivery of Revenue Bonds, and interest from investments are deposited in this account. On the first anniversary of the completion date, any balance not required for future payments of costs chargeable to this account shall be transferred to the Trustee for deposit in the Serial Maturity Account.

g. Operating Account: Revenue Bond proceeds to pay the Oroville Division power operating expenses for the first year of operations were deposited in this account. It is currently estimated that the Oroville Division Power Generation Facilities will become operational in April, 1969. On March 1, 1970, out of the balance not required for future payments of costs chargeable to this account, $222,000 shall be transferred to the Replacement Account and any balance up to $400,000 shall be transferred to the Operating Reserve Account. Any remaining balance on the first anniversary of the completion date shall be transferred to the Trustee for deposit in the Serial Maturity Account.

h. Amounts Available for Transfer to Trustee: This amount represents accrued power sales and interest earnings that will be transferred to the Trustee when received. They are subject to the purposes and restrictions outlined in Note 3.

i. Funds Held by Trustee: (See Note 3.)

5. Water Resources Development General Obligation Bonds

The Burns-Porter Act authorized the issuance of General Obligation Bonds in the amount of $1,750,000,000 for construction of the State Water Resources Development System. This amount includes $130,000,000 for financial assistance to local agencies as provided in the Davis-Grunsky Act. The use of the continuing appropriation of the California Water Fund pursuant to the Burns-Porter Act supplements the bond authorization. To the extent California Water Fund money is used for construction of the State Water Facilities as defined in the Burns-Porter Act in lieu of bond proceeds, an equal amount of bond authorization is set aside to be used only for the construction of facilities additional to the State Water Facilities.

As a result of bonds issued and California Water Fund expenditures, the status of bond authorizations as of December 31, 1968, is summarized below:

Fund	State Water Facilities	Davis-Grunsky Program	Additional Facilities	Total
Bonds Authorized	$1,620,000,000	$130,000,000	$ -0-	$1,750,000,000
Less:				
Bonds Issued	1,130,102,683	14,869,237	5,028,080	1,150,000,000
California Water Fund Advances	146,613,736	27,699,730	-174,313,466	
Balance Available	$ 343,283,581	$ 87,431,033	$169,285,386	$ 600,000,000

General Obligation Bonds outstanding as of December 31, 1968, with their net interest rates and maturity dates are shown below:

Date of Issue	Series	Amount	Net Interest Rate	Maturity Date
3/1/1964	A	$ 100,000,000	3.520%	9/1/1973-2013
5/1/1964	B	50,000,000	3.533%	5/1/1974-2014
11/1/1964	C	100,000,000	3.585%	11/1/1974-2014
3/1/1965	D	100,000,000	3.499%	3/1/1975-2015
12/1/1965	E	100,000,000	3.717%	12/1/1975-2015
7/1/1966	F	100,000,000	3.927%	7/1/1976-2016
12/1/1966	G	100,000,000	4.110%	12/1/1976-2016
4/1/1967	H	100,000,000	3.695%	4/1/1977-2017
8/1/1967	J	100,000,000	4.093%	8/1/1977-2017
11/1/1967	K	100,000,000	4.685%	11/1/1977-2017
8/1/1968	L	100,000,000	4.772%	8/1/1978-2018
10/1/1968	M	100,000,000	4.860%	10/1/1978-2018
Total		$1,150,000,000	4.021%	

6. Central Valley Project Revenue Bonds

The Department of Water Resources on March 19, 1968, adopted "Resolution No. DWR-OD2-Creating an Issue of State of California, Department of Water Resources Central Valley Revenue Bonds, Oroville Division". This Resolution was adopted pursuant to the provisions of the Central Valley Project Act, and authorized the issuance of Revenue Bonds in the amount of $261,169,000. Proceeds from the sales of bonds will be used to pay those costs apportioned to the power facilities of the Oroville Division, power operating expenses for first year of operation, and interest on bonds from date of issue through first year of operation. All other payments of principal and interest are secured by a first and direct charge and lien upon revenues derived from the sale of power to California electrical utility companies. Annual debt service requirements cannot exceed $14,410,000 in any calendar year. Payment of bond service will not constitute a debt, liability, or obligation of the State of California.

Revenue Bonds outstanding as of December 31, 1968, with their net interest rates and maturity dates, are shown below:

Date of Issue	Series	Amount	Net Interest Rates	Maturity Dates
4/1/68	A	$150,000,000	5.197%	4/1/1972-2018

7. Advances from California Water Fund

Advances from the California Water Fund represent expenditures financed from this fund pursuant to the Burns-Porter Act appropriation, which excludes amounts covered by prior appropriations. Such advances will be repaid from the third priority of system revenues, as shown in Note 4. Repayments are not expected to begin until the latter part of the presently programmed construction period.

8. Grants in Aid of Construction

Grants in aid of construction consist of construction expenditures financed from the Investment Fund, California Water Fund, and General Fund from special appropriations made prior to the effective date of the Burns-Porter Act (November 8, 1960), and state grants from Tideland Oil and Gas Appropriations. These amounts are not required to be repaid to the fund from which they were appropriated. Administrative expenses and grants made to agencies under the Davis-Grunsky Local Project Assistance Program, which totaled $36,421,323 on December 31, 1968, are deducted in the financial statements from grants in aid of construction.

9. Construction Contract Commitments

The Department of Water Resources has entered into long-term construction contract commitments for the State Water Facilities. The uncompleted portion of these commitments was approximately $310,500,000 as of December 31, 1968.

10. Revenues

The State has entered into long-term contracts with 31 local agencies for a project water supply. These contracts provide for payments by the agencies calculated to reimburse the State, over the project repayment period, for all capital costs allocated to the purpose of water supply in excess of those net revenues to be realized from Oroville-Thermalito Power sales, with interest thereon. Annual operation and maintenance costs of the System are recovered generally as incurred and these annual charges also include provisions for future plant replacements. Statements of charges to water supply contractors issued in June, 1968, and due in 1969, amounted to $43,055,326.

The Department of Water Resources entered into a contract with Pacific Gas and Electric Co., Southern California Edison Company, and San Diego Gas and Electric Co. for the sale of all electrical energy generated by the Oroville Division Generation Facilities.

Commencing on full-operation date, the companies will pay the Department $8,075,000 semiannually until the termination of the contract. The obligation of the companies to make these payments is not dependent upon the ability of the Department to deliver or the ability of the companies to take Oroville-Thermalito power, nor can the companies offset against this obligation any moneys which may be owed them by the Department.

In 1968 the Department sold 190 million kilowatt-hours under these letter agreements, resulting in revenues of $963,130, and banked 426 million kilowatt-hours in the Energy Adjustment Account, which has a value of $1,064,789.

Costs allocated to flood control are repaid by the Federal Government. The Davis-Dolwig Act provides for the State to repay the project costs allocated to recreation and fish and wildlife enhancement. It is expected that provision will be made in the future for repayment of costs incurred for planning and preliminary work in connection with the San Joaquin Facilities.

STATE WATER RESOURCES DEVELOPMENT SYSTEM: SCHEDULE A

CHANGES IN PROPERTY, PLANT, AND EQUIPMENT FOR YEAR ENDED DECEMBER 31, 1968

Project Facility	Balance, December 1967	Additions: Net of Income Credited to Construction	Deductions for Retirements and Sales	Balance, December 1968
Middle Fork Eel River Development	$ 3,968,063	$ 1,214,273	$ 0	$ 5,182,336
Upper Feather Division	13,376,451	-69,837	0	13,306,614
Oroville Division	457,419,390	24,114,525	65,006	481,468,909
Delta Facilities	10,563,450	2,233,678	0	12,797,128
North Bay Aqueduct	2,711,737	873,368	0	3,585,105
South Bay Aqueduct	56,784,331	6,422,038	0	63,206,369
California Aqueduct				
North San Joaquin Division	132,282,514	11,098,859	21,701	143,359,672
San Luis Division	167,601,193	2,762,811	0	170,364,004
South San Joaquin Division	89,782,695	53,572,758	39,477	143,315,976
Tehachapi Division	76,034,002	48,564,143	350	124,597,795
Mojave Division	28,201,815	23,373,886	34,140	51,541,561
Santa Ana Division	17,437,766	18,593,337	0	36,031,103
West Branch	89,970,001	63,601,199	11,756	153,559,444
Coastal Branch	10,696,471	1,978,636	0	12,675,107
San Joaquin Drainage Facilities	5,450,294	435,350	0	5,885,644
Unassigned	3,766,979	13,442,518	0	17,209,497
Subtotal	$1,166,047,152	$272,211,542	$172,430	$1,438,086,264
Less: Allowance for Replacement	20,474	169,508	0	189,982
Total	$1,166,026,678	$272,042,034	$172,430	$1,437,896,282

STATE WATER RESOURCES DEVELOPMENT SYSTEM: SCHEDULE B

COMPOSITION OF PROPERTY, PLANT, AND EQUIPMENT, DECEMBER 31, 1968 (a

Project Facility	Water Conservation (Including Oroville Power)	Water Transportation	Recreation	Flood Control	Other Purposes	Total Through December 1968	Projected Future Costs (Bulletin 132-69)	Total
Middle Fork Eel River Development	$ 5,109,563	$	$ 72,773	$	$	$ 5,182,336	$ 157,677,000	$ 162,859,000
Upper Feather Division	1,829,678	63,013	11,413,923			13,306,614	14,012,000	27,319,000
Oroville Division	413,798,341	183,549	1,957,103	65,529,916		481,468,909	15,966,000	497,435,000
Delta Facilities	8,708,313		4,088,815			12,797,128	135,974,000	148,771,000
North Bay Aqueduct		3,585,105				3,585,105	12,930,000	16,515,000
South Bay Aqueduct		44,055,161	13,693,717	5,457,491		63,206,369	3,186,000	66,392,000
California Aqueduct								
North San Joaquin Division	23,564,220	113,584,839	6,210,613			143,359,672	25,093,000	168,453,000
San Luis Division	89,031,038	70,636,424	10,696,542			170,364,004	30,065,000	200,429,000
South San Joaquin Division		138,889,485	4,426,491			143,315,976	114,561,000	257,877,000
Tehachapi Division		120,865,807	3,731,988			124,597,795	155,927,000	280,525,000
Mojave Division		49,936,060	1,605,501			51,541,561	175,911,000	227,453,000
Santa Ana Division		34,659,760	1,371,343			36,031,103	162,085,000	198,116,000
West Branch		147,758,007	5,801,437			153,559,444	165,667,000	319,226,000
Coastal Branch		12,675,107				12,675,107	65,790,000	78,465,000
San Joaquin Drainage Facilities					5,885,644	5,885,644	1,888,000	7,774,000
Unassigned					17,209,497	17,209,497	-9,075,000	8,134,000
Total	$542,041,153	$736,892,317	$65,070,246	$70,987,407	$23,095,141	$1,438,086,264	$1,227,657,000	$2,665,743,000

a) See Note 2.

STATE WATER RESOURCES DEVELOPMENT SYSTEM: SCHEDULE C

STATEMENT OF ACTUAL AND PROJECTED NET REVENUES AND THEIR APPLICATIONS, DECEMBER 31, 1968

(in thousands of dollars)

	Prior Years Through December 31, 1967	Current Year 1968	Total Through December 31, 1968	Projected Future 1969-2035	Total to End of Project Repayment Period
REVENUES:					
Capital Cost Reimbursements	$ 3,782	$ 4,390	$ 8,172	$ 2,696,119	$ 2,704,291
Interest on Capital Costs	18,637	15,891	34,528	3,784,178	3,818,706
Operations and Maintenance:					
Water Contractor Payments	3,689	5,894	9,583	3,152,790	3,162,373
Federal Reimbursements	0	614	614	120,368	120,982
General Fund Reimbursements	0	216	216	136,948	137,164
Sales of Electrical Energy	0	2,116	2,116	1,104,381	1,106,497
Federal Flood Control Contributions	64,470	5,542	70,012	6,558	76,570
Appropriations for Non-Reimbursable Costs	5,000	11,045	16,045	168,092	184,137
Cooperative Power Development	0	0	0	41,197	41,197
Enlargement of California Aqueduct	5,662	6,788	12,450	48,706	61,156
Delivery Structures	940	144	1,084	11,361	12,445
Interest from Investments	22,668	7,599	30,267	29,488	59,755
Right-of-Way Rentals and Sales	5,547	633	6,180	- 1,003	5,177
Davis-Grunsky Loan Repayments	306	118	424	46,248	46,672
Other	228	21	249	- 2,649	- 2,400
Surplus Adjustments	253	0	253	1,301	1,554
Less, Income Credited to Capital Outlay	6,088	623	6,711	0	6,711
Total Revenues	$125,094	$ 60,388	$185,482	$11,344,083	$11,529,565
EXPENSES:					
Operations and Maintenance	$ 3,668	$ 6,555	$ 10,223	$ 3,370,033	3,380,256
Provisions for Replacement	21	169	190	56,479	56,669
Interest on Bonds:					
General Obligation Bonds	66,756	40,338	107,094	2,558,554	2,665,648
Revenue Bonds	0	6,788	6,788	790,784	797,572
Total Expenses	$ 70,445	$ 53,850	$124,295	$ 6,775,850	$ 6,900,145
NET REVENUES	$ 54,649	$ 6,538	$ 61,187	$ 4,568,233	$ 4,629,420
NET REVENUES USED OR AVAILABLE FOR:					
Construction of Project Facilities	$ 11,704	$- 1,876	$ 9,828	$ 240,139	$ 249,967
Bond Principal Payments:					
General Obligation Bonds	0	0	0	1,734,150	1,734,150
Revenue Bonds	0	0	0	210,300	210,300
Repayment of California Water Fund	0	0	0	1,174,590	1,174,590
Amounts Available for Future Conservation Facilities	0	30,000	30,000	1,230,413	1,260,413
Reserve for Bond Interest	42,945	-21,586	21,359	- 21,359	0
NET REVENUES	$ 54,649	$ 6,538	$ 61,187	$ 4,568,233	$ 4,629,420

APPENDIX B

DATA AND COMPUTATIONS USED IN DETERMINING WATER CHARGES FOR 1970

CONTENTS

FIGURES

APPENDIX B

DATA AND COMPUTATIONS USED IN DETERMINING WATER CHARGES FOR 1970

Those statements of charges to be furnished by the State on or before July 1 of each year are described in Article 29(e) of the "Standard Provisions for Water Supply Contract", which provides that:

". . . All such statements shall be accompanied by the latest revised copies of the document amendatory to Article 22 and of Tables B, C, D, E, F, and G of this contract, together with such other data and computations used by the State in determining the amounts of the above charges as the State deems appropriate."

Compliance with Article 29(e) requires a comprehensive annual redetermination of all water supply aspects of the State Water Project for the entire project repayment period. This annual redetermination is specifically provided for in Article 22(f), concerning the Delta Water Charge, and in Article 28, with regard to the Transportation Charge.

This appendix constitutes such a redetermination for the substantiation of water charges to be paid by contractors during calendar year 1970.

Character of Water Charges

Most of the facilities of the State Water Project are necessary either for the conservation and development of a project water supply in and above the Sacramento–San Joaquin Delta or for the conveyance of such a supply to project service areas throughout the State. The Standard Provisions classify these facilities, respectively, as "project conservation facilities" and "project transportation facilities".

Project Conservation Facilities

- Frenchman Dam and Lake
  Grizzly Valley Dam and Lake Davis
- Oroville Dam and Lake Oroville
- Oroville Power Facilities
- Delta Facilities (Peripheral Canal)
- Middle Fork Eel River Development
- A portion of the California Aqueduct (all of San Luis Dam, Reservoir, and Pumping-Generating Plant, and a portion of the works between the Delta Facilities and Dos Amigos Pumping Plant)

Project Transportation Facilities

- Grizzly Valley Pipeline
- North Bay Aqueduct
- South Bay Aqueduct (including Del Valle Dam and Lake Del Valle)
- The remaining portion of the California Aqueduct (the remaining portion of the works between the Delta Facilities and Dos Amigos Pumping Plant and all works south from there, including Dos Amigos Pumping Plant and the project dams and lakes in Southern California)

The Standard Provisions provide for two basic annual charges for project water:

- The Delta Water Charge, which will be paid by all contractors and which will return all reimbursable costs of the project conservation facilities to the State.
- The Transportation Charge, in addition to the Delta Water Charge, which will be paid by those contractors served by the project transportation facilities and which will return all reimbursable costs of such facilities to the State.

The Delta Water Charge is essentially a unit commodity assessment on each acre-foot of project water the contractors are entitled to receive under their contracts. The unit charge is calculated so that, if applied to each acre-foot of all such entitlements for the remainder of the project repayment period, all outstanding reimbursable costs of the project conservation facilities will be returned to the State, with appropriate interest, by the end of the period. Reimbursable costs include those allocated to water supply and power generation. Outstanding reimbursable costs exclude (a) those returned to the State through actual payments of the Delta Water Charge and (b) all those returned and to be returned to the State through sales of power generated in connection with the project conservation facilities.

Article 22(g) of the Standard Provisions requires that the Delta Water Charge be adjusted, as necessary, to reimburse the costs of those supplemental conservation facilities constructed in the future to supply "supplemental water" in addition to the "minimum

project yield" (4,230,000 acre-feet annually). Article 22(g) further provides that the redetermined Charge will be paid both by contractors for "supplemental water" and by contractors supplied by the present "minimum project yield". Thus, the Delta Water Charge is "open-ended".

The Transportation Charge is essentially an assessment for that use of the project transportation facilities required to deliver water provided within the "minimum project yield" from points in and above the Sacramento–San Joaquin Delta to the vicinity of each contractor's turnout. Generally, the annual charge represents each contractor's proportionate share of the reimbursable costs for constructing and operating the project transportation facilities. Certain variations are allowed in the method of amortizing each contractor's share of reimbursable capital costs. The contractor's share of reimbursable operating costs is repaid essentially in the year such costs are incurred by the State.

Composition of Water Charges

The Delta Water Charge and the Transportation Charge each consists of three components:

A capital cost component, which will return to the State all reimbursable capital costs.

- The capital cost component is paid in two semiannual installments, due January 1 and July 1 of each year, on the basis of statements furnished by the State on or before July 1 of the preceding year.

- A minimum operation, maintenance, power, and replacement (OMP&R) component, which will return to the State all reimbursable operating costs that are incurred irrespective of water quantities actually delivered to the contractors.

- The minimum OMP&R component is paid in 12 equal installments, due the first of each month, also on the basis of statements furnished by the State on or before July 1 of the preceding year.

- A variable OMP&R component, which will return to the State all reimbursable operating costs that are incurred in amounts that depend on, and vary with, water quantities actually delivered to the contractors.

- The variable OMP&R component is paid in varying monthly amounts, due the 15th of the second month following actual water delivery, on the basis of a unit charge per acre-foot established on or before July 1 of the preceding year and applied to actual monthly delivery quantities as determined by the State on or before the 15th of the month following actual delivery.

The time and method of payment are the same for corresponding components of the Delta Water Charge and the Transportation Charge:

Scope of Redetermination

This redetermination covers all Delta Water Charges and Transportation Charges for each contractor for each year of the project repayment period. It is based on all aspects of the State Water Project as known on December 31, 1968.

Such redetermined Transportation Charges that are applicable to prior years through 1969 do not equal those amounts actually paid by contractors under statements previously furnished by the State. The amounts of overpayment or underpayment (the differences between the redetermined amounts and those under statements previously furnished) are accumulated, with appropriate interest credits or debits, and are deducted from or added to the respective components of the Transportation Charge for 1970. These adjustment computations are shown in the attachments accompanying the statement of charges furnished to each contractor and are reflected in the revised copies of Tables C through G of the contract, also furnished with the statement of charges.

In accordance with Article 22(b) of the Standard Provisions, the unit Delta Water Charge is established as $3.50 per acre-foot of entitlement through December 31, 1969. The Delta Water Charge to be paid in 1970 is based on a unit charge determined in accordance with Article 22(f). This determination is described herein. The Standard Provisions do not require a projection of future annual Delta Water Charges, as is required for Transportation Charges. However, this appendix includes a projection of Delta Water Charges for the entire project repayment period so as to enable a complete evaluation of the two basic water charges under all long-term contracts.

This redetermination generally excludes those charges associated with project water service other than the Delta Water Charge and the Transportation Charge. These other charges (and the manner by which such charges are treated herein) are:

- Advances of funds for additional costs to be incurred by the State for constructing excess capacity, as requested by certain contractors pursuant to Article 12(b) of the Standard Provisions. (Information on required advances is included herein because these charges are covered in the July 1 statements. However, any advances which are projected to be in excess of additional capital costs for completed aqueduct reaches have not been credited to the future capital cost components of those Transportation Charges projected herein.)

- Advances of funds for those delivery structures constructed by the State pursuant to Article 10(d) of the Standard Provisions. (Partial information is included herein concerning the actual and projected capital costs of such delivery structures constructed by the State. Statements concerning these costs, and data in support of such statements, are furnished to the appropriate contractors at various times and are not part of the July 1 statements.)

- Payments of the surcharge on that project water applied to "excess lands" pursuant to Article 30(d) of the Standard Provisions. [By contract amendments, a moratorium has been declared removing the effectiveness of the surcharge and surcharge credit provisions on project water deliveries for the period 1967 through 1969.] (109)

- Payments for the sale and service of surplus project water under contracts executed pursuant to Article 21 of the Standard Provisions and/or under the so-called "Agricultural and Ground Water Replenishment" provisions of the contracts. (This redetermination does not include information concerning the future sale and service of surplus water because the Department is currently striving to realign the program. However, the redetermined variable OMP&R components for 1968 include charges for such costs allocated to surplus water deliveries during that year, since surplus water was marketed during 1968 at the same unit variable OMP&R components as entitlement water.(110)

Organization of Information

The computational procedure and relationships among summary tabulations for this redetermination are outlined on Figure B-1. All tables indicated thereon are bound at the end of this appendix——all figures are adjacent to the references to them in the narrative.

Bases for Allocating Reimbursable Costs Among Contractors

Reimbursable costs of the project conservation facilities are not allocated directly among contractors because, conceptually, the Delta Water Charge is a unit commodity charge rather than a use-of-facilities charge. Therefore, this section concerns only how the reimbursable costs of aqueduct reaches of the project transportation facilities are allocated among contractors for determining the Transportation Charge.

Allocation of the reimbursable costs of aqueduct reaches among contractors is based on two general applications of the proportionate-use-of-facilities method:

Allocation of capital costs and minimum OMP&R costs of each reach is based on the proportionate maximum annual use of each reach by the respective contractors under planned conditions of full project development.

- Allocation of variable OMP&R costs of each reach is based on the proportionate actual annual use of each aqueduct reach by the respective contractors.

Planned Maximum Annual Use of Aqueduct Reaches

The specific application of the proportionate-use-of-facilities method for allocating reimbursable capital and minimum operating costs among contractors is set forth in Article 24(b) of the Standard Provisions:

". . . The measure of the proportionate use of each contractor of each reach shall be the average of the following two ratios: (i) the ratio of the contractor's maximum annual entitlement to be delivered from or through the reach to the total of the maximum annual entitlements of all contractors to be delivered from or through the reach; and (ii) the ratio of the capacity provided in the reach for the transport and delivery of project water to the contractor to the total capacity provided in the reach for the transport and delivery of project water to all contractors served from or through the reach...."

Aqueduct Reaches

Table B-1 shows the current designation of each aqueduct reach and summarizes information on contractor entitlements and reach capacities.

The current designations of aqueduct reaches differ somewhat from those shown in Article 23 or Table I of the respective contracts. These differences reflect modifications required under subsequently executed contracts and changes in the locations of major delivery

(109) See pp. 26-27

(110) See pp. 74-75, Bulletin 132-68.

structures requested pursuant to Article 10(a) of the Standard Provisions. Furthermore, reach nomenclature has been revised in certain instances to describe reach termini more accurately and to reflect route modifications.

The current designations of aqueduct reaches are the same as shown in last year's bulletin.

Maximum Deliveries From Each Reach

The maximum annual entitlement to be delivered to each contractor and the buildup in annual entitlements to the maximum are established in Table A of each contract. However, the portions of each contractor's maximum annual entitlement to be delivered from each aqueduct reach are not contractually specified. The maximum annual amounts to be delivered from each reach, as shown in Table B-1, are based on contractor requests that have been approved by the Department. These reach amounts are the same as shown in last year's bulletin.

The maximum monthly quantity that the State is obligated to deliver to each contractor, expressed as a percentage of that contractor's annual entitlements (also shown in Table B-1), is set forth in Article 12(b) of the Standard Provisions or in special provisions of the contracts.

Total Capacity Provided for Water Supply

The reach conveyance capacity provided for delivery of water to each contractor does not necessarily correspond with maximum monthly delivery capabilities provided for by the respective contracts. Pursuant to Article 17(b) of the Standard Provisions, regulatory storage reservoirs included in the project transportation facilities may be used in conjunction with conveyance capacity provided in those facilities for the delivery of maximum monthly amounts.

Under the planned mode of aqueduct operations, annual entitlements destined for delivery to the respective contractors will be conveyed:

- At varying rates of flow corresponding to the monthly demands for project water for those contractors in the North Bay area and the San Joaquin Valley.

- At uniform rates of flow, regulated to monthly demands for project water by storage reservoirs within the respective service areas, for those contractors within the Central Coastal and Southern California areas (other than contractors to be served by Silverwood Lake).

- Partially at uniform flows, regulated to monthly demands for project water by reservoir storage, and partially at varying rates of flow corresponding to monthly demands, for those South Bay and Southern California contractors to be served by Lake Del Valle and Silverwood Lake storage, respectively.

In addition, the total capacity provided in each aqueduct reach for delivery of water to the contractors includes that required to compensate for:

- Water losses due to evaporation and seepage from that reach and from all reaches down-aqueduct therefrom.

- Scheduled and unscheduled outages of the aqueduct system.

- Disruption of flows, which would otherwise be conveyed at uniform rates to regulatory storage reservoirs, so that project water may be delivered at varying rates of flow from delivery structures up-aqueduct from such reservoirs (necessitating the provision of "compensating regulation capacity").

Furthermore, certain contractors have requested "excess capacity" in specified aqueduct reaches pursuant to a procedure contained in Article 12(b) of the Standard Provisions—subject to the advance of funds, in accordance with Article 24(d), for the additional costs incurred by the Department for constructing such capacity.

The design capacity of certain reaches exceeds the minimum capacity necessary for the delivery of water to contractors. Such additional capacity is required (a) for conveying water consumed in project-associated recreation developments and (b) in rounding total theoretical requirements upward to even increments of reach capacity due to practical design limitations.

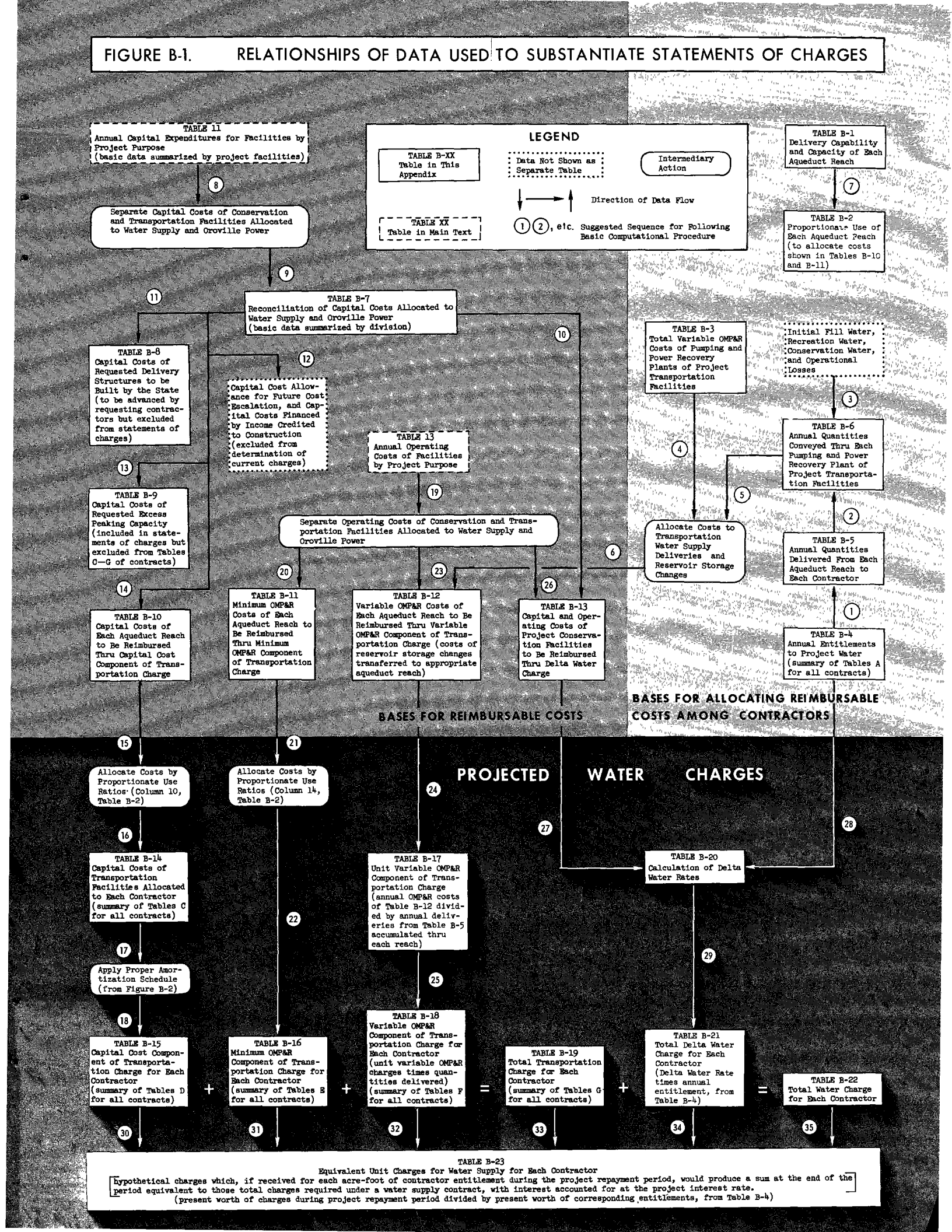
The reach capacities summarized in Table B-1 are the same as shown in last year's bulletin.

Proportionate Use of Capacity by Water Supply Contractors

The capacity included in each reach for the delivery of water to each contractor is shown in Table B-2, together with associated maximum annual water quantities.

The maximum use of aqueduct reaches for distributing reimbursable capital costs among contractors is shown in Column 8, and for distributing mimimum OMP&R costs, in Column 12. The capacities summarized in Column 12 include requested "excess capacity", while those summarized in Column 8 do not. Pursuant to Article 24(d) of the Standard Provisions, all additional capital costs (commonly referred to as "incremental costs") to be incurred for constructing excess capacity in aqueduct reaches will be borne by the requesting contractors. Therefore, excess capacity does not affect proportionate-use allocations of capital costs among water supply contractors. Pursuant to those contract amendments which specifically provide for requested excess capacity, however, all minimum OMP&R costs of aqueduct reaches which contain such capacity are allocated among contractors on the basis of proportionate-use factors which account for such excess capacity in the common denominator.

FIGURE B-1. RELATIONSHIPS OF DATA USED TO SUBSTANTIATE STATEMENTS OF CHARGES



The reach capacities and associated water quantities shown distributed among contractors in Table B-2 are based on procedures contained in Settlement Letter No. 3.(111)

One procedure covered in Settlement Letter No. 3 concerns the dual storage-conveyance use of reservoirs included in the project transportation facilities. Generally, the proportionate use of reservoir storage will be based solely on storage capacities provided therein for delivery of water to each contractor. In special cases where a reservoir also performs a conveyance function, use of the reservoir for conveying deliveries will be taken as a proportionate share (based on conveyance capacities) of the estimated costs of the least expensive alternative means for transporting water through the terrain to be occupied by the reservoir. Under this special procedure, the total of the reimbursable costs of the storage capacity and the estimated costs of the alternative means for transporting water are proportionately reduced, for allocation purposes, so as to equal the reimbursable costs of the storage capacity. (In other words, the estimated savings to be realized from construction of a joint storage-conveyance facility are proportionately distributed between the costs of the two functions.)

Pyramid, Castaic, and Silverwood Lakes will each perform conveyance functions. Comparable preliminary estimates of the capital costs of these reservoirs, and of the alternative means for conveying water through the terrain to be occupied by the reservoirs (pipelines, in all three cases), are shown in the following tabulation. The tabulation also summarizes a preliminary determination of ratios that can be applied to the estimated reimbursable costs of the respective reservoirs to separate the costs of storage and conveyance functions.

Facility	Pyramid	Castaic	Silverwood
	(in thousands of dollars)		
Dam and Reservoir:			
Construction costs	31,411	103,517	36,868
Present worth of construction costs (a	29,123	103,571	35,529
Alternative pipeline:			
Construction costs	9,140	16,389	5,896
Present worth of construction costs (a	7,807	15,146	5,238
Portion (ratio) of actual reimbursable costs of the dam and reservoir for:			
Use of reservoir for storage	$\frac{29,123}{29,123 + 7,807}$ = 0.78860005	$\frac{103,577}{103,571 + 15,146}$ = 0.87241928	$\frac{35,529}{35,529 + 5,238}$ = 0.12848628
Use of reservoir for conveyance	$\frac{7,807}{29,123 + 7,807}$ = 0.21139995	$\frac{15,146}{103,571 + 15,146}$ = 0.12758072	$\frac{5,238}{35,529 + 5,238}$ = 0.12848628
Total use	1.00000000	1.00000000	1.00000000

a) Present worths in 1968 at 4.021 percent interest. In the final determination of the ratios, present worths of both capital and operating costs would be used.

Basis for Variable Annual Use of Facilities

Under the Department's present procedures, variable OMP&R costs (including the value of power recovery generation as negative cost) are incurred only in those aqueduct reaches which contain pumping and/or power recovery plants. For cost allocation and repayment, however, portions of such costs are transferred (a) to aqueduct reaches downstream from reaches which include such plants and (b) to charge components other than the variable OMP&R components paid by water contractors.

Allocation Procedure

Actual annual water quantities conveyed through each aqueduct pumping or power recovery plant form the original basis for proportionate use allocations of variable OMP&R costs. The annual water quantities so conveyed perform several specific functions. These functions, and the treatment of variable OMP&R costs of each pumping and power recovery plant allocated thereto, are:

(111) Letters from W. R. Gianelli to the responsible officer of each contracting agency, "Proportionate Use Cost Allocations Pursuant to Water Supply Contract Article 24(b)", May 9, 1967. (See p. 214, Bulletin 132-68.)

1. Quantities Made Available to Contractors From Downstream Delivery Structures

The costs allocated to such quantities constitute the variable OMP&R costs of the reach which includes the plant and are reimbursable by the contractors so served. Such allocated costs are, in turn, suballocated among the water contractors based upon the annual quantities delivered to each respective contractor.

2. Quantities Required to Initially Fill Downstream Aqueduct Reaches and Reservoirs to Operational Levels

The costs allocated to such quantities are transferred to the capital costs of the respective downstream reaches and reservoirs so filled.
(Under present procedures, reservoirs are initially filled as rapidly as the availability of offpeak conveyance capacity permits. The initial fill quantities for a reservoir are determined as those cumulative net annual storage accretions which first equal the gross storage capacity of the reservoir.)

3. Quantities Consumed in Downstream Project-Associated Recreation Developments

The costs allocated to such quantities are transferred directly to the total joint costs of the Project allocated to recreation and are nonreimbursable by the water contractors.

4. Quantities Subsequently Lost Through Evaporation and Seepage From All Downstream Reaches

The costs allocated to such quantities are transferred to the minimum OMP&R costs of the downstream reaches from which such quantities are lost.

5. Quantities Placed in Downstream Reservoir Storage Subsequent to the Initial Fill of Such Storage and Delivered to Contractors in Subsequent Years

The costs allocated to such quantities are transferred to the variable OMP&R costs of the respective downstream reservoirs.

Under the procedure described in item 5, variable OMP&R costs are established for those reaches which include reservoirs. The same procedure outlined above for aqueduct pumping and power recovery plants is repeated for each reservoir of the project transportation facilities, based on:

- The total variable OMP&R costs which are allocated to conveyance of the annual storage accretion through all upstream pumping and power recovery plants; and

- The respective quantities of water conveyed from or through the reservoir during the year such storage accretion occurs.

Thus, the total variable OMP&R costs reimbursed by those contractors who receive deliveries from or through an aqueduct reservoir include a proportionate share of such costs for the reservoir, as well as of such costs for all upstream pumping and power recovery plants.

The above items generally pertain to the treatment of variable OMP&R costs for aqueduct transportation facilities. The costs of the Delta Pumping Plant are allocated between project transportation and conservation facilities. The San Luis Pumping-Generating Plant is classified as a project conservation facility. Special treatment is required for all variable-type costs incurred in the San Luis Pumping-Generating Plant and such costs incurred in the Delta Pumping Plant which are allocated to water conservation.

Under present procedures, the following variable-type costs are transferred to the minimum OMP&R costs of San Luis Reservoir:

- Variable OMP&R costs of the Delta Pumping Plant which are allocated, by the method previously outlined to quantities that compensate for losses due to evaporation and seepage from San Luis Reservoir (and the portion of the Aqueduct allocated to water conservation) and/or that cause a net annual accretion in San Luis Reservoir storage.

- All variable-type OMP&R costs (including power credits) of the San Luis Pumping-Generating Plant.

In those years when releases from San Luis Reservoir cause a net annual storage depletion to make deliveries to contractors downstream therefrom, a portion of the minimum OMP&R costs of the Reservoir is transferred to the transportation variable OMP&R costs of the Delta Pumping Plant. This transfer is in an amount equal to the variable OMP&R cost per acre-foot of delivery through the Delta Pumping Plant for that year, multiplied by the acre-feet of deliveries derived from San Luis Reservoir storage for that year.

Refinements to Previous Procedures

Present procedures concerning allocation of variable OMP&R costs reflect certain refinements to those used for previous redeterminations. These refinements, and reasons therefor, are

1. In previous redeterminations, all deliveries were assumed 1. In previous redeterminations, all deliveries were assumed to originate each year in the Delta. This assumption was an intentional expedient, since reservoir operation studies were quite tentative and since contractor payments were not then affected by reservoir storage changes. Under present procedures, provision is made for (a) allocation of annual transportation costs to reservoir storage accretions subsequent to initial fill, and (b) recovery of such costs by contractors served from reservoir storage. (Present procedures do not guarantee that the group of contractors which pay for costs associated with transporting storage accretions during a particular year will be the same group of contractors whose deliveries will be served from such storage in succeeding years. For such a guarantee, reimbursement of

operating costs would have to be carried over from one year to another. Deferred reimbursement of operating costs is not provided for by the Standard Provisions in regard to the Transportation Charge.)

2. In previous redeterminations, the following costs were classified as those to be reimbursed through the variable OMP&R component of the Delta Water Charge:

- All costs of power and energy consumed by operation of the San Luis Pumping-Generating Plant, together with credits for all power and energy generated therefrom (which credits more than offset costs on a long-term basis).

- A percentage of the costs of power capacity required for operation of the Delta Pumping Plant (the same percentage used to allocate capital costs of Reach 1 to conservation) and that portion of the costs of energy consumed by operation of the Plant associated with pumping water quantities to compensate for evaporation losses occurring from San Luis Reservoir and from the portion of the aqueduct allocated to conservation.

The previous procedure concerning power capacity costs of the Delta Pumping Plant was based on the assumption that the relationship between required conservation-transportation capacities under full project operations would hold for each year of the project development period (i.e., when entitlements are building up to maximum values). Charging of capacity in excess of onpeak transportation capacity to transportation was considered inappropriate. During the early years of project development, however, such "excess" pumping capacity actually permits greater economies to be realized in the transportation of water during offpeak periods.

The previous procedure concerning energy costs of the Delta Pumping Plant reflects the simplification heretofore made that all deliveries originate, each year, in the Delta.

Under present procedure, variable OMP&R costs of the Delta Pumping Plant are allocated to San Luis storage accretions in a manner similar to that presently used concerning storage accretions in reservoirs included in the project transportation facilities. However, all such costs associated with San Luis Reservoir storage are classified as minimum OMP&R costs--rather than variable OMP&R costs.

For years when San Luis Reservoir storage is being withdrawn to provide for downstream deliveries, the actual variable OMP&R costs of the Delta Pumping Plant for the respective years are increased. This increase is in proportion to the ratio of the delivery quantity derived from San Luis storage divided by the actual delivery quantity conveyed through the Plant. The increases of such costs for repayment are offset by credits to the minimum OMP&R costs of San Luis Reservoir. (According to the Standard Provisions, repayments of operating costs may be deferred under the Delta Water Charge but not under the Transportation Charge.) This procedure avoids the anomaly whereby water deliveries derived from San Luis storage depletions would not otherwise bear a share of the transportation variable OMP&R costs of the Delta Pumping Plant.

3. In previous redeterminations, variable OMP&R costs allocated to the conveyance of water quantities subsequently lost from downstream reaches were transferred (for repayment) to the minimum OMP&R costs of the reach in which the associated pumping costs were incurred. This procedure required a contractor to help pay for losses from those aqueduct reaches past the contractor's delivery structure. Under the present procedure, such allocated costs are transferred to minimum OMP&R costs of the reaches from which such losses are estimated to occur.

Basis for Costs

The actual and projected annual variable OMP&R costs for each aqueduct pumping and power recovery plant are summarized in Table B-3. These costs include the following:

- Cost of power and energy consumed, together with associated power transmission charges.

- Value of power and energy produced (treated as a negative cost).

- Cost of maintenance materials and supplies for rotating machinery associated with such plants, together with annual payments to sinking fund reserves to finance periodic replacement of machinery components having economic lives shorter than the project repayment period.

Excluded are costs for salaries of plant operations and maintenance personnel. Since such costs are incurred in annual amounts that do not vary with actual water quantities conveyed, they are classified as minimum OMP&R costs.

Basis For Water Conveyance

Table B-4 summarizes the schedules of annual entitlements as set forth in Table A of each contract. The years of initial water delivery that are basic to these schedules are set forth in Article 6(a) of each contract as modified in certain instances through written notifications by the State.

Table B-5 presents a summary of the actual and projected water quantities delivered and to be delivered from each aqueduct reach to each contractor.

Table B-6 summarizes the estimated total respective quantities conveyed and to be conveyed through each pumping or power recovery plant of project

transportation facilities for each year of the project repayment period and for each of the following functions:

1. **Made available to contractors from downstream delivery structures** ("Deliveries, Water Supply").

2. **Required to initally fill downstream aqueduct reaches and reservoirs to operational levels** ("Initial Fill Water").

3. **Consumed in downstream project-associated recreation developments** ("Deliveries, Recreation").

4. **Lost through evaporation and seepage from all downtown reaches** ("Operational Losses").

5. **Placed in downstream reservoir storage subsequent to the initial fill of such storage.** ("Deliveries, Reservoir Storage Changes").

In addition, Table B-6 summarizes the estimated total quantities to be stored in project conservation facilities (both during and after "initial fill" of such storage) and to be lost through evaporation and seepage from project conservation facilities (all such quantities included as "Conservation Water").

In this redetermination, these quantities are the basis for those cost allocations that depend on variable annual use of project facilities.

Bases for Reimbursable Costs

Tables 11 and 13 (Chapter V) summarize (a) the capital and annual operating costs of all project facilities, respectively, and (b) the allocation of these costs to the various project purposes. This redetermination is concerned only with those costs of project conservation facilities which are allocated to water supply and Oroville power generation and those costs of project transportation facilities which are allocated to water supply.

Basis for Allocation Percentages

Percentages for allocating joint costs among project purposes are shown in the tabulation presented below for each project conservation and transportation facility (from page 19, Bulletin 153-68, "Allocations of Costs Among Purposes of the California State Water Project", February 1968). These cost allocation percentages, while subject to revision, are the same as those used in last year's redetermination. However, the basis previously used for dividing the costs of the California Aqueduct between project conservation and transportation facilities has been modified for this redetermination.

PERCENTAGES FOR ALLOCATING JOINT COSTS OF PROJECT FACILITIES AMONG PURPOSES (a

Project Facilities	Water Supply and Oroville Power		Flood Control		Recreation and Fish and Wildlife Enhancement	
	Capital Costs	Minimum OMP&R Costs	Capital Costs	Minimum OMP&R Costs	Capital Costs	Minimum OMP&R Costs
Conservation Facilities						
Frenchman Dam and Lake	50.0	50.0	0	0	50.0	50.0
Antelope Dam and Lake	0	0	0	0	100.0	100.0
Grizzly Valley Dam and Lake Davis	5.1	8.8	0	0	94.9	91.2
Abbey Bridge Dam and Reservoir	0	0	0	0	100.0	100.0
Dixie Refuge Dam and Reservoir	0	0	0	0	100.0	100.0
Oroville Dam and Lake Oroville	78.8	83.5	21.2	16.5	0	0
California Aqueduct	91.3	94.4	0	0	8.7	5.6
Delta Facilities	66.1	17.9	0	0	32.9	82.1
Middle Fork Eel River Development	100.0	100.0	0	0	0	0
Transportation Facilities						
California Aqueduct, excluding Coastal Branch	97.0	92.9	0	0	3.0	7.1
South Bay Aqueduct:						
Del Valle Dam and Lake Del Valle	27.5	34.9	21.5	25.6	51.0	39.5
North Bay Aqueduct	100.0	100.0	0	0	0	0

a) Percentages shown are those applicable to the costs of the facility as accounted for by the State—for federal-state joint-use facilities (San Luis and Delta Facilities), only the State's share of the total costs.

Change in Basis for Conservation-Transportation Allocation of the California Aqueduct

Article 22(e) of the Standard Provisions provides that the costs of certain project facilities located below the Delta—namely, the aqueduct intake facilities at the Delta, Pumping Plant I (Delta Pumping Plant), the aqueduct from the Delta to San Luis (O'Neill) Forebay, San Luis (O'Neill) Forebay, and San Luis Reservoir—shall be allocated to the purposes of water conservation and water transportation by the proportionate-use-of-facilities method.

Allocations for Reaches 1, 2a, and 2b (Delta to O'Neill Forebay) were previously based on a ratio of reach capacities which assigned to transportation the full capacity it ever will require for peak deliveries, leaving to conservation only the remaining design capacity in each reach. This method resulted in a ratio of approximately 82 percent to transportation and 18 percent to conservation. However, the contract language seems to provide very little justification for giving such a priority of use to transportation.

Costs of Reaches 1, 2a, and 2b are now allocated on the basis of 69 percent to transportation and 31 percent to conservation, determined by the "average-of-the-ratios" measure of proportionate use. This measure appears to be the use most supportable under the Standard Provisions. The "average-of-the-ratios" measure employs the same principle as is used in allocating reimbursable capital and minimum OMP&R costs of project transportation facilities among water contractors, in that (a) ratios are determined for both peak capacities required and maximum annual quantities delivered for transportation and conservation purposes, and (b) these ratios are averaged. The language of Article 24(b) of the Standard Provisions sets forth this measure, referring to it as "the proportionate-use-of-facilities method" of cost allocation.

The physical characteristics of Reach 3, O'Neill Forebay through Dos Amigos Pumping Plant, have been modified greatly from those envisioned in 1960 when the Standard Provisions were formulated. This reach is now used both as additional storage for the Forebay and as a conveyance conduit.

The previous method for allocating Reach 3 was based on the ratio of pumping plant capacities wherein the reach is considered as a forebay from which the San Luis Pumping-Generating Plant and the Dos Amigos Pumping Plant each divert, the former for conservation and the latter for transportation. The ratio of the capacities of these two plants results in an allocation of approximately 54 percent to transportation and 46 percent to conservation.

The present method for Reach 3 results in an allocation of 73 percent to transportation and 27 percent to conservation, determined by the "cost-of-a-substitute-conveyance-facility" method. (Under Settlement Letter No. 3, the water contractors have agreed on this method for allocating the costs of dual-purpose reservoirs included in the project transportation facilities.) Under this method, costs are allocated to conservation and transportation in proportion to the relative costs of substitute single-purpose facilities operated separately to perform the two functions of water storage and water conveyance.

In the contract between the Department of Water Resources and the Bureau of Reclamation for the construction of the San Luis Joint-Use Facilities (San Luis Reservoir and Reaches 3 through 7), the parties agreed to split the total cost of the facilities 55 percent to the State and 45 percent to the Bureau. As a result, 55 percent of the cost of each separate facility or reach has been previously considered to be the State's costs of such facility or reach for repayment purposes. However, the State's share in the use of the facilities varies from 52.38 percent of the capacity for San Luis Reservoir and Reach 3, to 84.43 percent for Reach 7. Since all cost allocations under the Standard Provisions are based on use, the State's costs of the San Luis Joint-Use Facilities are now redistributed in accordance with the State's share in the use of the facilities. This change reduces the costs allocated to conservation (for San Luis Reservoir and Reach 3) and increases those allocated to transportation (for Reaches 4 through 7).

Capital Costs

Of the $2,427,827,000 in capital costs shown allocated to water supply and Oroville power in Table 11 (excluding $680,278,000 in principal and interest payments to the Corps of Engineers after 1985), only about $2,220,424,000 would be returned to the State under payments of Delta Water and Transportation Charges and Oroville power sales on the basis of current prices. (For the annual redetermination of water charges, the Department excludes allowances for future price escalation.) These two cost estimates are generally reconciled in the tabulation on the following page.

Table B-7 presents a more detailed reconciliation of the estimated total capital costs of each project conservation facility and each aqueduct reach—as estimated for (a) the current financial analysis and (b) the current redetermination of annual water charges.

Certain miscellaneous income that is realized as a consequence of project expenditures but cannot be returned to the fund that financed the original expenditure is included as "miscellaneous receipts" for project financing. For charge redeterminations, these miscellaneous receipts are deducted from the capital costs. The notable example of such income is that realized from the sale of lands originally purchased for Airpoint Reservoir, financed by a special legislative appropriation.

The costs for delivery structures and for requested excess capacity are to be covered by the advance of funds by the concerned contractors and deserve special consideration herein.

Item of Capital Cost	Conservation Facilities	Transportation Facilities	Total
	(in thousands of dollars)		
Total cost as shown in Table 11	813,683	1,614,144	2,427,827
less:			
Total allowance for future price escalation	42,370	76,717	119,087
Miscellaneous income credited to construction	3,086	42,792	45,878
Costs of delivery structures constructed by the State (current prices)	184	12,262	12,446
Costs of requested excess capacity (current prices)	0	29,992	29,992
Subtotal	45,640	161,763	207,403
remainder:			
Total capital costs to be reimbursed thru payments of Delta Water and Transportation Charges and thru Oroville power sales	768,043	1,452,381	2,220,424

Costs of Delivery Structures

Costs of delivery structures constructed by the State are paid directly by each contractor requesting such structures. The Department has established the following general procedures concerning the time and method of payment for the capital costs of a delivery structure constructed by the State:

- The State estimates the cost of the structure at least one year prior to the date the invoice is furnished, to assist the contractor in budgeting funds. This estimate is based on information provided by the contractor.
- The actual invoice is furnished to the contractor at least 60 days prior to initiation of contruction of the structure. The invoice is based on reestimated costs reflecting the actual plans and specifications for the structure.
- Funds covering the estimated costs of the structure must be deposited with the State prior to the initiation of construction.

The invoice is adjusted when the final costs of the structure are determined after completion of construction.

Estimated capital costs of all requested delivery structures to be constructed by the State are tabulated for each reach and each contractor in Table B-8. The costs shown therein are incomplete in many respects and are not to be construed as those preliminary estimates or invoices to be furnished by the State as outlined above. Table B-8 is included herein primarily to account for all items of project costs associated with water supply.

Costs of Requested Excess Capacity

So far, amendments have been executed to three contracts which provide for excess capacity in the project transportation facilities of the California Aqueduct. These amendments, and the estimated additional costs to be incurred by the State by reason of such amendments, are listed in the tabulation at the right.

1. The Metropolitan Water District of Southern California:

a. Pursuant to Amendment 2, 238 cubic feet per second in reaches from Kettleman City to the Junction of the West Branch. (This redetermination assumes proposed Amendment 7 to be effective, whereby such excess capacity would be reduced to 188 cubic feet per second.) $10,551,000

b. Pursuant to Amendment 2, 809 cubic feet per second in reaches of the West Branch. (This redetermination assumes proposed Amendment 7 to be effective, whereby such capacity would be reclassified as basic capacity of the project transportation facilities. This aspect of Amendment 7 would require prepayment of a portion of the District's capital cost component—currently assumed to be $15,000,000 in 1971, subject to future negotiation.) —

c. Pursuant to Amendments 4 and 5, provision for future enlargement of Lake Perris . . $13,832,360

d. Pursuant to Amendment 6, 787 cubic feet per second in the reach from Silverwood Lake to the South Portal of the San Bernardino Tunnel . . . . . $ 5,357,055

Subtotal, The Metropolitan Water District of Southern California $29,740,415

2. San Gabriel Valley Municipal Water District; pursuant to Amendment 3, 21 cubic feet per second capacity in the reach from Silverwood Lake to the South Portal of the San Bernardino Tunnel . . . . . $ 142,945

3. Antelope Valley-East Kern Water Agency; pursuant to Amendment 4, 19 cubic feet per second in the reaches of the West Branch from the Junction to the Peace Valley Pipeline . . . . . $ 109,000

TOTAL, ALL CONTRACTORS $29,992,360

Listed in Table B-9 are estimates of the annual amounts for:

Additional costs to be incurred by the State for requested excess capacity.

- The required annual advances, by water contractors, of funds for such costs.
- Any credits for those total advances which are estimated to be in excess of additional costs and which will be applied to the respective contractors' accounts.

Provision for the potential enlargement of Lake Perris at the request of The Metropolitan Water District of Southern California will affect the reimbursable costs of the Santa Ana Valley Pipeline—however, excess capacity will not necessarily be provided therein for the District. Because of the potential enlargement, the Department must design the Pipeline to pass the basic flow to a higher terminal water surface elevation in Lake Perris than would otherwise be necessary. This requires pipe sections of greater cross-sectional area than would otherwise be necessary. Amendment 5 of the contract with The Metropolitan Water District of Southern California specifically provides that the additional costs to be incurred because of these modifications to the Pipeline will be allocated to the District, and returned to the State through payments of the Transportation Charge. The estimated additional costs that will be repaid through the District's capital cost component for the aqueduct reach from Devil Canyon Powerplant to Barton Road are as follows (all reimbursable costs for the reach from Barton Road to Lake Perris will be borne by the District in any event):

1969	$1,868,000
1970	2,095,000
1971	176,000
Total	$4,139,000

Annual Operating Costs

Allowances for future price escalation are not included in those projected annual operating costs summarized in Table 13.(112) Futhermore, the allocation of normal operating costs incurred for reaches which include excess capacity is reflected in the allocation factors shown in Column 14 of Table B-2. Therefore, all of the estimated operating costs that Table 13 shows as allocable to water supply and Oroville power generation will be returned to the State through payments of the minimum and variable OMP&R components of Delta Water and Transportation Charges and through a portion of Oroville power sales.

Minimum and Variable Operating Costs

Under present procedures, the following operating costs are considered to be incurred irrespective of the annual amounts of project water delivered to the contractors and therefore properly reimbursed through payments of the minimum OMP&R component of the Transportation Charge.

- All direct labor charges for field operations and maintenance personnel, including associated indirect costs.
- All costs for equipment, materials, and supplies and for replacement of works other than rotating machinery of pumping and power recovery plants.
- A portion of the variable OMP&R costs (or credits) of all upstream pumping and power recovery plants which is allocable to the annual conveyance of water lost to evaporation and seepage from each respective aqueduct reach.
- A share of those general operating costs which are incurred for project facilities as a whole. Under present procedures, these costs are allocated among aqueduct reaches (and conservation facilities) based on the proportion of estimated direct operating costs (exclusive of power and energy costs and credits) to be incurred in the year 1991 (i.e., under full project development) for each respective reach (or conservation facility) to the total direct operating costs to be incurred in that year for all reaches (and conservation facilities).

All reimbursable operating costs of conservation facilities are returned to the State through payments of the minimum OMP&R component of the Delta Water Charge.

Prior to the time that conservation facilities and aqueduct reaches attain the capability of delivering entitlements to project water under the meaning of Article 29(c) of the Standard Provisions,(113) the above operating costs are included in the capital costs of the respective facilities and reaches.

The composition of those operating costs to be reimbursed through payments of the variable OMP&R component of the Transportation Charge was previously described in this Appendix under the heading "Basis for Variable Annual Use of Facilities".

In this redetermination, the classification of operating costs of transportation facilities between the minimum and variable categories and the procedure for allocating general operating costs among conservation facilities and aqueduct reaches are the same as used in previous redeterminations. Currently, these procedures are being reviewed by technical representatives of the contractors and the Department.

Costs to Be Returned to the State Through Payments Under the Transportation Charge

Table B-10 presents the actual and projected annual capital costs of each aqueduct reach of the project transportation facilities that will eventually be returned to the State, with interest, through contractor payments of the capital cost component of the Transportation Charge.

The actual and projected costs to be reimbursed through payments of the minimum and variable OMP&R components of the Transportation Charge are shown in

(112) See p. 56.

(113) See pp. 82–85, Bulletin 132-68.

Tables B-11 and B-12, respectively. The costs shown in Table B-12 constitute the portion of those costs shown in Table B-3 which are allocable to the water supply delivery quantities shown in Table B-6.

Costs to Be Returned Through Payments Under the Water Charge and the Power Sale Contract

Summarized in Table B-13 are the actual and projected capital and operating costs of each project conservation facility to be reimbursed through payments (a) of the Delta Water Charge and (b) under Oroville power sales. The operating costs included in that tabulation are the same as those for project conservation facilities shown in Table 13 to be allocable to water supply and Oroville power.

Project Water Charges

This section summarizes the redetermination of past and projected components of the Transportation Charge for the annual revision of Tables C through G included in each water contract. This section also includes a derivation of future Delta Water Charges to present a complete picture of the two basic annual charges for project water during the entire project repayment period. The equivalent unit charge for each acre-foot of such project water service is also summarized herein for each contractor.

The applicable rate of interest for calculating the Transportation Charge and the Delta Water Charge is the "project interest rate". The project interest rate was 4.021 percent per annum as of December 31, 1968.(114)

The "project repayment period", for this redetermination, extends through 2035, fifty years after the year in which construction of all facilities of the State Water Project is currently scheduled to be completed.(115)

Transportation Charges

The accumulation of the allocated costs of each aqueduct reach to each contractor forms the basis for the annual components of the Transportation Charge.

Allocated Capital Costs

Table B-14 summarizes each contractor's share of those capital costs of aqueduct reaches presented in Table B-10, as determined by application of those proportionate-use ratios presented in Column 10 of Table B-2. These allocated capital costs are to be set forth in Table C of the respective contracts.

Criteria as to the types of amortization schedules applicable to the allocated capital costs shown in Table B-14 for the respective contractors are summarized in Figure B-2. The accounting of interest charges included in the capital cost components of the Transportation Charge follows the procedure established in Settlement Letter No. 2.

Capital Cost Components

Table B-15 summarizes the capital cost components of the Transportation Charge for each contractor for each year of the project repayment period. These estimated components, adjusted for prior overpayments and/or underpayments, are to be set forth in Tables D of the respective contracts.

Minimum OMP&R Components

Table B-16 summarizes the minimum OMP&R components of the Transportation Charge for each contractor for each year of the project repayment period. These estimated components, adjusted for prior overpayments and/or underpayments, are to be set forth in Tables E of the respective contracts. These components represent the accumulated share of those reach costs presented in Table B-11, as determined by application of the proportionate-use ratios shown for each reach for each contractor in Column 14 of Table B-2.

Variable OMP&R Components

Article 26(a) of the Standard Provisions specifies the following procedure for calculating the variable OMP&R component of the Transportation Charge:

- An annual charge per acre-foot of projected water deliveries to all contractors served from or through each reach is determined so as to return to the State the projected variable OMP&R costs to be incurred for the reach.

- The total annual variable OMP&R component for any contractor for a given reach is obtained by multiplying the unit charge associated with that reach by the quantity of water actually delivered from or through the reach to the contractor.

Table B-17 presents a summary of the actual and projected total variable OMP&R costs for each acre-foot of conveyance through each aqueduct plant and reservoir for each year of the project repayment period. The data in Table B-17 have been derived by dividing the costs shown in Table B-12 by the water conveyance quantities shown in Table B-5. Table B-17 shows the cumulative unit costs or credits from the Delta through the particular plant or reservoir listed in the table headings. These cumulative unit costs constitute the actual and projected

(114) See Appendix A.

(115) See p. 55.

FIGURE B-2. CRITERIA FOR AMORTIZATION SCHEDULES

Contractor	Amortization of Allocated Capital Costs in 50 Equal Annual Installments, With Initial Payment Due in:								
	1963	1964	1965	1966	1968	1970	1971	(a	(b
Alameda County FC&WCD, Zone 7	●(c								
Alameda County WD	●								
Antelope Valley-East Kern WA	●								
County of Butte									●
City of Yuba City									●
Coachella Valley County WD		●							
Crestline-Lake Arrowhead WD		●							
Desert WA	●(d								
Devil's Den WD								●	
Dudley Ridge WD								●	
Empire West Side ID								●	
Hacienda WD								●	
Kern County WA: Ag use								●	
M&I use			●						
Kings County					●				
Littlerock Creek ID		●							
Metropolitan WD	●								
Mojave WA		●							
Napa County FC&WCD				●					
Oak Flat WD								●	
Palmdale ID		●							
Plumas County FC&WCD						●			
San Bernardino Valley MWD	●								
San Gabriel Valley MWD	●(d								
San Gorgonio Pass WA	●(d								
San Luis Obispo County FC&WCD		●(e							
Santa Barbara County FC&WCD		●(e							
Santa Clara County FC&WD	●								
Solano County FC&WCD							●		
Tulare Lake Basin WSD								●	
Upper Santa Clara Valley WA		●							
Ventura County FCD		●							

a) *Amortization of allocated capital costs on basis of equivalent unit rate applied to annual entitlements (Table B-4) within project repayment period.*

b) *Payments on Delta Water Charge only.*

c) *Principal payments on each annual capital cost prior to 1971 delayed until calendar year 1972, except payments for 1963.*

d) *Deferred and added to 1964 payment with accrued interest.*

e) *Exception: all principal and interest payments for costs of "Coastal Stub" are assumed deferred until 1976.*

unit variable OMP&R component for deliveries through the various plants in accordance with Article 26(a) of the Standard Provisions.

Table B-18 summarizes the variable OMP&R components of the Transportation Charge for each contractor for each year of the project repayment period. Table B-18 is developed from the costs per acre-foot as shown in Table B-17 and the delivery quantities for each contractor from each reach as shown in Table B-5. These estimated components, adjusted for prior overpayments and/or underpayments, are to be set forth in Tables F of the respective contracts.

Total Transportation Charges

Annual Transportation Charges for each contractor are summarized in Table B-19. These estimated payments, adjusted for prior overpayments and/or underpayments, are to be set forth in Tables G of the respective contracts. The amounts shown in Table B-19 represent the sums of the corresponding amounts in Tables B-15, B-16, and B-18.

Delta Water Charges

Payments of the Delta Water Charge through December 31, 1969 are based on $3.50 per acre-foot of project water entitlement, in accordance with Article 22(b) of the Standard Provisions. The computation of the Delta Water Charge per acre-foot of entitlement to be paid after December 31, 1969 will be determined by the State in accordance with the formula specified in Article 22(c) of the Standard Provisions. For this redetermination, the formula of Article 22(c) may be paraphrased so as to be applicable for any given year of the project repayment period as follows:

- The present worths, at the project interest rate, of all costs of appropriate project conservation facilities allocated to water supply and Oroville power generation that have been incurred, and that are estimated to be incurred, during the entire project repayment period; *minus*

- The present worths, at the project interest rate, of all revenues from the sale of Oroville power that have been realized, and that are estimated to be realized, during the project repayment period; *minus*

- The present worths, at the project interest rate, of all Delta Water Charges received or billed for payment in years prior to the given year; *the above quantities all divided by*

  The present worths, at the project interest rate, of the annual entitlements to project water for the given year and for the remaining years of the project repayment period.

The Delta Water Charge applicable after December 31, 1969 is herein calculated on the following two alternative bases as to the time when the costs of the authorized Middle Fork Eel River Development initially would be included in the calculation:

- In accordance with the present provisions of Articles 22(e) and 22(g), whereby all such costs will be included in the calculation of the Charge after December 31, 1969.

- In accordance with the Department's proposed amendment of these articles, whereby the costs of each facility of the Development would be included in the calculation of the Charge in years when the State first incurs major construction costs for the respective facility.(116)

This redetermination assumes the following schedule of events for a Middle Fork Eel River Development sized so as to meet only the estimated needs for maintaining the present "minimum project yield": (a) construction of the Dos Rios–Grindstone Tunnel by the State would commence in 1976; (b) construction of the Stony Creek Conveyance Channel by the State would commence in 1985; (c) initial payments to the Corps of Engineers by the State would commence in 1986 under an assumed contract executed pursuant to the Water Supply Act of 1958 for the "block" of water conservation storage in Dos Rios Reservoir initially used for water supply; and (d) initial payments on the "block" of such storage reserved for future use would commence in 1994.

The calculation of Delta Water Charge per acre-foot of entitlements under the two alternatives is summarized in Table B-20. Since the proposed amendments to Articles 22(e) and 22(g) were not executed as of December 31, 1968, the statements of charges supported by this redetermination are based on the present provisions of the contract. If these amendments are executed on or before December 21, 1969, the Department will revise the statements accordingly.

Projected Delta Water Charges for each year of the project repayment period are shown in Table B-21.

Total Water Charges

The estimated total annual payments for the Delta Water Charge and the unadjusted Transportation Charge by each contractor for each year of the project repayment period are shown in Table B-22.

A summary of these charges is shown in Table B-23 in terms of the equivalent charge for each acre-foot of project water entitlements to be delivered to the respective contractors. These equivalent charges may be defined as those hypothetical payments for each acre-foot of entitlements to be delivered during the project repayment period that would provide the same total sum

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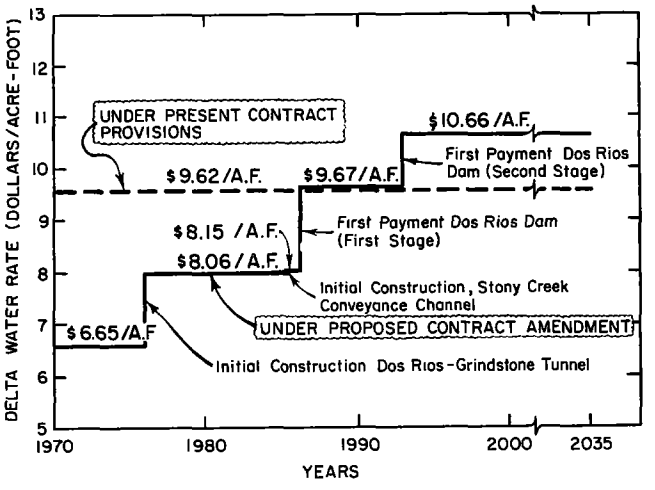
(116) See pp. 26-27.



at the end of the period as those annual payments to be made under the Delta Water Charge and Transportation Charge, with interest taken into account at the project interest rate. The equivalent unit charges shown in Table B-23 provide a convenient measure of the economic costs of project water entitlements delivered at "canalside" (since the State's water supply charges are equivalent to water supply costs). However, these equivalent unit charges or costs do not reflect contractor payments of charges associated with project water service other than the Delta Water Charge and the Transportation Charge. Furthermore, the potential charges for surplus water service to the contractors will be considerably less than the charges for project water entitlements. Thus, the equivalent unit charges for total project water deliveries are expected to be less than those summarized in Table B-23, depending on the extent of future surplus water deliveries to the respective contractors.

TABLES TO APPENDIX B

B-1 Through B-23

The titles of Tables B-1 through B-23 are listed and their relationships to one another are shown graphically on Figure B-1 (page 103).

DELIVERY CAPABILITY AND CAPACITY OF EACH AQUEDUCT REACH

(in cubic feet per second unless otherwise noted)

Sheet 1 of 2

Reach No.	Reach Description	Water Supply Contractors Served From Reach	Maximum Deliveries From Reach: Annual Entitlements (acre-feet)	Maximum Deliveries From Reach: Monthly (percent of annual)	Total Capacity Provided for Water Supply Deliveries (a	Additional Capacity (b	Total Reach Capacity
	UPPER FEATHER DIVISION						
	Pipeline, Grizzly Valley Dam to Portola Reservoir	Plumas County Flood Control and Water Conservation District	2,700	11	8	0	8
	NORTH BAY AQUEDUCT						
1	Lindsey Slough to Suisun City	--	-	-	117	0	117
2	Suisun City to Cordelia Pumping Plant	Solano County Flood Control and Water Conservation District	37,800	11	115	0	115
3	Cordelia Pumping Plant Thru Napa Turnout Reservoir	Napa County Flood Control and Water Conservation District	25,000	11	46	0	46
	SOUTH BAY AQUEDUCT						
1	Bethany Reservoir Thru Altamont Turnout	--	-	-	300	0	300
2	Altamont Turnout Thru Patterson Reservoir	Alameda County Flood Control and Water Conservation District, Zone 7	17,000	11	300	0	300
4	Patterson Reservoir to Del Valle Junction	--	-	-	300	0	300
5	Del Valle Junction Thru Lake Del Valle(h	Future Contractor - South Bay	12,000 (c	11	29,301 AF	0	29,301 AF
6	Del Valle Junction Thru South Livermore Turnout	Alameda County Flood Control and Water Conservation District, Zone 7	29,000	11	363	0	363
7	South Livermore Turnout Thru Vallecitos Turnout	Alameda County Water District	37,000	11 (d	305	0	305
8	Vallecitos Turnout Thru Alameda-Bayside Turnout	Alameda County Water District Future Contractor - South Bay	5,000 25,000 (c	11 (d 11	255	0	255
9	Alameda-Bayside Turnout Thru Santa Clara Terminal Facilities	Santa Clara County Flood Control and Water District	100,000	11	184	0	184
	CALIFORNIA AQUEDUCT						
1	Delta Thru Bethany Reservoir	--	-	-	8,423	74	10,300 (e
2A	Bethany Reservoir to Orestimba Creek	Oak Flat Water District	5,700	18	8,122	74	10,000 (e
2B	Orestimba Creek to O'Neill Forebay	--	-	-	8,070	74	10,000 (e
3	O'Neill Forebay to Dos Amigos Pumping Plant	--	-	-	8,059	74	8,133 (f
4	Dos Amigos Pumping Plant to Panoche Creek	--	-	-	8,047	74	8,121 (f
5	Panoche Creek to Five Points	--	-	-	8,033	74	8,107 (f
6	Five Points to Arroyo Pasajero	--	-	-	8,011	74	8,085 (f
7	Arroyo Passajero to Kettleman City	--	-	-	8,004	74	8,078 (f
8C	Kettleman City Thru Milham Avenue	Empire West Side Irrigation District Kings County Tulare Lake Basin Water Storage District	3,000 4,000 61,050	18 11 18	8,183	74	8,257 (f
8D	Milham Avenue Thru Avenal Gap	Dudley Ridge Water District Hacienda Water District Tulare Lake Basin Water Storage District	57,700 8,500 48,950	18 18 18	7,985	115	8,100
9	Avenal Gap Thru Twisselman Road	Kern County Water Agency - Agriculture	46,900	18	7,194	106	7,300
10A	Twisselman Road Thru Lost Hills	Kern County Water Agency - Agriculture	265,800	18	7,044	106	7,150
11B	Lost Hills to 7th Standard Road	Kern County Water Agency - Agriculture	126,300	18	6,239	111	6,350
12D	7th Standard Road Thru Elk Hills Road	Kern County Water Agency - Agriculture	3,700	18	5,856	94	5,950
12E	Elk Hills Road Thru Tupman Road	Kern County Water Agency - Agriculture Kern County Water Agency - M&I	130,800 77,400	18 11	5,833	117	5,950
13B	Tupman Road to Buena Vista Pumping Plant	Kern County Water Agency - Agriculture Kern County Water Agency - M&I	86,800 25,200	18 11	5,296	54	5,350
14A	Buena Vista Pumping Plant Thru Santiago Creek	Kern County Water Agency - Agriculture	37,500	18	4,981	69	5,050
14B	Santiago Creek Thru Old River Road	Kern County Water Agency - Agriculture	60,700	18	4,861	39	4,900
14C	Old River Road to Wheeler Ridge Pumping Plant	Kern County Water Agency - Agriculture	32,500	18	4,673	27	4,700

a) For detailed breakdown of capacities provided for delivery of water to each contractor, see Table B-2.

b) Additional capacity includes that provided for practical design considerations and for project purposes other than water supply.

c) Maximum annual entitlement of a future contractor is considered, for allocation purposes, to be 25,000 acre-feet in Reach 8; 10,000 acre-feet in Reaches 6 and 7; and 22,000 acre-feet in Reaches 1, 2, 4, and 5 of the South Bay Aqueduct and Reach 1 of the California Aqueduct.

d) Maximum monthly delivery is 11% of annual entitlement, with 16 cfs (5,000 acre-feet) delivered in Reach 8 and the balance in Reach 7.

e) Total reach capacities for both project conservation facilities and project transportation facilities. Required capacities for project transportation facilities are 8,497 cfs in Reach 1, 8,196 cfs in Reach 2A, and 8,144 cfs in Reach 2B.

f) Total reach capacities required for the State Water Project - not the State's share of design capacities of reaches as constructed.

(in cubic feet per second unless otherwise noted)

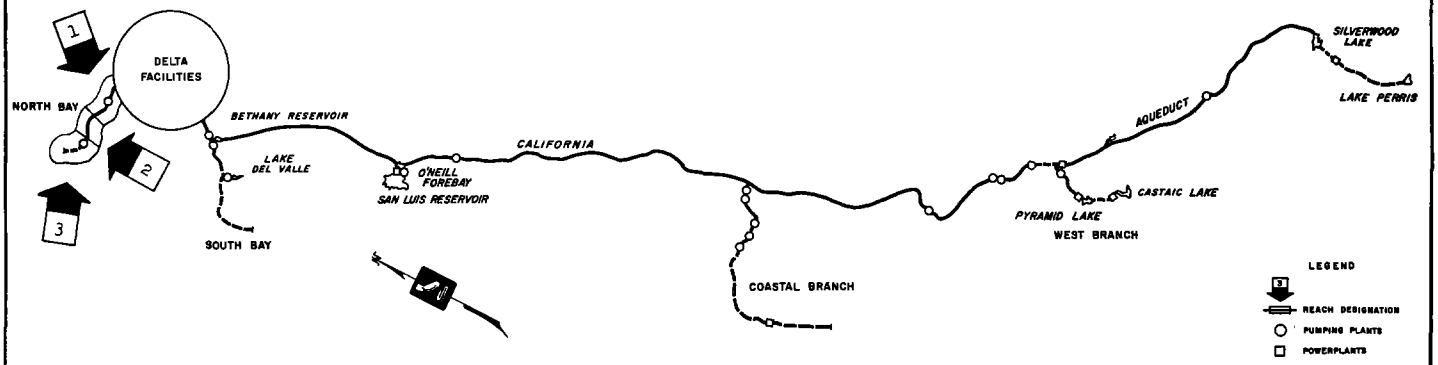
Reach No.	Reach Description	Water Supply Contractors Served From Reach	Maximum Deliveries From Reach: Annual Entitlements (acre-feet)	Maximum Deliveries From Reach: Monthly (percent of annual)	Total Capacity Provided for Water Supply Deliveries (a	Additional Capacity (b	Total Reach Capacity
	CALIFORNIA AQUEDUCT (Continued)						
15A	Wheeler Ridge Pumping Plant to Wind Gap Pumping Plant	Kern County Water Agency - Agriculture	70,000	18	4,570	30	4,600
16A	Wind Gap Pumping Plant to A.D. Edmonston Pumping Plant	Kern County Water Agency - Agriculture Kern County Water Agency - M&I	74,100 12,000	18 11	4,360	40	4,400
17E	A.D. Edmonston Pumping Plant to Carley V. Porter Tunnel	Kern County Water Agency - M&I	5,000	11	4,108	42	4,150
17F	Carley V. Porter Tunnel to Junction, West Branch, California Aqueduct	--	-	-	4,099	51	4,150
18A	Junction, West Branch, California Aqueduct Thru Cottonwood Powerplant	--	-	-	1,617	21	1,638
19	Cottonwood Powerplant to Fairmont	Antelope Valley-East Kern Water Agency	69,600	8-1/3	1,616	21	1,637
19C	Buttes Junction Thru Buttes Reservoir (h	Antelope Valley-East Kern Water Agency	-	-	27,800 AF	-	27,800 AF
20A	Fairmont Thru 70th Street West	Antelope Valley-East Kern Water Agency	47,100	8-1/3	1,499	21	1,520
20B	70th Street West to Palmdale	Palmdale Irrigation District	17,300	8-1/3	1,428	21	1,449
21	Palmdale to Littlerock Creek	Littlerock Creek Irrigation District Antelope Valley-East Kern Water Agency	2,300 10,800	8-1/3 8-1/3	1,397	21	1,418
22A	Littlerock Creek to Pearblossom Pumping Plant	Antelope Valley-East Kern Water Agency	10,900	8-1/3	1,376	21	1,397
22B	Pearblossom Pumping Plant to West Fork Mojave River	Coachella Valley County Water District Desert Water Agency Mojave Water Agency	23,100 38,100 50,800	11 11 8-1/3	1,360	15	1,375
23	West Fork Mojave River to Silverwood Lake	--	-	-	1,181	15	1,196
24	Cedar Springs Dam and Silverwood Lake (h	Crestline-Lake Arrowhead Water Agency	5,800	11	72,640 AF	-	72,640 AF
25	Silverwood Lake to South Portal, San Bernardino Tunnel	San Gorgonio Pass Water Agency	17,300	11	2,011	9	2,020
26A	South Portal, San Bernardino Tunnel Thru Devil Canyon Powerplant	The Metropolitan Water District of Southern California San Bernardino Valley Municipal Water District San Gabriel Valley Municipal Water District	284,000 88,900 28,800	11 11 10	1,172	8	1,180
28G	Devil Canyon Powerplant Thru Barton Road	San Bernardino Valley Municipal Water District	13,700	11	444	25	469
28H	Barton Road to Lake Perris	--	-	-	419	25	444
28J	Perris Dam and Lake Perris (h	The Metropolitan Water District of Southern California	272,500	11	99,000 AF	-	99,000 AF
	WEST BRANCH						
29A	Junction, West Branch, California Aqueduct Thru Oso Pumping Plant	--	-	-	3,122	7	3,129
29F	Oso Pumping Plant Thru Quail Embankment	--	-	-	3,121	8	3,129
29G	Quail Embankment Thru Pyramid Powerplant	--	-	-	3,098	7	3,105
29H	Pyramid Dam and Lake (h	--	-	-	156,090 AF	-	156,090 AF
29J	Pyramid Lake Thru Castaic Powerplant	--	-	-	3,085	7	3,092
30	Castaic Dam and Lake (h	The Metropolitan Water District of Southern California Upper Santa Clara Valley Water Agency Ventura County Flood Control District	1,455,000 41,500 20,000	11 11 11	332,000 AF	-	332,000 AF
	COASTAL BRANCH						
31A	Avenal Gap to Devil's Den Pumping Plant	Devil's Den Water District Kern County Water Agency - Agriculture	12,700 105,100	18 18 (g	449	1	450
33A	Devil's Den Pumping Plant Thru San Luis Obispo Powerplant	San Luis Obispo County Flood Control and Water Conservation District	10,000	8-1/3	126	0	126
34	San Luis Obispo Powerplant to Arroyo Grande	San Luis Obispo County Flood Control and Water Conservation District	5,000	8-1/3	110	0	110
35	Arroyo Grande Thru Santa Maria Terminus	San Luis Obispo County Flood Control and Water Conservation District Santa Barbara County Flood Control and Water Conservation District	10,000 57,700	8-1/3 8-1/3	102	0	102

g) Water will be delivered thru available capacity at less than 18% of maximum annual entitlement.

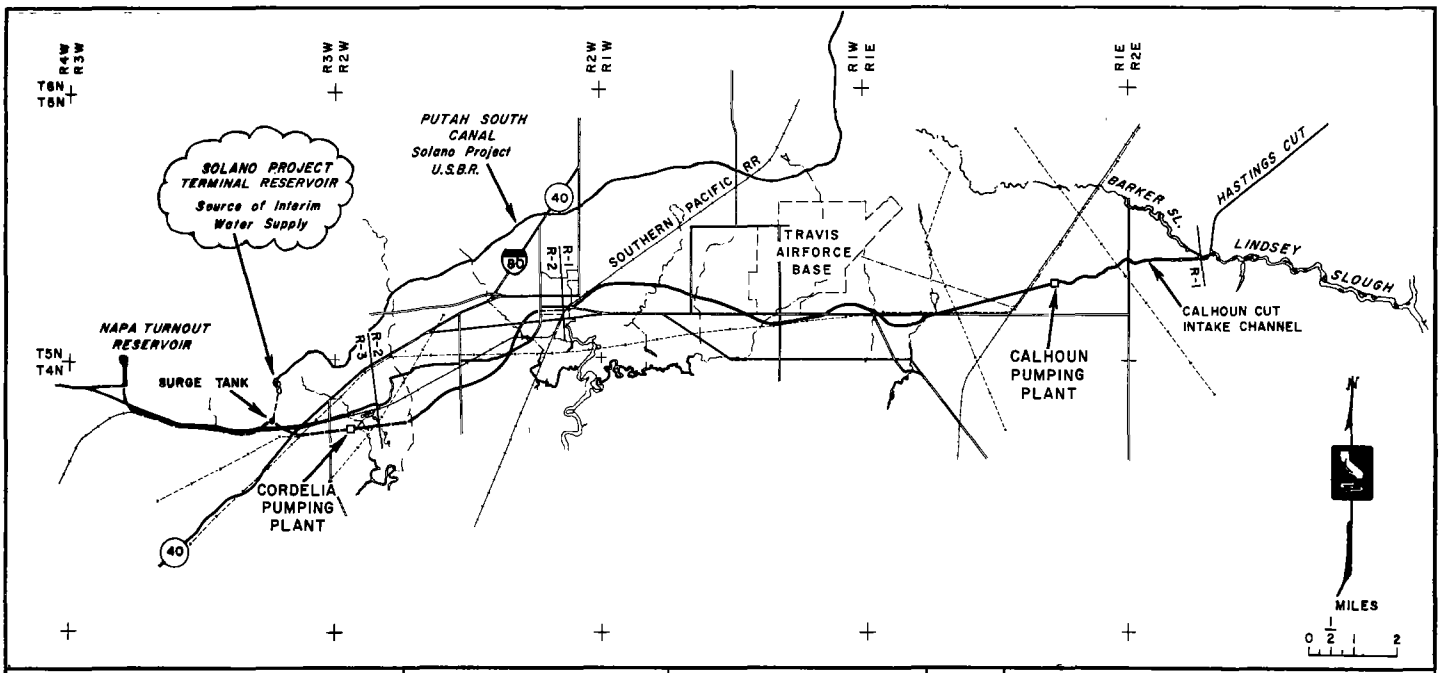
h) AF: storage capacity in acre-feet.

TABLE B-2
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



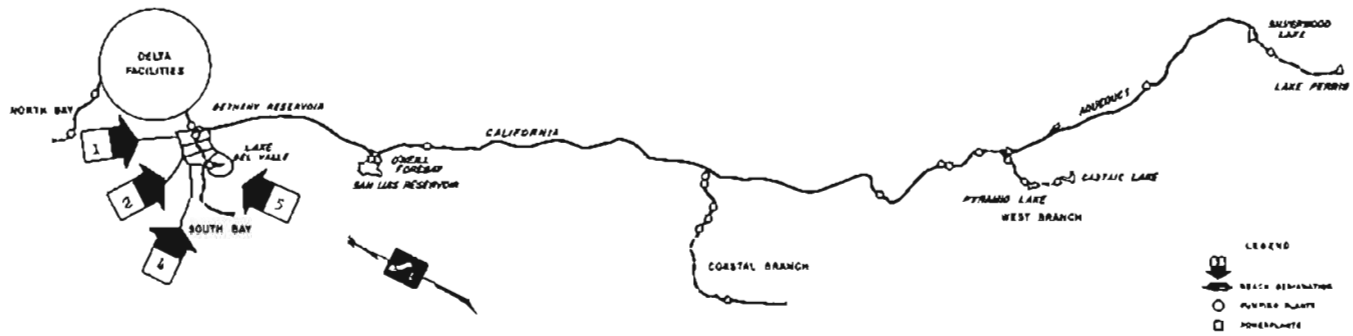
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 1 - LINDSEY SLOUGH TO SUISUN CITY								
NAPA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	398.1	25000.0	557.3	0	0	25557.3
	C CFS	0	.65524	45.58219	.91727	0	0	46.49946
SOLANO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	601.9	37800.0	842.7	0	0	38642.7
	C CFS	0	.99069	68.92028	1.38703	0	0	70.30731
TOTALS	Q AF	0	1000.0	62800.0	1400.0	0	0	64200.0
	C CFS	0	1.64593	114.50247	2.30430	0	0	116.80677
REACH 2 - SUISUN CITY TO CORDELIA PUMPING PLANT								
NAPA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	159.2	25000.0	159.2	0	0	25159.2
	C CFS	0	.26203	45.58219	.26203	0	0	45.84422
SOLANO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	37800.0	240.8	37800.0	240.8	0	0	38040.8
	C CFS	68.92028	.39634	68.92028	.39634	0	0	69.31662
TOTALS	Q AF	37800.0	400.0	62800.0	400.0	0	0	63200.0
	C CFS	68.92028	.65837	114.50247	.65837	0	0	115.16084
REACH 3 - CORDELIA PUMPING PLANT THRU NAPA TURNOUT RESERVOIR								
NAPA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	25000.0	0	25000.0	0	0	0	25000.0
	C CFS	45.58219	0	45.58219	0	0	0	45.58219
TOTALS	Q AF	25000.0	0	25000.0	0	0	0	25000.0
	C CFS	45.58219	0	45.58219	0	0	0	45.58219



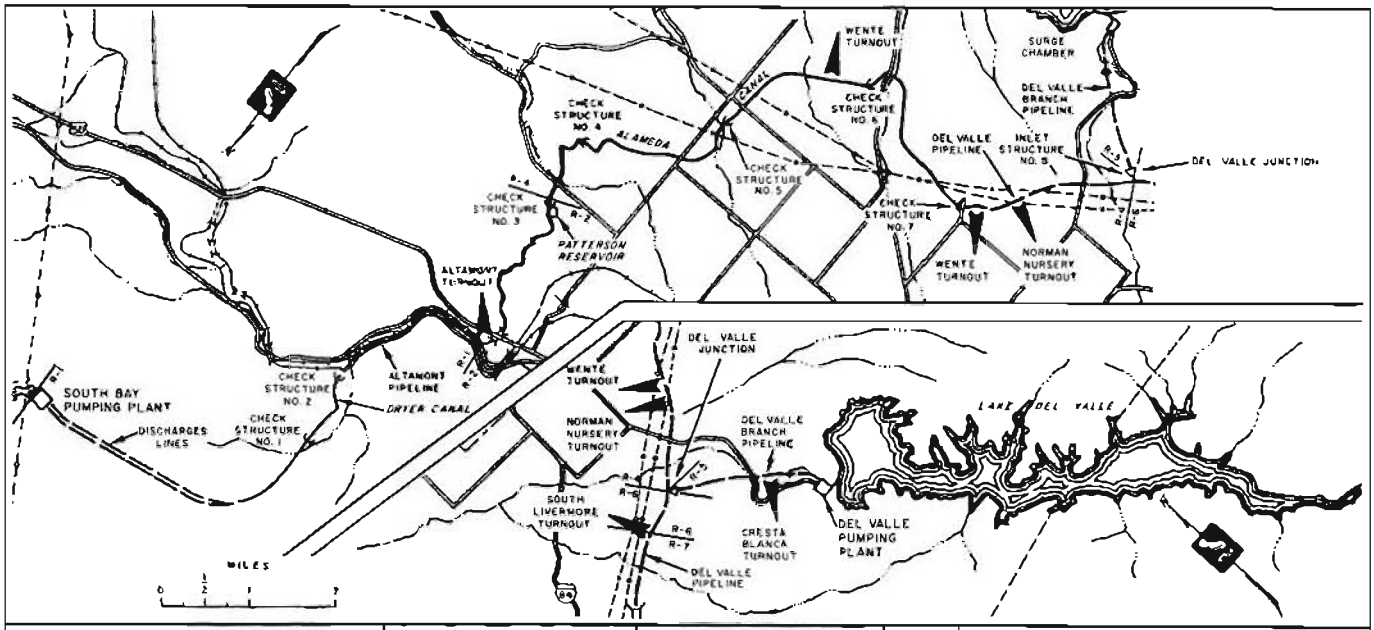
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 1 - LINDSEY SLOUGH TO SUISUN CITY
.39808879			25557.3	.39808879		Q AF	NAPA COUNTY FLOOD CONTROL AND WATER
.39808874	.39808876	0	46.49946	.39808874	.39808876	C CFS	CONSERVATION DISTRICT
.60191121			38642.7	.60191121		Q AF	SOLANO COUNTY FLOOD CONTROL AND WATER
.60191126	.60191124	0	70.30731	.60191126	.60191124	C CFS	CONSERVATION DISTRICT
1.00000000			64200.0	1.00000000		Q AF	TOTALS
1.00000000	1.00000000	0	116.80677	1.00000000	1.00000000	C CFS	
							REACH 2 - SUISUN CITY TO CORDELIA PUMPING PLANT
.39808861			25159.2	.39808861		Q AF	NAPA COUNTY FLOOD CONTROL AND WATER
.39808862	.39808861	0	45.84422	.39808862	.39808861	C CFS	CONSERVATION DISTRICT
.60191139			38040.8	.60191139		Q AF	SOLANO COUNTY FLOOD CONTROL AND WATER
.60191138	.60191139	0	69.31662	.60191138	.60191139	C CFS	CONSERVATION DISTRICT
1.00000000			63200.0	1.00000000		Q AF	TOTALS
1.00000000	1.00000000	0	115.16084	1.00000000	1.00000000	C CFS	
							REACH 3 - CORDELIA PUMPING PLANT THRU NAPA TURNOUT RESERVOIR
1.00000000			25000.0	1.00000000		Q AF	NAPA COUNTY FLOOD CONTROL AND WATER
1.00000000	1.00000000	0	45.58219	1.00000000	1.00000000	C CFS	CONSERVATION DISTRICT
1.00000000			25000.0	1.00000000		Q AF	TOTALS
1.00000000	1.00000000	0	45.58219	1.00000000	1.00000000	C CFS	

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



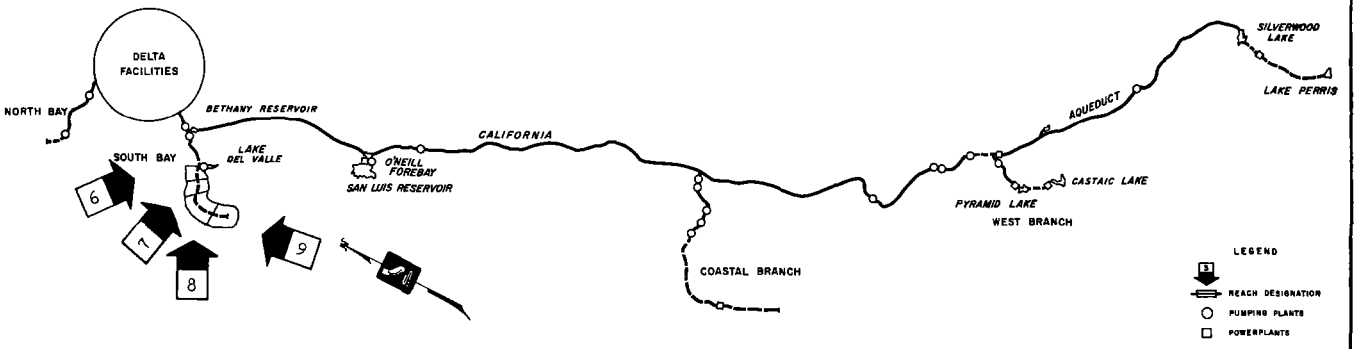
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 1 - BETHANY RESERVOIR THRU ALTAMONT TURNOUT								
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	Q AF	0	85.3	100000.0	1721.6	0	0	101721.6
	C CFS	0	.11782	149.02297	2.37801	1.70237	0	153.10335
ALAMEDA COUNTY WATER DISTRICT	Q AF	0	35.8	42000.0	712.5	0	0	42712.5
	C CFS	0	.04945	62.60515	.98417	.71408	0	64.30431
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	Q AF	0	39.1	46000.0	718.2	0	0	46718.2
	C CFS	0	.05401	68.55218	.99205	.78308	0	70.32729
FUTURE CONTRACTOR - SOUTH BAY	Q AF	0	19.8	22000.0	1577.7	0	0	23577.7
	C CFS	0	.02735	9.71128	2.17925	.37452	0	12.26505
TOTALS	Q AF	0	180.0	210000.0	4730.0	0	0	214730.0
	C CFS	0	.24863	289.89158	6.53346	3.57096	0	300.00000
REACH 2 - ALTAMONT TURNOUT THRU PATTERSON RESERVOIR								
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	Q AF	0	113.7	100000.0	1636.3	0	0	101636.3
	C CFS	0	.15705	149.02297	2.26010	1.80551	.01517	153.10384
ALAMEDA COUNTY WATER DISTRICT	Q AF	0	47.7	42000.0	676.7	0	0	42676.7
	C CFS	0	.06589	62.60515	.93472	.75832	.00637	64.30456
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	Q AF	17000.0	52.2	46000.0	679.1	0	0	46679.1
	C CFS	23.48174	.07210	68.55218	.93802	.83053	.00698	70.32769
FUTURE CONTRACTOR - SOUTH BAY	Q AF	0	26.4	22000.0	1557.9	0	0	23557.9
	C CFS	0	.03647	9.71128	2.15190	.39721	.00352	12.26391
TOTALS	Q AF	17000.0	240.0	210000.0	4550.0	0	0	214550.0
	C CFS	23.48174	.33151	289.89158	6.28483	3.79157	.03202	300.00000
REACH 4 - PATTERSON RESERVOIR TO DEL VALLE JUNCTION								
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	Q AF	0	416.6	100000.0	1522.6	0	0	101522.6
	C CFS	0	.57572	149.02297	2.10314	2.11419	.01540	153.25570
ALAMEDA COUNTY WATER DISTRICT	Q AF	0	175.0	42000.0	629.0	0	0	42629.0
	C CFS	0	.24173	62.60515	.86883	.88706	.01085	64.37679
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	Q AF	0	121.6	20000.0	626.9	0	1509.0	31135.9
	C CFS	0	.16796	45.07044	.86592	.61311	23.49799	70.04746
FUTURE CONTRACTOR - SOUTH BAY	Q AF	0	96.6	22000.0	1531.5	0	0	23531.5
	C CFS	0	.13343	9.71128	2.11543	.46512	.00822	12.30005
TOTALS	Q AF	0	810.0	193000.0	4310.0	0	1509.0	198819.0
	C CFS	0	1.11884	266.40984	5.95332	4.08038	23.55646	300.00000
REACH 5 - DEL VALLE JUNCTION THRU LAKE DEL VALLE								
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	Q AF	0	1105.8	100000.0	1105.8			
	C AF	8936.0	321.0	8936.0	321.0	0		9257.0
ALAMEDA COUNTY WATER DISTRICT	Q AF	0	454.0	42000.0	454.0			
	C AF	3669.0	132.0	3669.0	132.0	0		3801.0
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	Q AF	0	505.3	20000.0	505.3			
	C AF	4083.0	147.0	4083.0	147.0	0		4230.0
FUTURE CONTRACTOR - SOUTH BAY	Q AF	12000.0	1434.9	22000.0	1434.9			
	C AF	11596.0	417.0	11596.0	417.0	0		12013.0
TOTALS	Q AF	12000.0	3500.0	193000.0	3500.0			
	C AF	28284.0	1017.0	28284.0	1017.0	0		29301.0



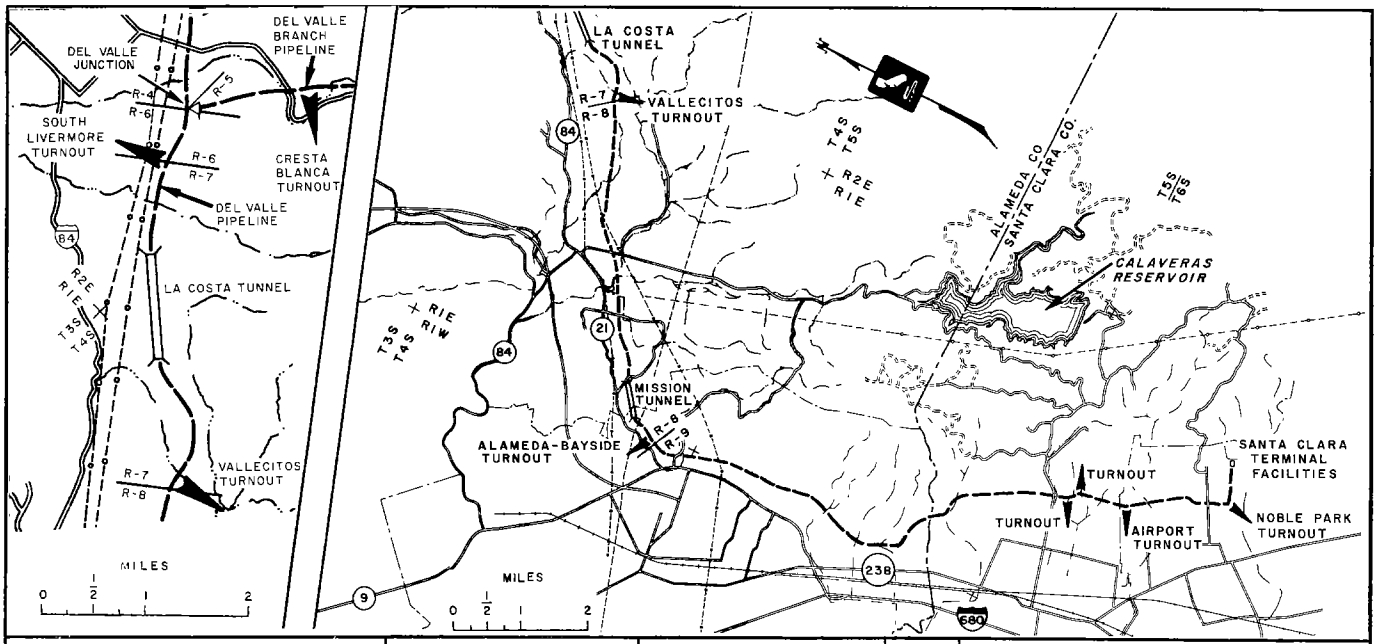
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OM&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 1 - BETHANY RESERVOIR THRU ALTAMONT TURNOUT
.47371862 .51034450	.49203156	0	101721.6 153.10335	.47371862 .51034450	.49203156	Q AF C CFS	SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT
.19891259 .21434770	.20663014	0	42712.5 64.30431	.19891259 .21434770	.20663014	Q AF C CFS	ALAMEDA COUNTY WATER DISTRICT
.21756718 .23442430	.22599574	0	46718.2 70.32720	.21756718 .23442430	.22599574	Q AF C CFS	ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7
.10980161 .04088350	.07534256	0	23577.7 12.26505	.10980161 .04088350	.07534256	Q AF C CFS	FUTURE CONTRACTOR - SOUTH BAY
1.00000000 1.00000000	1.00000000	0	214730.0 300.00000	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 2 - ALTAMONT TURNOUT THRU PATTERSON RESERVOIR
.47371848 .51034613	.49203231	0	101636.3 153.10384	.47371848 .51034613	.49203231	Q AF C CFS	SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT
.19891261 .21434854	.20663057	0	42676.7 64.30456	.19891261 .21434854	.20663057	Q AF C CFS	ALAMEDA COUNTY WATER DISTRICT
.21756747 .23442563	.22599655	0	46679.1 70.32764	.21756747 .23442563	.22599654	Q AF C CFS	ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7
.10980144 .04087970	.07534057	0	23557.9 12.26391	.10980144 .04087970	.07534057	Q AF C CFS	FUTURE CONTRACTOR - SOUTH BAY
1.00000000 1.00000000	1.00000000	0	214550.0 300.00000	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 4 - PATTERSON RESERVOIR TO DEL VALLE JUNCTION
.51062826 .51091900	.51077363	0	101522.6 153.27570	.51062826 .51091900	.51077363	Q AF C CFS	SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT
.21441110 .21458930	.21450020	0	42629.0 64.37679	.21441110 .21458930	.21450020	Q AF C CFS	ALAMEDA COUNTY WATER DISTRICT
.15660425 .23349153	.19504789	0	31135.9 70.04746	.15660425 .23349153	.19504789	Q AF C CFS	ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7
.11835639 .04100017	.07967828	0	23531.5 12.30005	.11835639 .04100017	.07967828	Q AF C CFS	FUTURE CONTRACTOR - SOUTH BAY
1.00000000 1.00000000	1.00000000	0	198819.0 300.00000	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 5 - DEL VALLE JUNCTION THRU LAKE DEL VALLE
.31592778	.31592778		9257.0	.31592778	.31592778	Q AF C AF	SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT
.12972254	.12972254		3801.0	.12972254	.12972254	Q AF C AF	ALAMEDA COUNTY WATER DISTRICT
.14436367	.14436367		4230.0	.14436367	.14436367	Q AF C AF	ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7
.40998601	.40998601		12013.0	.40998601	.40998601	Q AF C AF	FUTURE CONTRACTOR - SOUTH BAY
1.00000000	1.00000000		29301.0	1.00000000	1.00000000	Q AF C AF	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



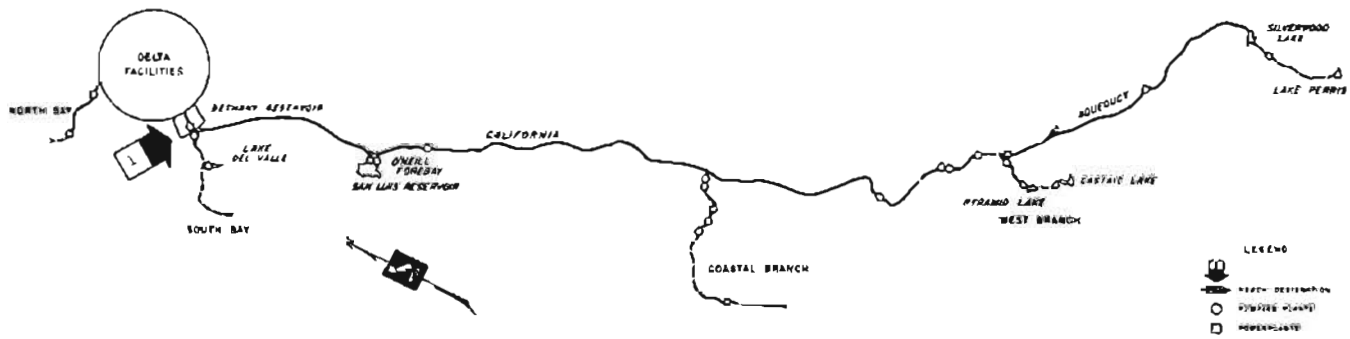
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 6 - DEL VALLE JUNCTION THRU SOUTH LIVERMORE TURNOUT								
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	Q AF	0	0	100000.0	0	0	0	100000.0
	C CFS	0	0	184.00000	0	0	0	184.00000
ALAMEDA COUNTY WATER DISTRICT	Q AF	0	0	42000.0	0	0	0	42000.0
	C CFS	0	0	76.57808	0	0	0	76.57808
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	Q AF	29000.0	0	29000.0	0	0	0	29000.0
	C CFS	52.87534	0	52.87534	0	0	0	52.87534
FUTURE CONTRACTOR - SOUTH BAY	Q AF	0	0	10000.0	0	0	0	10000.0
	C CFS	5.12466	0	49.54658	0	0	0	49.54658
TOTALS	Q AF	29000.0	0	181000.0	0	0	0	181000.0
	C CFS	58.00000	0	363.00000	0	0	0	363.00000
REACH 7 - SOUTH LIVERMORE TURNOUT THRU VALLECITOS TURNOUT								
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	Q AF	0	0	100000.0	0	0	0	100000.0
	C CFS	0	0	184.00000	0	0	0	184.00000
ALAMEDA COUNTY WATER DISTRICT	Q AF	37000.0	0	42000.0	0	0	0	42000.0
	C CFS	67.46165	0	76.57808	0	0	0	76.57808
FUTURE CONTRACTOR - SOUTH BAY	Q AF	-15000.0	0	10000.0	0	0	0	10000.0
	C CFS	-27.34932	0	44.42192	0	0	0	44.42192
TOTALS	Q AF	22000.0	0	152000.0	0	0	0	152000.0
	C CFS	40.11233	0	305.00000	0	0	0	305.00000
REACH 8 - VALLECITOS TURNOUT THRU ALAMEDA-BAYSIDE TURNOUT								
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	Q AF	0	0	100000.0	0	0	0	100000.0
	C CFS	0	0	184.00000	0	0	0	184.00000
ALAMEDA COUNTY WATER DISTRICT	Q AF	5000.0	0	5000.0	0	0	0	5000.0
	C CFS	16.00000	0	16.00000	0	0	0	16.00000
FUTURE CONTRACTOR - SOUTH BAY	Q AF	25000.0	0	25000.0	0	0	0	25000.0
	C CFS	45.58219	0	55.00000	0	0	0	55.00000
TOTALS	Q AF	30000.0	0	130000.0	0	0	0	130000.0
	C CFS	61.58219	0	255.00000	0	0	0	255.00000
REACH 9 - ALAMEDA-BAYSIDE TURNOUT THRU SANTA CLARA TERMINAL FACILITIES								
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	Q AF	100000.0	0	100000.0	0	0	0	100000.0
	C CFS	184.00000	0	184.00000	0	0	0	184.00000
TOTALS	Q AF	100000.0	0	100000.0	0	0	0	100000.0
	C CFS	184.00000	0	184.00000	0	0	0	184.00000



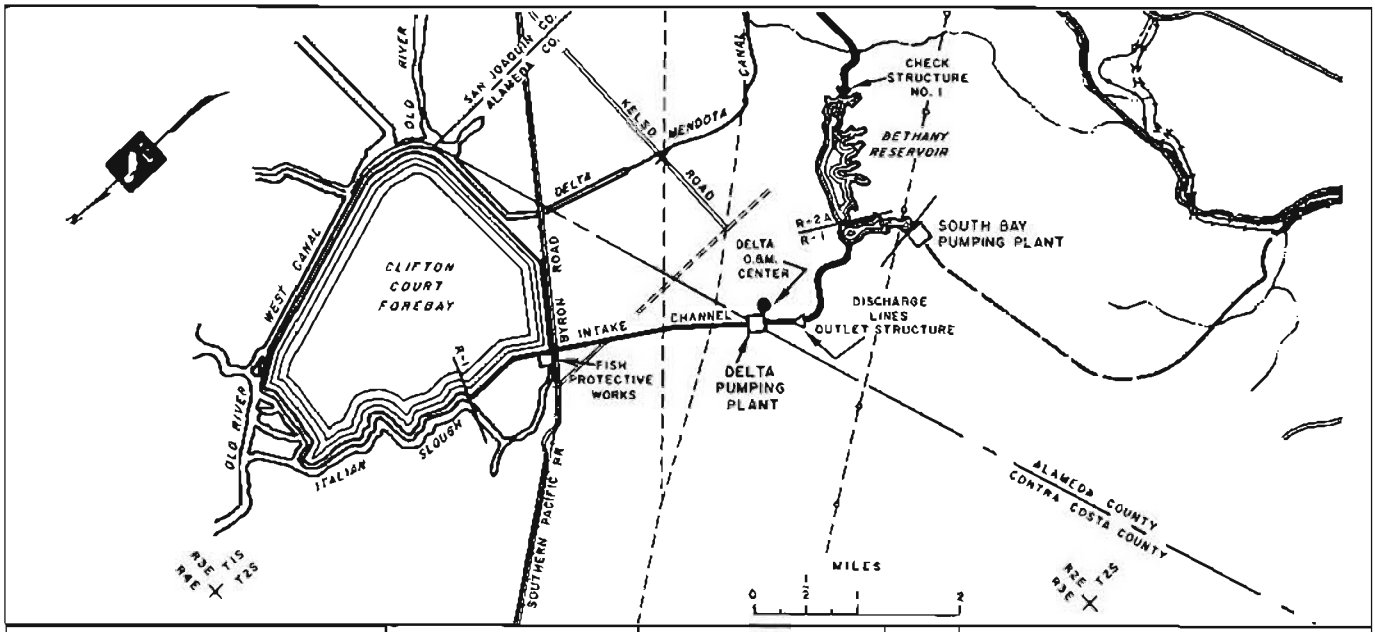
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 6 - DEL VALLE JUNCTION THRU SOUTH LIVERMORE TURNOUT
.55248619 .50688705	.52968662	0	100000.0 184.00000	.55248619 .50688705	.52968662	Q AF C CFS	SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT
.23204420 .21095890	.22150155	0	42000.0 76.57808	.23204420 .21095890	.22150155	Q AF C CFS	ALAMEDA COUNTY WATER DISTRICT
.16022099 .14566209	.15294154	0	29000.0 52.87534	.16022099 .14566209	.15294154	Q AF C CFS	ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7
.05524862 .13649196	.09587029	0	10000.0 49.54658	.05524862 .13649196	.09587029	Q AF C CFS	FUTURE CONTRACTOR - SOUTH BAY
1.00000000 1.00000000	1.00000000	0	181000.0 363.00000	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 7 - SOUTH LIVERMORE TURNOUT THRU VALLECITOS TURNOUT
.65789474 .60327869	.63058671	0	100000.0 184.00000	.65789474 .60327869	.63058671	Q AF C CFS	SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT
.27631579 .25107567	.26369573	0	42000.0 76.57808	.27631579 .25107567	.26369573	Q AF C CFS	ALAMEDA COUNTY WATER DISTRICT
.06578947 .14564564	.10571756	0	10000.0 44.42192	.06578947 .14564564	.10571756	Q AF C CFS	FUTURE CONTRACTOR - SOUTH BAY
1.00000000 1.00000000	1.00000000	0	152000.0 305.00000	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 8 - VALLECITOS TURNOUT THRU ALAMEDA-BAYSIDE TURNOUT
.76923077 .72156863	.74539970	0	100000.0 184.00000	.76923077 .72156863	.74539970	Q AF C CFS	SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT
.03846154 .06274510	.05060332	0	5000.0 16.00000	.03846154 .06274510	.05060332	Q AF C CFS	ALAMEDA COUNTY WATER DISTRICT
.19230769 .21568627	.20399698	0	25000.0 55.00000	.19230769 .21568627	.20399698	Q AF C CFS	FUTURE CONTRACTOR - SOUTH BAY
1.00000000 1.00000000	1.00000000	0	130000.0 255.00000	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 9 - ALAMEDA-BAYSIDE TURNOUT THRU SANTA CLARA TERMINAL FACILITIES
1.00000000 1.00000000	1.00000000	0	100000.0 184.00000	1.00000000 1.00000000	1.00000000	Q AF C CFS	SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT
1.00000000 1.00000000	1.00000000	0	100000.0 184.00000	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



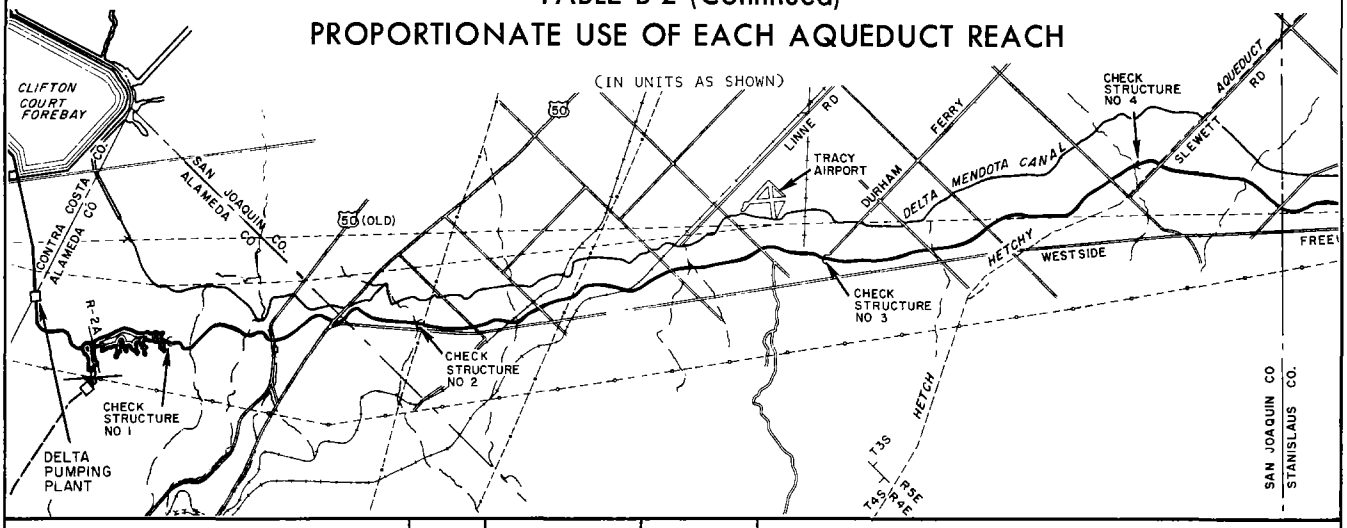
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
REACH 1 - DELTA THRU BETHANY RESERVOIR	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	A/F C/F	0 0	284.2 .46777	2011500.0 2863.18767	130640.2 205.17212	0 184.50468	0 0	2142040.2 3252.88043
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	A/F C/F	0 0	18.6 .03063	102600.0 172.33413	7382.9 11.06851	0 .73805	0 0	109982.9 183.84071
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	A/F C/F	0 0	4.1 .00675	28000.0 45.15178	2875.2 3.54461	0 1.25674	0 0	30875.2 49.76763
SAN GORGONIO PASS WATER AGENCY	A/F C/F	0 0	2.5 .00412	17300.0 24.05110	1246.7 2.01431	0 .12679	0 0	18546.7 31.19620
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	A/F C/F	0 0	.8 .00132	5800.0 9.75185	417.8 .67457	0 .03858	0 0	6217.8 10.46096
MOJAVE WATER AGENCY	A/F C/F	0 0	7.2 .01185	50800.0 70.16895	3262.8 5.47040	0 5.26267	0 0	54062.8 80.80211
DESERT WATER AGENCY	A/F C/F	0 0	5.4 .00889	38100.0 63.98043	2447.8 4.02769	0 .39877	0 0	40547.8 68.29832
COACHELLA VALLEY COUNTY WATER DISTRICT	A/F C/F	0 0	3.3 .00543	23100.0 34.80205	1483.8 2.44221	0 .24779	0 0	24583.8 41.36241
ANTELOPE VALLEY-EAST KERN WATER AGENCY	A/F C/F	0 0	14.2 .02340	144400.0 191.16806	6026.3 9.91886	0 14.33768	0 0	144426.3 215.42550
LITTLEROCK CREEK IRRIGATION DISTRICT	A/F C/F	0 0	.5 .00049	2300.0 3.17694	116.0 .19092	0 .23827	0 0	2416.0 3.60613
PALMDALE IRRIGATION DISTRICT	A/F C/F	0 0	2.4 .00395	17300.0 23.89412	835.2 1.37476	0 1.74221	0 0	18135.2 27.06343
VENTURA COUNTY FLOOD CONTROL DISTRICT	A/F C/F	0 0	2.8 .00461	20000.0 27.62457	1098.8 1.72418	0 2.10417	0 0	21098.8 31.49500
UPPER SANTA CLARA VALLEY WATER AGENCY	A/F C/F	0 0	5.8 .00955	41500.0 57.33504	2279.0 3.58165	0 4.36615	0 0	43779.0 65.27084
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	A/F C/F	0 0	16.3 .02683	116600.0 161.06521	5403.1 5.60127	0 0	0 0	122003.1 223.66648
KERN COUNTY WATER AGENCY AGRICULTURE	A/F C/F	0 0	140.9 .23141	1039900.0 3058.42860	27659.0 45.92581	0 0	0 0	1081459.0 3104.46341
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	A/F C/F	0 0	8.1 .01333	57700.0 79.69077	3250.6 5.81457	0 6.19604	0 0	60950.6 90.82627
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	A/F C/F	0 0	3.5 .00576	25000.0 34.53107	1107.7 1.75693	0 2.69545	0 0	26107.7 38.98474
DEVIL S DEN WATER DISTRICT	A/F C/F	0 0	1.7 .00280	12700.0 17.60125	322.0 .53147	0 0	0 0	13022.0 18.13272
DUDLEY RIDGE WATER DISTRICT	A/F C/F	0 0	7.8 .01284	57700.0 172.15151	1060.8 1.74617	0 0	0 0	58760.8 173.89768
TULARE LAKE BASIN WATER STORAGE DISTRICT	A/F C/F	0 0	14.8 .02436	110000.0 328.19174	1013.7 3.10082	0 0	0 0	111013.7 331.34141
HACIENDA WATER DISTRICT	A/F C/F	0 0	1.1 .00181	8500.0 25.36027	156.1 .25693	0 0	0 0	8656.1 25.61720
EMPIRE WEST SIDE IRRIGATION DISTRICT	A/F C/F	0 0	.4 .00066	3000.0 8.95069	46.8 .08198	0 0	0 0	3046.8 9.03267
KINGS COUNTY	A/F C/F	0 0	.5 .00082	4000.0 7.29315	66.5 .10949	0 0	0 0	4066.5 7.40259
OAK FLAT WATER DISTRICT	A/F C/F	0 0	.8 .00132	5700.0 17.00618	50.4 .05000	0 0	0 0	5750.4 17.05634
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	A/F C/F	0 0	13.5 .02252	100000.0 149.02267	1735.1 2.90023	0 1.70237	0 0	101735.1 153.12557
ALAMEDA COUNTY WATER DISTRICT	A/F C/F	0 0	5.7 .00938	42000.0 62.60715	718.2 .00355	0 .71490	0 0	42718.2 64.31369
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	A/F C/F	0 0	6.2 .01020	46000.0 68.55218	728.4 1.00223	0 .79308	0 0	46734.4 70.33749
FUTURE CONTRACTOR - SOUTH BAY	A/F C/F	0 0	3.1 .00510	22000.0 9.71126	1580.8 2.18435	0 .37452	0 0	23580.8 12.27015
TOTALS	A/F C/F	0 0	577.0 .94970	4145200.0 7873.53658	203002.0 322.23851	0 227.55115	0 0	4348202.0 8423.32626



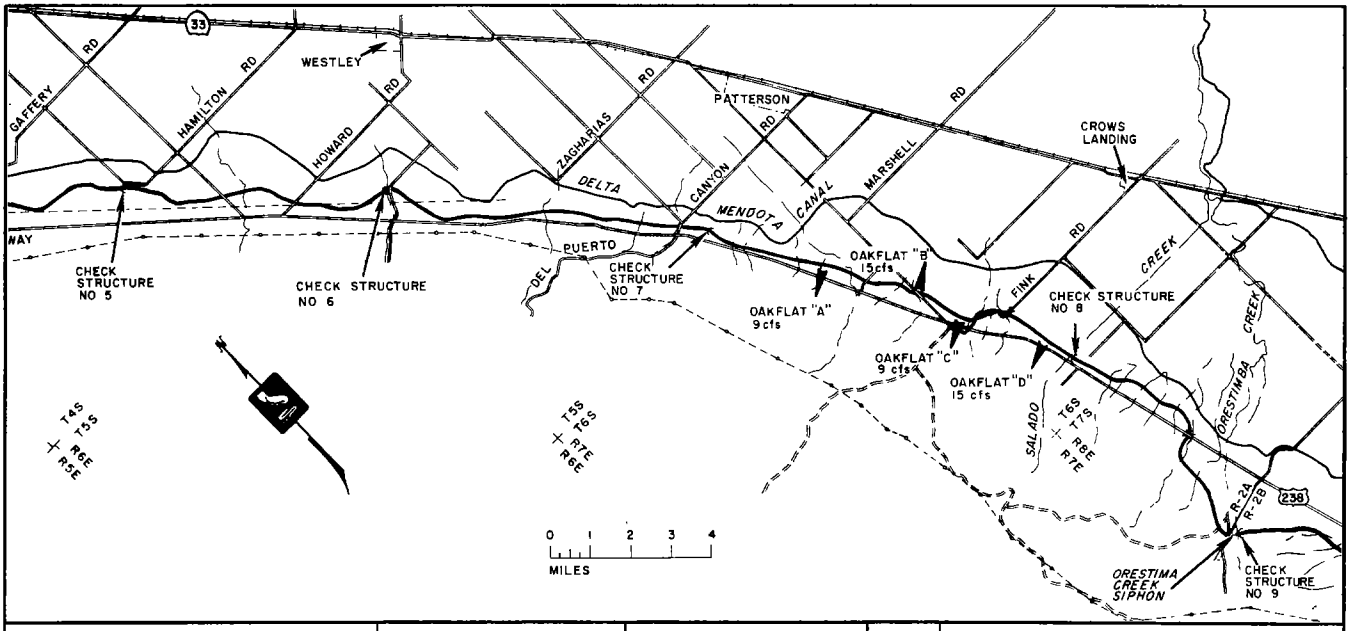
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMAR COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	REACH 1 - DELTA THRU BETHANY RESERVOIR
.49262665 .38617882	.43940274	0	2142040.2 7252.90945	.49262665 .38617882	.43940274	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.02529618 .02196766	.02363192	0	109992.9 185.04071	.02529618 .02196766	.02363192	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00710068 .00590831	.00650450	0	30875.2 49.76763	.00710068 .00590831	.00650450	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00426537 .00370355	.00398446	0	18546.7 31.19620	.00426537 .00370355	.00398446	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00142999 .00124262	.00133630	0	6217.9 10.46696	.00142999 .00124262	.00133630	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01243339 .00959266	.01101303	0	54062.9 80.80211	.01243339 .00959266	.01101303	Q AF C CFS	MOJAVE WATER AGENCY
.00932500 .00810349	.00871425	0	40547.0 68.25832	.00932500 .00810349	.00871425	Q AF C CFS	DESERT WATER AGENCY
.00565379 .00491408	.00528393	0	24583.8 41.39291	.00565379 .00491408	.00528393	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.03321518 .02557488	.02939503	0	144426.5 215.49550	.03321518 .02557488	.02939503	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00055563 .00042811	.00049187	0	2416.0 3.60613	.00055563 .00042811	.00049187	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00417074 .00321287	.00369180	0	18135.2 27.06303	.00417074 .00321287	.00369180	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00485230 .00373438	.00429334	0	21098.8 31.46580	.00485230 .00373438	.00429334	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01006851 .00774882	.00890866	0	43779.4 65.27084	.01006851 .00774882	.00890866	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.02828827 .02455323	.02742075	0	123003.1 183.66648	.02828827 .02455323	.02742075	C AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.24411446 .36855442	.30633444	0	1061459.0 3104.45341	.24411446 .36855442	.30633444	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
.01401743 .01078271	.01240007	0	60960.6 90.89627	.01401743 .01078271	.01240007	Q AF C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00600425 .00461869	.00531147	0	26107.7 38.90474	.00600425 .00461869	.00531147	Q AF C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00299501 .00456147	.00377824	0	13022.4 38.42270	.00299501 .00456147	.00377824	Q AF C CFS	DEVIL S DEN WATER DISTRICT
.01351384 .02064478	.01707931	0	58760.9 173.80768	.01351384 .02064478	.01707931	Q AF C CFS	DUDLEY RIDGE WATER DISTRICT
.02573793 .03933621	.03253707	0	111913.7 331.34161	.02573793 .03933621	.03253707	Q AF C CFS	TULARE LAKE BASIN WATER STORAGE DISTRICT
.00199073 .00304122	.00251598	0	8656.1 25.61720	.00199073 .00304122	.00251598	Q AF C CFS	HACIENDA WATER DISTRICT
.00070139 .00107234	.00088687	0	3049.8 9.03267	.00070139 .00107234	.00088687	Q AF C CFS	EMPIRE WEST SIDE IRRIGATION DISTRICT
.00093521 .00087882	.00090702	0	4066.5 7.40259	.00093521 .00087882	.00090702	Q AF C CFS	KINGS COUNTY
.00131788 .00202489	.00167139	0	5730.4 17.05634	.00131788 .00202489	.00167139	Q AF C CFS	OAK FLAT WATER DISTRICT
.02339705 .01817876	.02078790	0	101735.1 153.12557	.02339705 .01817876	.02078790	Q AF C CFS	SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT
.00982434 .00763519	.00872976	0	42718.2 64.31369	.00982434 .00763519	.00872976	Q AF C CFS	ALAMEDA COUNTY WATER DISTRICT
.01074568 .00835033	.00954800	0	46724.4 70.33749	.01074568 .00835033	.00954800	Q AF C CFS	ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7
.00542312 .00145669	.00343990	0	23580.8 12.27015	.00542312 .00145669	.00343990	Q AF C CFS	FUTURE CONTRACTOR - SOUTH BAY
1.00000000 1.00000000	1.00000000	0	4348202.0 8423.32426	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



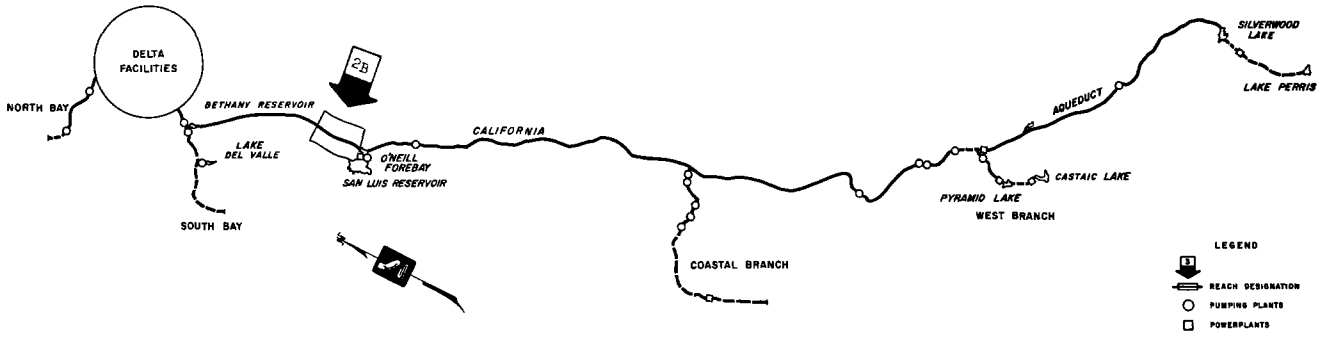
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 2A - BETHANY RESERVOIR TO ORESTIMBA CREEK								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	11067.2	2011500.0	130256.0	0	0	2141756.0
	C CFS	0	18.21585	2863.14267	204.70435	184.59464	0	3252.44166
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	568.3	102600.0	7378.3	0	0	109978.3
	C CFS	0	.93538	172.33413	11.94450	.73805	0	185.01668
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	159.5	28800.0	2071.1	0	0	30871.1
	C CFS	0	.26253	45.15128	3.35286	1.25674	0	49.76088
SAN GORGONIO PASS WATER AGENCY	Q AF	0	95.8	17300.0	1244.2	0	0	18544.2
	C CFS	0	.15768	29.05110	2.01410	.12679	0	31.19208
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	32.1	5800.0	417.1	0	0	6217.1
	C CFS	0	.05283	9.75185	.67525	.03854	0	10.46564
MOJAVE WATER AGENCY	Q AF	0	279.3	50800.0	3255.7	0	0	54055.7
	C CFS	0	.45971	70.16895	5.35864	5.26267	0	80.79026
DESERT WATER AGENCY	Q AF	0	209.5	38100.0	2441.6	0	0	40541.6
	C CFS	0	.34482	63.98093	4.01873	.24977	0	68.24943
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	127.0	23100.0	1480.5	0	0	24580.5
	C CFS	0	.20903	38.80295	2.43678	.14775	0	41.38748
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	746.2	138400.0	6007.1	0	0	144407.1
	C CFS	0	1.22819	191.16896	9.88726	14.33768	0	215.39390
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	12.5	2300.0	115.7	0	0	2415.7
	C CFS	0	.02057	3.17694	.19043	.23827	0	3.60564
PALMDALE IRRIGATION DISTRICT	Q AF	0	93.7	17300.0	832.8	0	0	18132.8
	C CFS	0	.15422	23.89612	1.37075	1.79221	0	27.05908
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	109.0	20000.0	1096.0	0	0	21096.0
	C CFS	0	.17941	27.62557	1.72155	2.10417	0	31.45129
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	226.2	41500.0	2274.1	0	0	43774.1
	C CFS	0	.37231	57.32306	3.57210	4.36613	0	65.26129
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	635.5	119600.0	3386.8	0	0	122986.8
	C CFS	0	1.04599	218.06521	5.57444	0	0	223.63965
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	0	5484.2	1033800.0	27518.1	0	0	1061318.1
	C CFS	0	9.02662	3058.92860	45.29290	0	0	3104.22150
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	314.9	57700.0	3242.5	0	0	60942.5
	C CFS	0	.51830	79.69977	5.00624	6.10693	0	90.81294
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	134.9	25000.0	1104.2	0	0	26104.2
	C CFS	0	.22204	34.53197	1.75116	2.61585	0	38.89898
DEVIL S DEN WATER DISTRICT	Q AF	0	67.3	12700.0	321.2	0	0	13021.2
	C CFS	0	.11077	37.89123	.52867	0	0	38.41990
DUDLEY RIDGE WATER DISTRICT	Q AF	0	303.6	57700.0	1053.1	0	0	58753.1
	C CFS	0	.49971	172.15151	1.73333	0	0	173.88484
TULARE LAKE BASIN WATER STORAGE DISTRICT	Q AF	0	578.2	110000.0	1898.9	0	0	111898.9
	C CFS	0	.95168	328.19179	3.12546	0	0	331.31725
HACIENDA WATER DISTRICT	Q AF	0	44.7	8500.0	155.0	0	0	8655.0
	C CFS	0	.07357	25.36027	.25512	0	0	25.61539
EMPIRE WEST SIDE IRRIGATION DISTRICT	Q AF	0	15.8	3000.0	49.4	0	0	3049.4
	C CFS	0	.02601	8.95069	.08132	0	0	9.03201
KINGS COUNTY	Q AF	0	21.0	4000.0	66.0	0	0	4066.0
	C CFS	0	.03457	7.29315	.10862	0	0	7.40177
OAK FLAT WATER DISTRICT	Q AF	5700.0	29.6	5700.0	29.6	0	0	5729.6
	C CFS	17.00630	.04872	17.00630	.04872	0	0	17.05502
TOTALS	Q AF	5700.0	21356.0	3935200.0	197695.0	0	0	4132895.0
	C CFS	17.00630	35.15051	7583.64500	314.75337	223.97619	0	8122.37456



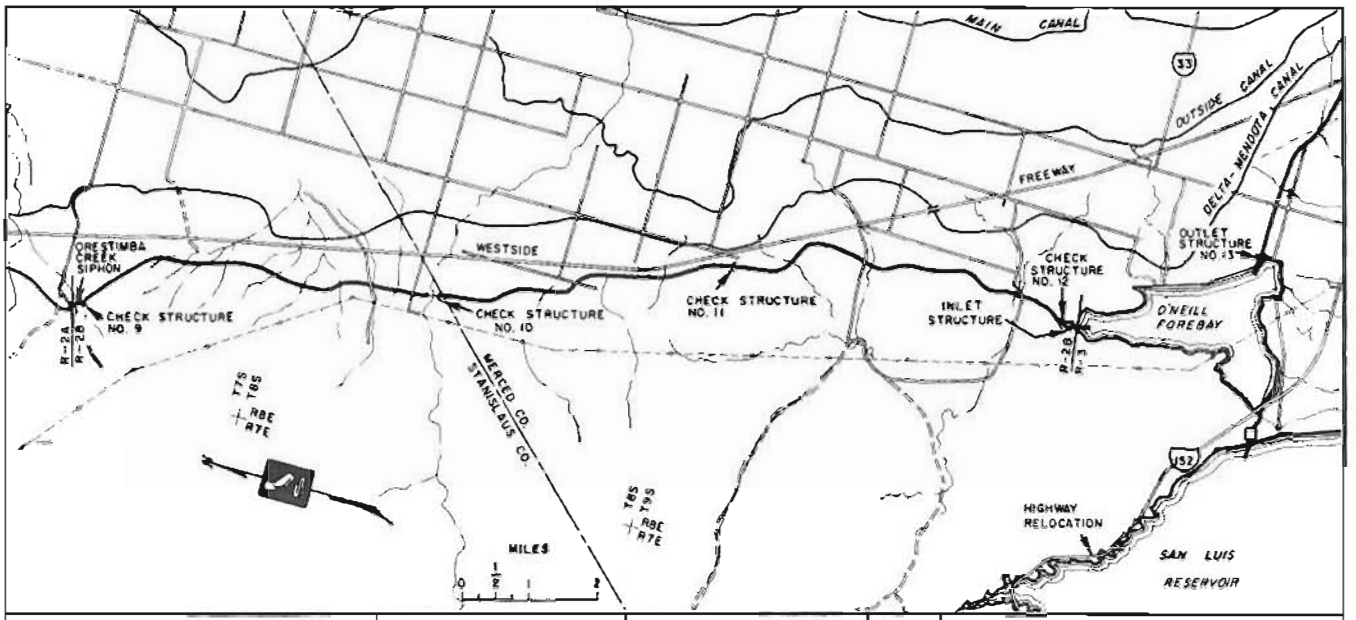
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	REACH 2A- BETHANY RESERVOIR TO ORESTIMBA CREEK
.51822173 .40042990	.45932582	0	2141756.0 3252.44166	.51822173 .40042990	.45932582	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.02661047 .02277864	.02469456	0	109978.3 185.01668	.02661047 .02277864	.02469456	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00746961 .00612640	.00679800	0	30871.1 49.76088	.00746961 .00612640	.00679800	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00448698 .00384027	.00416362	0	18544.2 31.19208	.00448698 .00384027	.00416362	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00150430 .00128850	.00139640	0	6217.1 10.46564	.00150430 .00128850	.00139640	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01307938 .00994663	.01151300	0	54055.7 80.79026	.01307938 .00994663	.01151300	Q AF C CFS	MOJAVE WATER AGENCY
.00980949 .00840264	.00910607	0	40541.6 68.24943	.00980940 .00840264	.00910607	Q AF C CFS	DESERT WATER AGENCY
.00594753 .00509549	.00552151	0	24580.5 41.38748	.00594753 .00509549	.00552151	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.03494091 .02651859	.03072975	0	144407.1 215.36390	.03404091 .02651859	.03072975	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00058450 .00044391	.00051421	0	2415.7 3.60564	.00058450 .00044391	.00051421	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00438743 .00333142	.00385943	0	18132.8 27.05908	.00438743 .00333142	.00385943	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00510441 .00387218	.00448829	0	21096.0 31.45129	.00510441 .00387218	.00448829	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01059163 .00803476	.00931319	0	43774.1 65.26129	.01059163 .00803476	.00931319	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.02975803 .02753378	.02864590	0	122986.8 223.63965	.02975803 .02753378	.02864590	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.25679774 .38218153	.31948963	0	1061318.1 3104.22150	.25679774 .38218153	.31948963	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
.01474572 .01118059	.01296315	0	60942.5 90.81294	.01474572 .01118059	.01296315	Q AF C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00631620 .00478911	.00555266	0	26104.2 38.89898	.00631620 .00478911	.00555266	Q AF C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00315062 .00473013	.00394038	0	13021.2 38.41990	.00315062 .00473013	.00394038	Q AF C CFS	DEVIL S DEN WATER DISTRICT
.01421597 .02140813	.01781205	0	58753.1 173.88484	.01421597 .02140813	.01781205	Q AF C CFS	DUDLEY RIDGE WATER DISTRICT
.02707519 .04079069	.03393294	0	111898.9 331.31725	.02707519 .04079069	.03393294	Q AF C CFS	TULARE LAKE BASIN WATER STORAGE DISTRICT
.00209417 .00315368	.00262393	0	8655.0 25.61539	.00209417 .00315368	.00262393	Q AF C CFS	HACIENDA WATER DISTRICT
.00073784 .00111199	.00092491	0	3049.4 9.03201	.00073784 .00111199	.00092491	Q AF C CFS	EMPIRE WEST SIDE IRRIGATION DISTRICT
.00098381 .00091128	.00094755	0	4066.0 7.40177	.00098381 .00091128	.00094755	Q AF C CFS	KINGS COUNTY
.00138634 .00209976	.00174305	0	5729.6 17.05502	.00138634 .00209976	.00174305	Q AF C CFS	OAK FLAT WATER DISTRICT
1.00000000 1.00000000	1.00000000	0	4132895.0 8122.37456	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



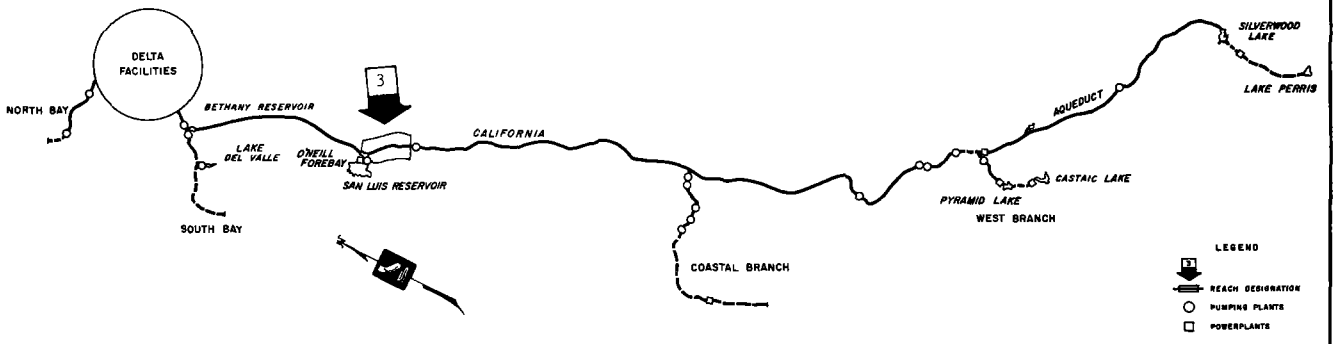
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
REACH 2B - ORESTIMBA CREEK TO O'NEILL FOREBAY	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	3499.7	2011500.0	119188.8	0	0	2130688.8
	C CFS	0	5.76027	2863.14267	186.48850	184.59464	0	3234.22581
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	179.7	102600.0	6810.0	0	0	109410.0
	C CFS	0	.29577	172.33413	11.00912	.73805	0	184.08130
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	50.4	28800.0	1911.6	0	0	30711.6
	C CFS	0	.08296	45.15128	3.09033	1.25674	0	49.49835
SAN GORGONIO PASS WATER AGENCY	Q AF	0	30.3	17300.0	1148.4	0	0	18448.4
	C CFS	0	.04987	29.05110	1.85651	.12679	0	31.03440
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	10.2	5800.0	385.0	0	0	6185.0
	C CFS	0	.01679	9.75185	.62242	.03854	0	10.41281
MOJAVE WATER AGENCY	Q AF	0	88.3	50800.0	2976.4	0	0	53776.4
	C CFS	0	.14534	70.16895	4.89893	5.26267	0	80.33055
DESERT WATER AGENCY	Q AF	0	66.2	38100.0	2232.1	0	0	40332.1
	C CFS	0	.10896	63.98093	3.67391	.24977	0	67.90461
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	40.2	23100.0	1353.5	0	0	24453.5
	C CFS	0	.06617	38.80295	2.22775	.14775	0	41.17845
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	236.0	138400.0	5260.9	0	0	143660.9
	C CFS	0	.38844	191.16896	8.65907	14.33768	0	214.16571
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	3.9	2300.0	103.2	0	0	2403.2
	C CFS	0	.00642	3.17694	.16986	.23827	0	3.58507
PALMDALE IRRIGATION DISTRICT	Q AF	0	29.6	17300.0	739.1	0	0	18039.1
	C CFS	0	.04872	23.89612	1.21653	1.79221	0	26.90486
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	34.5	20000.0	987.0	0	0	20987.0
	C CFS	0	.05678	27.62557	1.54214	2.10417	0	31.27188
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	71.5	41500.0	2047.9	0	0	43547.9
	C CFS	0	.11768	57.32306	3.19979	4.36613	0	64.88898
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	201.0	119600.0	2751.3	0	0	122351.3
	C CFS	0	.33083	218.06521	4.52845	0	0	222.59366
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	0	1734.3	1033800.0	22033.9	0	0	1055833.9
	C CFS	0	2.85454	1058.92860	36.26628	0	0	1095.19488
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	99.6	57700.0	2927.6	0	0	60627.6
	C CFS	0	.16393	79.69977	4.48794	6.10693	0	90.29464
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	42.7	25000.0	969.3	0	0	25969.3
	C CFS	0	.07028	34.53197	1.52912	2.61585	0	38.67694
DEVIL S DEN WATER DISTRICT	Q AF	0	21.3	12700.0	253.9	0	0	12953.9
	C CFS	0	.03506	17.88123	.41790	0	0	18.30913
DUDLEY RIDGE WATER DISTRICT	Q AF	0	96.0	57700.0	749.5	0	0	58449.5
	C CFS	0	.15801	172.15151	1.23362	0	0	173.38513
TULARE LAKE BASIN WATER STORAGE DISTRICT	Q AF	0	182.9	110000.0	1320.7	0	0	111320.7
	C CFS	0	.30104	328.19179	2.17378	0	0	330.36557
HACIENDA WATER DISTRICT	Q AF	0	14.1	8500.0	110.3	0	0	8610.3
	C CFS	0	.02321	25.36027	.18155	0	0	25.54182
EMPIRE WEST SIDE IRRIGATION DISTRICT	Q AF	0	5.0	3000.0	33.6	0	0	3033.6
	C CFS	0	.00823	8.95069	.05531	0	0	9.00600
KINGS COUNTY	Q AF	0	6.6	4000.0	45.0	0	0	4045.0
	C CFS	0	.01086	7.29315	.07405	0	0	7.36720
TOTALS	Q AF	0	6744.0	3929500.0	176339.0	0	0	4105839.0
	C CFS	0	11.10016	7566.63870	279.60286	223.97619	0	8070.21775



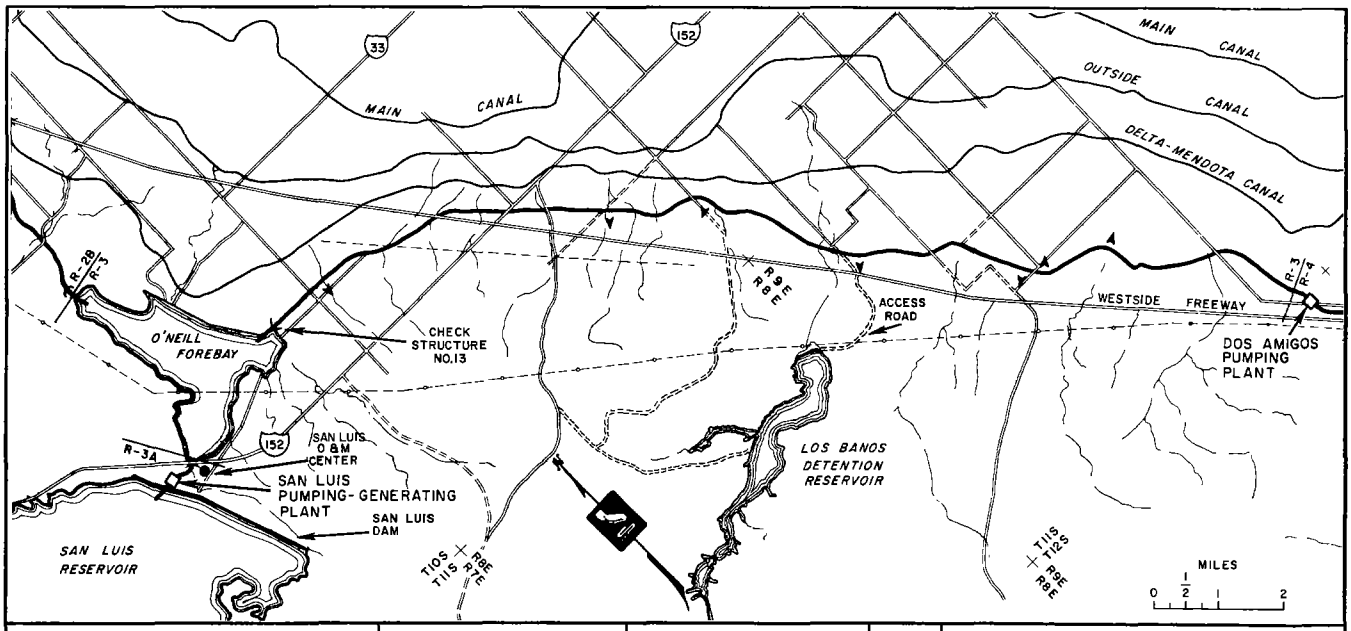
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OM&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	REACH 2B- ORESTIMBA CREEK TO O'NEILL FOREBAY
.51894115 .40076066	.45985090	0	213068.4 3234.22581	.51894115 .40076066	.45985090	A F C F S	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.02664742 .02280995	.02472869	0	10941.0 184.08130	.02664742 .02280995	.02472869	A F C F S	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00747998 .00613346	.00680672	0	3071.6 49.49835	.00747998 .00613346	.00680672	A F C F S	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00449321 .00384585	.00416938	0	1844.4 31.03440	.00449321 .00384585	.00416938	A F C F S	SAN GORGONIO PASS WATER AGENCY
.00150639 .00129028	.00139833	0	618.0 10.41281	.00150639 .00129028	.00139833	A F C F S	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01309754 .00995395	.01152575	0	5377.4 80.33055	.01309754 .00995395	.01152575	A F C F S	MOJAVE WATER AGENCY
.00982311 .00841422	.00911867	0	4033.1 67.90461	.00982311 .00841422	.00911867	A F C F S	DESERT WATER AGENCY
.00595579 .00510252	.00552915	0	2445.5 41.17845	.00595579 .00510252	.00552915	A F C F S	COACHELLA VALLEY COUNTY WATER DISTRICT
.03498941 .02653779	.03076360	0	14366.7 214.16571	.03498941 .02653779	.03076360	A F C F S	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00058531 .00044423	.00051477	0	240.3.2 3.58507	.00058531 .00044423	.00051477	A F C F S	LITTLEROCK CREEK IRRIGATION DISTRICT
.00439352 .00333385	.00386368	0	1803.9.1 26.90486	.00439352 .00333385	.00386368	A F C F S	PALMDALE IRRIGATION DISTRICT
.00511150 .00387497	.00449324	0	2098.7.0 31.27188	.00511150 .00387497	.00449324	A F C F S	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01060633 .00804055	.00932344	0	4354.7.9 64.89888	.01060633 .00804055	.00932344	A F C F S	UPPER SANTA CLARA VALLEY WATER AGENCY
.02979934 .02258211	.02869073	0	12236.1.4 182.50366	.02979934 .02258211	.02869073	A F C F S	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.25715424 .38353301	.32034362	0	10558.33.4 3095.19488	.25715424 .38353301	.32034362	A F C F S	KERN COUNTY WATER AGENCY AGRICULTURE
.01476619 .01118862	.01297741	0	6062.7.6 90.29464	.01476619 .01118862	.01297741	A F C F S	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00632497 .00479255	.00555876	0	2596.9.3 38.67694	.00632497 .00479255	.00555876	A F C F S	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00315500 .00474698	.00395099	0	1295.3.0 38.30913	.00315500 .00474698	.00395099	A F C F S	DEVIL S DEN WATER DISTRICT
.01423570 .02148457	.01786013	0	5844.5.5 173.38513	.01423570 .02148457	.01786013	A F C F S	DUDLEY RIDGE WATER DISTRICT
.02711278 .04093639	.03402458	0	11132.0.7 330.36567	.02711278 .04093639	.03402458	A F C F S	TULARE LAKE BASIN WATER STORAGE DISTRICT
.00209709 .00316495	.00263102	0	861.0.3 25.54187	.00209709 .00316495	.00263102	A F C F S	HACIENDA WATER DISTRICT
.00073885 .00111595	.00092740	0	303.3.6 9.00600	.00073885 .00111595	.00092740	A F C F S	EMPIRE WEST SIDE IRRIGATION DISTRICT
.00098518 .00091289	.00094904	0	404.5.0 7.36720	.00098518 .00091289	.00094904	A F C F S	KINGS COUNTY
1.00000000 1.00000000	1.00000000	0	410583.9.0 8070.21775	1.00000000 1.00000000	1.00000000	A F C F S	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



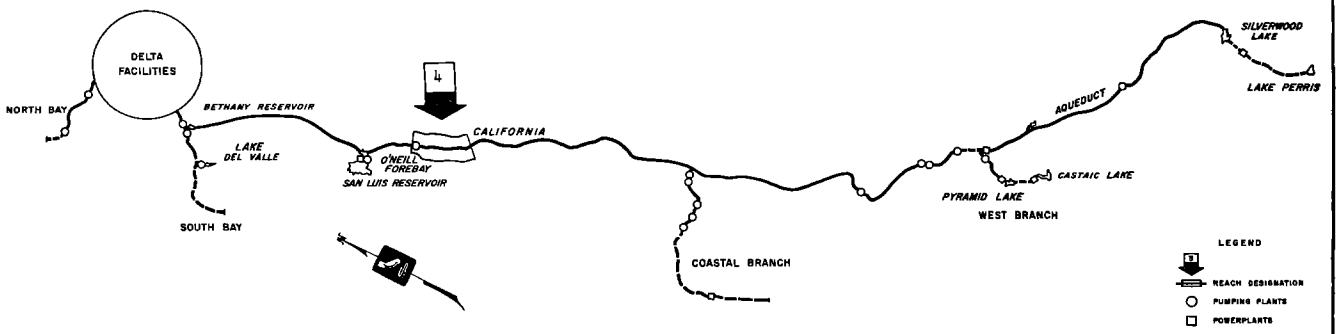
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 3 - O'NEILL FOREBAY TO DOS AMIGOS PUMPING PLANT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	3668.9	2011500.0	115689.1	0	0	2127189.1
	C CFS	0	6.03876	2863.14267	180.72823	184.59464	0	3228.46554
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	188.4	102600.0	6630.3	0	0	109230.3
	C CFS	0	.31009	172.33413	10.71335	.73805	0	183.78553
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	52.9	28800.0	1861.2	0	0	30661.2
	C CFS	0	.08707	46.15128	3.00737	1.25674	0	49.41539
SAN GORGONIO PASS WATER AGENCY	Q AF	0	31.8	17300.0	1118.1	0	0	18418.1
	C CFS	0	.05234	29.05110	1.80664	.12679	0	30.98453
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	10.7	5800.0	374.8	0	0	6174.8
	C CFS	0	.01761	9.75185	.60563	.03854	0	10.39602
MOJAVE WATER AGENCY	Q AF	0	92.6	50800.0	2888.1	0	0	53688.1
	C CFS	0	.15241	70.16895	4.75359	5.26267	0	80.18521
DESERT WATER AGENCY	Q AF	0	69.4	38100.0	2165.0	0	0	40265.9
	C CFS	0	.11423	63.98093	3.56495	.24977	0	67.79565
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	42.1	23100.0	1313.3	0	0	24413.3
	C CFS	0	.06929	38.80295	2.16158	.14775	0	41.11228
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	247.4	138400.0	5024.0	0	0	143424.9
	C CFS	0	.40720	191.16896	8.27063	14.33768	0	213.77727
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	4.1	2300.0	99.3	0	0	2399.3
	C CFS	0	.00675	3.17694	.16344	.23827	0	3.57865
PALMDALE IRRIGATION DISTRICT	Q AF	0	31.1	17300.0	709.5	0	0	18009.5
	C CFS	0	.05119	23.89612	1.16781	1.79221	0	26.85614
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	36.1	20000.0	952.5	0	0	20952.5
	C CFS	0	.05942	27.62557	1.48536	2.10417	0	31.21510
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	75.0	41500.0	1976.4	0	0	43476.4
	C CFS	0	.12345	57.32306	3.08211	4.36613	0	64.77130
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	210.7	119600.0	2550.3	0	0	122150.3
	C CFS	0	.34680	218.06521	4.19762	0	0	222.26283
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	0	1818.1	1033800.0	20299.6	0	0	1054099.6
	C CFS	0	2.99247	3058.92860	33.41174	0	0	3092.34034
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	104.4	57700.0	2828.0	0	0	60528.0
	C CFS	0	.17184	79.69977	4.32401	6.10693	0	90.13071
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	44.7	25000.0	926.6	0	0	25926.6
	C CFS	0	.07357	34.53197	1.45884	2.61585	0	38.60666
DEVIL S DEN WATER DISTRICT	Q AF	0	22.3	12700.0	232.6	0	0	12932.6
	C CFS	0	.03670	37.89123	.38284	0	0	38.27407
DUDLEY RIDGE WATER DISTRICT	Q AF	0	100.6	57700.0	653.5	0	0	58353.5
	C CFS	0	.16558	172.15151	1.07561	0	0	173.22712
TULARE LAKE BASIN WATER STORAGE DISTRICT	Q AF	0	191.7	110000.0	1137.8	0	0	111137.8
	C CFS	0	.31563	328.19179	1.87274	0	0	330.06453
HACIENDA WATER DISTRICT	Q AF	0	14.8	8500.0	96.2	0	0	8596.2
	C CFS	0	.02436	25.36027	.15834	0	0	25.51861
EMPIRE WEST SIDE IRRIGATION DISTRICT	Q AF	0	5.2	3000.0	28.6	0	0	3028.6
	C CFS	0	.00856	8.95069	.04708	0	0	8.99777
KINGS COUNTY	Q AF	0	7.0	4000.0	38.4	0	0	4038.4
	C CFS	0	.01152	7.29315	.06319	0	0	7.35634
TOTALS	Q AF	0	7070.0	3929500.0	169595.0	0	0	4099095.0
	C CFS	0	11.63674	7566.63870	268.50270	223.97619	0	8059.11759



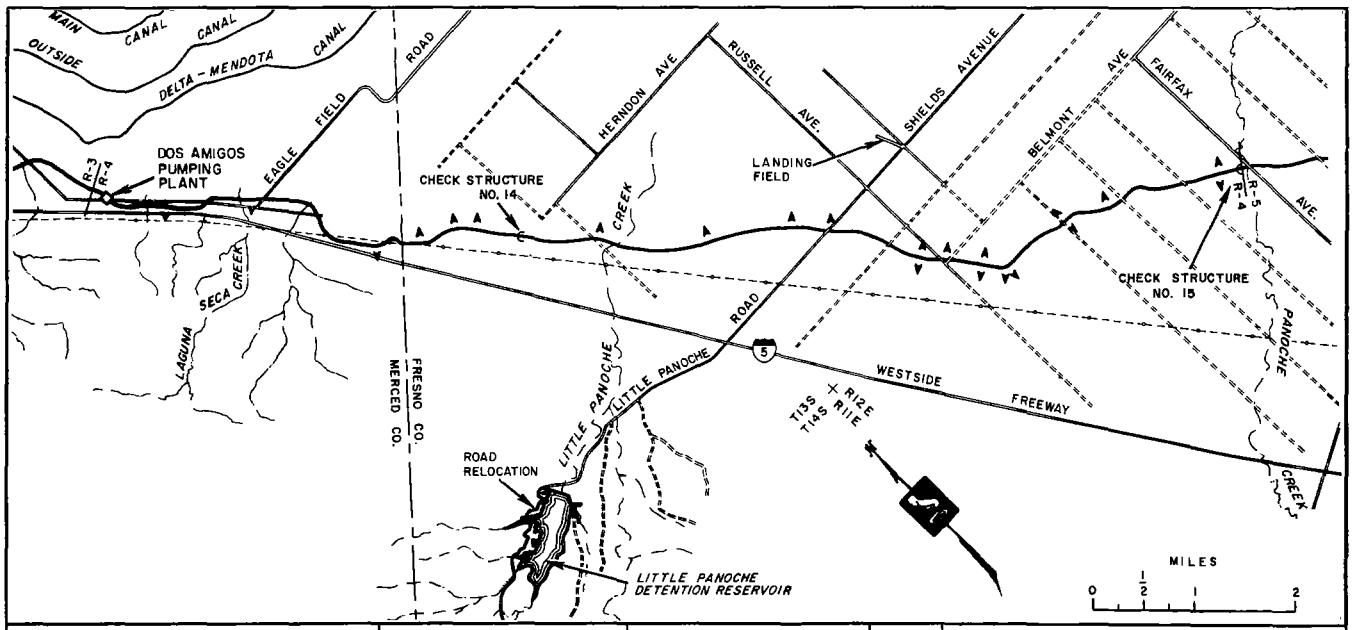
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	REACH 3 - O'NEILL FOREBAY TO DOS AMIGOS PUMPING PLANT
.51894116			2127189.1	.51894116		Q AF	
.40059790	.45976953	0	3228.46554	.40059790	.45976953	C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.02664742			109230.4	.02664742		Q AF	
.02280467	.02472604	0	183.78553	.02280467	.02472604	C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00747999			30661.2	.00747999		Q AF	
.00613161	.00680580	0	49.41539	.00613161	.00680580	C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00449321			18418.1	.00449321		Q AF	
.00384466	.00416893	0	30.98453	.00384466	.00416893	C CFS	SAN GORGONIO PASS WATER AGENCY
.00150638			6174.8	.00150638		Q AF	
.00128997	.00139818	0	10.39602	.00128997	.00139818	C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01309755			53688.1	.01309755		Q AF	
.00994963	.01152359	0	80.18521	.00994963	.01152359	C CFS	MOJAVE WATER AGENCY
.00982312			40265.9	.00982312		Q AF	
.00841229	.00911771	0	67.79565	.00841229	.00911771	C CFS	DESERT WATER AGENCY
.00595578			24413.3	.00595578		Q AF	
.00510134	.00552856	0	41.11228	.00510134	.00552856	C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.03498941			143424.9	.03498941		Q AF	
.02652614	.03075777	0	213.77727	.02652614	.03075777	C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00058532			2399.3	.00058532		Q AF	
.00044405	.00051469	0	3.57865	.00044405	.00051469	C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00439353			18009.5	.00439353		Q AF	
.00333239	.00386296	0	26.85614	.00333239	.00386296	C CFS	PALMDALE IRRIGATION DISTRICT
.00511149			20952.5	.00511149		Q AF	
.00387327	.00449238	0	31.21510	.00387327	.00449238	C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01060634			43476.4	.01060634		Q AF	
.00803702	.00932168	0	64.77130	.00803702	.00932168	C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.02979933			122150.3	.02979933		Q AF	
.02757905	.02868919	0	222.26283	.02757905	.02868919	C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.25715423			1054099.6	.25715423		Q AF	
.38370706	.32043064	0	3092.34034	.38370706	.32043064	C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
.01476619			60528.0	.01476619		Q AF	
.01118369	.01297494	0	90.13071	.01118369	.01297494	C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00632496			25926.6	.00632496		Q AF	
.00479043	.00555769	0	38.60666	.00479043	.00555769	C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00315499			12932.6	.00315499		Q AF	
.00474916	.00395208	0	38.27407	.00474916	.00395208	C CFS	DEVIL S DEN WATER DISTRICT
.01423570			58353.5	.01423570		Q AF	
.02149455	.01786513	0	173.22712	.02149455	.01786513	C CFS	DUDLEY RIDGE WATER DISTRICT
.02711276			111137.8	.02711276		Q AF	
.04095542	.03403409	0	330.06453	.04095542	.03403409	C CFS	TULARE LAKE BASIN WATER STORAGE DISTRICT
.00209710			8596.2	.00209710		Q AF	
.00316643	.00263176	0	25.51861	.00316643	.00263176	C CFS	HACIENDA WATER DISTRICT
.00073885			3028.6	.00073885		Q AF	
.00111647	.00092766	0	8.99777	.00111647	.00092766	C CFS	EMPIRE WEST SIDE IRRIGATION DISTRICT
.00098519			4038.4	.00098519		Q AF	
.00091280	.00094900	0	7.35634	.00091280	.00094900	C CFS	KINGS COUNTY
1.00000000			4099095.0	1.00000000		Q AF	
1.00000000	1.00000000	0	8059.11759	1.00000000	1.00000000	C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



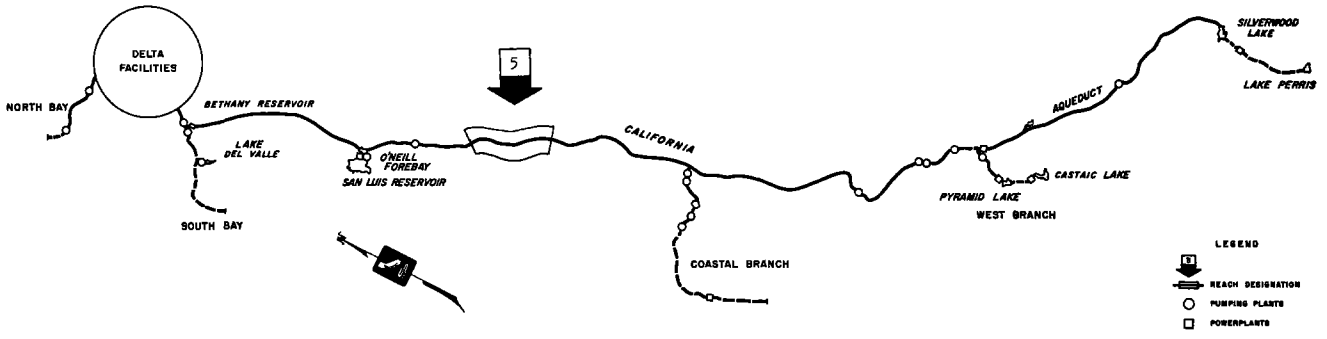
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
REACH 4 - DOS AMIGOS PUMPING PLANT TO PANOCHE CREEK		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	4566.7	2011500.0	112020.2	0	0	2123520.2
	C CFS	0	7.51648	2863.14267	174.68947	184.59464	0	3222.42678
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	234.5	102600.0	6441.9	0	0	109041.9
	C CFS	0	.38547	172.33413	10.40326	.73805	0	183.47544
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	65.8	28800.0	1808.3	0	0	30608.3
	C CFS	0	.10830	45.15128	2.92030	1.25674	0	49.32832
SAN GORGONIO PASS WATER AGENCY	Q AF	0	39.5	17300.0	1086.3	0	0	18386.3
	C CFS	0	.06501	29.05110	1.75430	.12679	0	30.93219
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	13.3	5800.0	364.1	0	0	6164.1
	C CFS	0	.02189	9.75185	.58802	.03854	0	10.37841
MOJAVE WATER AGENCY	Q AF	0	115.3	50800.0	2795.5	0	0	53595.5
	C CFS	0	.18978	70.16895	4.60118	5.26267	0	80.03280
DESERT WATER AGENCY	Q AF	0	86.4	38100.0	2096.5	0	0	40196.5
	C CFS	0	.14221	63.98093	3.45072	.24977	0	67.68142
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	52.4	23100.0	1271.2	0	0	24371.2
	C CFS	0	.08625	38.80295	2.09229	.14775	0	41.04299
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	307.9	138400.0	4777.5	0	0	143177.5
	C CFS	0	.50678	191.16896	7.86343	14.33768	0	213.37007
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	5.1	2300.0	95.2	0	0	2395.2
	C CFS	0	.00839	3.17694	.15669	.23827	0	3.57190
PALMDALE IRRIGATION DISTRICT	Q AF	0	38.7	17300.0	678.4	0	0	17978.4
	C CFS	0	.06370	23.89612	1.11662	1.79221	0	26.80495
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	45.0	20000.0	916.4	0	0	20916.4
	C CFS	0	.07407	27.62557	1.42594	2.10417	0	31.15568
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	93.3	41500.0	1901.4	0	0	43401.4
	C CFS	0	.15357	57.32306	2.95866	4.36613	0	64.64785
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	262.2	119600.0	2339.6	0	0	121939.6
	C CFS	0	.43156	218.06521	3.85082	0	0	221.91603
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	0	2263.0	1033800.0	18481.5	0	0	1052281.5
	C CFS	0	3.72474	3058.92860	30.41927	0	0	3089.34787
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	129.9	57700.0	2723.6	0	0	60423.6
	C CFS	0	.21381	78.69977	4.15217	6.10693	0	89.95887
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	55.7	25000.0	881.9	0	0	25881.9
	C CFS	0	.09168	34.53197	1.38527	2.61585	0	38.53309
DEVIL S DEN WATER DISTRICT	Q AF	0	27.8	12700.0	210.3	0	0	12910.3
	C CFS	0	.04576	37.89123	.34614	0	0	38.23737
DUDLEY RIDGE WATER DISTRICT	Q AF	0	125.3	57700.0	552.9	0	0	58252.9
	C CFS	0	.20623	172.15151	.91003	0	0	173.06154
TULARE LAKE BASIN WATER STORAGE DISTRICT	Q AF	0	238.6	110000.0	946.1	0	0	110946.1
	C CFS	0	.39272	328.19179	1.55721	0	0	329.74900
HACIENDA WATER DISTRICT	Q AF	0	18.4	8500.0	81.4	0	0	8581.4
	C CFS	0	.03028	25.36027	.13398	0	0	25.49425
EMPIRE WEST SIDE IRRIGATION DISTRICT	Q AF	0	6.5	3000.0	23.4	0	0	3023.4
	C CFS	0	.01070	8.95069	.03852	0	0	8.98921
KINGS COUNTY	Q AF	0	8.7	4000.0	31.4	0	0	4031.4
	C CFS	0	.01432	7.29315	.05167	0	0	7.34482
TOTALS	Q AF	0	8800.0	3929500.0	162525.0	0	0	4092025.0
	C CFS	0	14.48420	7566.63870	256.86596	223.97619	0	8047.48085



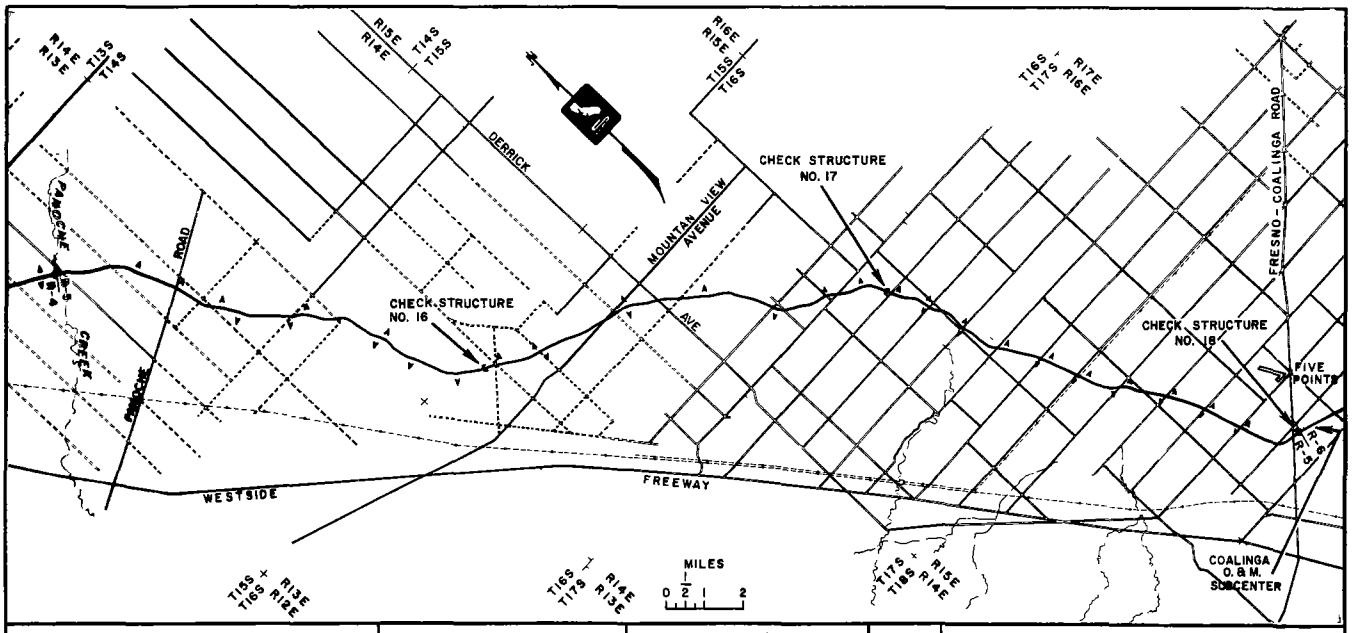
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	REACH 4 - DOS AMIGOS PUMPING PLANT TO PANOCHE CREEK
.51894116			2123520.2	.51894116		Q AF	
.40042677	.45968397	0	3222.42678	.40042677	.45968397	C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.02664742			109041.9	.02664742		Q AF	
.02279911	.02472327	0	183.47544	.02279911	.02472327	C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00747999			30608.3	.00747999		Q AF	
.00612966	.00680482	0	49.32832	.00612966	.0068048?	C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00449320			18386.3	.00449320		Q AF	
.00384371	.00416846	0	30.93219	.00384371	.00416846	C CFS	SAN GORGONIO PASS WATER AGENCY
.00150637			6164.1	.00150637		Q AF	
.00128965	.00139801	0	10.37841	.00128965	.00139801	C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01309755			53595.5	.01309755		Q AF	
.00994508	.01152131	0	80.03280	.00994508	.01152131	C CFS	MOJAVE WATER AGENCY
.00982313			40196.5	.00982313		Q AF	
.00841026	.00911670	0	67.68142	.00841026	.00911670	C CFS	DESERT WATER AGENCY
.00595578			24371.2	.00595578		Q AF	
.00510010	.00552794	0	41.04299	.00510010	.00552794	C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.03498940			143177.5	.03498940		Q AF	
.02651390	.03075165	0	213.37007	.02651390	.03075165	C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00058533			2395.2	.00058533		Q AF	
.00044385	.00051459	0	3.57190	.00044385	.00051459	C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00439352			17978.4	.00439352		Q AF	
.00333085	.00386218	0	26.80495	.00333085	.0038621?	C CFS	PALMDALE IRRIGATION DISTRICT
.00511150			20916.4	.00511150		Q AF	
.00387148	.00449149	0	31.15568	.00387148	.00449149	C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01060634			43401.4	.01060634		Q AF	
.00803330	.00931982	0	64.64785	.00803330	.00931982	C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.02979933			121939.6	.02979933		Q AF	
.02757584	.02868758	0	221.91603	.02757584	.0286875?	C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.25715422			1052281.5	.25715422		Q AF	
.38389006	.32052214	0	3089.34787	.38389006	.32052214	C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
.01476619			60423.6	.01476619		Q AF	
.01117851	.01297235	0	89.95887	.01117851	.01297235	C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00632496			25881.9	.00632496		Q AF	
.00478822	.00555659	0	38.53309	.00478822	.00555659	C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00315499			12910.3	.00315499		Q AF	
.00475147	.00395323	0	38.23737	.00475147	.00395323	C CFS	DEVIL S DEN WATER DISTRICT
.01423572			58252.9	.01423572		Q AF	
.02150506	.01787039	0	173.06154	.02150506	.01787039	C CFS	DUDLEY RIDGE WATER DISTRICT
.02711276			110946.1	.02711276		Q AF	
.04097543	.03404410	0	329.74900	.04097543	.03404410	C CFS	TULARE LAKE BASIN WATER STORAGE DISTRICT
.00209710			8581.4	.00209710		Q AF	
.00316798	.00263254	0	25.49425	.0031679?	.00263254	C CFS	HACIENDA WATER DISTRICT
.00073885			3023.4	.00073885		Q AF	
.00111702	.00092794	0	8.98921	.00111702	.00092794	C CFS	EMPIRE WEST SIDE IRRIGATION DISTRICT
.00098519			4031.4	.00098519		Q AF	
.00091269	.00094893	0	7.34482	.00091269	.00094893	C CFS	KINGS COUNTY
1.00000000			4092025.0	1.00000000		Q AF	
1.00000000	1.00000000	0	8047.48085	1.00000000	1.00000000	C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



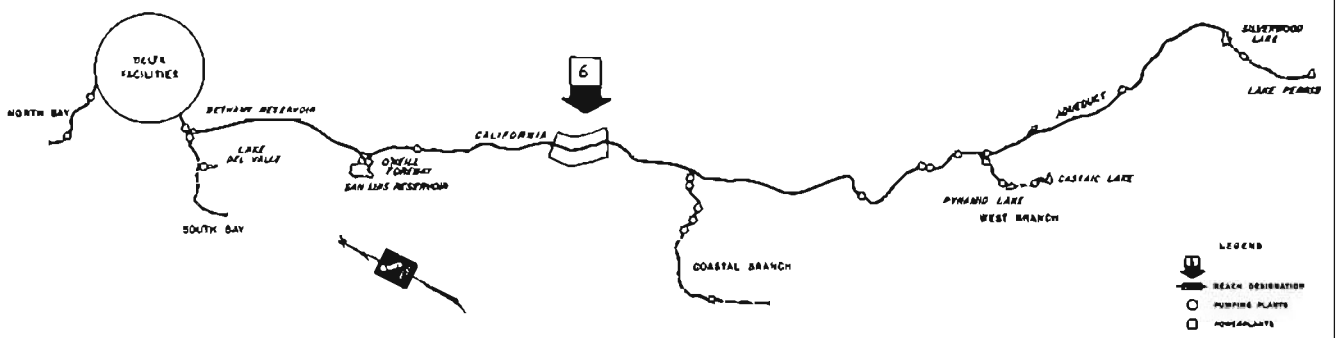
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 5 - PANOCHE CREEK TO FIVE POINTS								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	6878.6	2011500.0	107453.5	0	0	2118953.5
	C CFS	0	11.32171	2863.14267	167.17299	184.59464	0	3214.91030
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	353.2	102600.0	6207.4	0	0	108807.4
	C CFS	0	.58134	172.33413	10.01729	.73805	0	183.08947
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	99.1	28800.0	1742.5	0	0	30542.5
	C CFS	0	.16311	45.15128	2.81200	1.25674	0	49.22002
SAN GORGONIO PASS WATER AGENCY	Q AF	0	59.6	17300.0	1046.8	0	0	18346.8
	C CFS	0	.09810	29.05110	1.68929	.12679	0	30.86718
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	20.0	5800.0	350.8	0	0	6150.8
	C CFS	0	.03292	9.75185	.56613	.03854	0	10.35652
MOJAVE WATER AGENCY	Q AF	0	173.6	50800.0	2680.2	0	0	53480.2
	C CFS	0	.28573	70.16895	4.41140	5.26267	0	79.84302
DESERT WATER AGENCY	Q AF	0	130.2	38100.0	2010.1	0	0	40110.1
	C CFS	0	.21430	63.98093	3.30851	.24977	0	67.53921
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	78.9	23100.0	1218.8	0	0	24318.8
	C CFS	0	.12986	38.80295	2.00604	.14775	0	40.95674
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	463.8	138400.0	4469.6	0	0	142869.6
	C CFS	0	.76338	191.16896	7.35665	14.33768	0	212.86329
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	7.8	2300.0	90.1	0	0	2390.1
	C CFS	0	.01284	3.17694	.14830	.23827	0	3.56351
PALMDALE IRRIGATION DISTRICT	Q AF	0	58.2	17300.0	639.7	0	0	17939.7
	C CFS	0	.09579	23.89612	1.05292	1.79221	0	26.74125
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	67.7	20000.0	871.4	0	0	20871.4
	C CFS	0	.11143	27.62557	1.35187	2.10417	0	31.08161
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	140.6	41500.0	1808.1	0	0	43308.1
	C CFS	0	.23142	57.32306	2.80509	4.36613	0	64.49428
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	395.0	119600.0	2077.4	0	0	121677.4
	C CFS	0	.65014	218.06521	3.41926	0	0	221.48447
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	0	3408.6	1033800.0	16218.5	0	0	1050018.5
	C CFS	0	5.61032	3058.92860	26.69453	0	0	3085.62313
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	195.7	57700.0	2593.7	0	0	60293.7
	C CFS	0	.32211	79.69977	3.93836	6.10693	0	89.74506
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	83.8	25000.0	826.2	0	0	25826.2
	C CFS	0	.13793	34.53197	1.29359	2.61585	0	38.44141
DEVIL S DEN WATER DISTRICT	Q AF	0	41.8	12700.0	182.5	0	0	12882.5
	C CFS	0	.06880	37.89123	.30038	0	0	38.19161
DUDLEY RIDGE WATER DISTRICT	Q AF	0	188.7	57700.0	427.6	0	0	58127.6
	C CFS	0	.31059	172.15151	.70380	0	0	172.85531
TULARE LAKE BASIN WATER STORAGE DISTRICT	Q AF	0	359.4	110000.0	707.5	0	0	110707.5
	C CFS	0	.59155	328.19179	1.16449	0	0	329.35628
HACIENDA WATER DISTRICT	Q AF	0	27.8	8500.0	63.0	0	0	8563.0
	C CFS	0	.04576	25.36027	.10370	0	0	25.46397
EMPIRE WEST SIDE IRRIGATION DISTRICT	Q AF	0	9.8	3000.0	16.9	0	0	3016.9
	C CFS	0	.01613	8.95069	.02782	0	0	8.97851
KINGS COUNTY	Q AF	0	13.1	4000.0	22.7	0	0	4022.7
	C CFS	0	.02156	7.29315	.03735	0	0	7.33050
TOTALS	Q AF	0	13255.0	3929500.0	153725.0	0	0	4083225.0
	C CFS	0	21.81682	7566.63870	242.38176	223.97619	0	8032.99665



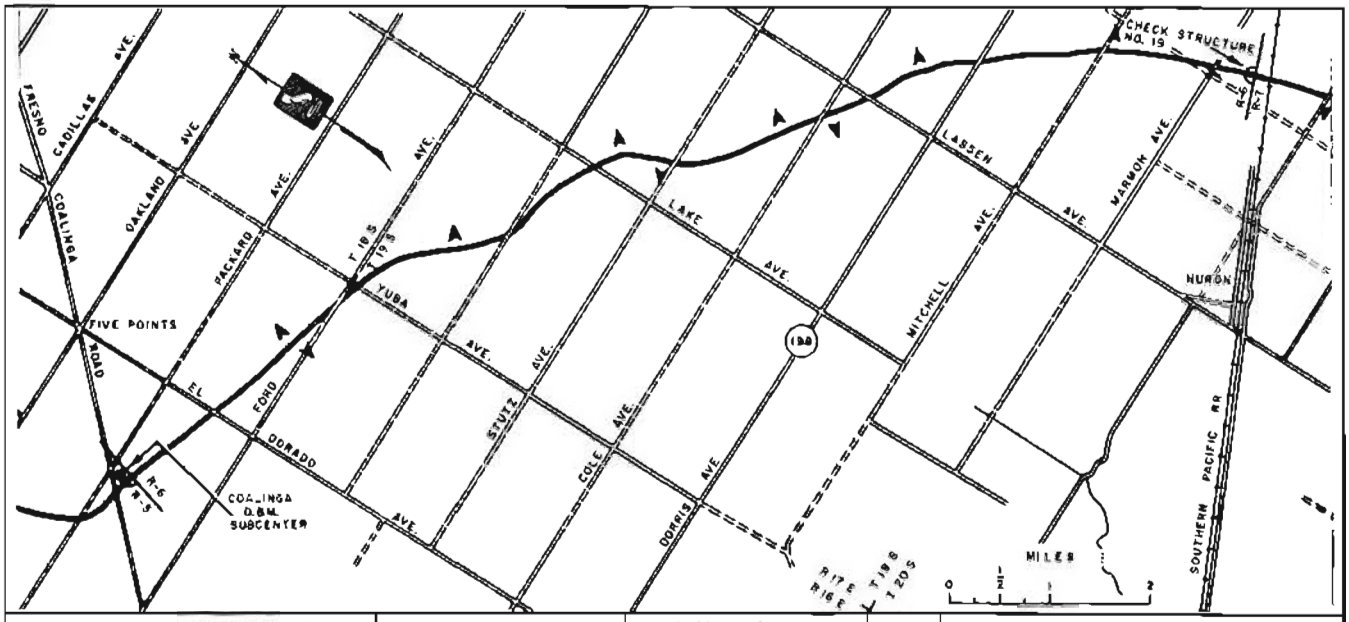
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 5 - PANOCHE CREEK TO FIVE POINTS
.51894115 .40021308	.45957712	0	2118953.5 3214.91030	.51894115 .40021308	.45957712	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.02664742 .02279218	.02471980	0	108807.4 183.08947	.02664742 .02279218	.02471980	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00747999 .00612723	.00680361	0	30542.5 49.22002	.00747999 .00612723	.00680361	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00449321 .00384255	.00416788	0	18346.8 30.86718	.00449321 .00384255	.00416788	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00150636 .00128925	.00139780	0	6150.8 10.35652	.00150636 .00128925	.00139780	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01309754 .00993938	.01151846	0	53480.2 79.84302	.01309754 .00993938	.01151846	Q AF C CFS	MOJAVE WATER AGENCY
.00982314 .00840772	.00911543	0	40110.1 67.53921	.00982314 .00840772	.00911543	Q AF C CFS	DESERT WATER AGENCY
.00595578 .00509856	.00552717	0	24318.8 40.95674	.00595578 .00509856	.00552717	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.03498940 .02649862	.03074401	0	142869.6 212.86329	.03498940 .02649862	.03074401	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00058535 .00044361	.00051448	0	2390.1 3.56351	.00058535 .00044361	.00051448	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00439351 .00332893	.00386122	0	17939.7 26.74125	.00439351 .00332893	.00386122	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00511150 .00386924	.00449037	0	20871.4 31.08161	.00511150 .00386924	.00449037	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01060635 .00802867	.00931751	0	43308.1 64.49428	.01060635 .00802867	.00931751	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.02979934 .02757184	.02868559	0	121677.4 221.48447	.02979934 .02757184	.02868559	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.25715421 .32411856	.32063639	0	1050018.5 3085.62313	.25715421 .32411856	.32063639	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
.01476620 .01117205	.01296912	0	60293.7 89.74506	.01476620 .01117205	.01296912	Q AF C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00632495 .00478544	.00555520	0	25826.2 38.44141	.00632495 .00478544	.00555520	Q AF C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00315498 .00475434	.00395466	0	12882.5 38.19161	.00315498 .00475434	.00395466	Q AF C CFS	DEVIL S DEN WATER DISTRICT
.01423571 .02151816	.01787693	0	58127.6 172.85531	.01423571 .02151816	.01787693	Q AF C CFS	DUDLEY RIDGE WATER DISTRICT
.02711276 .04100042	.03405659	0	110707.5 329.35628	.02711276 .04100042	.03405659	Q AF C CFS	TULARE LAKE BASIN WATER STORAGE DISTRICT
.00209712 .00316992	.00263352	0	8563.0 25.46397	.00209712 .00316992	.00263352	Q AF C CFS	HACIENDA WATER DISTRICT
.00073885 .00111770	.00092828	0	3016.9 8.97851	.00073885 .00111770	.00092828	Q AF C CFS	EMPIRE WEST SIDE IRRIGATION DISTRICT
.00098518 .00091255	.00094886	0	4022.7 7.33050	.00098518 .00091255	.00094886	Q AF C CFS	KINGS COUNTY
1.00000000 1.00000000	1.00000000	0	4083225.0 8032.99665	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



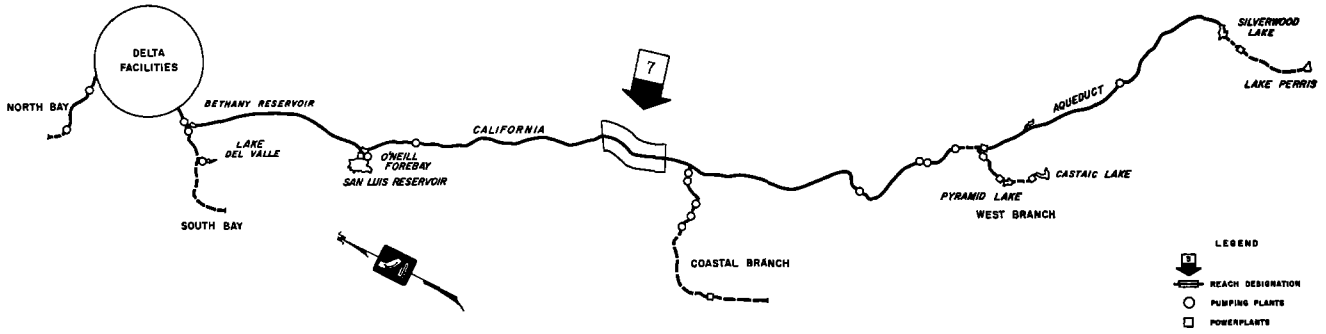
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 6 - FIVE POINTS TO ARROYO PASAJERO								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	A AF C CFS	0 0	2197.7 3.61726	2011500.0 2863.14267	100574.0 155.85128	0 144.59464	0 0	2112074.9 3203.58859
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	A AF C CFS	0 0	112.9 .18583	102600.0 172.33413	5854.2 9.03595	0 .73805	0 0	108454.2 182.50813
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	A AF C CFS	0 0	31.7 .05218	28600.0 45.15128	1643.4 2.64889	0 1.25674	0 0	30443.4 49.05691
SAN GORGONIO PASS WATER AGENCY	A AF C CFS	0 0	19.0 .03127	17300.0 28.05118	987.2 1.59110	0 .12670	0 0	18287.2 30.76908
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	A AF C CFS	0 0	6.4 .01053	5800.0 9.75185	330.8 .53321	0 .03854	0 0	6130.8 10.32360
MOJAVE WATER AGENCY	A AF C CFS	0 0	55.5 .09135	50800.0 78.16895	2506.6 4.12567	0 5.26267	0 0	53306.6 79.55729
DESERT WATER AGENCY	A AF C CFS	0 0	41.6 .06847	38100.0 63.98003	1879.0 3.09421	0 .24977	0 0	39979.9 67.32491
COACHELLA VALLEY COUNTY WATER DISTRICT	A AF C CFS	0 0	25.2 .04148	23100.0 38.80295	1139.0 1.87618	0 .14775	0 0	24239.9 40.82688
ANTELOPE VALLEY-EAST KERN WATER AGENCY	A AF C CFS	0 0	148.2 .24393	138400.0 191.16896	4005.8 6.59327	0 14.33768	0 0	142405.0 212.09991
LITTLEROCK CREEK IRRIGATION DISTRICT	A AF C CFS	0 0	2.5 .00412	2300.0 3.17694	82.5 .13546	0 .23827	0 0	2382.5 3.55067
PALMDALE IRRIGATION DISTRICT	A AF C CFS	0 0	18.6 .03061	17300.0 23.89612	581.5 .95713	0 1.79221	0 0	17881.5 26.64546
VENTURA COUNTY FLOOD CONTROL DISTRICT	A AF C CFS	0 0	21.6 .03555	20000.0 27.62557	803.7 1.24044	0 2.10417	0 0	20803.7 30.97018
UPPER SANTA CLARA VALLEY WATER AGENCY	A AF C CFS	0 0	44.9 .07390	41500.0 57.32306	1667.5 2.57367	0 4.36613	0 0	43167.5 64.26286
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	A AF C CFS	0 0	126.2 .20772	119600.0 218.06521	1682.8 2.76912	0 0	0 0	121282.8 220.83433
KERN COUNTY WATER AGENCY AGRICULTURE	A AF C CFS	0 0	1089.0 1.79242	1033800.0 1858.92860	12809.9 21.08421	0 0	0 0	1046609.9 3080.01281
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	A AF C CFS	0 0	62.5 .10287	57700.0 79.69977	2398.0 3.61625	0 6.10693	0 0	60098.0 89.42295
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	A AF C CFS	0 0	26.8 .04411	25000.0 34.53197	742.4 1.15566	0 2.61585	0 0	25742.4 38.30348
DEVIL S DEN WATER DISTRICT	A AF C CFS	0 0	13.4 .02206	12700.0 37.89123	140.7 .23158	0 0	0 0	12840.7 38.12281
DUDLEY RIDGE WATER DISTRICT	A AF C CFS	0 0	60.3 .09925	57700.0 172.15151	238.0 .39321	0 0	0 0	57938.9 172.54472
TULARE LAKE BASIN WATER STORAGE DISTRICT	A AF C CFS	0 0	114.8 .18895	110000.0 328.19179	348.1 .57294	0 0	0 0	110348.1 328.76473
HACIENDA WATER DISTRICT	A AF C CFS	0 0	8.9 .01465	8500.0 25.36027	35.2 .05794	0 0	0 0	8535.2 25.41821
EMPIRE WEST SIDE IRRIGATION DISTRICT	A AF C CFS	0 0	3.1 .00510	3000.0 8.95069	7.1 .01169	0 0	0 0	3007.1 8.96238
KINGS COUNTY	A AF C CFS	0 0	4.2 .00691	4000.0 7.28315	9.6 .01579	0 0	0 0	4009.6 7.30894
TOTALS	A AF C CFS	0 0	4235.0 6.97052	3929500.0 7566.63870	140470.0 220.56494	0 223.97619	0 0	4069970.0 8011.17983



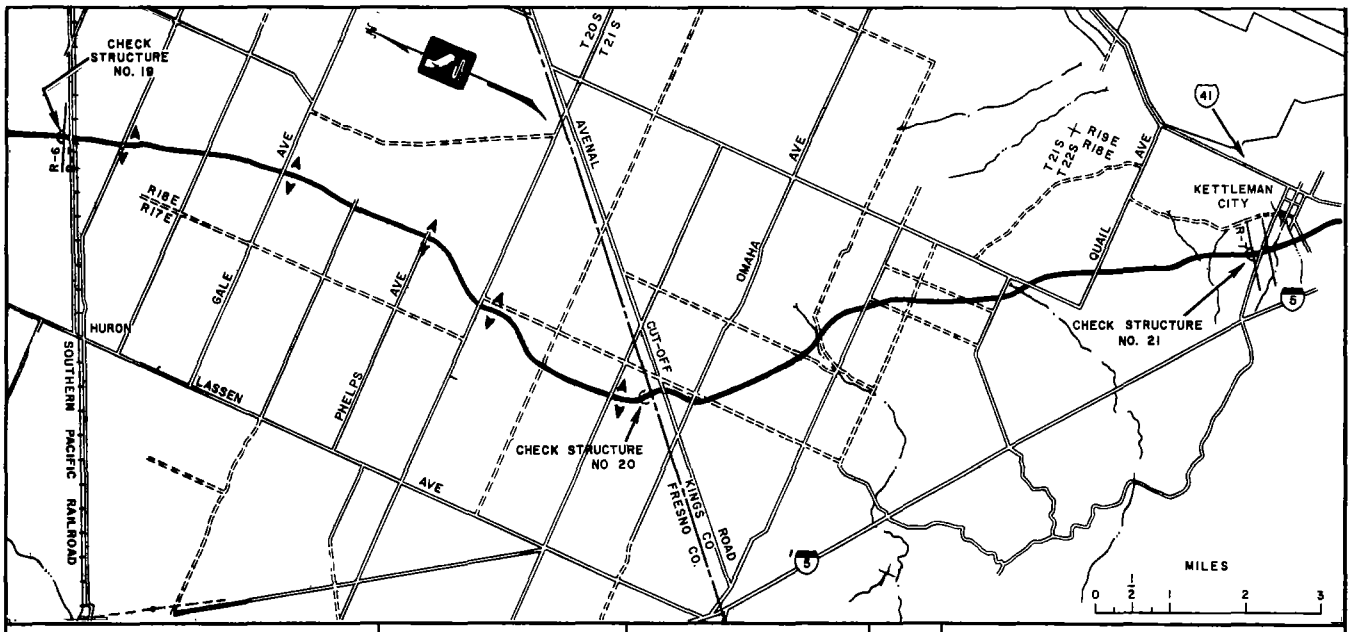
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OM&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 6 - FIVE POINTS TO ARROYO PASAJERO
.51894115 .39988974	.45941544	0	2112074.9 3203.58859	.51894115 .39988974	.45941544	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.02664742 .02278168	.02471455	0	108454.2 182.50813	.02664742 .02278168	.02471455	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00740001 .00612356	.00680178	0	30443.4 49.05691	.00740001 .00612356	.00680178	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00449320 .00384077	.00416698	0	18287.2 30.76904	.00449320 .00384077	.00416698	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00150635 .00128865	.00139750	0	6130.8 10.32360	.00150635 .00128865	.00139750	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01309754 .00993078	.01151416	0	53306.6 79.55724	.01309754 .00993078	.01151416	Q AF C CFS	MOJAVE WATER AGENCY
.00982314 .00840387	.00911351	0	39979.9 67.32491	.00982314 .00840387	.00911351	Q AF C CFS	DESERT WATER AGENCY
.00595579 .00509624	.00552602	0	24239.9 40.82689	.00595579 .00509624	.00552602	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.03498940 .02647549	.03073244	0	142405.8 212.09991	.03498940 .02647549	.03073244	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00058534 .00044321	.00051428	0	2382.3 3.55067	.00058534 .00044321	.00051428	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00439352 .00332604	.00385978	0	17881.5 26.64546	.00439352 .00332604	.00385978	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00511151 .00386587	.00448869	0	20803.7 30.97018	.00511151 .00386587	.00448869	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01060634 .00802165	.00931400	0	43167.5 64.24286	.01060634 .00802165	.00931400	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.02979933 .02756577	.02868255	0	121282.4 220.85433	.02979933 .02756577	.02868255	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.25715420 .38446432	.32080926	0	1046609.9 3080.01281	.25715420 .38446432	.32080926	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
.01476620 .01116227	.01296424	0	60098.0 89.42295	.01476620 .01116227	.01296424	Q AF C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00632496 .00478125	.00555311	0	25742.4 38.30348	.00632496 .00478125	.00555311	Q AF C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00315499 .00475870	.00395684	0	12840.7 38.12281	.00315499 .00475870	.00395684	Q AF C CFS	DEVIL'S DEN WATER DISTRICT
.01423571 .02153799	.01788685	0	57938.4 172.54472	.01423571 .02153799	.01788685	Q AF C CFS	DUDLEY RIDGE WATER DISTRICT
.02711276 .04103824	.03407550	0	110348.1 328.76473	.02711276 .04103824	.03407550	Q AF C CFS	TULARE LAKE BASIN WATER STORAGE DISTRICT
.00209712 .00317284	.00263498	0	8535.2 25.41821	.00209712 .00317284	.00263498	Q AF C CFS	HACIENDA WATER DISTRICT
.00073885 .00111873	.00092879	0	3007.1 8.96238	.00073885 .00111873	.00092879	Q AF C CFS	EMPIRE WEST SIDE IRRIGATION DISTRICT
.00098517 .00091234	.00094875	0	4009.6 7.30804	.00098517 .00091234	.00094875	Q AF C CFS	KINGS COUNTY
1.00000000 1.00000000	1.00000000	0	4069970.8 8011.17983	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



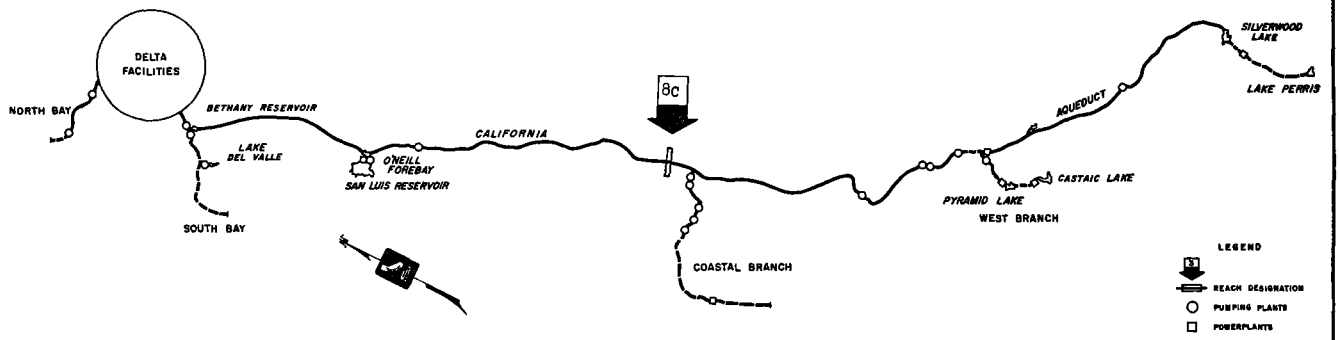
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
REACH 7 - ARROYO PASAJERO TO KETTLEMAN CITY	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	2768.6	2011500.0	98377.2	0	0	2109877.2
	C CFS	0	4.55693	2863.14267	152.23409	184.59464	0	3199.97133
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	142.2	102600.0	5741.3	0	0	108341.3
	C CFS	0	.23405	172.33413	9.25012	.73805	0	182.32230
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	39.9	28800.0	1611.7	0	0	30411.7
	C CFS	0	.06567	45.15128	2.59671	1.25674	0	49.00473
SAN GORGONIO PASS WATER AGENCY	Q AF	0	24.0	17300.0	968.2	0	0	18268.2
	C CFS	0	.03950	29.05110	1.55992	.12679	0	30.73781
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	8.0	5800.0	324.4	0	0	6124.4
	C CFS	0	.01317	9.75185	.52268	.03854	0	10.31307
MOJAVE WATER AGENCY	Q AF	0	69.9	50800.0	2451.1	0	0	53251.1
	C CFS	0	.11505	70.16895	4.03432	5.26267	0	79.46594
DESERT WATER AGENCY	Q AF	0	52.4	38100.0	1838.3	0	0	39938.3
	C CFS	0	.08625	63.98093	3.02574	.24977	0	67.25644
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	31.8	23100.0	1114.7	0	0	24214.7
	C CFS	0	.05234	38.80295	1.83470	.14775	0	40.78540
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	186.7	138400.0	3857.6	0	0	142257.6
	C CFS	0	.30730	191.16896	6.34934	14.33768	0	211.85598
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	3.1	2300.0	79.8	0	0	2379.8
	C CFS	0	.00510	3.17694	.13134	.23827	0	3.54655
PALMDALE IRRIGATION DISTRICT	Q AF	0	23.4	17300.0	562.9	0	0	17862.9
	C CFS	0	.03852	23.89612	.92652	1.79221	0	26.61485
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	27.3	20000.0	782.1	0	0	20782.1
	C CFS	0	.04493	27.62557	1.20489	2.10417	0	30.93463
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	56.6	41500.0	1622.6	0	0	43122.6
	C CFS	0	.09316	57.32306	2.49977	4.36613	0	64.18896
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	159.0	119600.0	1556.2	0	0	121156.2
	C CFS	0	.26170	218.06521	2.56140	0	0	220.62661
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	0	1371.9	1033800.0	11720.9	0	0	1045520.9
	C CFS	0	2.25805	3058.92860	19.29179	0	0	3078.22039
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	78.8	57700.0	2335.5	0	0	60035.5
	C CFS	0	.12970	79.69977	3.51338	6.10693	0	89.32008
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	33.7	25000.0	715.6	0	0	25715.6
	C CFS	0	.05547	34.53197	1.11155	2.61585	0	38.25937
DEVIL S DEN WATER DISTRICT	Q AF	0	16.8	12700.0	127.3	0	0	12827.3
	C CFS	0	.02765	37.89123	.20952	0	0	38.10075
DUDLEY RIDGE WATER DISTRICT	Q AF	0	75.9	57700.0	178.6	0	0	57878.6
	C CFS	0	.12493	172.15151	.29396	0	0	172.44547
TULARE LAKE BASIN WATER STORAGE DISTRICT	Q AF	0	144.6	110000.0	233.3	0	0	110233.3
	C CFS	0	.23800	328.19179	.38399	0	0	328.57578
HACIENDA WATER DISTRICT	Q AF	0	11.2	8500.0	26.3	0	0	8526.3
	C CFS	0	.01843	25.36027	.04329	0	0	25.40356
EMPIRE WEST SIDE IRRIGATION DISTRICT	Q AF	0	3.9	3000.0	4.0	0	0	3004.0
	C CFS	0	.00642	8.95069	.00659	0	0	8.95728
KINGS COUNTY	Q AF	0	5.3	4000.0	5.4	0	0	4005.4
	C CFS	0	.00872	7.29315	.00888	0	0	7.30203
TOTALS	Q AF	0	5335.0	3929500.0	136235.0	0	0	4065735.0
	C CFS	0	8.78104	7566.63870	213.59442	223.97619	0	8004.20931



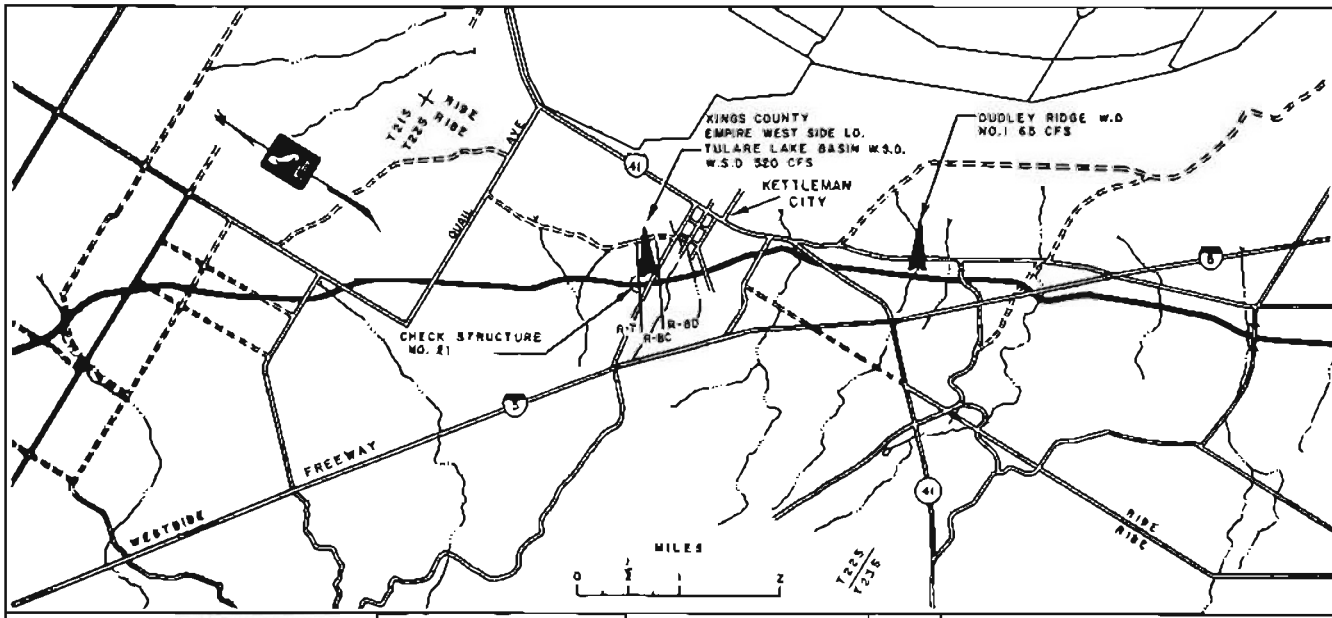
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	REACH 7 - ARROYO PASAJERO TO KETTLEMAN CITY
.51894115 .39978606	.45936361	0	2109877.2 3199.97133	.51894115 .39978606	.45936361	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.02664741 .02277830	.02471286	0	108341.3 182.32230	.02664741 .02277830	.02471286	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00748000 .00612237	.00680118	0	30411.7 49.00473	.00748000 .00612237	.00680118	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00449321 .00384021	.00416671	0	18268.2 30.73781	.00449321 .00384021	.00416671	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00150635 .00128846	.00139740	0	6124.4 10.31307	.00150635 .00128846	.00139740	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01309753 .00992802	.01151278	0	53251.1 79.46594	.01309753 .00992802	.01151278	Q AF C CFS	MOJAVE WATER AGENCY
.00982314 .00840263	.00911289	0	39938.3 67.25644	.00982314 .00840263	.00911289	Q AF C CFS	DESERT WATER AGENCY
.00595580 .00509549	.00552565	0	24214.7 40.78540	.00595580 .00509549	.00552565	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.03498939 .02646807	.03072873	0	142257.6 211.85598	.03498939 .02646807	.03072873	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00058533 .00044309	.00051421	0	2379.8 3.54655	.00058533 .00044309	.00051421	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00439352 .00332511	.00385931	0	17862.9 26.61485	.00439352 .00332511	.00385931	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00511152 .00386480	.00448816	0	20762.1 30.93463	.00511152 .00386480	.00448816	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01060635 .00801940	.00931287	0	43122.6 64.18898	.01060635 .00801940	.00931287	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.02979934 .02756382	.02868158	0	121156.2 220.62661	.02979934 .02756382	.02868158	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.25715422 .38457520	.32086471	0	1045520.9 3078.22039	.25715422 .38457520	.32086471	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
.01476621 .01115914	.01296267	0	60035.5 89.32008	.01476621 .01115914	.01296267	Q AF C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00632496 .00477991	.00555243	0	25715.6 38.25937	.00632496 .00477991	.00555243	Q AF C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00315498 .00476009	.00395753	0	12827.3 38.10075	.00315498 .00476009	.00395753	Q AF C CFS	DEVIL S DEN WATER DISTRICT
.01423570 .02154435	.01789003	0	57878.6 172.44547	.01423570 .02154435	.01789003	Q AF C CFS	DUDLEY RIDGE WATER DISTRICT
.02711276 .04105037	.03408157	0	110233.3 328.57578	.02711276 .04105037	.03408157	Q AF C CFS	TULARE LAKE BASIN WATER STORAGE DISTRICT
.00209711 .00317377	.00263544	0	8526.3 25.40356	.00209711 .00317377	.00263544	Q AF C CFS	HACIENDA WATER DISTRICT
.00073886 .00111907	.00092896	0	3004.0 8.95728	.00073886 .00111907	.00092896	Q AF C CFS	EMPIRE WEST SIDE IRRIGATION DISTRICT
.00098516 .00091227	.00094872	0	4005.4 7.30203	.00098516 .00091227	.00094872	Q AF C CFS	KINGS COUNTY
1.00000000 1.00000000	1.00000000	0	4065735.0 8004.20931	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



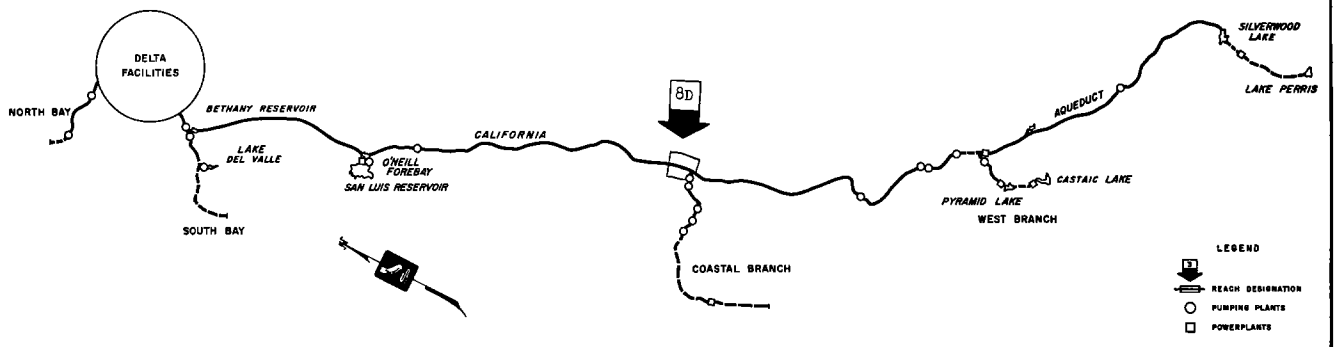
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
REACH 8C - KETTLEMAN CITY THRU MILHAM AVENUE	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	51.9	2011500.0	95608.6	0	0	2107108.6
	C CFS	0	.08542	2863.14267	147.67709	184.59464	0	3195.41440
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	2.7	102600.0	5599.1	0	0	108199.1
	C CFS	0	.00444	172.33413	9.01607	.73805	0	182.08825
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	.7	28800.0	1571.8	0	0	30371.8
	C CFS	0	.00115	45.15128	2.53104	1.25674	0	48.93906
SAN GORGONIO PASS WATER AGENCY	Q AF	0	.4	17300.0	944.2	0	0	18244.2
	C CFS	0	.00066	29.05110	1.52042	.12679	0	30.69831
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	.2	5800.0	316.4	0	0	6116.4
	C CFS	0	.00033	9.75185	.50951	.03854	0	10.29990
MOJAVE WATER AGENCY	Q AF	0	1.3	50800.0	2381.2	0	0	53181.2
	C CFS	0	.00214	70.16895	3.91927	5.26267	0	79.35089
DESERT WATER AGENCY	Q AF	0	1.0	38100.0	1785.9	0	0	39885.9
	C CFS	0	.00165	63.98093	2.93949	.24977	0	67.17019
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	.6	23100.0	1082.9	0	0	24182.9
	C CFS	0	.00099	38.80295	1.78236	.14775	0	40.73306
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	3.5	138400.0	3670.9	0	0	142070.9
	C CFS	0	.00576	191.16896	6.04204	14.33768	0	211.54868
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	.1	2300.0	76.7	0	0	2376.7
	C CFS	0	.00017	3.17694	.12624	.23827	0	3.54145
PALMDALE IRRIGATION DISTRICT	Q AF	0	.4	17300.0	539.5	0	0	17839.5
	C CFS	0	.00066	23.89612	.88800	1.79221	0	26.57633
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	.5	20000.0	754.8	0	0	20754.8
	C CFS	0	.00082	27.62557	1.15996	2.10417	0	30.88970
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	1.1	41500.0	1566.0	0	0	43066.0
	C CFS	0	.00181	57.32306	2.40661	4.36613	0	64.09580
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	3.0	119600.0	1397.2	0	0	120997.2
	C CFS	0	.00494	218.06521	2.29970	0	0	220.36491
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	0	25.7	1033800.0	10349.0	0	0	1044149.0
	C CFS	0	.04230	3058.92860	17.03374	0	0	3075.96234
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	1.5	57700.0	2256.7	0	0	59956.7
	C CFS	0	.00247	79.69977	3.38368	6.10693	0	89.19038
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	.6	25000.0	681.9	0	0	25681.9
	C CFS	0	.00099	34.53197	1.05608	2.61585	0	38.20390
DEVIL S DEN WATER DISTRICT	Q AF	0	.3	12700.0	110.5	0	0	12810.5
	C CFS	0	.00049	37.89123	.18187	0	0	38.07310
DUDLEY RIDGE WATER DISTRICT	Q AF	0	1.4	57700.0	102.7	0	0	57802.7
	C CFS	0	.00230	172.15151	.16903	0	0	172.32054
TULARE LAKE BASIN WATER STORAGE DISTRICT	Q AF	61050.0	2.7	110000.0	88.7	0	0	110088.7
	C CFS	182.14644	.00444	328.19179	.14599	0	0	328.33778
HACIENDA WATER DISTRICT	Q AF	0	.2	8500.0	15.1	0	0	8515.1
	C CFS	0	.00033	25.36027	.02486	0	0	25.38513
EMPIRE WEST SIDE IRRIGATION DISTRICT	Q AF	3000.0	.1	3000.0	.1	0	0	3000.1
	C CFS	8.95069	.00017	8.95069	.00017	0	0	8.95086
KINGS COUNTY	Q AF	4000.0	.1	4000.0	.1	0	0	4000.1
	C CFS	7.29315	.00016	7.29315	.00016	0	0	7.29331
TOTALS	Q AF	68050.0	100.0	3929500.0	130900.0	0	0	4060400.0
	C CFS	198.39028	.16459	7566.63870	204.81338	223.97619	0	7995.42827



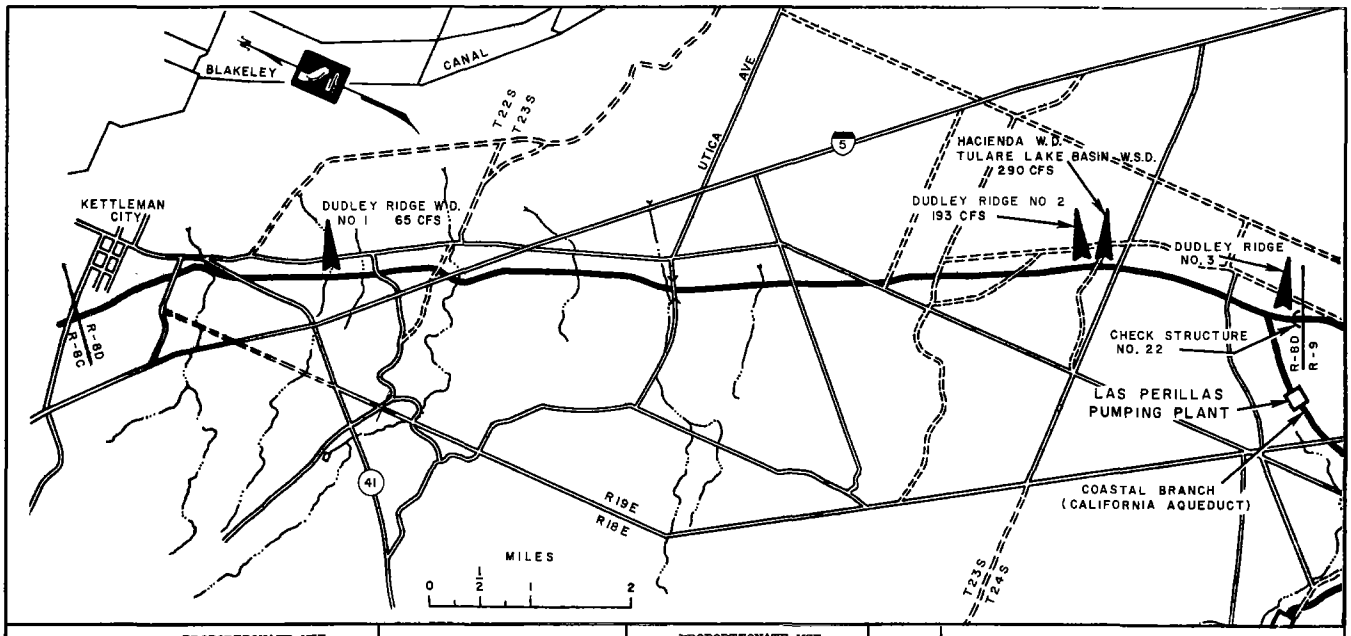
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OM&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	REACH 8C - KETTLEMAN CITY THRU MILHAM AVENUE
.51894114 .39965519	.45929816	188.00000	2107108.6 3383.41440	.51894114 .41344707	.46619410	0 AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.02664740 .02277405	.02471072	0	108199.1 182.08825	.02664740 .02225085	.02444913	0 AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00748000 .00612088	.00680044	0	30371.8 48.93906	.00748000 .00598026	.00673013	0 AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00449320 .00383948	.00416634	0	18244.2 30.69831	.00449320 .00375124	.00412224	0 AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00150635 .00128822	.00139729	0	6116.4 10.20990	.00150635 .00125863	.00138249	0 AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01309753 .00992453	.01151103	0	53181.2 79.350B9	.01309753 .00969653	.01139703	0 AF C CFS	MOJAVE WATER AGENCY
.00982315 .00840108	.00911211	0	39885.9 67.17019	.00982315 .00820807	.00901561	0 AF C CFS	DESERT WATER AGENCY
.00595579 .00509454	.00552517	0	24182.9 40.73306	.00595570 .00497751	.00546665	0 AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.03498938 .02645871	.03072405	0	142070.9 211.54868	.03498938 .02585086	.03042012	0 AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00058534 .00044293	.00051414	0	2376.7 3.54145	.00058534 .00043276	.00050905	0 AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00439353 .00332394	.00385874	0	17839.5 26.57633	.00439353 .00324758	.00382056	0 AF C CFS	PALMDALE IRRIGATION DISTRICT
.00511152 .00386342	.00448747	0	20754.8 30.88970	.00511152 .00377466	.00444309	0 AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01060634 .00801656	.00931145	0	43066.0 64.09580	.01060634 .00783239	.00921937	0 AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.02979933 .02756136	.02868035	0	120997.2 220.36491	.02979933 .02692819	.02836376	0 AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.25715422 .38421514	.32093468	0	1044149.0 3075.96254	.25715422 .37584768	.31651560	0 AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
.01476621 .01115517	.01296069	0	59956.7 89.19034	.01476621 .01089890	.01283255	0 AF C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00632497 .00477822	.00555159	0	25681.9 38.20390	.00632497 .00466845	.00549671	0 AF C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00315498 .00476186	.00395842	0	12810.5 38.07310	.00315498 .00465246	.00390372	0 AF C CFS	DEVIL S DEN WATER DISTRICT
.01423572 .02155238	.01789405	0	57802.7 172.32054	.01423572 .02105726	.01764649	0 AF C CFS	DUDLEY RIDGE WATER DISTRICT
.02711277 .04106569	.03408923	0	110068.7 328.33778	.02711277 .04012228	.03361753	0 AF C CFS	TULARE LAKE BASIN WATER STORAGE DISTRICT
.00209711 .00317496	.00263603	0	8515.1 25.38513	.00209711 .00310202	.00259956	0 AF C CFS	HACIENDA WATER DISTRICT
.00073887 .00111950	.00092918	0	3000.1 8.95086	.00073887 .00109378	.00091632	0 AF C CFS	EMPIRE WEST SIDE IRRIGATION DISTRICT
.00098515 .00091219	.00094867	0	4000.1 7.29331	.00098515 .00089123	.00093819	0 AF C CFS	KINGS COUNTY
1.00000000 1.00000000	1.00000000	188.00000	4060400.0 8183.42827	1.00000000 1.00000000	1.00000000	0 AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



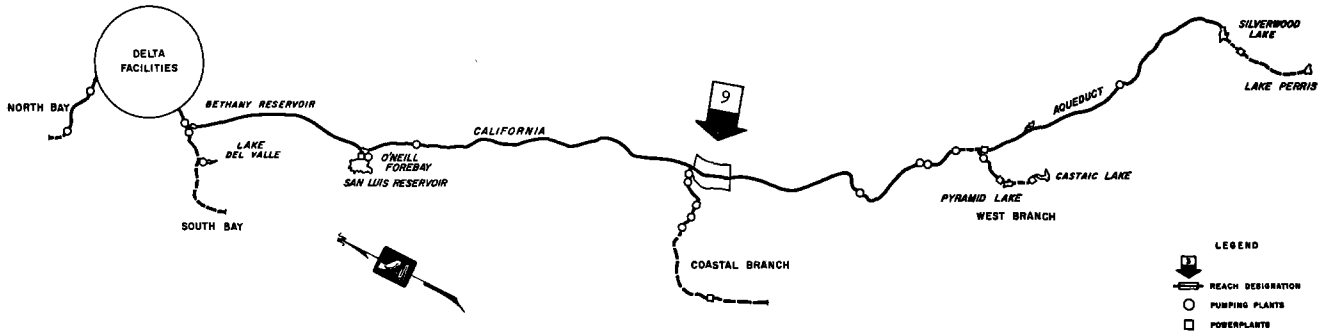
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
REACH 8D - MILHAM AVENUE THRU AVENAL GAP	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	3694.5	2011500.0	95556.7	0	0	2107056.7
	C CFS	0	6.08089	2863.14267	147.59167	184.59464	0	3195.32898
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	189.7	102600.0	5596.4	0	0	108196.4
	C CFS	0	.31223	172.33413	9.01163	.73805	0	182.08381
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	53.3	28800.0	1571.1	0	0	30371.1
	C CFS	0	.08773	45.15128	2.52989	1.25674	0	48.93791
SAN GORGONIO PASS WATER AGENCY	Q AF	0	32.0	17300.0	943.8	0	0	18243.8
	C CFS	0	.05267	29.05110	1.51976	.12679	0	30.69765
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	10.7	5800.0	316.2	0	0	6116.2
	C CFS	0	.01761	9.75185	.50918	.03854	0	10.29957
MOJAVE WATER AGENCY	Q AF	0	93.2	50800.0	2379.9	0	0	53179.9
	C CFS	0	.15340	70.16895	3.91713	5.26267	0	79.34875
DESERT WATER AGENCY	Q AF	0	69.9	38100.0	1784.9	0	0	39884.9
	C CFS	0	.11505	63.98093	2.93784	.24977	0	67.16854
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	42.4	23100.0	1082.3	0	0	24182.3
	C CFS	0	.06979	38.80295	1.78137	.14775	0	40.73207
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	249.1	138400.0	3667.4	0	0	142067.4
	C CFS	0	.41000	191.16896	6.03628	14.33768	0	211.54292
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	4.2	2300.0	76.6	0	0	2376.6
	C CFS	0	.00691	3.17694	.12607	.23827	0	3.54128
PALMDALE IRRIGATION DISTRICT	Q AF	0	31.3	17300.0	539.1	0	0	17839.1
	C CFS	0	.05152	23.89612	.88734	1.79221	0	26.57567
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	36.4	20000.0	754.3	0	0	20754.3
	C CFS	0	.05991	27.62557	1.15914	2.10417	0	30.88888
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	75.5	41500.0	1564.9	0	0	43064.9
	C CFS	0	.12427	57.32306	2.40480	4.36613	0	64.09399
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	212.2	119600.0	1394.2	0	0	120994.2
	C CFS	0	.34927	218.06521	2.29476	0	0	220.35997
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	-6400.0	1830.8	1033800.0	10323.3	0	0	1044123.3
	C CFS	-14.00000	3.01337	3058.92860	16.99144	0	0	3075.92004
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	105.1	57700.0	2255.2	0	0	59955.2
	C CFS	0	.17299	79.69977	3.38121	6.10693	0	89.18791
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF	0	45.0	25000.0	681.3	0	0	25681.3
	C CFS	0	.07407	34.53197	1.05509	2.61585	0	38.20291
DEVIL S DEN WATER DISTRICT	Q AF	0	22.5	12700.0	110.2	0	0	12810.2
	C CFS	0	.03703	17.89123	.18138	0	0	18.07261
DUDLEY RIDGE WATER DISTRICT	Q AF	57700.0	101.3	57700.0	101.3	0	0	57801.3
	C CFS	172.15151	.16673	172.15151	.16673	0	0	172.31824
TULARE LAKE BASIN WATER STORAGE DISTRICT	Q AF	48950.0	86.0	48950.0	86.0	0	0	49036.0
	C CFS	146.04535	.14155	146.04535	.14155	0	0	146.18690
HACIENDA WATER DISTRICT	Q AF	8500.0	14.9	8500.0	14.9	0	0	8514.9
	C CFS	25.36027	.02453	25.36027	.02453	0	0	25.38480
TOTALS	Q AF	108750.0	7000.0	3861450.0	130800.0	0	0	3992250.0
	C CFS	329.55713	11.52152	7368.24842	204.64879	223.97619	0	7796.87340



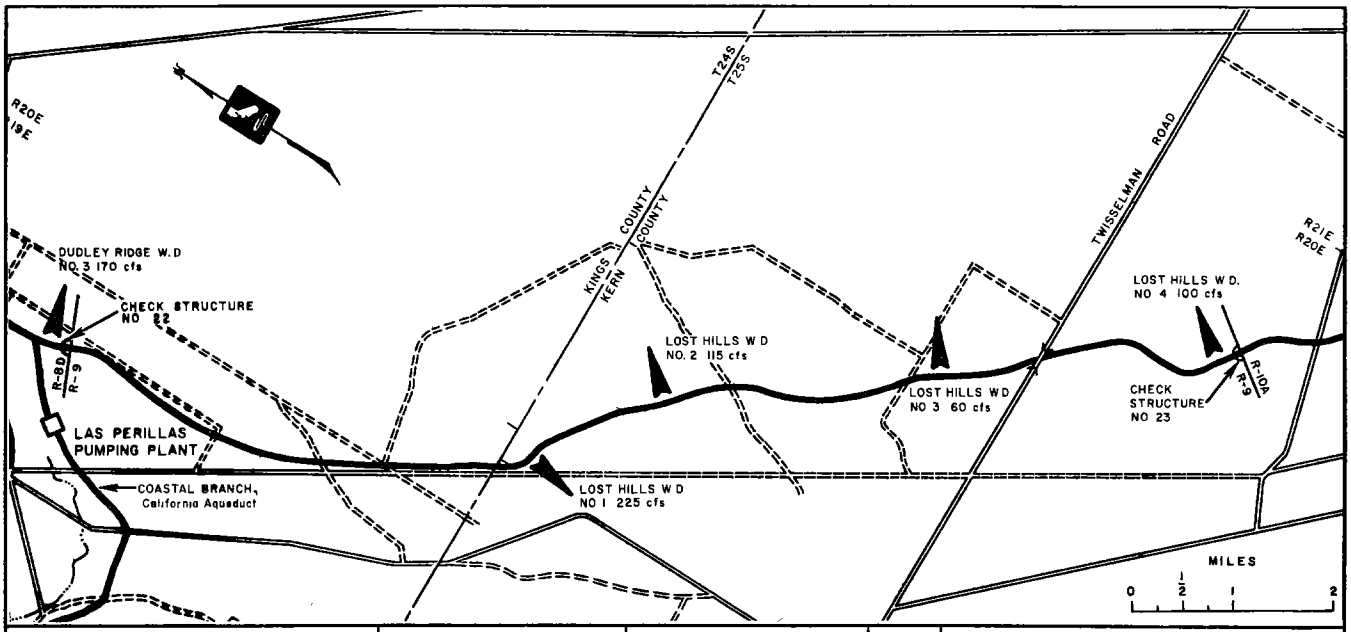
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	REACH 8D - MILHAM AVENUE THRU AVENAL GAP
.52778676 .40982184	.46880430	188.00000	2107056.7 3383.32898	.52778676 .42371730	.47575203	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.02710161 .02335344	.02522753	0	108196.4 182.08381	.02710161 .02280350	.0249526O	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00760751 .00627661	.00694206	0	30371.1 48.93791	.00760751 .00612883	.00686817	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00456980 .00393717	.00425349	0	18243.8 30.69765	.00456980 .00384448	.00420714	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00153202 .00132099	.00142650	0	6116.2 10.20957	.00153202 .00128986	.00141095	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01332078 .01017700	.01174889	0	53179.9 79.34875	.01332078 .00993738	.01162908	Q AF C CFS	MOJAVE WATER AGENCY
.00999058 .00861481	.00930269	0	39884.9 67.16854	.00999058 .00841197	.00920128	Q AF C CFS	DESERT WATER AGENCY
.00605731 .00522415	.00564073	0	24182.3 40.73207	.00605731 .00510115	.00557923	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.03558580 .02713176	.03135878	0	142067.4 211.54292	.03558580 .02649296	.0310393B	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00059530 .00045419	.00052475	0	2376.6 3.54128	.00059530 .00044350	.00051940	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00446843 .00340850	.00393847	0	17839.1 26.57567	.00446843 .00332825	.00389834	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00519865 .00396170	.00458017	0	20754.3 30.88888	.00519865 .00386842	.00453354	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01078713 .00822047	.00950380	0	43064.9 64.09399	.01078713 .00802693	.0094070B	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.03030727 .02826261	.02928494	0	120994.2 220.35997	.03030727 .02759718	.02895222	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.26153755 .39450686	.32802221	0	1044123.3 3075.92004	.26153755 .38521839	.32337797	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
.01501790 .01143893	.01322842	0	59955.2 89.18791	.01501790 .01116961	.01309375	Q AF C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00643279 .00489977	.00566628	0	25681.3 38.20291	.00643279 .00478441	.00560860	Q AF C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.00320877 .00488306	.00404591	0	12810.2 38.07261	.00320877 .00476809	.00398843	Q AF C CFS	DEVIL S DEN WATER DISTRICT
.01447838 .02210094	.01828966	0	57801.3 172.31824	.01447838 .02158058	.01802948	Q AF C CFS	DUDLEY RIDGE WATER DISTRICT
.01228280 .01874943	.01551611	0	49036.0 146.18690	.01228280 .01830798	.01529539	Q AF C CFS	TULARE LAKE BASIN WATER STORAGE DISTRICT
.00213286 .00325577	.00269431	0	8514.9 25.38480	.00213286 .00317911	.00265599	Q AF C CFS	HACIENDA WATER DISTRICT
1.00000000 1.00000000	1.00000000	188.00000	3992250.0 7984.87340	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



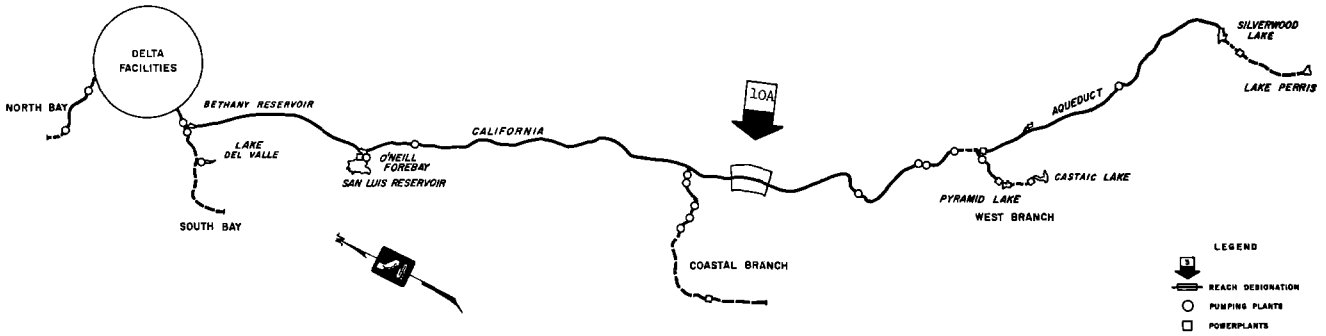
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 9 - AVENAL GAP THRU TWISSELMAN ROAD								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	3780.1	2011500.0	91862.2	0	0	2103362.2
	C CFS	0	6.22179	2863.14267	141.51078	184.59464	0	3189.24809
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	194.1	102600.0	5406.7	0	0	108006.7
	C CFS	0	.31948	172.33413	8.69940	.73805	0	181.77158
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	54.5	28800.0	1517.8	0	0	30317.8
	C CFS	0	.08970	45.15128	2.44216	1.25674	0	48.85018
SAN GORGONIO PASS WATER AGENCY	Q AF	0	32.7	17300.0	911.8	0	0	18211.8
	C CFS	0	.05382	29.05110	1.46709	.12679	0	30.64498
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	11.0	5800.0	305.5	0	0	6105.5
	C CFS	0	.01811	9.75185	.49157	.03854	0	10.28196
MOJAVE WATER AGENCY	Q AF	0	95.4	50800.0	2286.7	0	0	53086.7
	C CFS	0	.15702	70.16895	3.76373	5.26267	0	79.19535
DESERT WATER AGENCY	Q AF	0	71.5	38100.0	1715.0	0	0	39815.0
	C CFS	0	.11768	63.98093	2.82279	.24977	0	67.05349
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	43.4	23100.0	1039.9	0	0	24139.9
	C CFS	0	.07143	38.80295	1.71158	.14775	0	40.66228
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	254.9	138400.0	3418.3	0	0	141818.3
	C CFS	0	.41955	191.16896	5.62628	14.33768	0	211.13292
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	4.3	2300.0	72.4	0	0	2372.4
	C CFS	0	.00708	3.17694	.11916	.23827	0	3.53437
PALMDALE IRRIGATION DISTRICT	Q AF	0	32.0	17300.0	507.8	0	0	17807.8
	C CFS	0	.05267	23.89612	.83582	1.79221	0	26.52415
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	37.2	20000.0	717.9	0	0	20717.9
	C CFS	0	.06123	27.62557	1.04923	2.10417	0	30.82897
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	77.3	41500.0	1489.4	0	0	42989.4
	C CFS	0	.12723	57.32306	2.28053	4.36613	0	63.96972
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	217.1	119600.0	1182.0	0	0	120782.0
	C CFS	0	.35733	218.06521	1.64549	0	0	220.01070
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	46900.0	1694.5	935100.0	7766.6	0	0	942866.6
	C CFS	139.92905	2.78903	2789.92860	12.78329	0	0	2802.71189
TOTALS	Q AF	46900.0	6600.0	3552200.0	120200.0	0	0	3672400.0
	C CFS	139.92905	10.86315	6603.56832	187.59890	215.25341	0	7006.42063



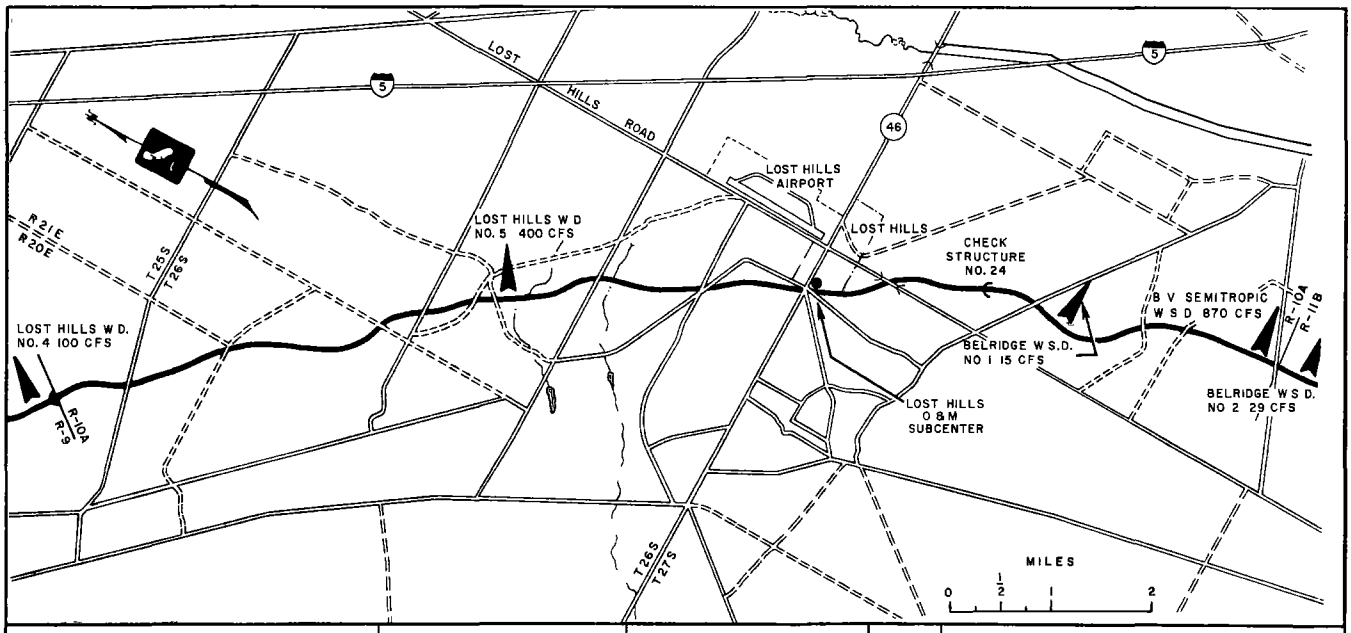
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 9 - AVENAL GAP THRU TWISSELMAN ROAD
.57274867			2103362.2	.57274867		Q AF	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.45518936	.51396901	188.00000	3377.24809	.46942600	.52108733	C CFS	
.02941039			108006.7	.02941039		Q AF	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.02594357	.02767698	0	181.77158	.02526563	.02733801	C CFS	
.00825558			30317.8	.00825558		Q AF	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00697220	.00761389	0	48.85018	.00679001	.00752270	C CFS	
.00495910			18211.8	.00495910		Q AF	SAN GORGONIO PASS WATER AGENCY
.00437384	.00466647	0	30.64498	.00425955	.00460932	C CFS	
.00166254			6105.5	.00166254		Q AF	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.00146751	.00156502	0	10.28196	.00142916	.00154585	C CFS	
.01445559			53086.7	.01445559		Q AF	MOJAVE WATER AGENCY
.01130325	.01287942	0	79.19535	.01100788	.01273174	C CFS	
.01084168			39815.0	.01084168		Q AF	DESERT WATER AGENCY
.00957029	.01020599	0	67.05349	.00932021	.01008094	C CFS	
.00657333			24139.9	.00657333		Q AF	COACHELLA VALLEY COUNTY WATER DISTRICT
.00580357	.00618845	0	40.66228	.00565192	.00611262	C CFS	
.03861733			141818.3	.03861733		Q AF	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.03013421	.03437577	0	211.13292	.02934676	.03398205	C CFS	
.00064601			2372.4	.00064601		Q AF	LITTLEROCK CREEK IRRIGATION DISTRICT
.00050445	.00057523	0	3.53437	.00049126	.00056864	C CFS	
.00484909			17807.8	.00484909		Q AF	PALMDALE IRRIGATION DISTRICT
.00378569	.00431739	0	26.52415	.00368677	.00426793	C CFS	
.00564151			20717.9	.00564151		Q AF	VENTURA COUNTY FLOOD CONTROL DISTRICT
.00440010	.00502081	0	30.82897	.00428512	.00496332	C CFS	
.01170608			42989.4	.01170608		Q AF	UPPER SANTA CLARA VALLEY WATER AGENCY
.00913016	.01041812	0	63.96972	.00889157	.01029883	C CFS	
.03288912			120782.0	.03288912		Q AF	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.03140130	.03214521	0	220.01070	.03058074	.03173493	C CFS	
.25674398			942866.6	.25674398		Q AF	KERN COUNTY WATER AGENCY AGRICULTURE
.40002050	.32838224	0	2802.71189	.38956742	.32315570	C CFS	
1.00000000			3672400.0	1.00000000		Q AF	TOTALS
1.00000000	1.00000000	188.00000	7194.42063	1.00000000	1.00000000	C CFS	

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



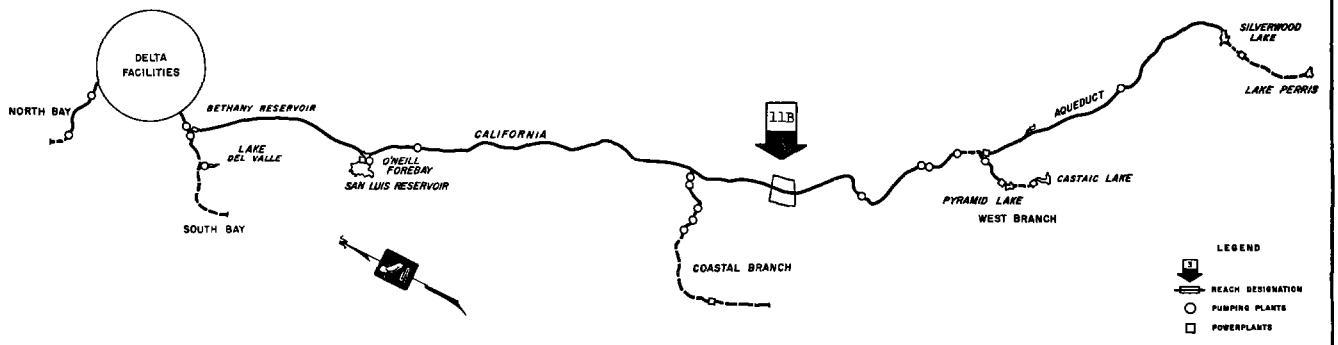
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 10A - TWISSELMAN ROAD THRU LOST HILLS								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	4061.2	2011500.0	88082.1	0	0	2099582.1
	C CFS	0	6.68446	2863.14267	135.28899	184.59464	0	3183.02630
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	208.5	102600.0	5212.6	0	0	107812.6
	C CFS	0	.34318	172.33413	8.37992	.73805	0	181.45210
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	58.5	28800.0	1463.3	0	0	30263.3
	C CFS	0	.09629	45.15128	2.35246	1.25674	0	48.76048
SAN GORGONIO PASS WATER AGENCY	Q AF	0	35.2	17300.0	879.1	0	0	18179.1
	C CFS	0	.05794	29.05110	1.41327	.12679	0	30.59116
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	11.8	5800.0	294.5	0	0	6094.5
	C CFS	0	.01942	9.75185	.47346	.03854	0	10.26385
MOJAVE WATER AGENCY	Q AF	0	102.5	50800.0	2191.3	0	0	52991.3
	C CFS	0	.16871	70.16895	3.60671	5.26267	0	79.03833
DESERT WATER AGENCY	Q AF	0	76.9	38100.0	1643.5	0	0	39743.5
	C CFS	0	.12657	63.98093	2.70511	.24977	0	66.93581
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	46.6	23100.0	996.5	0	0	24096.5
	C CFS	0	.07670	38.80295	1.64015	.14775	0	40.59085
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	273.8	138400.0	3163.4	0	0	141563.4
	C CFS	0	.45065	191.16896	5.20673	14.33768	0	210.71337
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	4.6	2300.0	68.1	0	0	2368.1
	C CFS	0	.00757	3.17694	.11208	.23827	0	3.52729
PALMDALE IRRIGATION DISTRICT	Q AF	0	34.4	17300.0	475.8	0	0	17775.8
	C CFS	0	.05662	23.89612	.78315	1.79221	0	26.47148
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	40.0	20000.0	680.7	0	0	20680.7
	C CFS	0	.06584	27.62557	1.03800	2.10417	0	30.76774
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	83.0	41500.0	1412.1	0	0	42912.1
	C CFS	0	.13661	57.32306	2.15330	4.36613	0	63.84249
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	233.2	119600.0	964.9	0	0	120564.9
	C CFS	0	.38383	218.06521	1.58816	0	0	219.65337
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	265800.0	1729.8	888200.0	6072.1	0	0	894272.1
	C CFS	793.03071	2.84713	2649.99955	9.99426	0	0	2659.99381
TOTALS	Q AF	265800.0	7000.0	3505300.0	113600.0	0	0	3618900.0
	C CFS	793.03071	11.52152	6463.63927	176.73575	215.25341	0	6855.62843



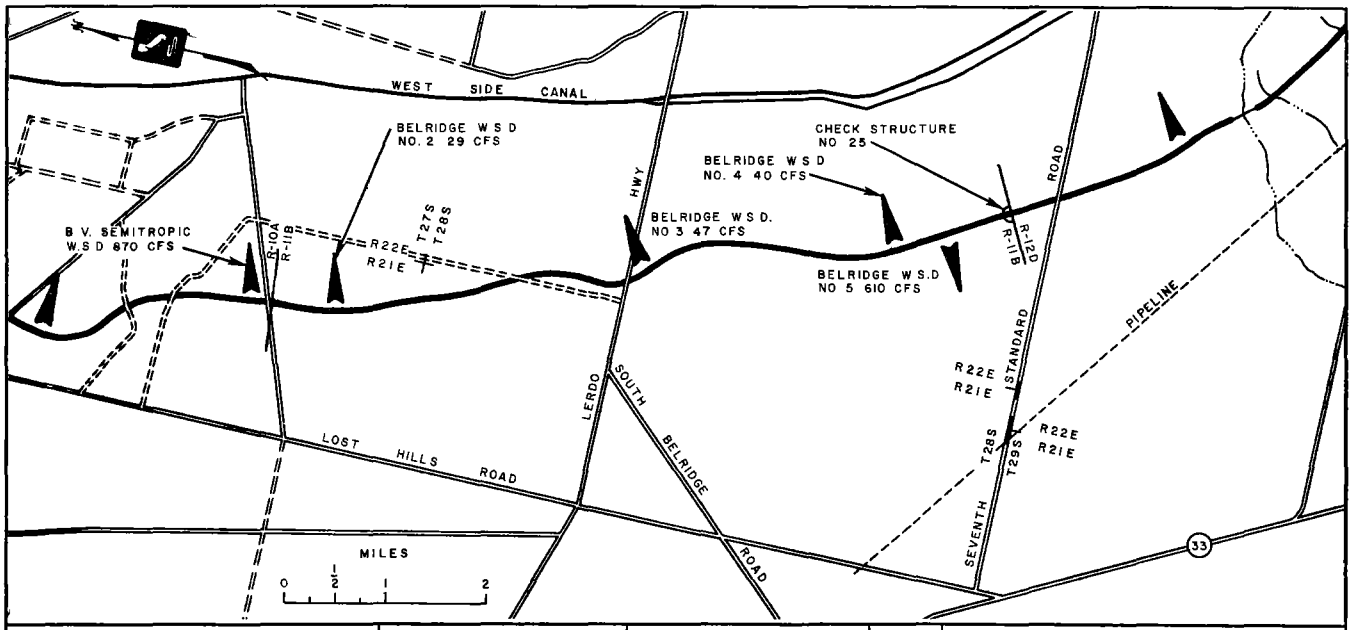
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 10A - TWISSELMAN ROAD THRU LOST HILLS
.58017135 .46429388	.52223261	188.00000	2099582.1 3371.02630	.58017135 .47859229	.52938182	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.02979154 .02646761	.02812957	0	107812.6 181.45210	.02979154 .02576117	.02777635	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00836257 .00711247	.00773752	0	30263.3 48.76043	.00836257 .00692264	.00764260	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00502338 .00446220	.00474279	0	18179.1 30.59116	.00502338 .00434310	.00468324	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00168408 .00149714	.00159061	0	6094.5 10.26385	.00168408 .00145718	.00157063	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01464293 .01152897	.01308595	0	52991.3 79.03833	.01464293 .01122125	.01293209	Q AF C CFS	MOJAVE WATER AGENCY
.01098220 .00976363	.01037292	0	39743.5 66.93581	.01098220 .00950303	.01024262	Q AF C CFS	DESERT WATER AGENCY
.00665852 .00592081	.00628966	0	24096.5 40.59085	.00665852 .00576277	.00621064	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.03911780 .03073582	.03492681	0	141563.4 210.71337	.03911780 .02991546	.03451663	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00065437 .00051451	.00058444	0	2368.1 3.52729	.00065437 .00050078	.00057757	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00491193 .00386128	.00438661	0	17775.8 26.47148	.00491193 .00375822	.00433508	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00571464 .00448795	.00510129	0	20680.7 30.76774	.00571464 .00436817	.00504140	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01185777 .00931242	.01058510	0	42912.1 63.84249	.01185777 .00906386	.01046082	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.03331534 .03203986	.03267760	0	120564.9 219.65337	.03331534 .03118468	.03225002	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.24711158 .38800145	.31755652	0	894272.1 2659.99381	.24711158 .37764539	.31237849	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
1.00000000 1.00000000	1.00000000	188.00000	3618900.0 7043.62843	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



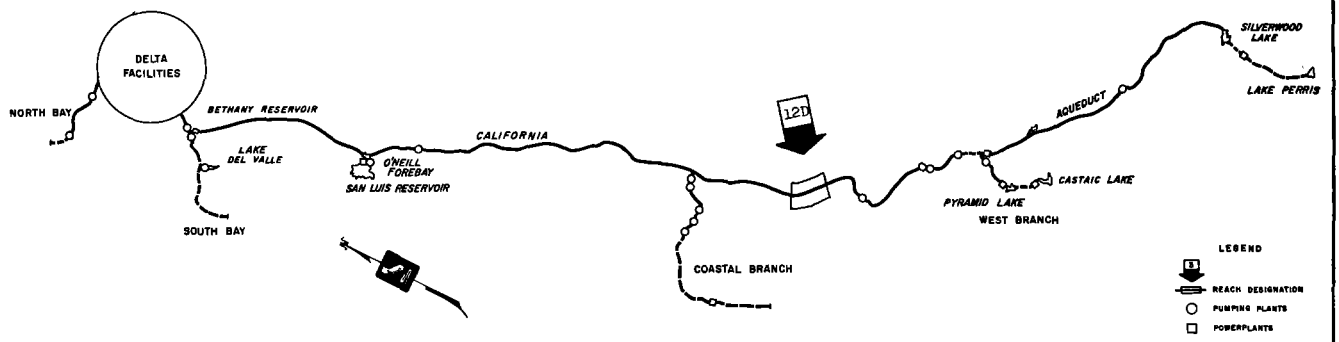
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 11B - LOST HILLS TO 7TH STANDARD ROAD								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	2442.4	2011500.0	84020.9	0	0	2095520.9
	C CFS	0	4.02002	2863.14267	128.60453	184.59464	0	3176.34184
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	125.4	102600.0	5004.1	0	0	107604.1
	C CFS	0	.20640	172.33413	8.03674	.73805	0	181.10892
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	35.2	28800.0	1404.8	0	0	30204.8
	C CFS	0	.05794	45.15128	2.25617	1.25674	0	48.66419
SAN GORGONIO PASS WATER AGENCY	Q AF	0	21.1	17300.0	843.9	0	0	18143.9
	C CFS	0	.03473	29.05110	1.35533	.12679	0	30.53322
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	7.1	5800.0	282.7	0	0	6082.7
	C CFS	0	.01169	9.75185	.45404	.03854	0	10.24443
MOJAVE WATER AGENCY	Q AF	0	61.6	50800.0	2088.8	0	0	52888.8
	C CFS	0	.10139	70.16895	3.43800	5.26267	0	78.86962
DESERT WATER AGENCY	Q AF	0	46.2	38100.0	1566.6	0	0	39666.6
	C CFS	0	.07604	63.98093	2.57854	.24977	0	66.80924
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	28.0	23100.0	949.9	0	0	24049.9
	C CFS	0	.04609	38.80295	1.56745	.14775	0	40.51415
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	164.7	138400.0	2889.6	0	0	141289.6
	C CFS	0	.27108	191.16896	4.75608	14.33768	0	210.26272
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	2.8	2300.0	63.5	0	0	2363.5
	C CFS	0	.00461	3.17694	.10451	.23827	0	3.51972
PALMDALE IRRIGATION DISTRICT	Q AF	0	20.7	17300.0	441.4	0	0	17741.4
	C CFS	0	.03407	23.89612	.72653	1.79221	0	26.41486
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	24.1	20000.0	640.7	0	0	20640.7
	C CFS	0	.03967	27.62557	.97216	2.10417	0	30.70190
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	49.9	41500.0	1329.1	0	0	42829.1
	C CFS	0	.08213	57.32306	2.01669	4.36613	0	63.70588
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	140.3	119600.0	731.7	0	0	120331.7
	C CFS	0	.23092	218.06521	1.20433	0	0	219.26954
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	126300.0	730.5	622400.0	4342.3	0	0	626742.3
	C CFS	376.82385	1.20235	1856.96884	7.14713	0	0	1864.11597
TOTALS	Q AF	126300.0	3900.0	3239500.0	106600.0	0	0	3346100.0
	C CFS	376.82385	6.41913	5670.60856	165.21423	215.25341	0	6051.07620



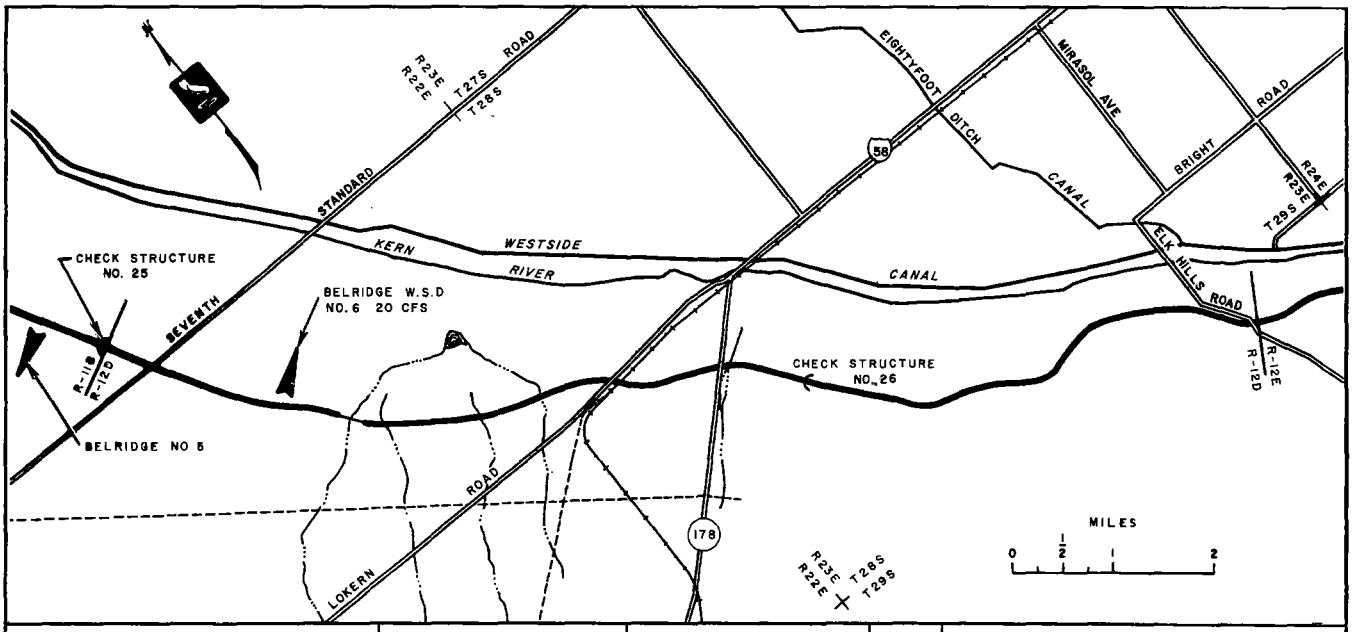
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 11B - LOST HILLS TO 7TH STANDARD ROAD
.62625770 .52492181	.57558975	188.00000	2095520.9 3364.34184	.62625770 .53923718	.58274744	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.03215806 .02993003	.03104405	0	107604.1 181.10892	.03215806 .02902816	.03059311	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00902687 .00804224	.00853455	0	30204.8 48.66419	.00902687 .00779990	.00841338	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00542240 .00504592	.00523416	0	18143.9 30.53322	.00542240 .00489387	.00515814	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00181785 .00169299	.00175542	0	6082.7 10.24443	.00181785 .00164198	.00172991	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01580610 .01303398	.01442004	0	52888.8 78.86962	.01580610 .01264123	.01422367	Q AF C CFS	MOJAVE WATER AGENCY
.01185458 .01104089	.01144773	0	39666.6 66.80924	.01185458 .01070819	.01128139	Q AF C CFS	DESERT WATER AGENCY
.00718744 .00669536	.00694140	0	24049.9 40.51415	.00718744 .00649361	.00684053	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.04222516 .03474799	.03848657	0	141289.6 210.26272	.04222516 .03370094	.03796305	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00070635 .00058167	.00064401	0	2363.5 3.51972	.00070635 .00056414	.00063524	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00530211 .00436532	.00483371	0	17741.4 26.41486	.00530211 .00423378	.00476795	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00616858 .00507379	.00562119	0	20640.7 30.70190	.00616858 .00492091	.00554474	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01279971 .01052802	.01166387	0	42829.1 63.70588	.01279971 .01021079	.01150525	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.03596178 .03623645	.03609912	0	120331.7 219.26954	.03596178 .03514455	.03555316	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.18730531 .30806354	.24768443	0	626742.5 1864.11597	.18730531 .29878077	.24304304	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
1.00000000 1.00000000	1.00000000	188.00000	3346100.0 6239.07620	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



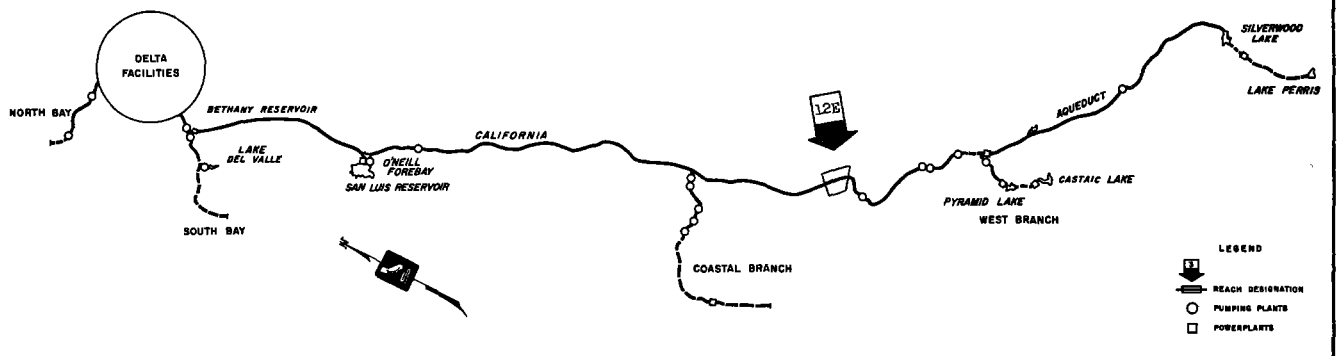
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 12D - 7TH STANDARD ROAD THRU ELK HILLS ROAD								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	4621.1	2011500.0	81578.5	0	0	2093078.5
	C CFS	0	7.60601	2863.14267	124.58451	184.59464	0	3172.32182
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	237.3	102600.0	4878.7	0	0	107478.7
	C CFS	0	.39058	172.33413	7.83034	.73805	0	180.90252
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	66.6	28800.0	1369.6	0	0	30169.6
	C CFS	0	.10962	45.15128	2.19823	1.25674	0	48.60625
SAN GORGONIO PASS WATER AGENCY	Q AF	0	40.0	17300.0	822.8	0	0	18122.8
	C CFS	0	.06584	29.05110	1.32060	.12679	0	30.49849
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	13.4	5800.0	275.6	0	0	6075.6
	C CFS	0	.02205	9.75185	.44235	.03854	0	10.23274
MOJAVE WATER AGENCY	Q AF	0	116.6	50800.0	2027.2	0	0	52827.2
	C CFS	0	.19191	70.16895	3.33661	5.26267	0	78.76823
DESERT WATER AGENCY	Q AF	0	87.5	38100.0	1520.4	0	0	39620.4
	C CFS	0	.14402	63.98093	2.50250	.24977	0	66.73320
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	53.0	23100.0	921.9	0	0	24021.9
	C CFS	0	.08723	38.80295	1.51736	.14775	0	40.46806
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	311.6	138400.0	2724.9	0	0	141124.9
	C CFS	0	.51287	191.16898	4.48500	14.33768	0	209.99164
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	5.2	2300.0	60.7	0	0	2360.7
	C CFS	0	.00856	3.17694	.09990	.23827	0	3.51511
PALMDALE IRRIGATION DISTRICT	Q AF	0	39.1	17300.0	420.7	0	0	17720.7
	C CFS	0	.06436	23.89612	.69246	1.79221	0	26.38079
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	45.5	20000.0	616.6	0	0	20616.6
	C CFS	0	.07489	27.62557	.93249	2.10417	0	30.66223
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	94.4	41500.0	1279.2	0	0	42779.2
	C CFS	0	.15538	57.32306	1.93456	4.36613	0	63.62375
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	265.4	119600.0	591.4	0	0	120191.4
	C CFS	0	.43683	218.06521	.97341	0	0	219.03862
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	3700.0	1103.3	496100.0	3611.8	0	0	499711.8
	C CFS	11.03918	1.81596	1480.14499	5.94478	0	0	1486.08977
TOTALS	Q AF	3700.0	7100.0	3113200.0	102700.0	0	0	3215900.0
	C CFS	11.03918	11.68611	5293.78471	158.79510	215.25341	0	5667.83322



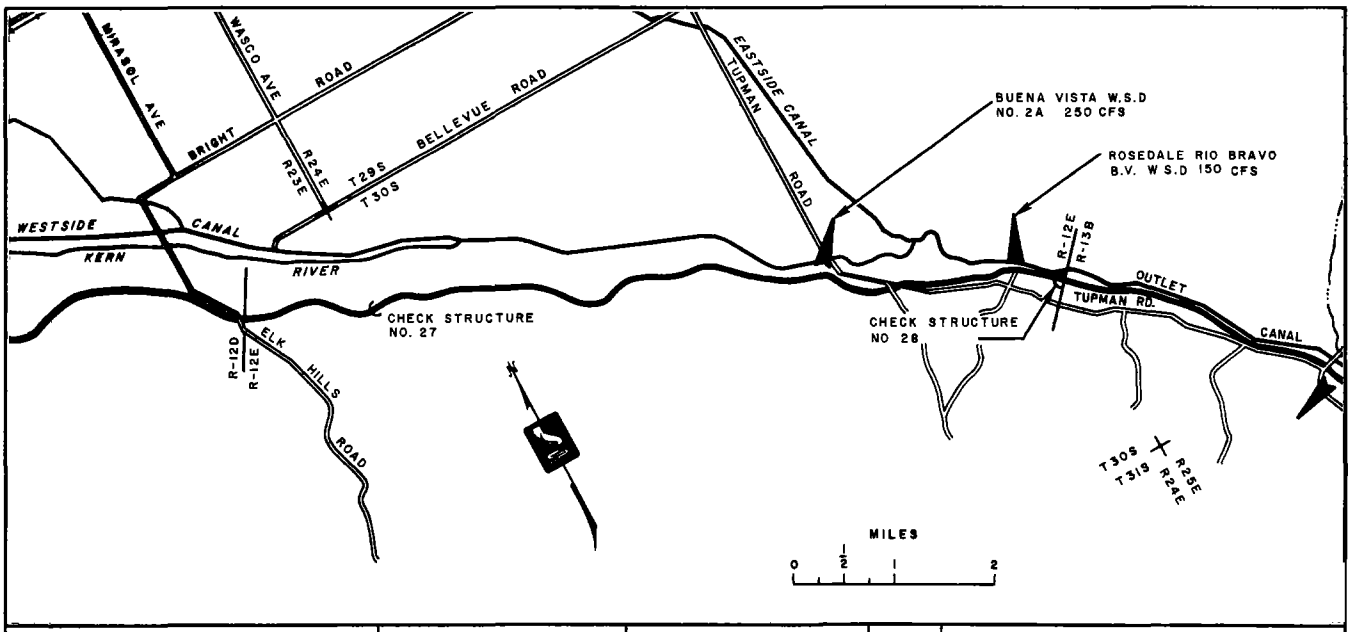
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 12D - 7TH STANDARD ROAD THRU ELK HILLS ROAD
.65085311 .55970627	.60527969	188.00000	2093078.5 3360.32182	.65085311 .57384179	.61234745	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.03342103 .03191740	.03266922	0	107478.7 180.90252	.03342103 .03089270	.03215687	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00938139 .00857581	.00897860	0	30169.6 48.60625	.00938139 .00830048	.00884093	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00563537 .00538098	.00550817	0	18122.8 30.49849	.00563537 .00520822	.00542180	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00188924 .00180541	.00184732	0	6075.6 10.23274	.00188924 .00174744	.00181834	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01642688 .01389741	.01516215	0	52827.2 78.76823	.01642688 .01345124	.01493906	Q AF C CFS	MOJAVE WATER AGENCY
.01232016 .01177402	.01204709	0	39620.4 66.73320	.01232016 .01139602	.01185809	Q AF C CFS	DESERT WATER AGENCY
.00746973 .00713995	.00730484	0	24021.9 40.46806	.00746973 .00691073	.00719023	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.04388349 .03704972	.04046660	0	141124.9 209.99164	.04388349 .03586025	.03987187	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00073407 .00062019	.00067713	0	2360.7 3.51511	.00073407 .00060028	.00066717	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00551034 .00465448	.00508241	0	17720.7 26.38079	.00551034 .00450505	.00500769	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00641083 .00540987	.00591035	0	20616.6 30.66223	.00641083 .00523619	.00582351	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01330240 .01122541	.01226391	0	42779.2 63.62375	.01330240 .01086502	.01208371	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.03737411 .03864592	.03801001	0	120191.4 219.03862	.03737411 .03740520	.03738966	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.15538785 .26219716	.20879251	0	499711.8 1486.08977	.15538785 .25377939	.20458362	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
1.00000000 1.00000000	1.00000000	188.00000	3215900.0 5855.83322	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



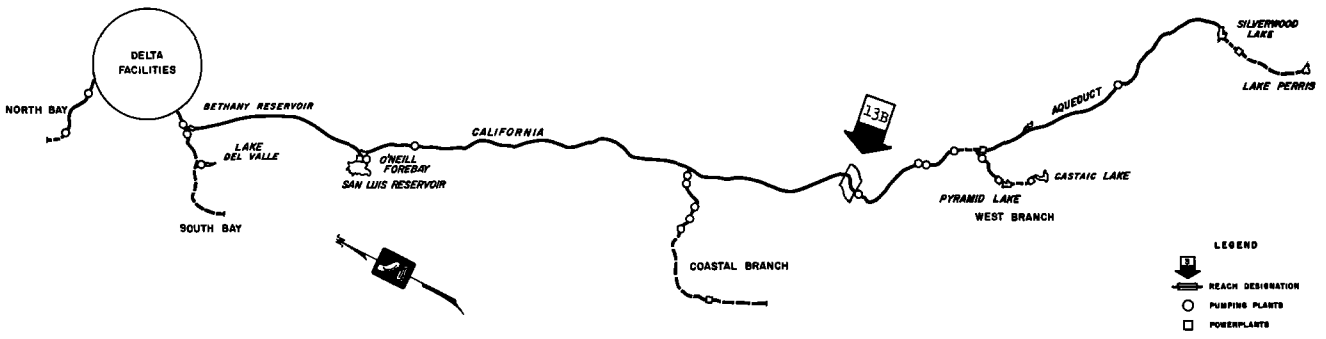
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 12E - ELK HILLS ROAD THRU TUPMAN ROAD								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	2150.3	2011500.0	76957.4	0	0	2088457.4
	C CFS	0	3.53925	2863.14267	116.97850	184.59464	0	3164.71581
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	110.4	102600.0	4641.4	0	0	107241.4
	C CFS	0	.18171	172.33413	7.43976	.73805	0	180.51194
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	31.0	28800.0	1303.0	0	0	30103.0
	C CFS	0	.05102	45.15128	2.08861	1.25674	0	48.49663
SAN GORGONIO PASS WATER AGENCY	Q AF	0	18.6	17300.0	782.8	0	0	18082.8
	C CFS	0	.03061	29.05110	1.25476	.12679	0	30.43265
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	6.2	5800.0	262.2	0	0	6062.2
	C CFS	0	.01021	9.75185	.42030	.03854	0	10.21069
MOJAVE WATER AGENCY	Q AF	0	54.3	50800.0	1910.6	0	0	52710.6
	C CFS	0	.08937	70.16895	3.14470	5.26267	0	78.57632
DESERT WATER AGENCY	Q AF	0	40.7	38100.0	1432.9	0	0	39532.9
	C CFS	0	.06699	63.98093	2.35848	.24977	0	66.58918
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	24.7	23100.0	868.9	0	0	23968.9
	C CFS	0	.04065	38.80295	1.43013	.14775	0	40.38083
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	145.0	138400.0	2413.3	0	0	140813.3
	C CFS	0	.23866	191.16896	3.97213	14.33768	0	209.47877
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	2.4	2300.0	55.5	0	0	2355.5
	C CFS	0	.00395	3.17694	.09134	.23827	0	3.50655
PALMDALE IRRIGATION DISTRICT	Q AF	0	18.2	17300.0	381.6	0	0	17681.6
	C CFS	0	.02996	23.89612	.62810	1.79221	0	26.31643
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	21.2	20000.0	571.1	0	0	20571.1
	C CFS	0	.03489	27.62557	.85760	2.10417	0	30.58734
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	43.9	41500.0	1184.8	0	0	42684.8
	C CFS	0	.07226	57.32306	1.77918	4.36613	0	63.46837
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	77400.0	123.5	119600.0	326.0	0	0	119926.0
	C CFS	141.12247	.20327	218.06521	.53658	0	0	218.60179
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	130800.0	509.6	492400.0	2508.5	0	0	494908.5
	C CFS	390.24988	.83877	1460.10581	4.12882	0	0	1473.23463
TOTALS	Q AF	208200.0	3300.0	3109500.0	95600.0	0	0	3205100.0
	C CFS	531.37235	5.43157	5282.74553	147.10899	215.25341	0	5645.10793



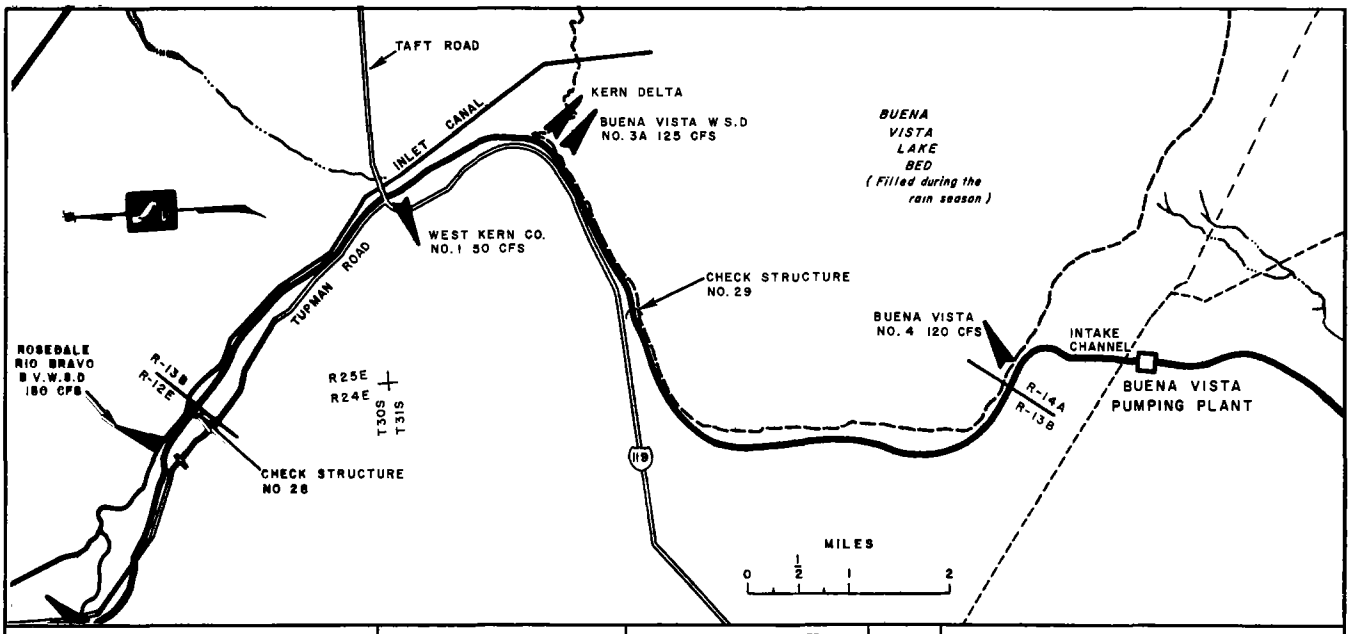
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 12E - ELK HILLS ROAD THRU TUPMAN ROAD
.65160444 .56061210	.60610827	188.00000	2088457.4 3352.71581	.65160444 .57477349	.61318897	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.03345961 .03197670	.03271816	0	107241.4 180.51194	.03345961 .03094610	.03220286	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.00939222 .00859091	.00899157	0	30103.0 48.49663	.00939222 .00831403	.00885312	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00564188 .00539098	.00551643	0	18082.8 30.43265	.00564188 .00521723	.00542956	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00189142 .00180877	.00185010	0	6062.2 10.21069	.00189142 .00175047	.00182095	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01644585 .01391937	.01518261	0	52710.6 78.57632	.01644585 .01347075	.01495830	Q AF C CFS	MOJAVE WATER AGENCY
.01233438 .01179591	.01206514	0	39532.9 66.58918	.01233438 .01141573	.01187505	Q AF C CFS	DESERT WATER AGENCY
.00747836 .00715324	.00731580	0	23968.9 40.38083	.00747836 .00692268	.00720053	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.04393414 .03710802	.04052108	0	140813.3 209.47877	.04393414 .03591203	.03992309	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00073492 .00062117	.00067804	0	2355.5 3.50655	.00073492 .00060115	.00066803	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00551671 .00466181	.00508926	0	176R1.6 26.31643	.00551671 .00451156	.00501413	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00641824 .00541838	.00591831	0	20571.1 30.58734	.00641824 .00524375	.00583099	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01331778 .01124307	.01228042	0	42684.8 63.46837	.01331778 .01088071	.01209924	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.03741724 .03872411	.03807068	0	119926.0 218.60179	.03741724 .03747604	.03744664	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.15441281 .26097546	.20769413	0	494908.5 1473.23463	.15441281 .25256427	.20348854	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
1.00000000 1.00000000	1.00000000	188.00000	3205100.0 5833.10793	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



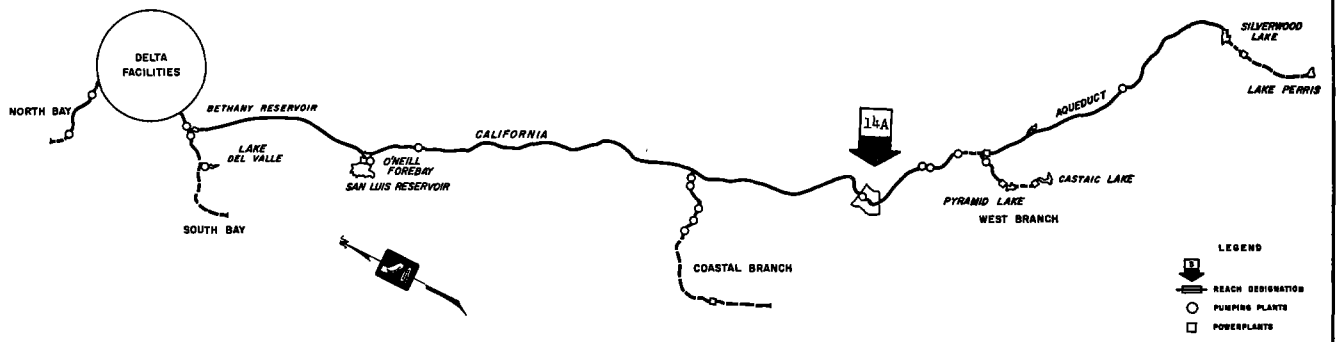
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 13B - TUPMAN ROAD TO BUENA VISTA PUMPING PLANT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	4251.2	2011500.0	74807.1	0	0	2086307.1
	C CFS	0	6.99718	2863.14267	113.43925	184.59464	0	3161.17656
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	218.3	102600.0	4531.0	0	0	107131.0
	C CFS	0	.35931	172.33413	7.25805	.73805	0	180.33023
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	61.3	28800.0	1272.0	0	0	30072.0
	C CFS	0	.10090	45.15128	2.03759	1.25674	0	48.44561
SAN GORGONIO PASS WATER AGENCY	Q AF	0	36.8	17300.0	764.2	0	0	18064.2
	C CFS	0	.06057	29.05110	1.22415	.12679	0	30.40204
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	12.3	5800.0	256.0	0	0	6056.0
	C CFS	0	.02025	9.75185	.41009	.03854	0	10.20048
MOJAVE WATER AGENCY	Q AF	0	107.3	50800.0	1856.3	0	0	52656.3
	C CFS	0	.17661	70.16895	3.05533	5.26267	0	78.48695
DESERT WATER AGENCY	Q AF	0	80.5	38100.0	1392.2	0	0	39492.2
	C CFS	0	.13250	63.98093	2.29149	.24977	0	66.52219
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	48.8	23100.0	844.2	0	0	23944.2
	C CFS	0	.08032	38.80295	1.38948	.14775	0	40.34018
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	286.6	138400.0	2268.3	0	0	140668.3
	C CFS	0	.47172	191.16896	3.73347	14.33768	0	209.24011
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	4.8	2300.0	53.1	0	0	2353.1
	C CFS	0	.00790	3.17694	.08739	.23827	0	3.50260
PALMDALE IRRIGATION DISTRICT	Q AF	0	36.0	17300.0	363.4	0	0	17663.4
	C CFS	0	.05925	23.89612	.59814	1.79221	0	26.28647
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	41.9	20000.0	549.9	0	0	20549.9
	C CFS	0	.06896	27.62557	.82271	2.10417	0	30.55245
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	86.9	41500.0	1140.9	0	0	42640.9
	C CFS	0	.14303	57.32306	1.70692	4.36613	0	63.39611
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	25200.0	86.4	42200.0	202.5	0	0	42402.5
	C CFS	45.94685	.14221	76.94274	.33331	0	0	77.27605
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	86800.0	740.9	361600.0	1998.9	0	0	363598.9
	C CFS	258.97316	1.21947	1078.85593	3.29005	0	0	1082.14598
TOTALS	Q AF	112000.0	6100.0	2901300.0	92300.0	0	0	2993600.0
	C CFS	304.92001	10.04018	4751.37318	141.67742	215.25341	0	5108.30401



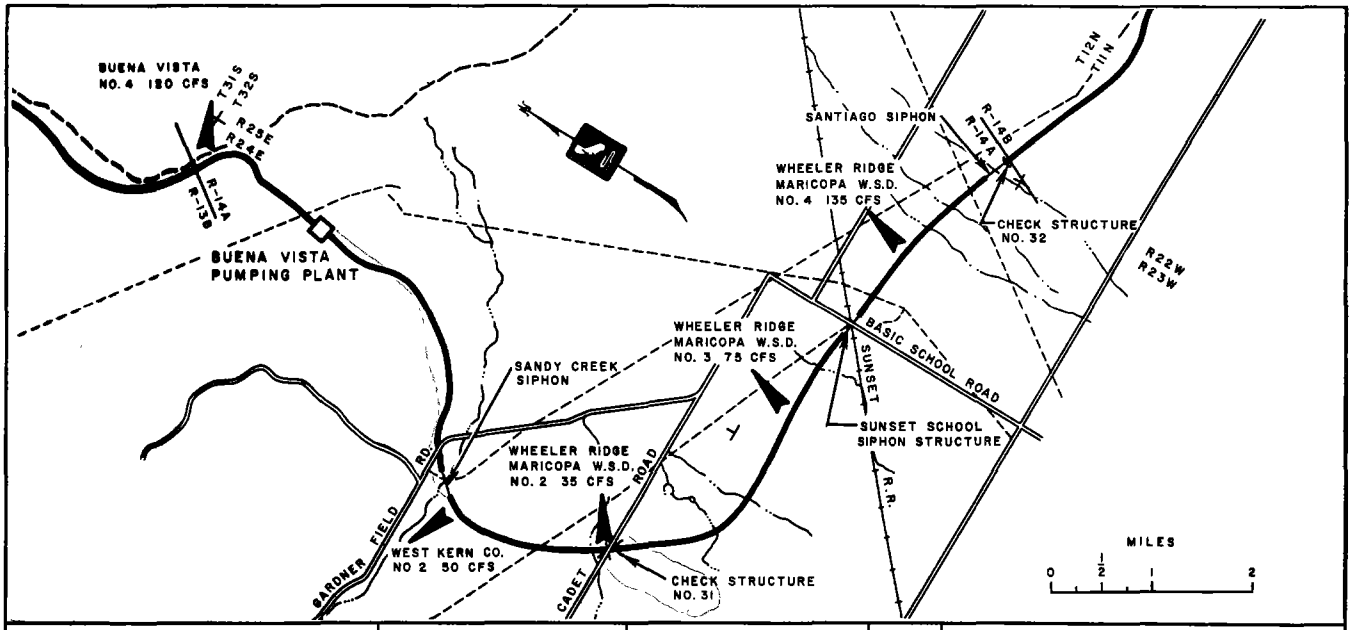
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 13B - TUPMAN ROAD TO BUENA VISTA PUMPING PLANT
.69692247 .61883094	.65787670	188.00000	2086307.1 3349.17656	.69692247 .63236109	.66464178	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.03578668 .03530139	.03554404	0	107131.0 180.33023	.03578668 .03404831	.03491750	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.01004543 .00948370	.00976456	0	30072.0 48.44561	.01004543 .00914706	.00959625	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00603427 .00595149	.00599288	0	18064.2 30.40204	.00603427 .00574024	.00588725	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00202298 .00199684	.00200991	0	6056.0 10.20048	.00202298 .00192596	.00197447	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01758963 .01536458	.01647710	0	52656.3 78.48695	.01758963 .01481919	.01620441	Q AF C CFS	MOJAVE WATER AGENCY
.01319221 .01302236	.01310729	0	39492.2 66.52219	.01319221 .01256011	.01287616	Q AF C CFS	DESERT WATER AGENCY
.00799846 .00789698	.00794772	0	23944.2 40.34018	.00799846 .00761667	.00780756	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.04698968 .04096078	.04397523	0	140668.3 209.24011	.04698968 .03950682	.04324825	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00078604 .00068567	.00073586	0	2353.1 3.50260	.00078604 .00066133	.00072369	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00590039 .00514583	.00552311	0	17663.4 26.28647	.00590039 .00496317	.00543178	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00686461 .00598094	.00642278	0	20549.9 30.55245	.00686461 .00576864	.00631662	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01424402 .01241040	.01332721	0	42640.9 63.39611	.01424402 .01196988	.01310695	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.01416438 .01512754	.01464596	0	42402.5 77.27605	.01416438 .01459056	.01437747	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.12145875 .21184056	.16664965	0	363598.9 1082.14598	.12145875 .20432097	.16288986	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
1.00000000 1.00000000	1.00000000	188.00000	2993600.0 5296.30401	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 14A - BUENA VISTA PUMPING PLANT THRU SANTIAGO CREEK								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	3910.0	2011500.0	70555.9	0	0	2082055.9
	C CFS	0	6.43559	2863.14267	106.44207	184.59464	0	3154.17938
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	200.8	102600.0	4312.7	0	0	106912.7
	C CFS	0	.33050	172.33413	6.89874	.73805	0	179.97092
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	56.4	28800.0	1210.7	0	0	30010.7
	C CFS	0	.09283	45.15128	1.93669	1.25674	0	48.34471
SAN GORGONIO PASS WATER AGENCY	Q AF	0	33.9	17300.0	727.4	0	0	18027.4
	C CFS	0	.05580	29.05110	1.16358	.12679	0	30.34147
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	11.3	5800.0	243.7	0	0	6043.7
	C CFS	0	.01860	9.75185	.38984	.03854	0	10.18023
MOJAVE WATER AGENCY	Q AF	0	98.7	50800.0	1749.0	0	0	52549.0
	C CFS	0	.16245	70.16895	2.87872	5.26267	0	78.31034
DESERT WATER AGENCY	Q AF	0	74.0	38100.0	1311.7	0	0	39411.7
	C CFS	0	.12180	63.98093	2.15899	.24977	0	66.38969
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	44.9	23100.0	795.4	0	0	23895.4
	C CFS	0	.07390	38.80295	1.30916	.14775	0	40.25986
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	263.6	138400.0	1981.7	0	0	140381.7
	C CFS	0	.43387	191.16896	3.26175	14.33768	0	208.76839
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	4.4	2300.0	48.3	0	0	2348.3
	C CFS	0	.00724	3.17694	.07949	.23827	0	3.49470
PALMDALE IRRIGATION DISTRICT	Q AF	0	33.1	17300.0	327.4	0	0	17627.4
	C CFS	0	.05448	23.89612	.53889	1.79221	0	26.22722
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	38.5	20000.0	508.0	0	0	20508.0
	C CFS	0	.06337	27.62557	.75375	2.10417	0	30.48349
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	79.9	41500.0	1054.0	0	0	42554.0
	C CFS	0	.13151	57.32306	1.56389	4.36613	0	63.25308
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	32.1	17000.0	116.1	0	0	17116.1
	C CFS	0	.05284	30.99589	.19110	0	0	31.18699
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	37500.0	518.4	274800.0	1258.0	0	0	276058.0
	C CFS	111.88357	.85325	819.88277	2.07058	0	0	821.95335
TOTALS	Q AF	37500.0	5400.0	2789300.0	86200.0	0	0	2875500.0
	C CFS	111.88357	8.88803	4446.45317	131.63724	215.25341	0	4793.34382



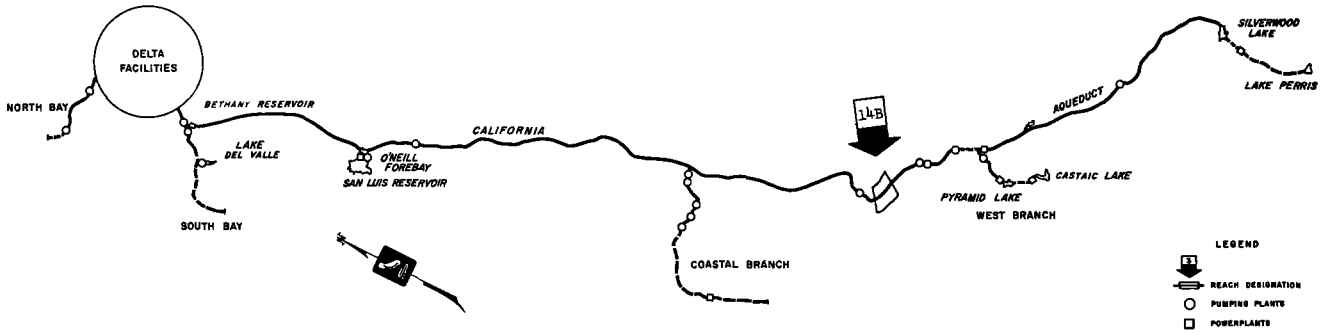
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	

REACH 14A - BUENA VISTA PUMPING PLANT THRU SANTIAGO CREEK

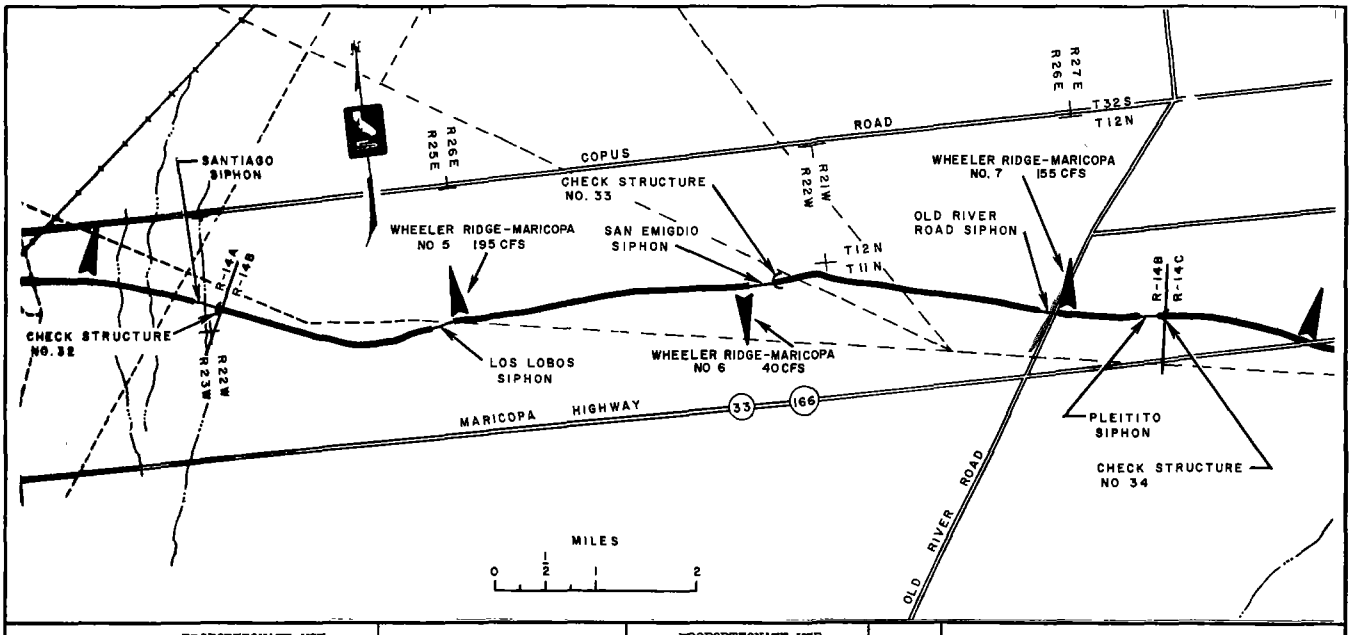
.72406743 .65803320	.69105032	188.00000	2082055.9 3342.17938	.72406743 .67093931	.69750337	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.03718056 .03754601	.03736328	0	106912.7 179.97092	.03718056 .03612899	.03665478	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.01043669 .01008580	.01026125	0	30010.7 48.34471	.01043669 .00970515	.01007092	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00626931 .00632992	.00629961	0	18027.4 30.34147	.00626931 .00609102	.00618017	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00210179 .00212383	.00211281	0	6043.7 10.18023	.00210179 .00204367	.00207273	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01827473 .01633731	.01730602	0	52549.0 78.31034	.01827473 .01572073	.01699773	Q AF C CFS	MOJAVE WATER AGENCY
.01370603 .01385039	.01377821	0	39411.7 66.38969	.01370603 .01332767	.01351685	Q AF C CFS	DESERT WATER AGENCY
.00831000 .00839912	.00835456	0	23895.4 40.25986	.00831000 .00808213	.00819606	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.04881993 .04355381	.04618687	0	140381.7 208.76839	.04881993 .04191005	.04536499	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00081666 .00072907	.00077287	0	2348.3 3.49470	.00081666 .00070156	.00075911	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00613020 .00547159	.00580090	0	17627.4 26.22722	.00613020 .00526509	.00569765	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00713198 .00635955	.00674576	0	20508.0 30.48349	.00713198 .00611953	.00662575	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01479882 .01319602	.01399742	0	42554.0 63.25308	.01479882 .01269796	.01374841	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.00595239 .00650631	.00622935	0	17116.1 31.18699	.00595239 .00626076	.00610657	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.09600348 .17147807	.13374077	0	276058.0 821.95335	.09600348 .16500635	.13050491	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
1.00000000 1.00000000	1.00000000	188.00000	2875500.0 4981.34382	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



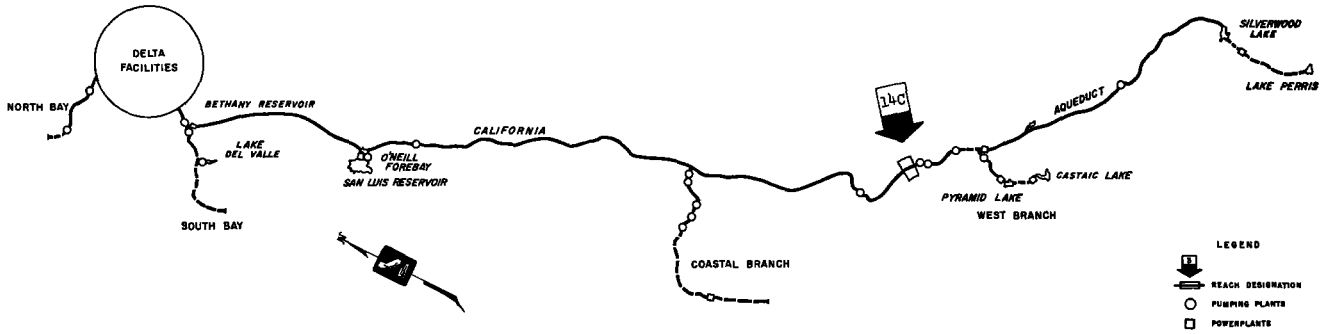
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 14B - SANTIAGO CREEK THRU OLD RIVER ROAD								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	2787.9	2011500.0	66645.9	0	0	2078145.9
	C CFS	0	4.58869	2863.14267	100.00648	184.59464	0	3147.74379
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	143.1	102600.0	4111.9	0	0	106711.9
	C CFS	0	.23553	172.33413	6.56824	.73805	0	179.64042
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	40.2	28800.0	1154.3	0	0	29954.3
	C CFS	0	.06617	45.15128	1.84386	1.25674	0	48.25188
SAN GORGONIO PASS WATER AGENCY	Q AF	0	24.1	17300.0	693.5	0	0	17993.5
	C CFS	0	.03967	29.05110	1.10778	.12679	0	30.28567
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	8.1	5800.0	232.4	0	0	6032.4
	C CFS	0	.01333	9.75185	.37124	.03854	0	10.16163
MOJAVE WATER AGENCY	Q AF	0	70.4	50800.0	1650.3	0	0	52450.3
	C CFS	0	.11587	70.16895	2.71627	5.26267	0	78.14789
DESERT WATER AGENCY	Q AF	0	52.8	38100.0	1237.7	0	0	39337.7
	C CFS	0	.08691	63.98093	2.03719	.24977	0	66.26789
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	32.0	23100.0	750.5	0	0	23850.5
	C CFS	0	.05267	38.80295	1.23526	.14775	0	40.18596
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	188.0	138400.0	1718.1	0	0	140118.1
	C CFS	0	.30944	191.16896	2.82788	14.33768	0	208.33452
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	3.1	2300.0	43.9	0	0	2343.9
	C CFS	0	.00510	3.17694	.07225	.23827	0	3.48746
PALMDALE IRRIGATION DISTRICT	Q AF	0	23.6	17300.0	294.3	0	0	17594.3
	C CFS	0	.03884	23.89612	.48441	1.79221	0	26.17274
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	27.5	20000.0	469.5	0	0	20469.5
	C CFS	0	.04526	27.62557	.69038	2.10417	0	30.42012
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	57.0	41500.0	974.1	0	0	42474.1
	C CFS	0	.09382	57.32306	1.43238	4.36613	0	63.12157
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	22.9	17000.0	84.0	0	0	17084.0
	C CFS	0	.03769	30.99589	.13826	0	0	31.13415
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	60700.0	319.3	237300.0	739.6	0	0	238039.6
	C CFS	181.10220	.52555	707.99920	1.21733	0	0	709.21653
TOTALS	Q AF	60700.0	3800.0	2751800.0	80800.0	0	0	2832600.0
	C CFS	181.10220	6.25454	4334.56960	122.74921	215.25341	0	4672.57222



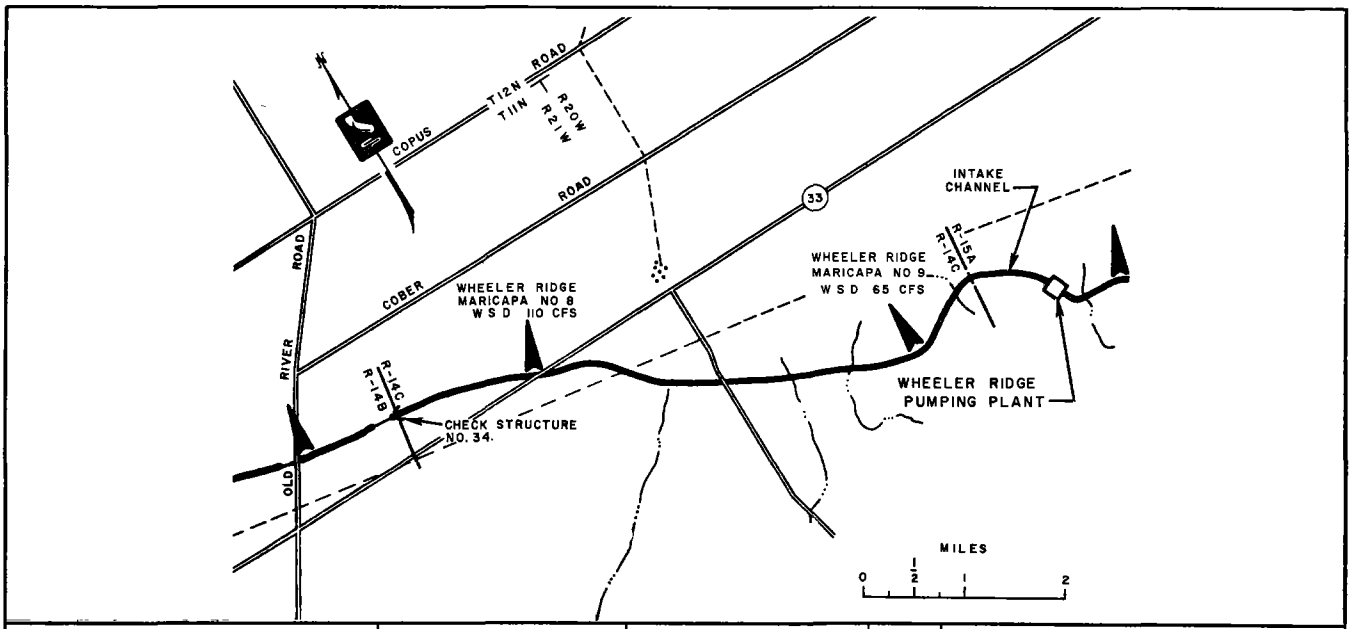
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 14B - SANTIAGO CREEK THRU OLD RIVER ROAD
.73365315 .67366402	.70365858	188.00000	2078145.9 3335.74379	.73365315 .68628623	.70996969	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.03767278 .03844572	.03805925	0	106711.9 179.64042	.03767278 .03695870	.03731574	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.01057484 .01032662	.01045073	0	29954.3 48.25188	.01057484 .00992720	.01025102	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00635229 .00648158	.00641694	0	17993.5 30.28567	.00635229 .00623089	.00629159	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00212963 .00217474	.00215218	0	6032.4 10.16163	.00212963 .00209062	.00211013	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01851666 .01672481	.01762074	0	52450.3 78.14789	.01851666 .01607792	.01729729	Q AF C CFS	MOJAVE WATER AGENCY
.01388749 .01418232	.01403490	0	39337.7 66.26789	.01388749 .01363376	.01376063	Q AF C CFS	DESERT WATER AGENCY
.00842000 .00860039	.00851020	0	23850.5 40.18596	.00842000 .00826774	.00834387	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.04946625 .04458669	.04702647	0	140118.1 208.33452	.04946625 .04286214	.04616419	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00082747 .00074637	.00078692	0	2343.9 3.48746	.00082747 .00071750	.00077249	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00621136 .00560136	.00590636	0	17594.3 26.17274	.00621136 .00538470	.00579803	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00722640 .00651036	.00686838	0	20469.5 30.42012	.00722640 .00626855	.00674247	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01499474 .01350896	.01425185	0	42474.1 63.12157	.01499474 .01298645	.01399059	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.00603121 .00666317	.00634719	0	17984.0 31.13415	.00603121 .00640545	.00621833	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.08403573 .15178289	.11790931	0	238039.6 709.21653	.08403573 .14591215	.11497394	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
1.00000000 1.00000000	1.00000000	188.00000	2832600.0 4860.57222	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



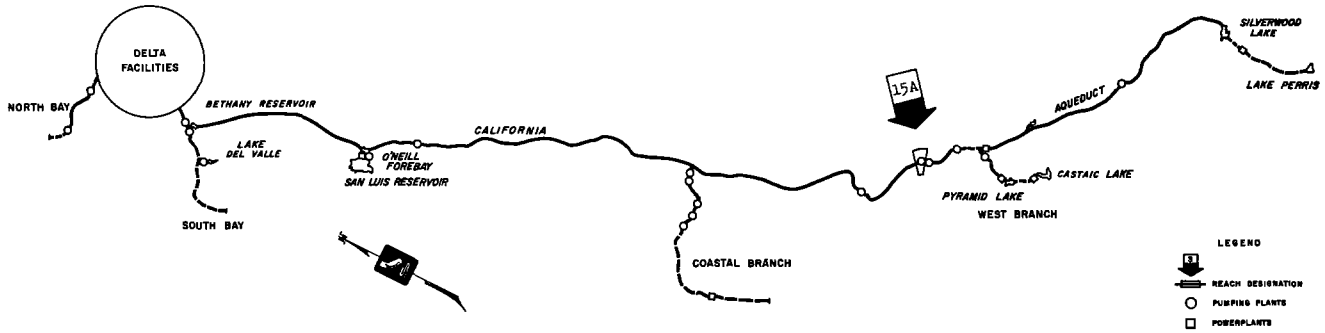
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 14C - OLD RIVER ROAD TO WHEELER RIDGE PUMPING PLANT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	2699.1	2011500.0	63858.0	0	0	2075358.0
	C CFS	0	4.44253	2863.14267	95.41779	184.59464	0	3143.15510
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	138.6	102600.0	3968.8	0	0	106568.8
	C CFS	0	.22813	172.33413	6.33271	.73805	0	179.40489
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	38.9	28800.0	1114.1	0	0	29914.1
	C CFS	0	.06403	45.15128	1.77769	1.25674	0	48.18571
SAN GORGONIO PASS WATER AGENCY	Q AF	0	23.4	17300.0	669.4	0	0	17969.4
	C CFS	0	.03851	29.05110	1.06811	.12679	0	30.24600
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	7.8	5800.0	224.3	0	0	6024.3
	C CFS	0	.01284	9.75185	.35791	.03854	0	10.14830
MOJAVE WATER AGENCY	Q AF	0	68.1	50800.0	1579.9	0	0	52379.9
	C CFS	0	.11209	70.16895	2.60040	5.26267	0	78.03202
DESERT WATER AGENCY	Q AF	0	51.1	38100.0	1184.9	0	0	39284.9
	C CFS	0	.08411	63.98093	1.95028	.24977	0	66.18098
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	31.0	23100.0	718.5	0	0	23818.5
	C CFS	0	.05102	38.80295	1.18259	.14775	0	40.13329
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	182.0	138400.0	1530.1	0	0	139930.1
	C CFS	0	.29956	191.16896	2.51844	14.33768	0	208.02508
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	3.0	2300.0	40.8	0	0	2340.8
	C CFS	0	.00494	3.17694	.06715	.23827	0	3.48236
PALMDALE IRRIGATION DISTRICT	Q AF	0	22.8	17300.0	270.7	0	0	17570.7
	C CFS	0	.03753	23.89612	.44557	1.79221	0	26.13390
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	26.6	20000.0	442.0	0	0	20442.0
	C CFS	0	.04378	27.62557	.64512	2.10417	0	30.37486
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	55.2	41500.0	917.1	0	0	42417.1
	C CFS	0	.09085	57.32306	1.33856	4.36613	0	63.02775
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	22.2	17000.0	61.1	0	0	17061.1
	C CFS	0	.03654	30.99589	.10057	0	0	31.09646
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	32500.0	230.2	176600.0	420.3	0	0	177020.3
	C CFS	96.96576	.37889	526.89700	.69178	0	0	527.58878
TOTALS	Q AF	32500.0	3600.0	2691100.0	77000.0	0	0	2768100.0
	C CFS	96.96576	5.92535	4153.46740	116.49467	215.25341	0	4485.21548



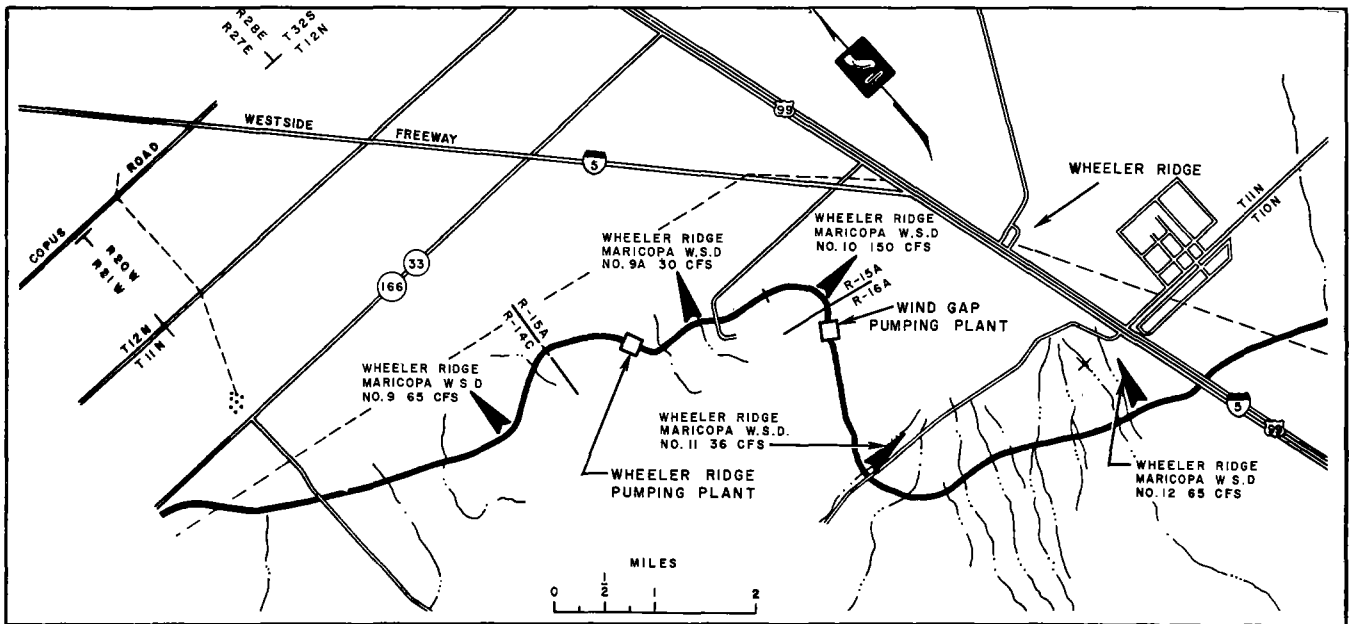
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 14C - OLD RIVER ROAD TO WHEELER RIDGE PUMPING PLANT
.74974098 .70078129	.72526114	188.00000	2075358.0 3331.15510	.74974098 .71281864	.73127981	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.03849890 .03999917	.03924903	0	106568.8 179.40489	.03849890 .03839003	.03844447	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.01080673 .01074323	.01077498	0	29914.1 48.18571	.01080673 .01031104	.01055888	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00649160 .00674349	.00661754	0	17969.4 30.24600	.00649160 .00647220	.00648190	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00217633 .00226261	.00221947	0	6024.3 10.14830	.00217633 .00217159	.00217396	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01892269 .01739761	.01816015	0	52379.9 78.03202	.01892269 .01669771	.01781020	Q AF C CFS	MOJAVE WATER AGENCY
.01419201 .01475536	.01447369	0	39284.9 66.18098	.01419201 .01416177	.01417689	Q AF C CFS	DESERT WATER AGENCY
.00860464 .00894791	.00877627	0	23818.5 40.13329	.00860464 .00858794	.00859629	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.05055095 .04638018	.04846557	0	139930.1 208.02508	.05055095 .04451434	.04753265	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00084563 .00077641	.00081102	0	2340.8 3.48236	.00084563 .00074517	.00079540	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00634757 .00582668	.00608712	0	17570.7 26.13390	.00634757 .00559227	.00596992	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00738485 .00677222	.00707853	0	20442.0 30.37486	.00738485 .00649978	.00694231	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01532354 .01405233	.01468794	0	42417.1 63.02775	.01532354 .01348702	.01440528	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.00616347 .00693310	.00654829	0	17061.1 31.09646	.00616347 .00665419	.00640883	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.06395011 .11762841	.09078926	0	177020.3 527.58878	.06395011 .11289631	.08842321	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
1.00000000 1.00000000	1.00000000	188.00000	2768100.0 4673.21548	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



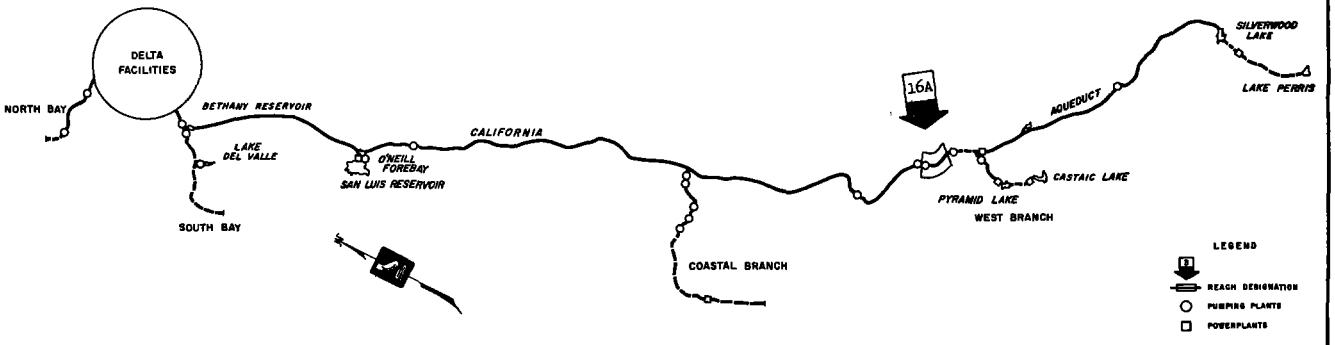
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 15A - WHEELER RIDGE PUMPING PLANT TO WIND GAP PUMPING PLANT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	606.9	2011500.0	61158.9	0	0	2072658.9
	C CFS	0	.99892	2863.14267	90.97526	184.59464	0	3138.71257
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	31.2	102600.0	3830.2	0	0	106430.2
	C CFS	0	.05135	172.33413	6.10458	.73805	0	179.17676
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	8.7	28800.0	1075.2	0	0	29875.2
	C CFS	0	.01432	45.15128	1.71366	1.25674	0	48.12168
SAN GORGONIO PASS WATER AGENCY	Q AF	0	5.3	17300.0	646.0	0	0	17946.0
	C CFS	0	.00872	29.05110	1.02960	.12679	0	30.20749
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	1.8	5800.0	216.5	0	0	6016.5
	C CFS	0	.00296	9.75185	.34507	.03854	0	10.13546
MOJAVE WATER AGENCY	Q AF	0	15.3	50800.0	1511.8	0	0	52311.8
	C CFS	0	.02518	70.16895	2.48831	5.26267	0	77.91993
DESERT WATER AGENCY	Q AF	0	11.5	38100.0	1133.8	0	0	39233.8
	C CFS	0	.01893	63.98093	1.86617	.24977	0	66.09687
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	7.0	23100.0	687.5	0	0	23787.5
	C CFS	0	.01152	38.80295	1.13157	.14775	0	40.08227
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	40.9	138400.0	1348.1	0	0	139748.1
	C CFS	0	.06732	191.16896	2.21888	14.33768	0	207.72552
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	.7	2300.0	37.8	0	0	2337.8
	C CFS	0	.00115	3.17694	.06221	.23827	0	3.47742
PALMDALE IRRIGATION DISTRICT	Q AF	0	5.1	17300.0	247.9	0	0	17547.9
	C CFS	0	.00840	23.89612	.40804	1.79221	0	26.09637
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	6.0	20000.0	415.4	0	0	20415.4
	C CFS	0	.00988	27.62557	.60134	2.10417	0	30.33108
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	12.4	41500.0	861.9	0	0	42361.9
	C CFS	0	.02041	57.32306	1.24771	4.36613	0	62.93690
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	0	5.0	17000.0	38.9	0	0	17038.9
	C CFS	0	.00823	30.99589	.06403	0	0	31.05992
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	70000.0	42.2	144100.0	190.1	0	0	144290.1
	C CFS	208.84932	.06946	429.93124	.31289	0	0	430.24413
TOTALS	Q AF	70000.0	800.0	2658600.0	73400.0	0	0	2732000.0
	C CFS	208.84932	1.31675	4056.50164	110.56932	215.25341	0	4382.32437



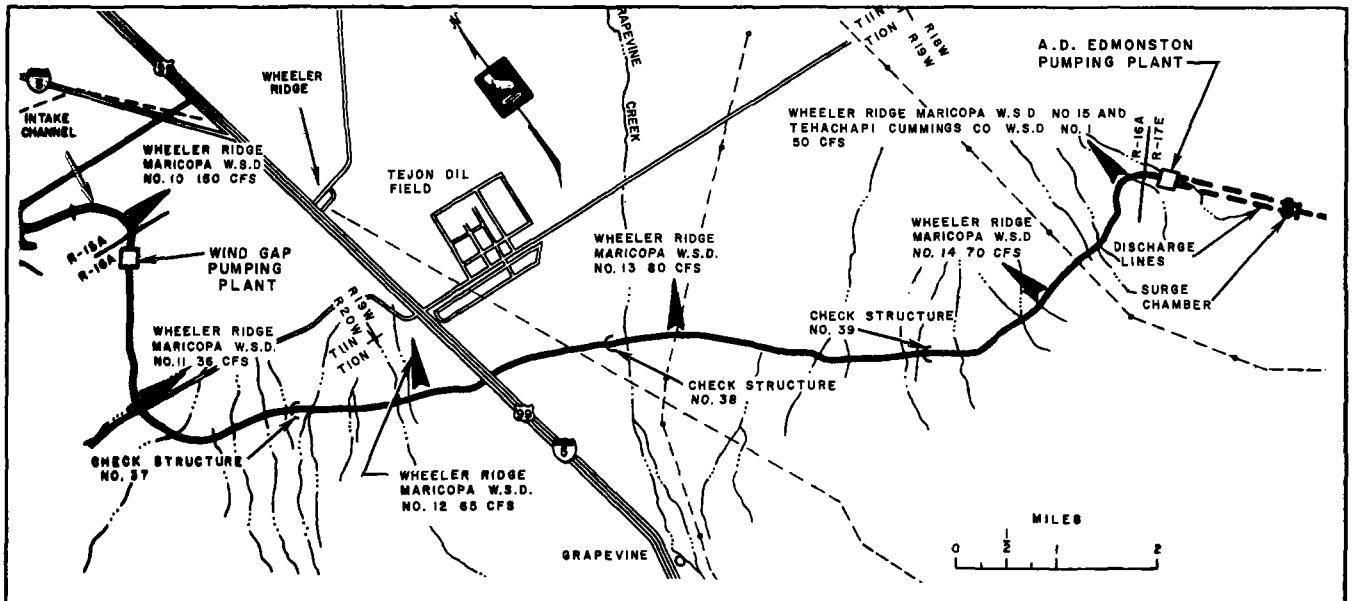
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 15A - WHEELER RIDGE PUMPING PLANT TO WIND GAP PUMPING PLANT
.75865992			2072658.9	.75865992		Q AF	
.71622096	.73744044	188.00000	3326.71257	.72789419	.74327706	C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.03895688			106430.2	.03895688		Q AF	
.04088624	.03992156	0	179.17676	.03920439	.03908064	C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.01093529			29875.2	.01093529		Q AF	
.01098086	.01095807	0	48.12168	.01052916	.01073222	C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00656881			17946.0	.00656881		Q AF	
.00689303	.00673092	0	30.20749	.00660948	.00658915	C CFS	SAN GORGONIO PASS WATER AGENCY
.00220223			6016.5	.00220223		Q AF	
.00231280	.00225752	0	10.13546	.00221767	.00220995	C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01914780			52311.8	.01914780		Q AF	
.01778050	.01846415	0	77.91993	.01704910	.01809845	C CFS	MOJAVE WATER AGENCY
.01436084			39233.8	.01436084		Q AF	
.01508261	.01472172	0	66.09687	.01446218	.01441151	C CFS	DESERT WATER AGENCY
.00870699			23787.5	.00870699		Q AF	
.00914635	.00892667	0	40.08227	.00877012	.00873855	C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.05115231			139748.1	.05115231		Q AF	
.04740076	.04927653	0	207.72552	.04545094	.04830162	C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00085571			2337.8	.00085571		Q AF	
.00079351	.00082461	0	3.47742	.00076087	.00080829	C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00642310			17547.9	.00642310		Q AF	
.00595492	.00618901	0	26.09637	.00570996	.00606653	C CFS	PALMDALE IRRIGATION DISTRICT
.00747269			20415.4	.00747269		Q AF	
.00692123	.00719696	0	30.33108	.00663653	.00705461	C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01550582			42361.9	.01550582		Q AF	
.01436153	.01493368	0	62.93690	.01377077	.01463830	C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.00623679			17038.9	.00623679		Q AF	
.00708755	.00666217	0	31.05992	.00679600	.00651639	C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.05281482			144290.1	.05281482		Q AF	
.09817715	.07549599	0	430.24413	.09413864	.07347673	C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
1.00000000			2732000.0	1.00000000		Q AF	
1.00000000	1.00000000	188.00000	4570.32437	1.00000000	1.00000000	C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 16A - WIND GAP PUMPING PLANT TO A. D. EDMONSTON PUMPING PLANT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	4126.7	2011500.0	60552.0	0	0	2072052.0
	C CFS	0	6.79227	2863.14267	89.97634	184.59464	0	3137.71365
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	211.9	102600.0	3799.0	0	0	106399.0
	C CFS	0	.34877	172.33413	6.05323	.73805	0	179.12541
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	59.5	28800.0	1066.5	0	0	29866.5
	C CFS	0	.09793	45.15128	1.69934	1.25674	0	48.10736
SAN GORGONIO PASS WATER AGENCY	Q AF	0	35.7	17300.0	640.7	0	0	17940.7
	C CFS	0	.05876	29.05110	1.02088	.12679	0	30.19877
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	12.0	5800.0	214.7	0	0	6014.7
	C CFS	0	.01975	9.75185	.34211	.03854	0	10.13250
MOJAVE WATER AGENCY	Q AF	0	104.2	50800.0	1496.5	0	0	52296.5
	C CFS	0	.17151	70.16895	2.46313	5.26267	0	77.89475
DESERT WATER AGENCY	Q AF	0	78.1	38100.0	1122.3	0	0	39222.3
	C CFS	0	.12855	63.98093	1.84724	.24977	0	66.07794
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	47.4	23100.0	680.5	0	0	23780.5
	C CFS	0	.07802	38.80295	1.12005	.14775	0	40.07075
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	278.2	138400.0	1307.2	0	0	139707.2
	C CFS	0	.45790	191.16896	2.15156	14.33768	0	207.65820
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	4.7	2300.0	37.1	0	0	2337.1
	C CFS	0	.00774	3.17694	.06106	.23827	0	3.47627
PALMDALE IRRIGATION DISTRICT	Q AF	0	34.9	17300.0	242.8	0	0	17542.8
	C CFS	0	.05744	23.89612	.39964	1.79221	0	26.08797
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	40.6	20000.0	409.4	0	0	20409.4
	C CFS	0	.06682	27.62557	.59146	2.10417	0	30.32120
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	84.3	41500.0	849.5	0	0	42349.5
	C CFS	0	.13875	57.32306	1.22730	4.36613	0	62.91649
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	12000.0	33.9	17000.0	33.9	0	0	17033.9
	C CFS	21.87945	.05580	30.99589	.05580	0	0	31.05169
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF	74100.0	147.9	74100.0	147.9	0	0	74247.9
	C CFS	221.08192	.24343	221.08192	.24343	0	0	221.32535
TOTALS	Q AF	86100.0	5300.0	2588600.0	72600.0	0	0	2661200.0
	C CFS	242.96137	8.72344	3847.65232	109.25257	215.25341	0	4172.15830



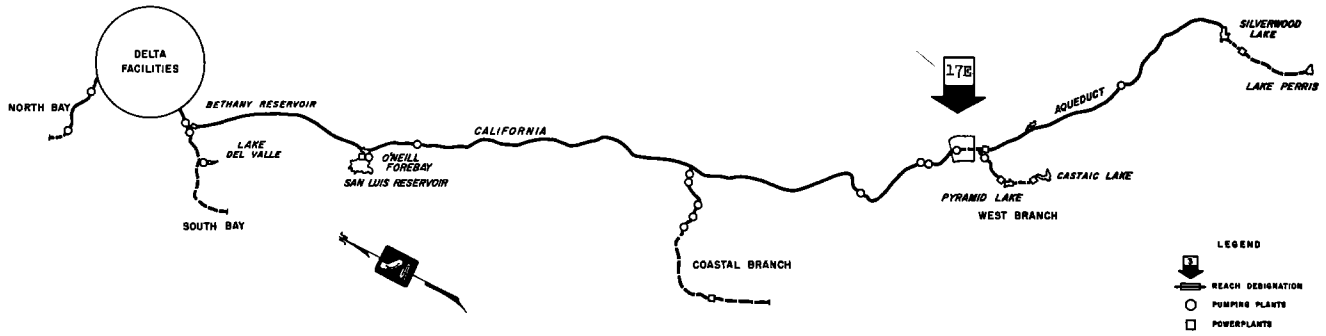
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	

REACH 16A - WIND GAP PUMPING PLANT TO A. D. EDMONSTON PUMPING PLANT

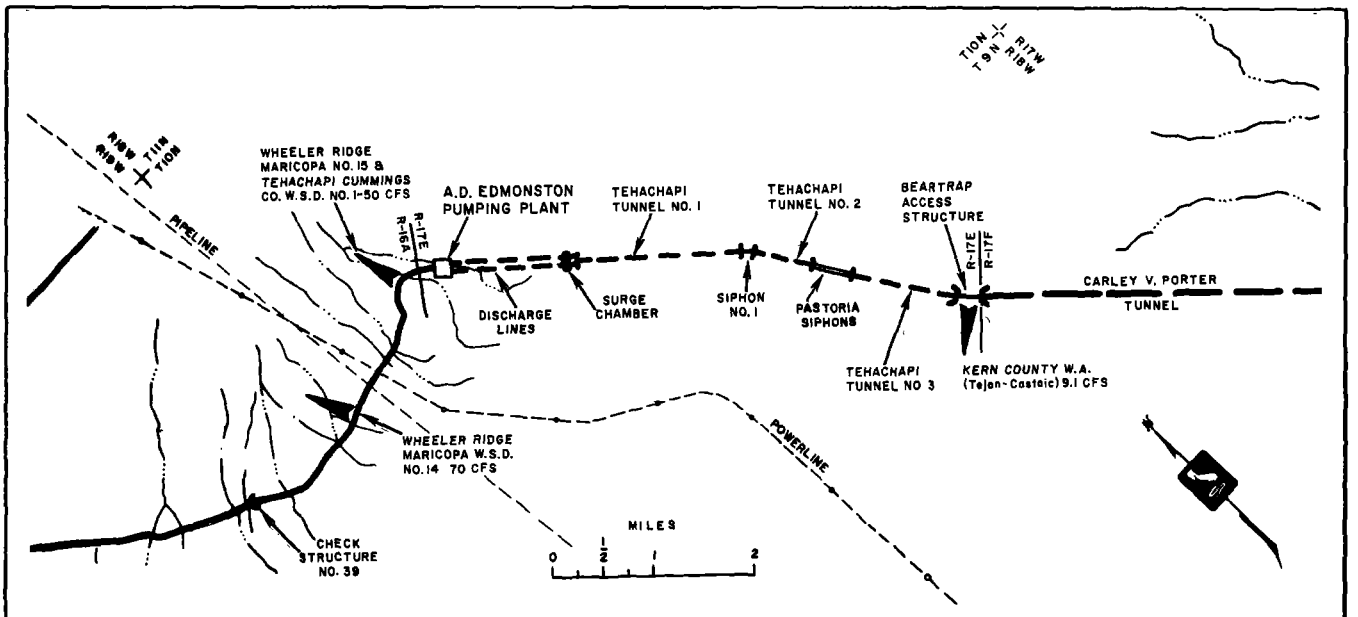
.77861566 .75206007	.76533787	188.00000	2072052.0 3325.71365	.77861566 .76275067	.77068316	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.03998159 .04293351	.04145755	0	106399.0 179.12541	.03998159 .04108232	.04053195	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.01122294 .01153057	.01137676	0	29866.5 48.10736	.01122294 .01103340	.01112817	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00674158 .00723816	.00698987	0	17940.7 30.19877	.00674158 .00692607	.00683383	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00226015 .00242860	.00234437	0	6014.7 10.13250	.00226015 .00232388	.00229201	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.01965147 .01867013	.01916080	0	52296.5 77.89475	.01965147 .01786512	.01875830	Q AF C CFS	MOJAVE WATER AGENCY
.01473858 .01583783	.01528820	0	39222.3 66.07794	.01473858 .01515494	.01494676	Q AF C CFS	DESERT WATER AGENCY
.00893601 .00960432	.00927016	0	23780.5 40.07075	.00893601 .00919021	.00906311	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.05249782 .04977237	.05113510	0	139707.2 207.65820	.05249782 .04762630	.05006206	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00087821 .00083321	.00085571	0	2337.1 3.47627	.00087821 .00079728	.00083775	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00659206 .00625287	.00642247	0	17542.8 26.08797	.00659206 .00598326	.00628766	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00766925 .00726751	.00746838	0	20409.4 30.32120	.00766925 .00695415	.00731170	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01591369 .01508008	.01549688	0	42349.5 62.91649	.01591369 .01442986	.01517177	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.00640083 .00744260	.00692172	0	17033.9 31.05169	.00640083 .00712169	.00676126	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
.02790016 .05304817	.04047416	0	74247.9 221.32535	.02790016 .05076085	.03933051	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
1.00000000 1.00000000	1.00000000	188.00000	2661200.0 4360.15830	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 17E - A. D. EDMONSTON PUMPING PLANT TO CARLEY V. PORTER TUNNEL								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	0	2011500.0	56425.3	0	0	2067925.3
	C CFS	0	0	2863.14267	83.18407	184.59464	0	3130.92138
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	0	102600.0	3587.1	0	0	106187.1
	C CFS	0	0	172.33413	5.70446	.73805	0	178.77664
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	0	28800.0	1007.0	0	0	29807.0
	C CFS	0	0	45.15128	1.60141	1.25674	0	48.00943
SAN GORGONIO PASS WATER AGENCY	Q AF	0	0	17300.0	605.0	0	0	17905.0
	C CFS	0	0	29.05110	.96212	.12679	0	30.14001
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	0	5800.0	202.7	0	0	6002.7
	C CFS	0	0	9.75185	.32236	.03854	0	10.11275
MOJAVE WATER AGENCY	Q AF	0	0	50800.0	1392.3	0	0	52192.3
	C CFS	0	0	70.16895	2.29162	5.26267	0	77.72324
DESERT WATER AGENCY	Q AF	0	0	38100.0	1044.2	0	0	39144.2
	C CFS	0	0	63.98093	1.71869	.24977	0	65.94939
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	0	23100.0	633.1	0	0	23733.1
	C CFS	0	0	38.80295	1.04203	.14775	0	39.99273
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	0	138400.0	1029.0	0	0	139429.0
	C CFS	0	0	191.16896	1.69366	14.33768	0	207.20030
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	0	2300.0	32.4	0	0	2332.4
	C CFS	0	0	3.17694	.05332	.23827	0	3.46853
PALMDALE IRRIGATION DISTRICT	Q AF	0	0	17300.0	207.9	0	0	17507.9
	C CFS	0	0	23.89612	.34220	1.79221	0	26.03053
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	0	20000.0	368.8	0	0	20368.8
	C CFS	0	0	27.62557	.52464	2.10417	0	30.25438
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	0	41500.0	765.2	0	0	42265.2
	C CFS	0	0	57.32306	1.08855	4.36613	0	62.77774
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	Q AF	5000.0	0	5000.0	0	0	0	5000.0
	C CFS	9.11644	0	9.11644	0	0	0	9.11644
TOTALS	Q AF	5000.0	0	2502500.0	67300.0	0	0	2569800.0
	C CFS	9.11644	0	3604.69095	100.52913	215.25341	0	3920.47349



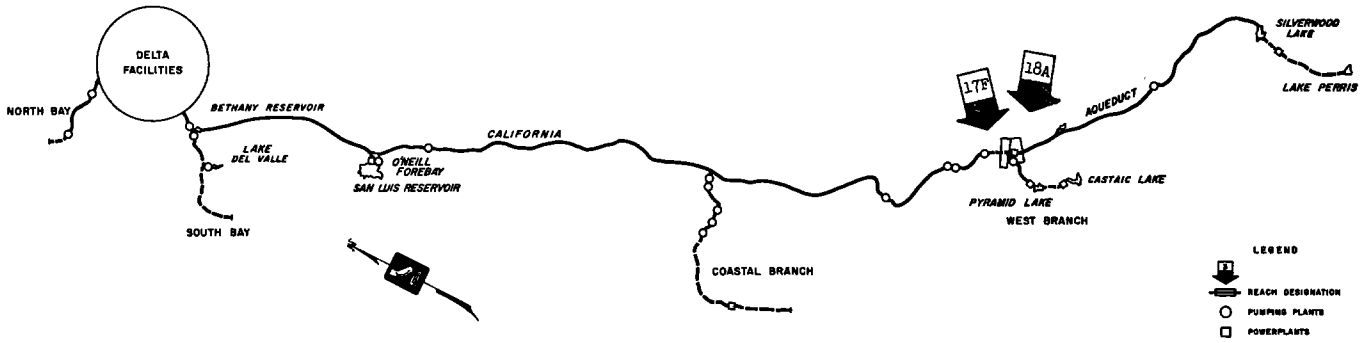
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	

REACH 17E - A. D. EDMONSTON PUMPING PLANT TO CARLEY V. PORTER TUNNEL

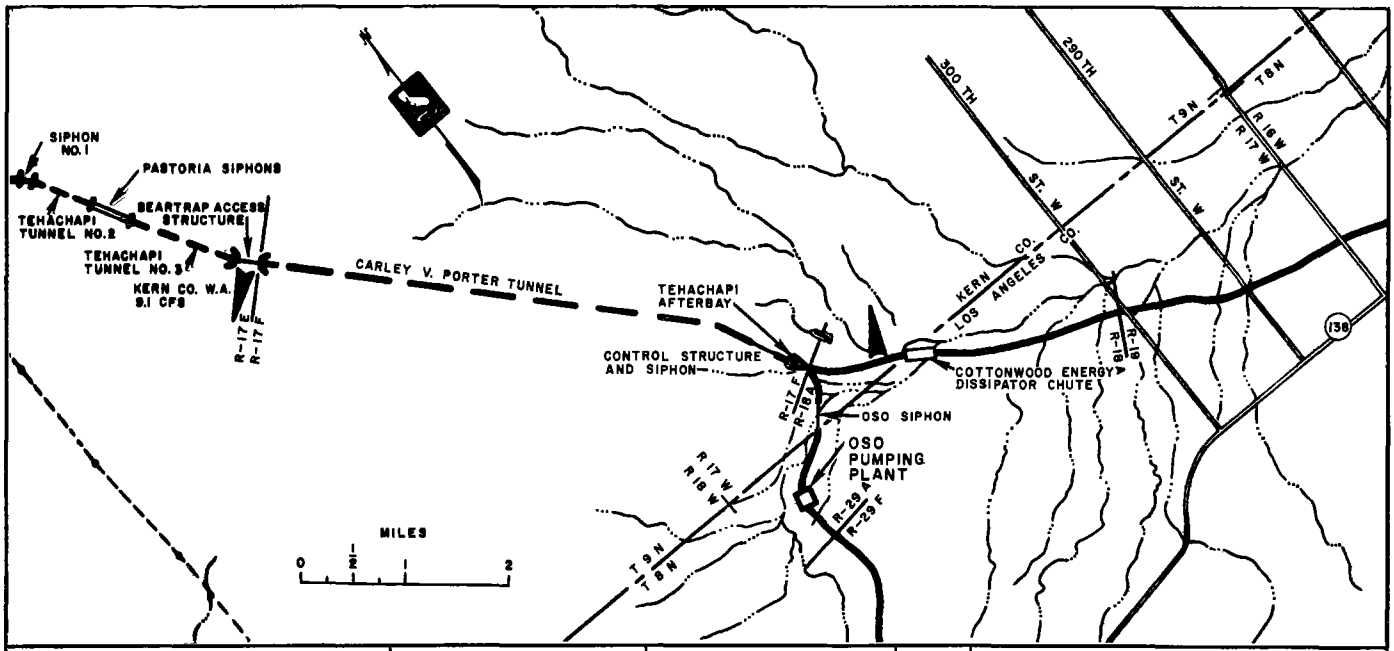
.80470282 .79860797	.80165539	188.00000	2067925.3 3318.92138	.80470282 .80782349	.80626315	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.04132115 .04560078	.04346097	0	106187.1 178.77664	.04132115 .04351413	.04241764	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.01159896 .01224582	.01192239	0	29807.0 48.00943	.01159896 .01168547	.01164221	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00696747 .00768785	.00732766	0	17905.0 30.14001	.00696747 .00733606	.00715176	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00233586 .00257947	.00245767	0	6002.7 10.11275	.00233586 .00246144	.00239865	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.02030987 .01982496	.02006742	0	52192.3 77.72324	.02030987 .01891779	.01961383	Q AF C CFS	MOJAVE WATER AGENCY
.01523239 .01682179	.01602709	0	39144.2 65.94939	.01523239 .01605204	.01564222	Q AF C CFS	DESERT WATER AGENCY
.00923539 .01020100	.00971819	0	23733.1 39.99273	.00923539 .00973421	.00948480	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.05425675 .05285084	.05355379	0	139429.0 207.20030	.05425675 .05043243	.05234459	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00090762 .00088472	.00089617	0	2332.4 3.46853	.00090762 .00084424	.00087593	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00681294 .00663964	.00672629	0	17507.9 26.03053	.00681294 .00633581	.00657438	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00792622 .00771702	.00782162	0	20368.8 30.25438	.00792622 .00736390	.00764506	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01644688 .01601280	.01622984	0	42265.2 62.77774	.01644688 .01528006	.01586347	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
.00194568 .00232534	.00213551	0	5000.0 9.11644	.00194568 .00221893	.00208231	Q AF C CFS	KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL
1.00000000 1.00000000	1.00000000	188.00000	2569800.0 4108.47349	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



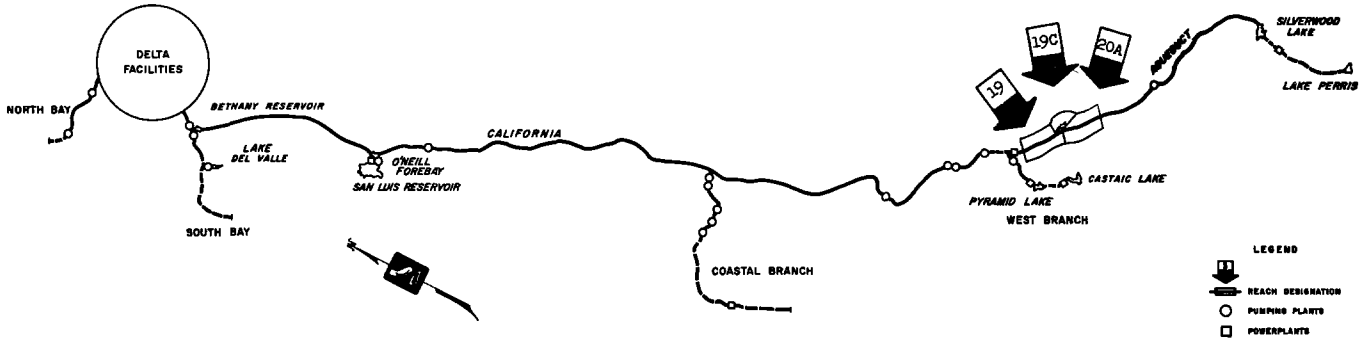
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
REACH 17F - CARLEY V. PORTER TUNNEL TO JUNCTION, WEST BRANCH, CALIFORNIA AQUEDUCT	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	80.6	2011500.0	56425.3	0	0	2067925.3
	C CFS	0	.13266	2863.14267	83.18407	184.59464	0	3130.92138
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	4.2	102600.0	3587.1	0	0	106187.1
	C CFS	0	.00691	172.33413	5.70446	.73805	0	178.77664
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	1.2	28800.0	1007.0	0	0	29807.0
	C CFS	0	.00198	45.15128	1.60141	1.25674	0	48.00943
SAN GORGONIO PASS WATER AGENCY	Q AF	0	.7	17300.0	605.0	0	0	17905.0
	C CFS	0	.00115	29.05110	.96212	.12679	0	30.14001
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	.2	5800.0	202.7	0	0	6002.7
	C CFS	0	.00033	9.75185	.32236	.03854	0	10.11275
MOJAVE WATER AGENCY	Q AF	0	2.0	50800.0	1392.3	0	0	52192.3
	C CFS	0	.00329	70.16895	2.29162	5.26267	0	77.72324
DESERT WATER AGENCY	Q AF	0	1.5	38100.0	1044.2	0	0	39144.2
	C CFS	0	.00247	63.98093	1.71869	.24977	0	65.94939
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	.9	23100.0	633.1	0	0	23733.1
	C CFS	0	.00148	38.80295	1.04203	.14775	0	39.99273
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	5.4	138400.0	1029.0	0	0	139429.0
	C CFS	0	.00889	191.16896	1.69366	14.33768	0	207.20030
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	.1	2300.0	32.4	0	0	2332.4
	C CFS	0	.00016	3.17694	.05332	.23827	0	3.46853
PALMDALE IRRIGATION DISTRICT	Q AF	0	.7	17300.0	207.9	0	0	17507.9
	C CFS	0	.00115	23.89612	.34220	1.79221	0	26.03053
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	.8	20000.0	368.8	0	0	20368.8
	C CFS	0	.00132	27.62557	.52464	2.10417	0	30.25438
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	1.7	41500.0	765.2	0	0	42265.2
	C CFS	0	.00280	57.32306	1.08855	4.36613	0	62.77774
TOTALS	Q AF	0	100.0	2497500.0	67300.0	0	0	2564800.0
	C CFS	0	.16459	3595.57451	100.62913	215.25341	0	3911.35705
REACH 18A - JUNCTION, WEST BRANCH, CALIFORNIA AQUEDUCT THRU COTTONWOOD POWERPLANT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	459.5	556500.0	29576.2	0	0	586076.2
	C CFS	0	.75631	853.38233	44.98480	31.51691	0	929.88404
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	83.3	102600.0	3582.9	0	0	106182.9
	C CFS	0	.13711	172.33413	5.69755	.73805	0	178.76973
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	23.4	28800.0	1005.8	0	0	29805.8
	C CFS	0	.03851	45.15128	1.59943	1.25674	0	48.00745
SAN GORGONIO PASS WATER AGENCY	Q AF	0	14.1	17300.0	604.3	0	0	17904.3
	C CFS	0	.02321	29.05110	.96097	.12679	0	30.13886
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	4.7	5800.0	202.5	0	0	6002.5
	C CFS	0	.00774	9.75185	.32203	.03854	0	10.11242
MOJAVE WATER AGENCY	Q AF	0	40.9	50800.0	1390.3	0	0	52190.3
	C CFS	0	.06732	70.16895	2.28833	5.26267	0	77.71995
DESERT WATER AGENCY	Q AF	0	30.7	38100.0	1042.7	0	0	39142.7
	C CFS	0	.05053	63.98093	1.71622	.24977	0	65.94692
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	18.6	23100.0	632.2	0	0	23732.2
	C CFS	0	.03061	38.80295	1.04055	.14775	0	39.99125
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	109.3	138400.0	1023.6	0	0	139423.6
	C CFS	0	.17990	191.16896	1.68477	14.33768	0	207.19141
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	1.8	2300.0	32.3	0	0	2332.3
	C CFS	0	.00296	3.17694	.05316	.23827	0	3.46837
PALMDALE IRRIGATION DISTRICT	Q AF	0	13.7	17300.0	207.2	0	0	17507.2
	C CFS	0	.02255	23.89612	.34105	1.79221	0	26.02938
TOTALS	Q AF	0	800.0	981000.0	39300.0	0	0	1020300.0
	C CFS	0	1.31675	1500.86554	60.68886	55.70538	0	1617.25978



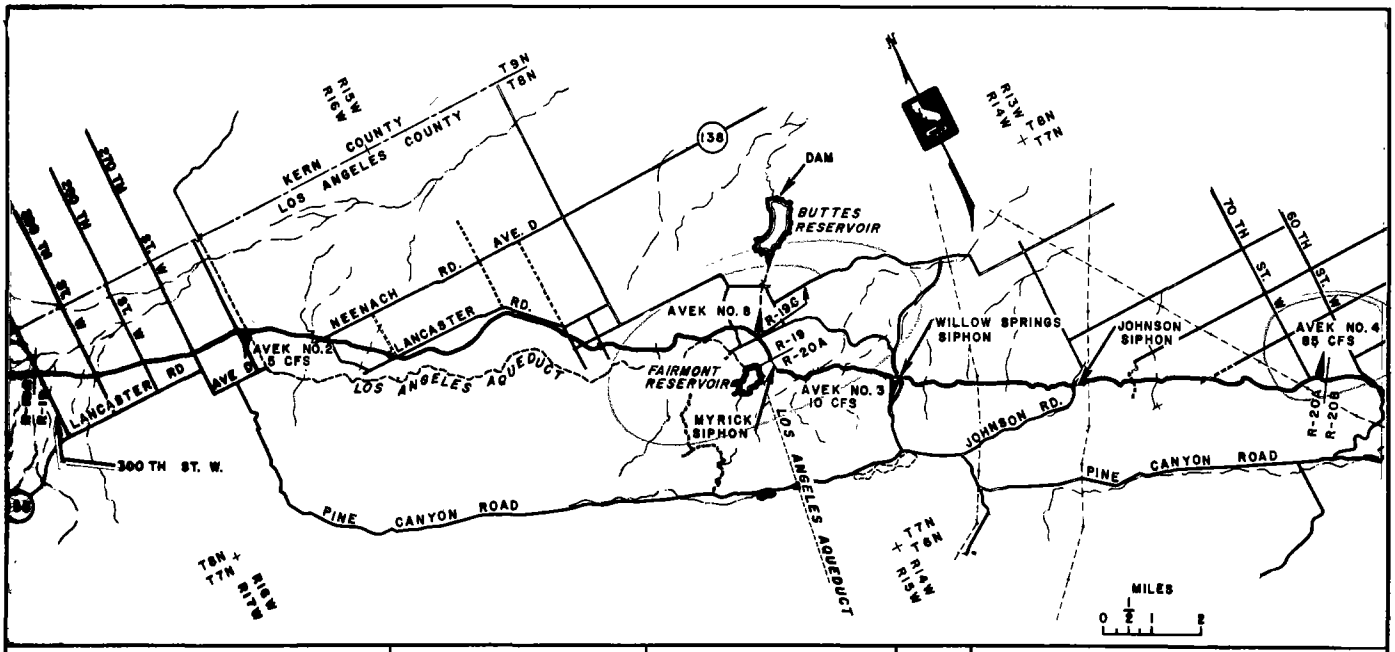
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	REACH 17F - CARLEY V. PORTER TUNNEL TO JUNCTION, WEST BRANCH, CALIFORNIA AQUEDUCT
.80627156 .80046934	.80337045	188.00000	2067925.3 3318.92138	.80627156 .80961998	.80794577	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.04140171 .04570706	.04355438	0	106187.1 178.77664	.04140171 .04361090	.04250630	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.01162157 .01227437	.01194797	0	29807.0 48.00943	.01162157 .01171145	.01166651	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.00698105 .00770577	.00734341	0	17905.0 30.14001	.00698105 .00735238	.00716671	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00234042 .00258548	.00246295	0	6002.7 10.11275	.00234042 .00246691	.00240367	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.02034946 .01987117	.02011032	0	52192.3 77.72324	.02034946 .01895986	.01965466	Q AF C CFS	MOJAVE WATER AGENCY
.01526209 .01686100	.01606154	0	39144.2 65.94939	.01526209 .01608774	.01567491	Q AF C CFS	DESERT WATER AGENCY
.00925339 .01022477	.00973908	0	23733.1 39.99273	.00925339 .00975585	.00950462	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.05436252 .05297402	.05366827	0	139429.0 207.20030	.05436252 .05054458	.05245356	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00090939 .00088678	.00089809	0	2332.4 3.46853	.00090939 .00084612	.00087775	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.00682622 .00665511	.00674067	0	17507.9 26.03053	.00682622 .00634991	.00658807	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
.00794167 .00773501	.00783834	0	20368.8 30.25438	.00794167 .00738027	.00766097	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.01647895 .01605012	.01626453	0	42265.2 62.77774	.01647895 .01531405	.01589650	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
1.00000000 1.00000000	1.00000000	188.00000	2564800.0 4099.35705	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 18A - JUNCTION, WEST BRANCH, CALIFORNIA AQUEDUCT THRU COTTONWOOD POWERPLANT
.57441556 .57497506	.57469531	0	586076.2 929.88404	.57441556 .57497506	.57469531	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.10407027 .11053866	.10730447	0	106182.9 178.76973	.10407027 .11053866	.10730447	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.02921278 .02968444	.02944861	0	29805.8 48.00745	.02921278 .02968444	.02944861	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.01754808 .01863576	.01809192	0	17904.3 30.13886	.01754808 .01863576	.01809192	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00588307 .00625281	.00606794	0	6002.5 10.11242	.00588307 .00625281	.00606794	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.05115192 .04805657	.04960424	0	52190.3 77.71995	.05115192 .04805657	.04960424	Q AF C CFS	MOJAVE WATER AGENCY
.03836391 .04077695	.03957043	0	39142.7 65.94692	.03836391 .04077695	.03957043	Q AF C CFS	DESERT WATER AGENCY
.02326002 .02472778	.02399390	0	23732.2 39.99125	.02326002 .02472778	.02399390	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.13664961 .12811263	.13238112	0	139423.6 207.19141	.13664961 .12811263	.13238112	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00228590 .00214460	.00221525	0	2332.3 3.46837	.00228590 .00214460	.00221525	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.01715888 .01609474	.01662681	0	17507.2 26.02938	.01715888 .01609474	.01662681	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
1.00000000 1.00000000	1.00000000	0	1020300.0 1617.25978	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(in units as showen)



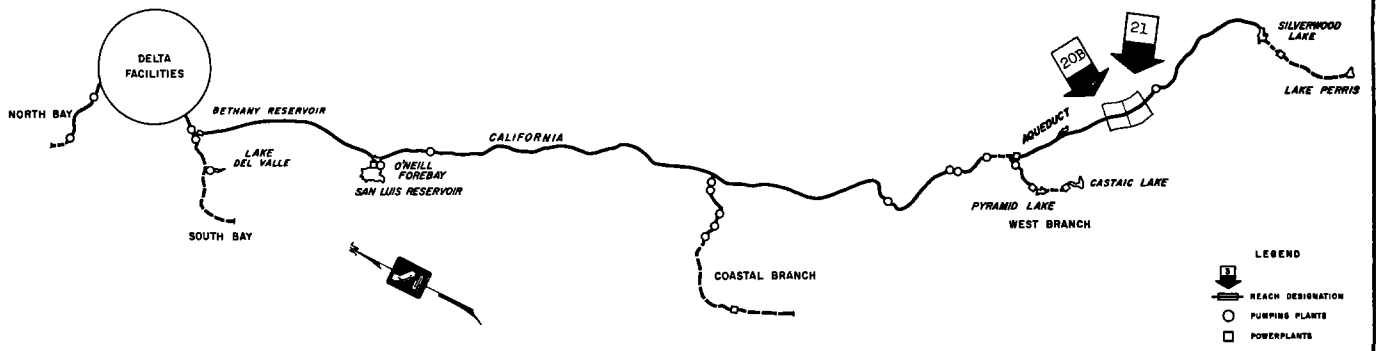
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
REACH 19 - COTTONWOOD POWERPLANT TO FAIRMONT		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	2182.8	556500.0	29116.7	0	0	585616.7
	C CFS	0	3.59274	853.38233	44.22849	31.51691	0	929.12773
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	395.4	102600.0	3499.6	0	0	106099.6
	C CFS	0	.65080	172.33413	5.56044	.73805	0	178.63262
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	111.0	28800.0	982.4	0	0	29782.4
	C CFS	0	.18270	45.15128	1.56092	1.25674	0	47.96894
SAN GORGONIO PASS WATER AGENCY	Q AF	0	66.7	17300.0	590.2	0	0	17890.2
	C CFS	0	.10978	29.05110	.93776	.12679	0	30.11565
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	22.3	5800.0	197.8	0	0	5997.8
	C CFS	0	.03670	9.75185	.31429	.03854	0	10.10468
MOJAVE WATER AGENCY	Q AF	0	194.4	50800.0	1349.4	0	0	52149.4
	C CFS	0	.31997	70.16895	2.22101	5.26267	0	77.65263
DESERT WATER AGENCY	Q AF	0	145.8	38100.0	1012.0	0	0	39112.0
	C CFS	0	.23998	63.98093	1.66569	.24977	0	65.89639
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	88.4	23100.0	613.6	0	0	23713.6
	C CFS	0	.14550	38.80295	1.00994	.14775	0	39.96064
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	69600.0	519.3	138400.0	914.3	0	0	139314.3
	C CFS	96.13699	.85473	191.16896	1.50487	14.33768	0	207.01151
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	8.7	2300.0	30.5	0	0	2330.5
	C CFS	0	.01432	3.17694	.05020	.23827	0	3.46541
PALMDALE IRRIGATION DISTRICT	Q AF	0	65.2	17300.0	193.5	0	0	17493.5
	C CFS	0	.10732	23.89612	.31850	1.79221	0	26.00683
TOTALS	Q AF	69600.0	3800.0	981000.0	38500.0	0	0	1019500.0
	C CFS	96.13699	6.25454	1500.86554	59.37211	55.70538	0	1615.94303
REACH 19C - BUTTES JUNCTION THRU BUTTES RESERVOIR								
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	0	0	0			
	C AF	27800.0	0	27800.0	0	0		27800.0
TOTALS	Q AF	0	0	0	0			
	C AF	27800.0	0	27800.0	0	0		27800.0
REACH 20A - FAIRMONT THRU 70TH STREET WEST								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	2220.0	556500.0	26933.9	0	0	583433.9
	C CFS	0	3.65347	853.38233	40.63575	31.51691	0	925.53499
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	402.2	102600.0	3104.2	0	0	105704.2
	C CFS	0	.66199	172.33413	4.90964	.73805	0	177.98182
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	112.9	28800.0	871.4	0	0	29671.4
	C CFS	0	.18583	45.15128	1.37822	1.25674	0	47.78624
SAN GORGONIO PASS WATER AGENCY	Q AF	0	67.8	17300.0	523.5	0	0	17823.5
	C CFS	0	.11159	29.05110	.82798	.12679	0	30.00587
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	22.8	5800.0	175.5	0	0	5975.5
	C CFS	0	.03753	9.75185	.27759	.03854	0	10.06798
MOJAVE WATER AGENCY	Q AF	0	197.7	50800.0	1155.0	0	0	51955.0
	C CFS	0	.32540	70.16895	1.90104	5.26267	0	77.33266
DESERT WATER AGENCY	Q AF	0	148.3	38100.0	866.2	0	0	38966.2
	C CFS	0	.24409	63.98093	1.42571	.24977	0	65.65641
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	89.9	23100.0	525.2	0	0	23625.2
	C CFS	0	.14797	38.80295	.86444	.14775	0	39.81514
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	47100.0	263.3	68800.0	395.0	0	0	69195.0
	C CFS	65.05822	.43337	95.03197	.65014	0	0	95.68211
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	8.8	2300.0	21.8	0	0	2321.8
	C CFS	0	.01448	3.17694	.03588	.23827	0	3.45109
PALMDALE IRRIGATION DISTRICT	Q AF	0	66.3	17300.0	128.3	0	0	17428.3
	C CFS	0	.10913	23.89612	.21118	1.79221	0	25.89951
TOTALS	Q AF	47100.0	3600.0	911400.0	34700.0	0	0	946100.0
	C CFS	65.05822	5.92535	1404.72855	53.11757	41.36770	0	1499.21382



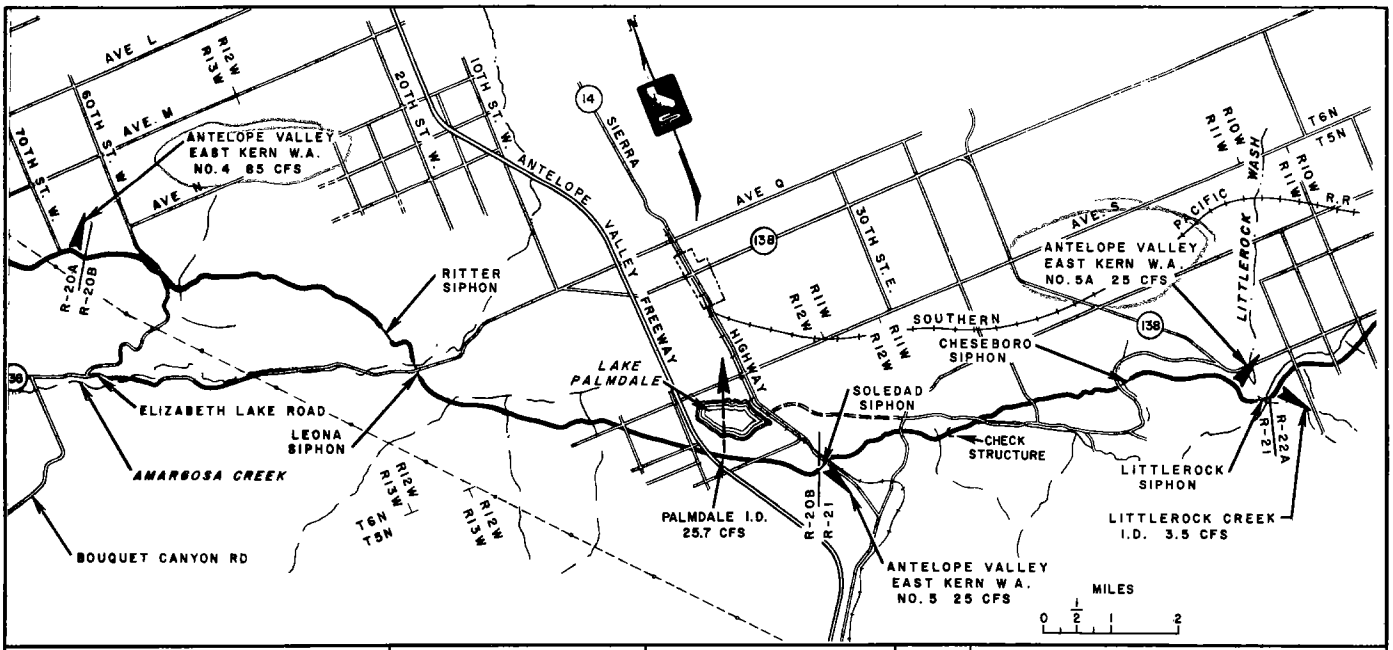
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	REACH 19 - COTTONWOOD POWERPLANT TO FAIRMONT
.57441560 .57497555	.57469557	0	585616.7 929.12773	.57441560 .57497555	.57469557	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.10407023 .11054388	.10730706	0	106099.6 178.63262	.10407023 .11054388	.10730706	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.02921275 .02968480	.02944877	0	29782.4 47.96894	.02921275 .02968480	.02944877	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.01754801 .01863658	.01809230	0	17890.2 30.11565	.01754801 .01863658	.01809230	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00588308 .00625312	.00606810	0	5997.8 10.10468	.00588308 .00625312	.00606810	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.05115194 .04805406	.04960300	0	52149.4 77.65263	.05115194 .04805406	.04960300	Q AF C CFS	MOJAVE WATER AGENCY
.03836390 .04077891	.03957141	0	39112.0 65.89639	.03836390 .04077891	.03957141	Q AF C CFS	DESERT WATER AGENCY
.02326003 .02472899	.02399451	0	23713.6 39.96064	.02326003 .02472899	.02399451	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.13664963 .12810570	.13237766	0	139314.3 207.01151	.13664963 .12810570	.13237766	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00228593 .00214451	.00221522	0	2330.5 3.46541	.00228593 .00214451	.00221522	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.01715890 .01609390	.01662640	0	17493.5 26.00683	.01715890 .01609390	.01662640	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
1.00000000 1.00000000	1.00000000	0	1019500.0 1615.94303	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 19C - BUTTES JUNCTION THRU BUTTES RESERVOIR
1.00000000	1.00000000		27800.0	1.00000000	1.00000000	Q AF C AF	ANTELOPE VALLEY-EAST KERN WATER AGENCY
1.00000000	1.00000000		27800.0	1.00000000	1.00000000	Q AF C AF	TOTALS
							REACH 20A - FAIRMONT THRU 70TH STREET WEST
.61667255 .61734689	.61700972	0	583433.9 925.53499	.61667255 .61734689	.61700972	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.11172624 .11871677	.11522151	0	105704.2 177.98182	.11172624 .11871677	.11522151	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.03136180 .03187420	.03161800	0	29671.4 47.78624	.03136180 .03187420	.03161800	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.01883892 .02001440	.01942666	0	17823.5 30.00587	.01883892 .02001440	.01942666	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00631593 .00671551	.00651572	0	5975.5 10.06798	.00631593 .00671551	.00651572	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.05491491 .05158214	.05324853	0	51955.0 77.33266	.05491491 .05158214	.05324853	Q AF C CFS	MOJAVE WATER AGENCY
.04118613 .04379389	.04249001	0	38966.2 65.65641	.04118613 .04379389	.04249001	Q AF C CFS	DESERT WATER AGENCY
.02497115 .02655735	.02576424	0	23625.2 39.81514	.02497115 .02655735	.02576424	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.07313709 .06382152	.06847931	0	69195.0 95.68211	.07313709 .06382152	.06847931	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.00245408 .00230193	.00237800	0	2321.8 3.45109	.00245408 .00230193	.00237800	Q AF C CFS	LITTLEROCK CREEK IRRIGATION DISTRICT
.01842120 .01727540	.01784830	0	17428.3 25.89951	.01842120 .01727540	.01784830	Q AF C CFS	PALMDALE IRRIGATION DISTRICT
1.00000000 1.00000000	1.00000000	0	946100.0 1499.21382	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



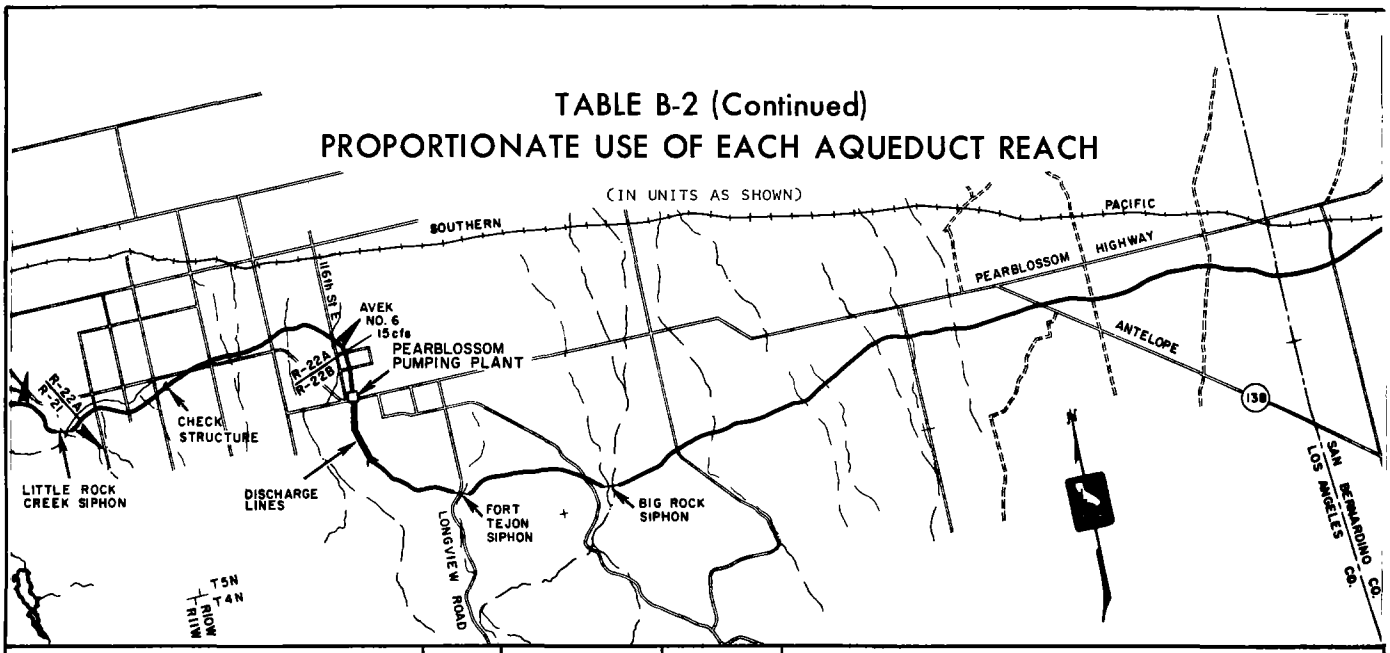
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 20B - 70TH STREET WEST TO PALMDALE								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	2077.2	556500.0	24713.9	0	0	581213.9
	C CFS	0	3.41893	853.38233	36.98178	31.51691	0	921.88102
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	376.3	102600.0	2702.0	0	0	105302.0
	C CFS	0	.61936	172.33413	4.24765	.73805	0	177.31983
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	105.6	28800.0	758.5	0	0	29558.5
	C CFS	0	.17381	45.15128	1.19239	1.25674	0	47.60041
SAN GORGONIO PASS WATER AGENCY	Q AF	0	63.5	17300.0	455.7	0	0	17755.7
	C CFS	0	.10452	29.05110	.71639	.12679	0	29.89428
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	21.3	5800.0	152.7	0	0	5952.7
	C CFS	0	.03506	9.75185	.24006	.03854	0	10.03045
MOJAVE WATER AGENCY	Q AF	0	185.0	50800.0	957.3	0	0	51757.3
	C CFS	0	.30450	70.16895	1.57564	5.26267	0	77.00726
DESERT WATER AGENCY	Q AF	0	138.7	38100.0	717.9	0	0	38817.9
	C CFS	0	.22829	63.98093	1.18162	.24977	0	65.41232
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	84.1	23100.0	435.3	0	0	23535.3
	C CFS	0	.13842	38.80295	.71647	.14775	0	39.66717
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	78.0	21700.0	131.7	0	0	21831.7
	C CFS	0	.12838	29.97375	.21677	0	0	30.19052
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	0	8.3	2300.0	13.0	0	0	2313.0
	C CFS	0	.01366	3.17694	.02140	.23827	0	3.43661
PALMDALE IRRIGATION DISTRICT	Q AF	17300.0	62.0	17300.0	62.0	0	0	17362.0
	C CFS	23.89612	.10205	23.89612	.10205	1.79221	0	25.79038
TOTALS	Q AF	17300.0	3200.0	864300.0	31100.0	0	0	895400.0
	C CFS	23.89612	5.26698	1339.67033	47.19222	41.36770	0	1428.23025
REACH 21 - PALMDALE TO LITTLEROCK CREEK								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	1191.5	556500.0	22636.7	0	0	579136.7
	C CFS	0	1.96113	853.38233	33.56285	31.51691	0	918.46209
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	215.9	102600.0	2325.7	0	0	104925.7
	C CFS	0	.35536	172.33413	3.62829	.73805	0	176.70047
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	60.6	28800.0	652.9	0	0	29452.9
	C CFS	0	.09974	45.15128	1.01858	1.25674	0	47.42660
SAN GORGONIO PASS WATER AGENCY	Q AF	0	36.4	17300.0	392.2	0	0	17692.2
	C CFS	0	.05991	29.05110	.61187	.12679	0	29.78976
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	12.2	5800.0	131.4	0	0	5931.4
	C CFS	0	.02008	9.75185	.20500	.03854	0	9.99539
MOJAVE WATER AGENCY	Q AF	0	106.1	50800.0	772.3	0	0	51572.3
	C CFS	0	.17463	70.16895	1.27114	5.26267	0	76.70276
DESERT WATER AGENCY	Q AF	0	79.6	38100.0	579.2	0	0	38679.2
	C CFS	0	.13102	63.98093	.95333	.24977	0	65.18403
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	48.2	23100.0	351.2	0	0	23451.2
	C CFS	0	.07933	38.80295	.57805	.14775	0	39.52875
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	10800.0	44.8	21700.0	53.7	0	0	21753.7
	C CFS	14.91781	.07374	29.97375	.08839	0	0	30.06214
LITTLEROCK CREEK IRRIGATION DISTRICT	Q AF	2300.0	4.7	2300.0	4.7	0	0	2304.7
	C CFS	3.17694	.00774	3.17694	.00774	.23827	0	3.42295
TOTALS	Q AF	13100.0	1800.0	847000.0	27900.0	0	0	874900.0
	C CFS	18.09475	2.96268	1315.77421	41.92524	39.57549	0	1397.27494



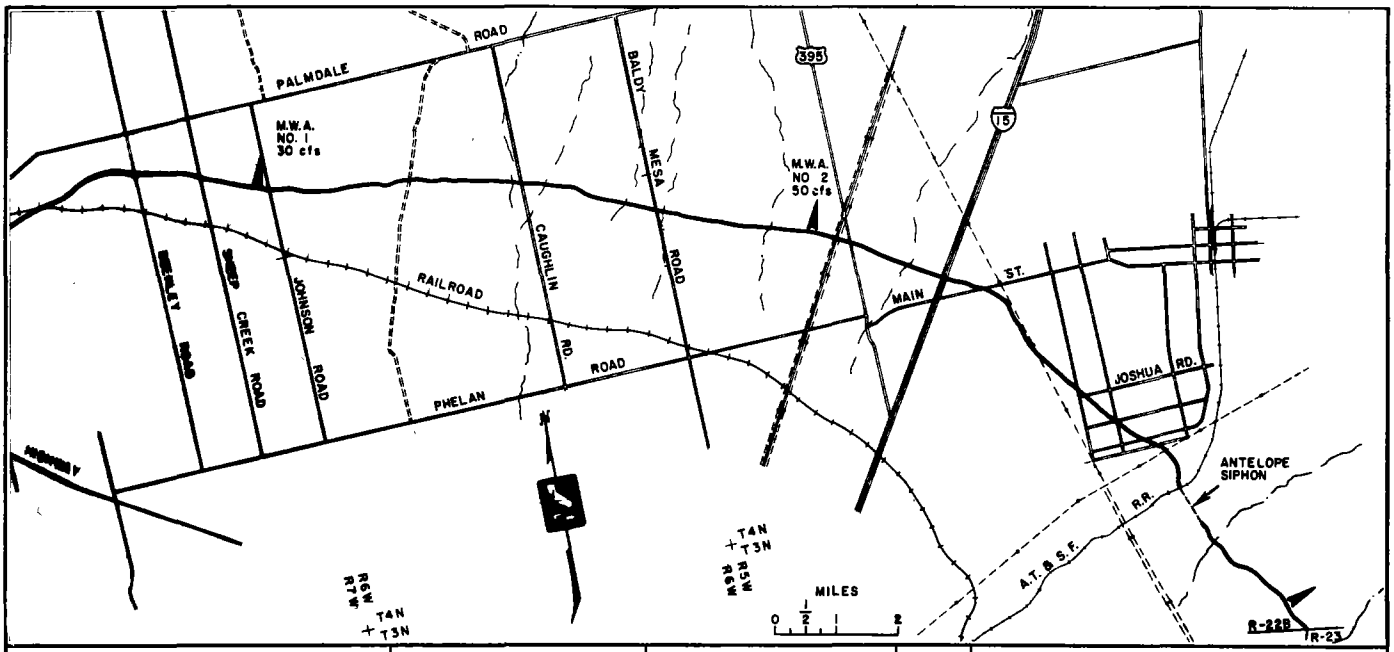
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
			REACH 20B - 70TH STREET WEST TO PALMDALE				
.64911090			581213.9	.64911090		Q AF	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.64547087	.64729088	0	921.88102	.64547087	.64729088	C CFS	
.11760331			105302.0	.11760331		Q AF	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.12415353	.12087842	0	177.31983	.12415353	.12087842	C CFS	
.03301150			29558.5	.03301150		Q AF	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.03332825	.03316988	0	47.60041	.03332825	.03316988	C CFS	
.01982991			17755.7	.01982991		Q AF	SAN GORGONIO PASS WATER AGENCY
.02093100	.02038045	0	29.89428	.02093100	.02038045	C CFS	
.00664809			5952.7	.00664809		Q AF	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.00702299	.00683554	0	10.03045	.00702299	.00683554	C CFS	
.05780355			51757.3	.05780355		Q AF	MOJAVE WATER AGENCY
.05391796	.05586076	0	77.00726	.05391796	.05586076	C CFS	
.04335258			38817.9	.04335258		Q AF	DESERT WATER AGENCY
.04579956	.04457607	0	65.41232	.04579956	.04457607	C CFS	
.02628468			23535.3	.02628468		Q AF	COACHELLA VALLEY COUNTY WATER DISTRICT
.02777365	.02702916	0	39.66717	.02777365	.02702916	C CFS	
.02438206			21831.7	.02438206		Q AF	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.02113841	.02276024	0	30.19062	.02113841	.02276024	C CFS	
.00258320			2313.0	.00258320		Q AF	LITTLEROCK CREEK IRRIGATION DISTRICT
.00240620	.00249470	0	3.43661	.00240620	.00249470	C CFS	
.01939022			17362.0	.01939022		Q AF	PALMDALE IRRIGATION DISTRICT
.01805758	.01872390	0	25.79038	.01805758	.01872390	C CFS	
1.00000000			895400.0	1.00000000		Q AF	TOTALS
1.00000000	1.00000000	0	1428.23025	1.00000000	1.00000000	C CFS	
			REACH 21 - PALMDALE TO LITTLEROCK CREEK				
.66194617			579136.7	.66194617		Q AF	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.65732381	.65963499	0	918.46209	.65732381	.65963499	C CFS	
.11992879			104925.7	.11992879		Q AF	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.12646077	.12319478	0	176.70047	.12646077	.12319478	C CFS	
.03366430			29452.9	.03366430		Q AF	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.03394221	.03380326	0	47.42660	.03394221	.03380326	C CFS	
.02022197			17692.2	.02022197		Q AF	SAN GORGONIO PASS WATER AGENCY
.02131990	.02077093	0	29.78976	.02131990	.02077093	C CFS	
.00677952			5931.4	.00677952		Q AF	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.00715349	.00696650	0	9.99539	.00715349	.00696650	C CFS	
.05894651			51572.5	.05894651		Q AF	MOJAVE WATER AGENCY
.05489454	.05692052	0	76.70276	.05489454	.05692052	C CFS	
.04420985			38679.2	.04420985		Q AF	DESERT WATER AGENCY
.04665083	.04543034	0	65.18403	.04665083	.04543034	C CFS	
.02680444			23451.2	.02680444		Q AF	COACHELLA VALLEY COUNTY WATER DISTRICT
.02828989	.02754716	0	39.52875	.02828989	.02754716	C CFS	
.02486421			21753.7	.02486421		Q AF	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.02151483	.02318953	0	30.06214	.02151483	.02318953	C CFS	
.00263424			2304.7	.00263424		Q AF	LITTLEROCK CREEK IRRIGATION DISTRICT
.00244973	.00254199	0	3.42295	.00244973	.00254199	C CFS	
1.00000000			874900.0	1.00000000		Q AF	TOTALS
1.00000000	1.00000000	0	1397.27494	1.00000000	1.00000000	C CFS	

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



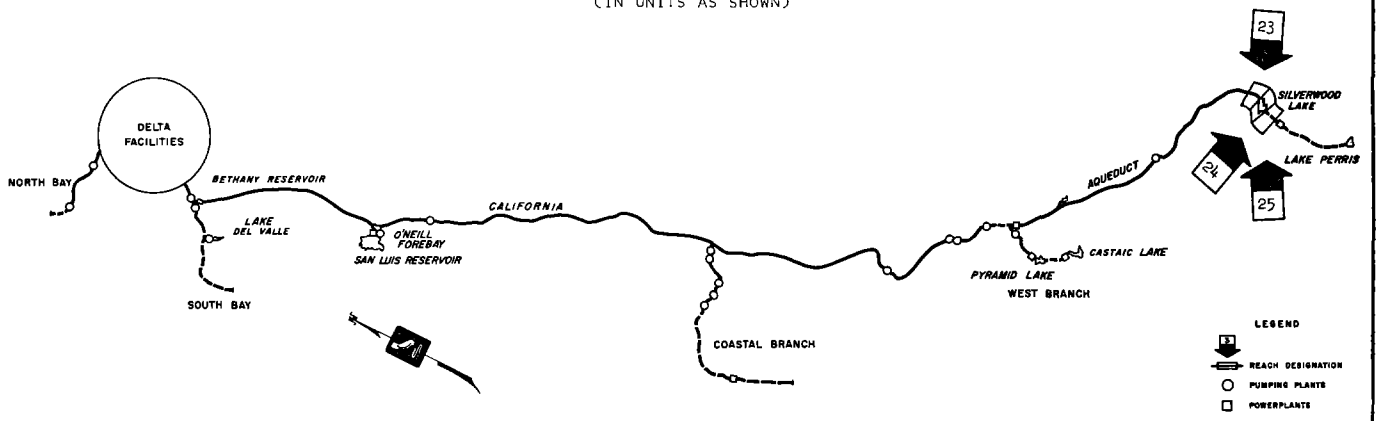
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 22A - LITTLEROCK CREEK TO PEARBLOSSOM PUMPING PLANT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	470.4	556500.0	21445.2	0	0	577945.2
	C CFS	0	.77425	853.38233	31.60172	31.51691	0	916.50096
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	85.2	102600.0	2109.8	0	0	104709.8
	C CFS	0	.14023	172.33413	3.27293	.73805	0	176.34511
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	23.9	28800.0	592.3	0	0	29392.3
	C CFS	0	.03934	45.15128	.91884	1.25674	0	47.32686
SAN GORGONIO PASS WATER AGENCY	Q AF	0	14.4	17300.0	355.8	0	0	17655.8
	C CFS	0	.02370	29.05110	.55196	.12679	0	29.72985
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	4.8	5800.0	119.2	0	0	5919.2
	C CFS	0	.00700	9.75185	.18492	.03854	0	9.97531
MOJAVE WATER AGENCY	Q AF	0	41.9	50800.0	666.2	0	0	51466.2
	C CFS	0	.06896	70.16895	1.09651	5.26267	0	76.52813
DESERT WATER AGENCY	Q AF	0	31.4	38100.0	499.6	0	0	38599.6
	C CFS	0	.05168	63.98093	.82231	.24977	0	65.05301
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	19.1	23100.0	303.0	0	0	23403.0
	C CFS	0	.03144	38.80295	.49872	.14775	0	39.44942
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	10900.0	8.9	10900.0	8.9	0	0	10908.9
	C CFS	15.05594	.01465	15.05594	.01465	0	0	15.07059
TOTALS	Q AF	10900.0	700.0	833900.0	26100.0	0	0	860000.0
	C CFS	15.05594	1.15215	1297.67946	38.96256	39.33722	0	1375.97924
REACH 22B - PEARBLOSSOM PUMPING PLANT TO WEST FORK MOJAVE RIVER								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	7010.8	556500.0	20974.8	0	0	577474.8
	C CFS	0	11.53930	853.38233	30.82747	31.51691	0	915.72671
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	1270.2	102600.0	2024.6	0	0	104624.6
	C CFS	0	2.09066	172.33413	3.13270	.73805	0	176.20488
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	356.6	28800.0	568.4	0	0	29368.4
	C CFS	0	.58694	45.15128	.87950	1.25674	0	47.28752
SAN GORGONIO PASS WATER AGENCY	Q AF	0	214.2	17300.0	341.4	0	0	17641.4
	C CFS	0	.35256	29.05110	.52826	.12679	0	29.70615
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	71.8	5800.0	114.4	0	0	5914.4
	C CFS	0	.11818	9.75185	.17702	.03854	0	9.96741
MOJAVE WATER AGENCY	Q AF	50800.0	624.3	50800.0	624.3	0	0	51424.3
	C CFS	70.16895	1.02755	70.16895	1.02755	5.26267	0	76.45917
DESERT WATER AGENCY	Q AF	38100.0	468.2	38100.0	468.2	0	0	38568.2
	C CFS	52.62671	.77063	63.98093	.77063	.24977	0	65.00133
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	23100.0	283.9	23100.0	283.9	0	0	23383.9
	C CFS	31.90754	.46728	38.80295	.46728	.14775	0	39.41798
TOTALS	Q AF	112000.0	10300.0	823000.0	25400.0	0	0	848400.0
	C CFS	154.70320	16.95310	1282.62352	37.81041	39.33722	0	1359.77115



PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 22A - LITTLEROCK CREEK TO PEARBLOSSOM PUMPING PLANT
.67202930 .66607179	.66905055	0	577945.2 916.50096	.67202930 .66607179	.66905055	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.12175558 .12815972	.12495765	0	104709.8 176.34511	.12175558 .12815972	.12495765	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.03417709 .03439504	.03428607	0	29392.3 47.32686	.03417709 .03439504	.03428607	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.02053000 .02160632	.02106816	0	17655.8 29.72985	.02053000 .02160632	.02106816	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00688279 .00724961	.00706620	0	5919.2 9.97531	.00688279 .00724961	.00706620	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.05984442 .05561721	.05773081	0	51466.2 76.52813	.05984442 .05561721	.05773081	Q AF C CFS	MOJAVE WATER AGENCY
.04488326 .04727761	.04608043	0	38599.6 65.05301	.04488326 .04727761	.04608043	Q AF C CFS	DESERT WATER AGENCY
.02721279 .02867007	.02794143	0	23403.0 39.44942	.02721279 .02867007	.02794143	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
.01268477 .01095263	.01181870	0	10908.9 15.07059	.01268477 .01095263	.01181870	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
1.00000000 1.00000000	1.00000000	0	860000.0 1375.97924	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 22B - PEARBLOSSOM PUMPING PLANT TO WEST FORK MOJAVE RIVER
.68066337 .67344178	.67705257	0	577474.8 915.72671	.68066337 .67344178	.67705257	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.12331990 .12958422	.12645206	0	104624.6 176.20488	.12331990 .12958422	.12645206	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.03461622 .03477609	.03469615	0	29368.4 47.28752	.03461622 .03477609	.03469615	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.02079373 .02184643	.02132008	0	17641.4 29.70615	.02079373 .02184643	.02132008	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00697124 .00733021	.00715073	0	5914.4 9.96741	.00697124 .00733021	.00715073	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.06061327 .05622944	.05842136	0	51424.3 76.45917	.06061327 .05622944	.05842136	Q AF C CFS	MOJAVE WATER AGENCY
.04545992 .04780314	.04663153	0	38568.2 65.00133	.04545992 .04780314	.04663153	Q AF C CFS	DESERT WATER AGENCY
.02756235 .02898869	.02827552	0	23383.9 39.41798	.02756235 .02898869	.02827552	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
1.00000000 1.00000000	1.00000000	0	848400.0 1359.77115	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

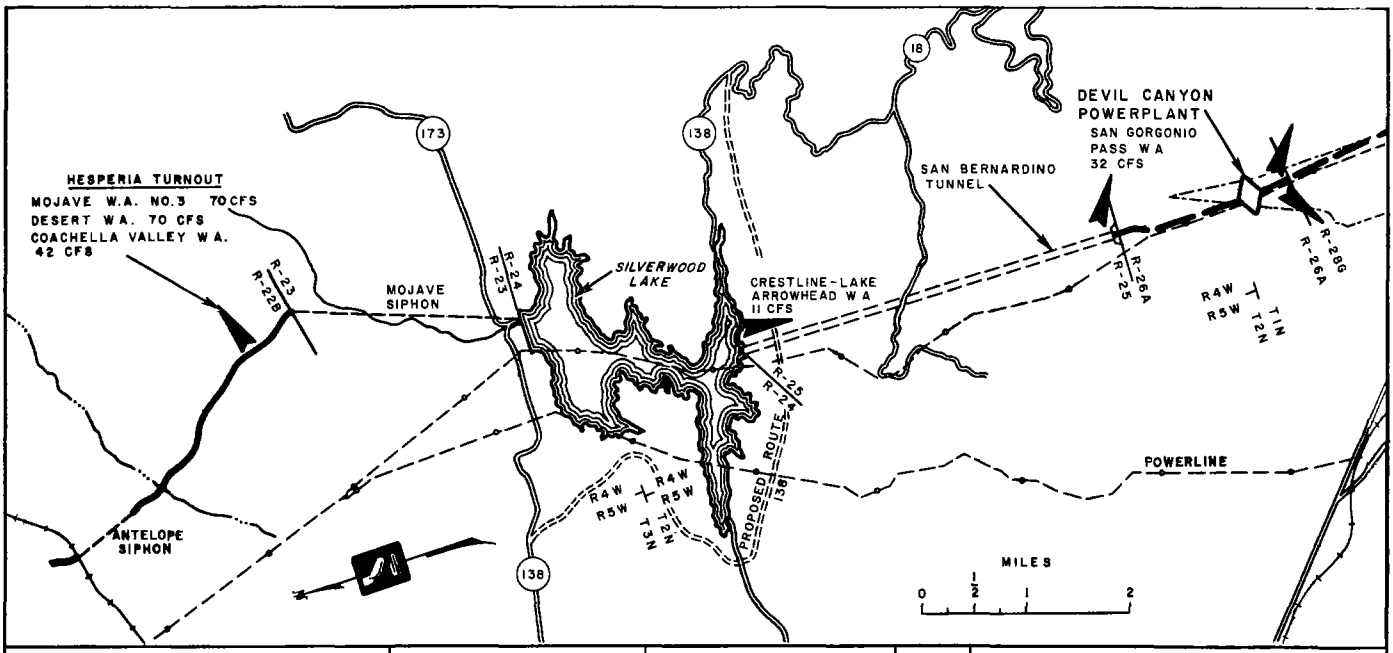
TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 23 - WEST FORK MOJAVE RIVER TO SILVERWOOD LAKE								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	0	556500.0	13964.0	0	0	570464.0
	C CFS	84.70080	0	853.38233	19.28817	31.51691	0	904.18741
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	0	102600.0	754.4	0	0	103354.4
	C CFS	30.61495	0	172.33413	1.04204	.73805	0	174.11422
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	0	28800.0	211.8	0	0	29011.8
	C CFS	5.37046	0	45.15128	.29256	1.25674	0	46.70058
SAN GORGONIO PASS WATER AGENCY	Q AF	0	0	17300.0	127.2	0	0	17427.2
	C CFS	5.15498	0	29.05110	.17570	.12679	0	29.35359
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	0	0	5800.0	42.6	0	0	5842.6
	C CFS	1.74043	0	9.75185	.05884	.03854	0	9.84923
DESERT WATER AGENCY	Q AF	0	0	0	0	0	1377.0	1377.0
	C CFS	0	0	0	0	.72599	9.67988	10.40587
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	0	0	0	0	835.0	835.0
	C CFS	0	0	0	0	.44017	5.86890	6.30907
TOTALS	Q AF	0	0	711000.0	15100.0	0	2212.0	728312.0
	C CFS	127.58162	0	1109.67069	20.85731	34.84319	15.54878	1180.91997
REACH 24 - CEDAR SPRINGS DAM AND SILVERWOOD LAKE								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	4164.0	556500.0	13964.0	0		840.88441*
	C AF	46050.0	1053.0	46050.0	1053.0	0		47103.0
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	754.4	102600.0	754.4	0		152.34812*
	C AF	16635.0	380.0	16635.0	380.0	0		17015.0
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	211.8	28800.0	211.8	0		42.76438*
	C AF	3118.0	71.0	3118.0	71.0	0		3189.0
SAN GORGONIO PASS WATER AGENCY	Q AF	0	127.2	17300.0	127.2	0		25.68833*
	C AF	2066.0	47.0	2066.0	47.0	0		2113.0
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	Q AF	5800.0	42.6	5800.0	42.6	0		8.61228*
	C AF	936.0	21.0	936.0	21.0	0		957.0
DESERT WATER AGENCY	Q AF	0	0	0	0	0		0*
	C AF	1377.0	32.0	1377.0	32.0	0		1409.0
COACHELLA VALLEY COUNTY WATER DISTRICT	Q AF	0	0	0	0	0		0*
	C AF	835.0	19.0	835.0	19.0	0		854.0
TOTALS	Q AF	5800.0	5300.0	711000.0	15100.0	0		1070.29752*
	C AF	71017.0	1623.0	71017.0	1623.0	0		72640.0
REACH 25 - SILVERWOOD LAKE TO SOUTH PORTAL, SAN BERNARDINO TUNNEL								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	0	556500.0	9800.0	0	0	566300.0
	C CFS	0	0	894.21213	13.53653	29.24512	0	936.99378
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	0	102600.0	0	0	0	102600.0
	C CFS	0	0	187.06932	0	0	0	187.06932
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF	0	0	28800.0	0	0	0	28800.0
	C CFS	0	0	47.73699	0	0	0	47.73699
SAN GORGONIO PASS WATER AGENCY	Q AF	17300.0	0	17300.0	0	0	0	17300.0
	C CFS	31.54288	0	31.54288	0	0	0	31.54288
TOTALS	Q AF	17300.0	0	705200.0	9800.0	0	0	715000.0
	C CFS	31.54288	0	1160.56132	13.53653	29.24512	0	1203.34297

* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.

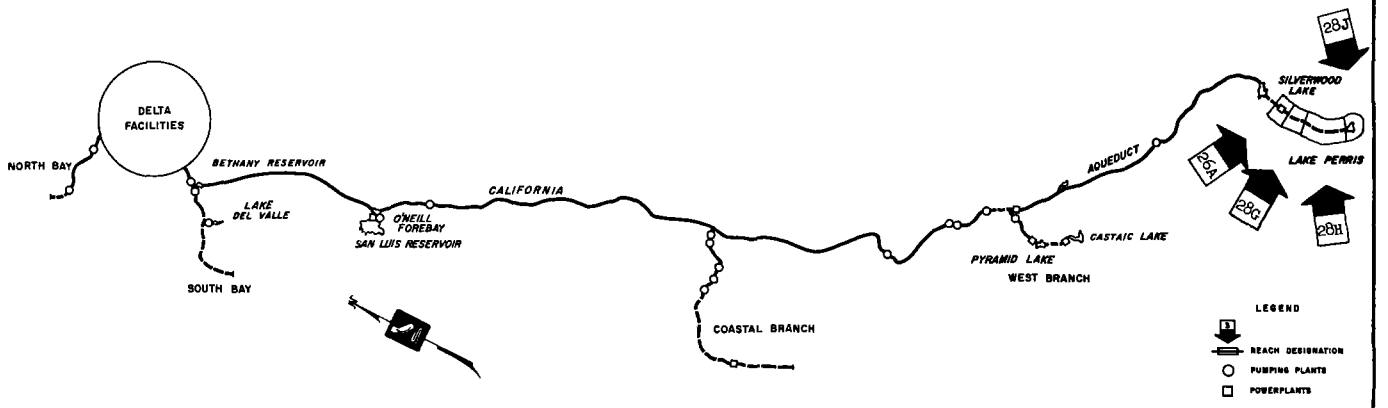


PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 23 - WEST FORK MOJAVE RIVER TO SILVERWOOD LAKE
.78326871 .76566358	.77446614	0	570464.0 904.18741	.78326871 .76566358	.77446614	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.14190951 .14743948	.14467449	0	103354.4 174.11422	.14190951 .14743948	.14467449	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.03983430 .03954593	.03969012	0	29011.8 46.70058	.03983430 .03954593	.03969012	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.02392821 .02485655	.02439238	0	17427.2 29.35359	.02392821 .02485655	.02439238	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
.00802211 .00834030	.00818121	0	5842.6 9.84923	.00802211 .00834030	.00818121	Q AF C CFS	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
.00189067 .00881166	.00535117	0	1377.0 10.40587	.00189067 .00881166	.00535117	Q AF C CFS	DESERT WATER AGENCY
.00114649 .00534250	.00324449	0	835.0 6.30907	.00114649 .00534250	.00324449	Q AF C CFS	COACHELLA VALLEY COUNTY WATER DISTRICT
1.00000000 1.00000000	1.00000000	0	728312.0 1180.91997	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 24 - CEDAR SPRINGS DAM AND SILVERWOOD LAKE
.78565483 .64844438	.66607404‡		840.88441* 47103.0	.78565483 .64844438	.66607404‡	Q AF C AF	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.14234184 .23423733	.22243002‡		152.34812* 17015.0	.14234184 .23423733	.22243002‡	Q AF C AF	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.03995560 .04390143	.04339444‡		42.76438* 3189.0	.03995560 .04390143	.04339444‡	Q AF C AF	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.02400111 .02908866	.02843498‡		25.68833* 2113.0	.02400111 .02908866	.02843498‡	Q AF C AF	SAN GORGONIO PASS WATER AGENCY
.00804662 .01317456	.01251569‡		8.61228* 957.0	.00804662 .01317456	.01251569‡	Q AF C AF	CRESTLINE-LAKE ARROWHEAD WATER AGENCY
0 .01939703	.01690478‡		0* 1409.0	0 .01939703	.01690478‡	Q AF C AF	DESERT WATER AGENCY
0 .01175661	.01024605‡		0* 854.0	0 .01175661	.01024605‡	Q AF C AF	COACHELLA VALLEY COUNTY WATER DISTRICT
1.00000000 1.00000000	1.00000000‡		1070.29752* 72640.0	1.00000000 1.00000000	1.00000000‡	Q AF C AF	TOTALS
							REACH 25 - SILVERWOOD LAKE TO SOUTH PORTAL, SAN BERNARDINO TUNNEL
.79202797 .77865896	.78534346	787.00000	566300.0 1723.99378	.79202797 .85713566	.82458181	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.14349650 .15545802	.14947726	0	102600.0 187.06932	.14349650 .09300717	.11825184	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.04027972 .03967031	.03997502	21.00000	28800.0 68.77699	.04027972 .03417467	.03722720	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
.02419581 .02621271	.02520426	0	17300.0 31.54288	.02419581 .01568250	.01993915	Q AF C CFS	SAN GORGONIO PASS WATER AGENCY
1.00000000 1.00000000	1.00000000	808.00000	715000.0 2011.34297	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.
‡ SUMMATION OF QUANTITY RATIO WEIGHTED BY .12848628 AND CAPACITY RATIO WEIGHTED BY .87151372.

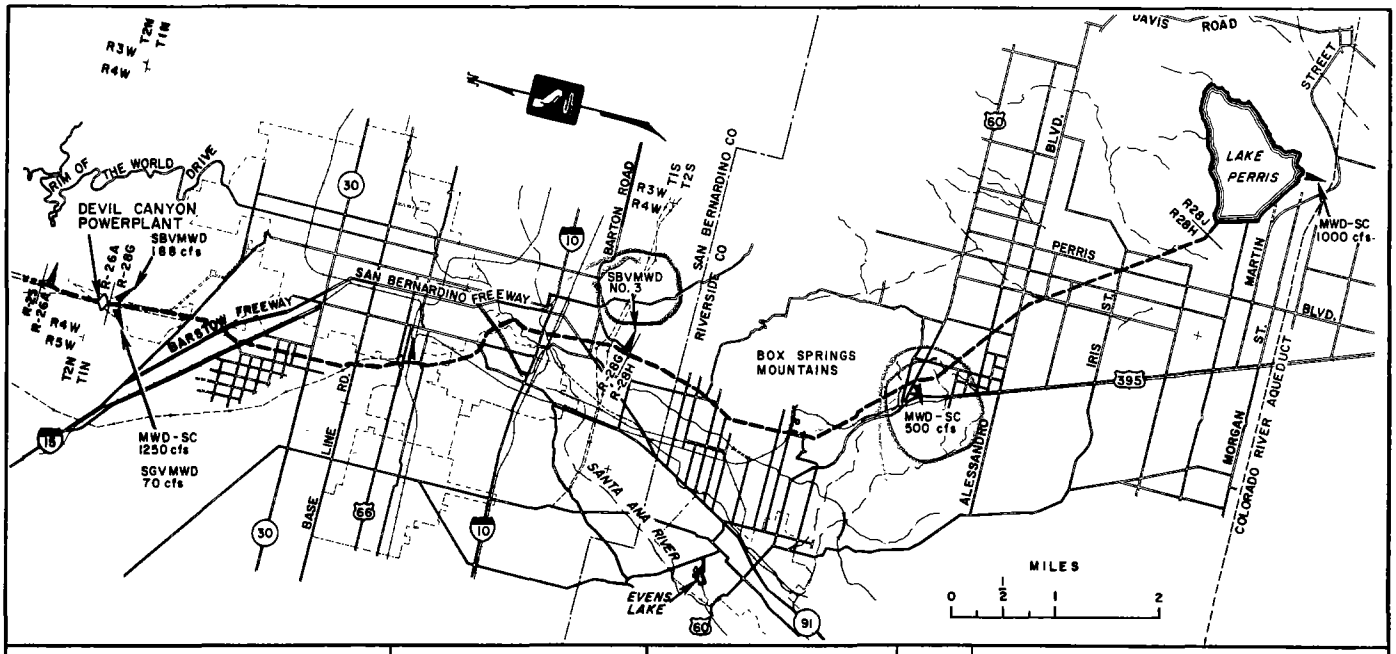
TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 26A - SOUTH PORTAL, SAN BERNARDINO TUNNEL THRU DEVIL CANYON POWERPLANT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF C CFS	284000.0 517.81372	0 0	556500.0 894.21213	9800.0 13.53653	0 29.24512	0 0	566300.0 936.99378
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF C CFS	88900.0 162.09028	0 0	102600.0 187.06932	0 0	0 0	0 0	102600.0 187.06932
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	Q AF C CFS	28800.0 47.73699	0 0	28800.0 47.73699	0 0	0 0	0 0	28800.0 47.73699
TOTALS	Q AF C CFS	401700.0 727.64099	0 0	687900.0 1129.01844	9800.0 13.53653	0 29.24512	0 0	697700.0 1171.80009
REACH 28G - DEVIL CANYON POWERPLANT THRU BARTON ROAD								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF C CFS	0 0	0 0	272500.0 376.39841	9800.0 13.53653	0 29.24512	0 0	282300.0 419.18006
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	Q AF C CFS	13700.0 24.97904	0 0	13700.0 24.97904	0 0	0 0	0 0	13700.0 24.97904
TOTALS	Q AF C CFS	13700.0 24.97904	0 0	286200.0 401.37745	9800.0 13.53653	0 29.24512	0 0	296000.0 444.15910
REACH 28H - BARTON ROAD TO LAKE PERRIS								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF C CFS	0 0	0 0	272500.0 376.39841	9800.0 13.53653	0 29.24512	0 0	282300.0 419.18006
TOTALS	Q AF C CFS	0 0	0 0	272500.0 376.39841	9800.0 13.53653	0 29.24512	0 0	282300.0 419.18006
REACH 28J - PERRIS DAM AND LAKE PERRIS								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF C AF	272500.0 95999.0	9800.0 3001.0	272500.0 95999.0	9800.0 3001.0	0 0		404.62829* 99000.0
TOTALS	Q AF C AF	272500.0 95999.0	9800.0 3001.0	272500.0 95999.0	9800.0 3001.0	0 0		404.62829* 99000.0

* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.

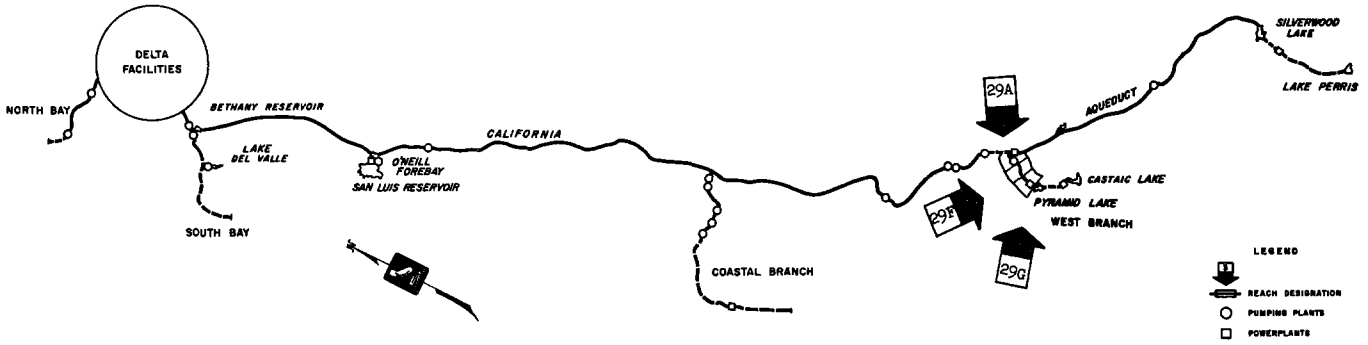


PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 26A - SOUTH PORTAL, SAN BERNARDINO TUNNEL THRU DEVIL CANYON POWERPLANT
.81166690 .79961914	.80564302	0	566300.0 936.99378	.81166690 .79961914	.80564302	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.14705461 .15964269	.15334865	0	102600.0 187.06932	.14705461 .15964269	.15334865	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
.04127849 .04073817	.04100833	0	28800.0 47.73699	.04127849 .04073817	.04100833	Q AF C CFS	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
1.00000000 1.00000000	1.00000000	0	697700.0 1171.80009	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 28G - DEVIL CANYON POWERPLANT THRU BARTON ROAD
.95371622 .94376105	.94873863	0	282300.0 419.18006	.95371622 .94376105	.94873863	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.04628378 .05623895	.05126137	0	13700.0 24.97904	.04628378 .05623895	.05126137	Q AF C CFS	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
1.00000000 1.00000000	1.00000000	0	296000.0 444.15910	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 28H - BARTON ROAD TO LAKE PERRIS
1.00000000 1.00000000	1.00000000	0	282300.0 419.18006	1.00000000 1.00000000	1.00000000	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
1.00000000 1.00000000	1.00000000	0	282300.0 419.18006	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 28J - PERRIS DAM AND LAKE PERRIS
1.00000000 1.00000000	1.00000000‡		404.62829* 99000.0	1.00000000 1.00000000	1.00000000‡	Q AF C AF	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
1.00000000 1.00000000	1.00000000‡		404.62829* 99000.0	1.00000000 1.00000000	1.00000000‡	Q AF C AF	TOTALS

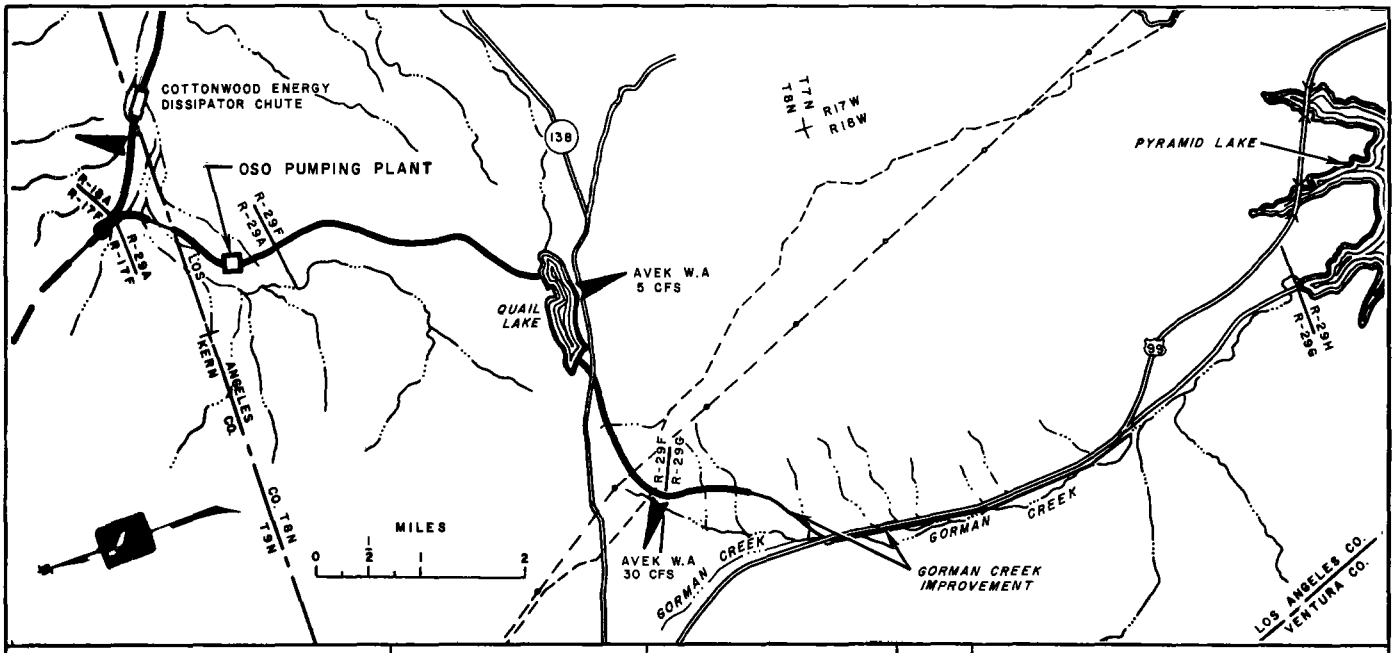
* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.
‡ SUMMATION OF QUANTITY RATIO WEIGHTED BY 0 AND CAPACITY RATIO WEIGHTED BY 1.00000000.

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



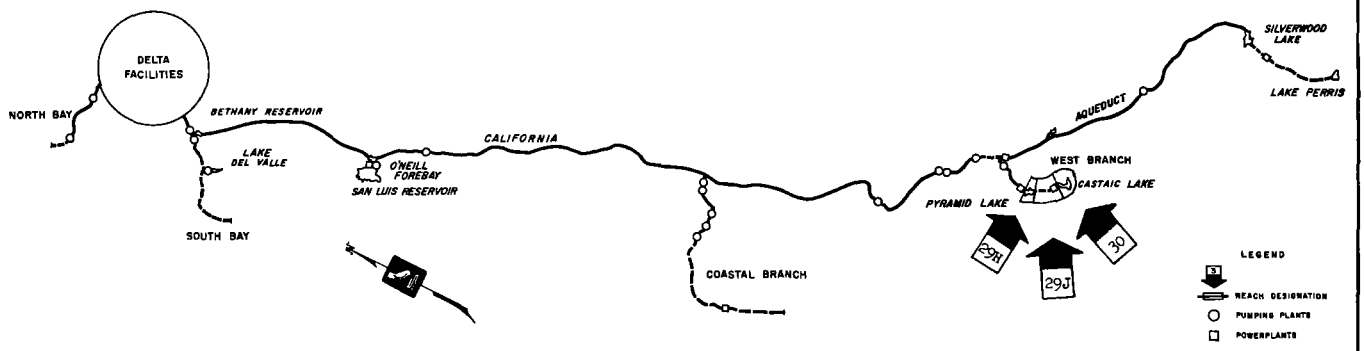
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 29A - JUNCTION, WEST BRANCH CALIFORNIA AQUEDUCT THRU OSO PUMPING PLANT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	479.7	1455000.0	26768.5	0	0	1481768.5
	C CFS	0	.78956	2785.95222	38.06661	153.07773	0	2977.09656
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	0	0	0	0	0	0
	C CFS	0	0	0	0	0	0	0
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	6.6	20000.0	368.0	0	0	20368.0
	C CFS	0	.01086	38.29488	.52332	2.10417	0	40.92237
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	13.7	41500.0	763.5	0	0	42263.5
	C CFS	0	.02255	79.46187	1.08575	4.36613	0	84.91375
TOTALS	Q AF	0	500.0	1516500.0	27900.0	0	0	1544400.0
	C CFS	0	.82297	2903.70897	39.67568	159.54803	0	3102.93268
REACH 29F - OSO PUMPING PLANT THRU QUAIL EMBANKMENT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	2398.6	1455000.0	26288.8	0	0	1481288.8
	C CFS	0	3.94793	2785.95222	37.27705	153.07773	0	2976.30700
ANTELOPE VALLEY-EAST KERN WATER AGENCY	Q AF	0	0	0	0	0	0	0
	C CFS	0	0	0	0	0	0	0
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	33.0	20000.0	361.4	0	0	20361.4
	C CFS	0	.05432	38.29488	.51246	2.10417	0	40.91151
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	68.4	41500.0	749.8	0	0	42249.8
	C CFS	0	.11258	79.46187	1.06320	4.36613	0	84.89120
TOTALS	Q AF	0	2500.0	1516500.0	27400.0	0	0	1543900.0
	C CFS	0	4.11483	2903.70897	38.85271	159.54803	0	3102.10971
REACH 29G - QUAIL EMBANKMENT THRU PYRAMID POWERPLANT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	1247.3	1455000.0	23890.2	0	0	1478890.2
	C CFS	0	2.05297	2785.95222	33.32912	153.07773	0	2972.35907
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	17.1	20000.0	328.4	0	0	20328.4
	C CFS	0	.02815	38.29488	.45814	2.10417	0	40.85719
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	35.6	41500.0	681.4	0	0	42181.4
	C CFS	0	.05859	79.46187	.95062	4.36613	0	84.77862
TOTALS	Q AF	0	1300.0	1516500.0	24900.0	0	0	1541400.0
	C CFS	0	2.13971	2903.70897	34.73788	159.54803	0	3097.99488



PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 29A - JUNCTION, WEST BRANCH CALIFORNIA AQUEDUCT THRU OSO PUMPING PLANT
.95944606 .95944607	.95944607	0	1481768.5 2977.09656	.95944606 .95360691	.95652648	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
0 0	0	19.00000	0 19.00000	0 .00608597	.00304299	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.01318829 .01318829	.01318829	0	20368.0 40.92237	.01318829 .01310802	.01314816	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.02736565 .02736564	.02736564	0	42263.5 84.91375	.02736565 .02719910	.02728237	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
1.00000000 1.00000000	1.00000000	19.00000	1544400.0 3121.93268	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 29F - OSO PUMPING PLANT THRU QUAIL EMBANKMENT
.95944608 .95944608	.95944608	0	1481288.8 2976.30700	.95944608 .95360538	.95652573	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
0 0	0	19.00000	0 19.00000	0 .00608758	.00304379	Q AF C CFS	ANTELOPE VALLEY-EAST KERN WATER AGENCY
.01318829 .01318829	.01318829	0	20361.4 40.91151	.01318829 .01310800	.01314814	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.02736563 .02736563	.02736563	0	42249.8 84.89120	.02736563 .02719904	.02728234	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
1.00000000 1.00000000	1.00000000	19.00000	1543900.0 3121.10971	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 29G - QUAIL EMBANKMENT THRU PYRAMID POWERPLANT
.95944609 .95944609	.95944609	0	1478890.2 2972.35907	.95944609 .95944609	.95944609	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.01318827 .01318827	.01318827	0	20328.4 40.85719	.01318827 .01318827	.01318827	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.02736564 .02736564	.02736564	0	42181.4 84.77862	.02736564 .02736564	.02736564	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
1.00000000 1.00000000	1.00000000	0	1541400.0 3097.99488	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

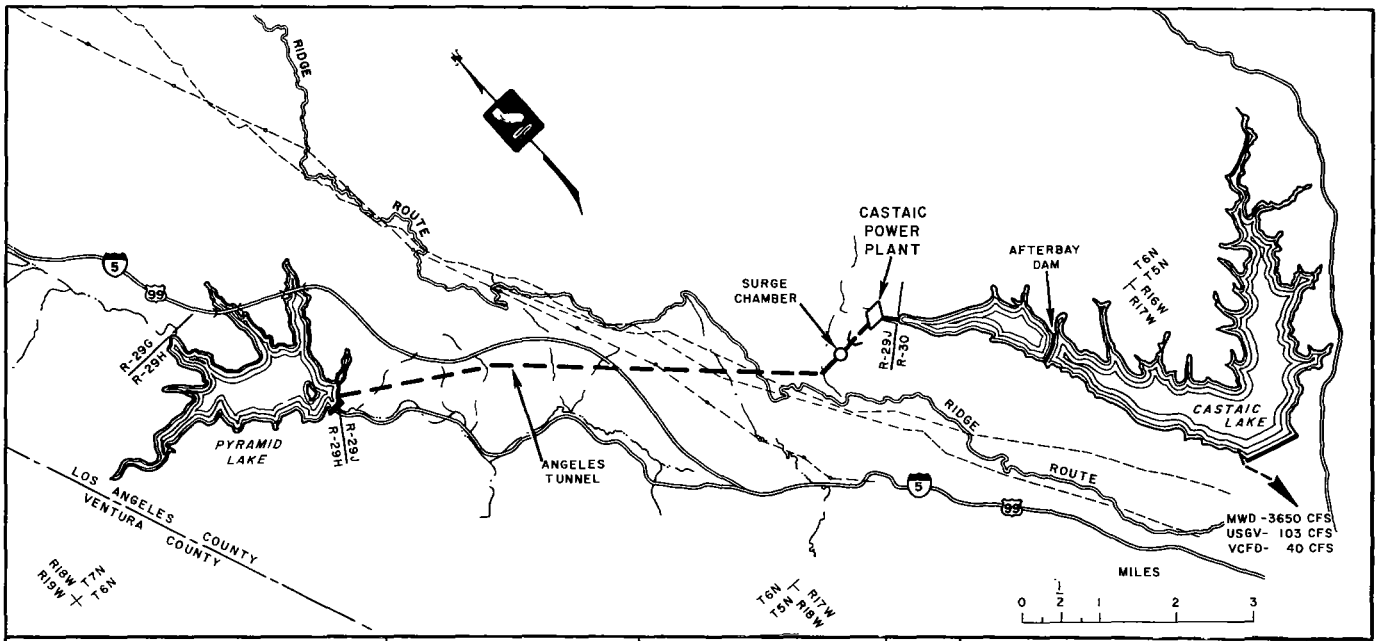
TABLE B-2 (Continu d)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
REACH 29H - PYRAMID DAM AND LAKE								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	7099.9	1455000.0	22642.9	0		2183.57176*
	C AF	148565.0	2189.0	148565.0	2189.0	0		150754.0
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	97.6	20000.0	311.3	0		30.01481*
	C AF	1225.0	18.0	1225.0	18.0	0		1243.0
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	202.5	41500.0	645.8	0		62.28053*
	C AF	4034.0	59.0	4034.0	59.0	0		4093.0
TOTALS	Q AF	0	7400.0	1516500.0	23600.0	0		2275.86710*
	C AF	153824.0	2266.0	153824.0	2266.0	0		156090.0
* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.								
REACH 29J - PYRAMID LAKE THRU CASTAIC POWERPLANT								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	0	0	1455000.0	15543.0	0	0	1470543.0
	C CFS	776.19188	0	2785.95222	21.46921	152.34221	0	2959.76364
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	0	0	20000.0	213.7	0	0	20213.7
	C CFS	10.66931	0	38.29488	.29518	2.09406	0	40.68412
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	0	0	41500.0	443.3	0	0	41943.3
	C CFS	22.13881	0	79.46187	.61239	4.34515	0	84.41934
TOTALS	Q AF	0	0	1516500.0	16200.0	0	0	1532700.0
	C CFS	809.00000	0	2903.70897	22.37671	158.78142	0	3084.86710
REACH 30 - CASTAIC DAM AND LAKE								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	Q AF	1455000.0	15543.0	1455000.0	15543.0	0		2160.49236*
	C AF	315859.0	4790.0	315859.0	4790.0	0		320649.0
VENTURA COUNTY FLOOD CONTROL DISTRICT	Q AF	20000.0	213.7	20000.0	213.7	0		29.69749*
	C AF	2604.0	40.0	2604.0	40.0	0		2644.0
UPPER SANTA CLARA VALLEY WATER AGENCY	Q AF	41500.0	443.3	41500.0	443.3	0		61.62229*
	C AF	8577.0	130.0	8577.0	130.0	0		8707.0
TOTALS	Q AF	1516500.0	16200.0	1516500.0	16200.0	0		2251.81214*
	C AF	327040.0	4960.0	327040.0	4960.0	0		332000.0

* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.



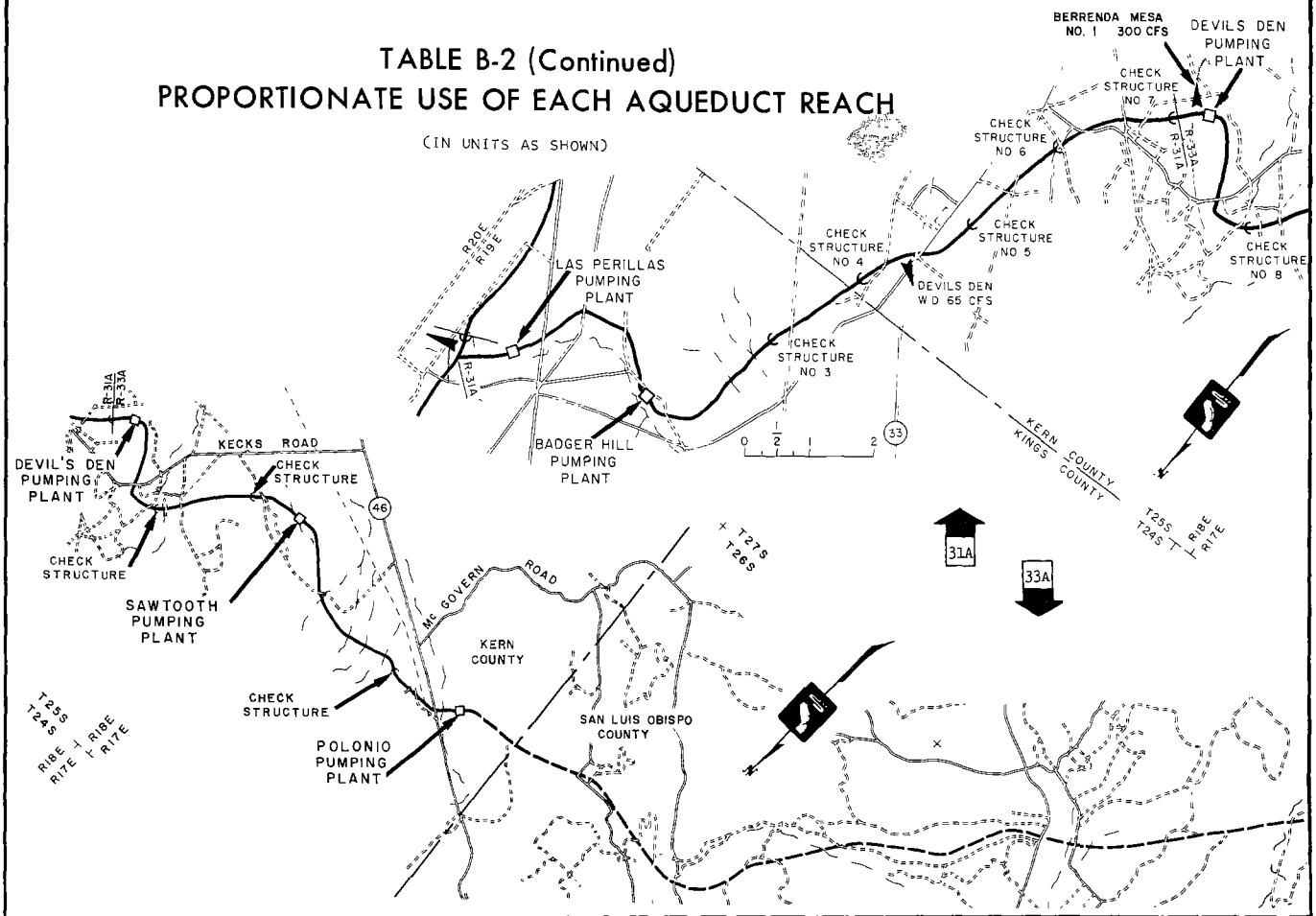
PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 29H - PYRAMID DAM AND LAKE
.95944608 .96581459	.96446829‡		2183.57176* 150754.0	.95944608 .96581459	.96446829‡	Q AF C AF	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.01318829 .00796336	.00906791‡		30.01481* 1243.0	.01318829 .00796336	.00906791‡	Q AF C AF	VENTURA COUNTY FLOOD CONTROL DISTRICT
.02736563 .02622205	.02646380‡		62.28053* 4093.0	.02736563 .02622205	.02646380‡	Q AF C AF	UPPER SANTA CLARA VALLEY WATER AGENCY
1.00000000 1.00000000	1.00000000‡		2275.86710* 156090.0	1.00000000 1.00000000	1.00000000‡	Q AF C AF	TOTALS
							REACH 29J - PYRAMID LAKE THRU CASTAIC POWERPLANT
.95944608 .95944608	.95944608	0	1470543.0 2959.76364	.95944608 .95944608	.95944608	Q AF C CFS	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.01318829 .01318829	.01318829	0	20213.7 40.68412	.01318829 .01318829	.01318829	Q AF C CFS	VENTURA COUNTY FLOOD CONTROL DISTRICT
.02736563 .02736563	.02736563	0	41943.3 84.41934	.02736563 .02736563	.02736563	Q AF C CFS	UPPER SANTA CLARA VALLEY WATER AGENCY
1.00000000 1.00000000	1.00000000	0	1532700.0 3084.86710	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 30 - CASTAIC DAM AND LAKE
.95944609 .96581024	.96499830‡		2160.49236* 320649.0	.95944609 .96581024	.96499830‡	Q AF C AF	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
.01318826 .00796386	.00863039‡		29.69749* 2644.0	.01318826 .00796386	.00863039‡	Q AF C AF	VENTURA COUNTY FLOOD CONTROL DISTRICT
.02736565 .02622590	.02637131‡		61.62229* 8707.0	.02736565 .02622590	.02637131‡	Q AF C AF	UPPER SANTA CLARA VALLEY WATER AGENCY
1.00000000 1.00000000	1.00000000‡		2251.81214* 332000.0	1.00000000 1.00000000	1.00000000‡	Q AF C AF	TOTALS

* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.
‡ SUMMATION OF QUANTITY RATIO WEIGHTED BY .21139995 AND CAPACITY RATIO WEIGHTED BY .78860005.

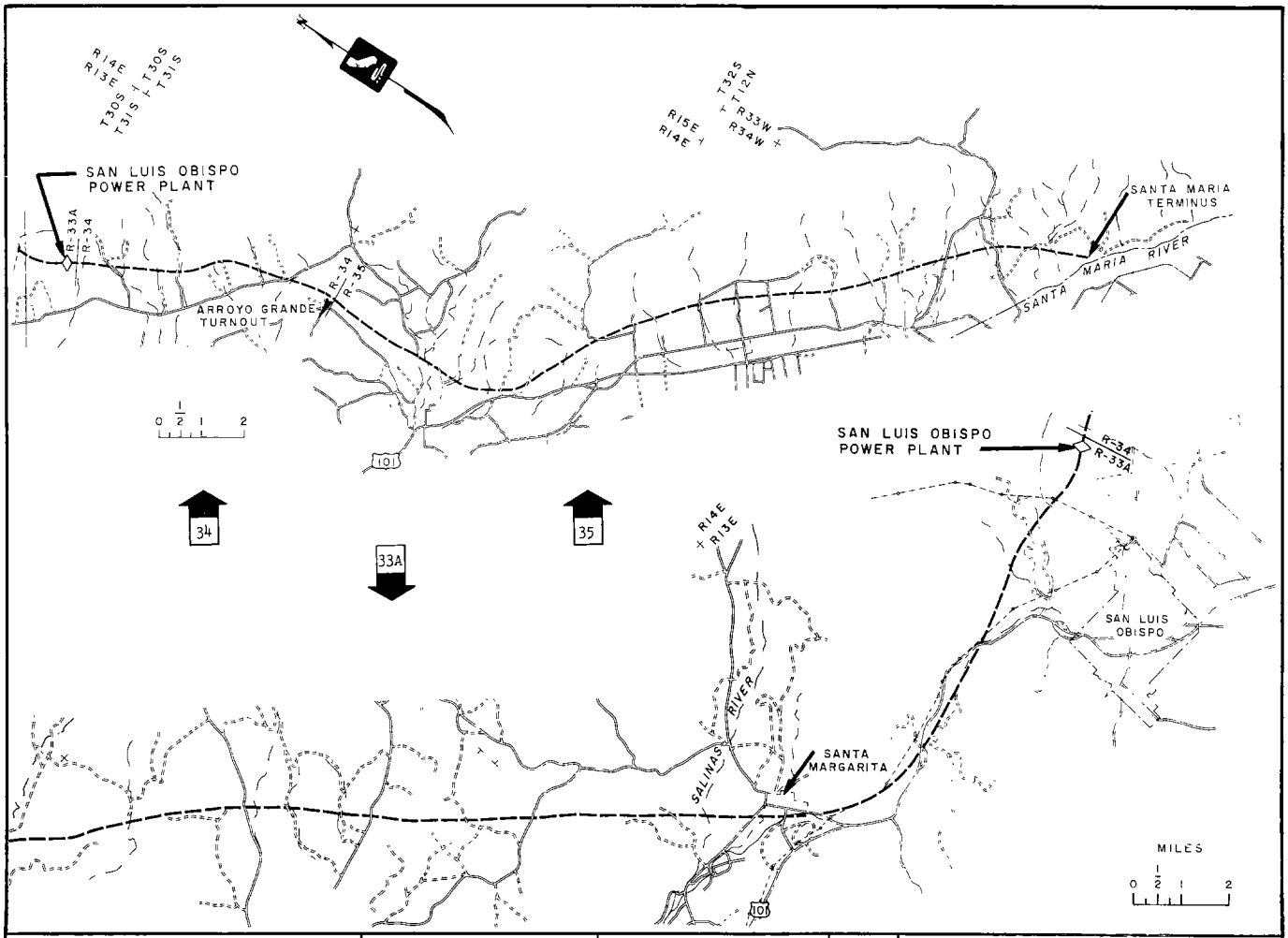
* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.
‡ SUMMATION OF QUANTITY RATIO WEIGHTED BY .12758072 AND CAPACITY RATIO WEIGHTED BY .87241928.

TABLE B-2 (Continued)
PROPORTIONATE USE OF EACH AQUEDUCT REACH

(IN UNITS AS SHOWN)



WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH				
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF			SUBTOTAL
					OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	
REACH 31A - AVENAL GAP TO DEVIL'S DEN PUMPING PLANT		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
KERN COUNTY WATER AGENCY AGRICULTURE	Q AF C CFS	105100.0 283.00000	725.9 1.19478	105100.0 283.00000	725.9 1.19478	0 0	0 0	105825.9 284.19478
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF C CFS	0 0	410.5 .67565	57700.0 79.69977	2150.1 3.20822	0 6.10693	0 0	59850.1 89.01492
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF C CFS	0 0	175.9 .28952	25000.0 34.53197	636.3 .98102	0 2.61585	0 0	25636.3 38.12884
DEVIL S DEN WATER DISTRICT	Q AF C CFS	12700.0 37.89123	87.7 .14435	12700.0 37.89123	87.7 .14435	0 0	0 0	12787.7 38.03558
TOTALS	Q AF C CFS	117800.0 320.89123	1400.0 2.30430	200500.0 435.12297	3600.0 5.52837	0 8.72278	0 0	204100.0 449.37412
REACH 33A - DEVIL'S DEN PUMPING PLANT THRU SAN LUIS OBISPO POWERPLANT								
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF C CFS	0 0	490.1 .80667	57700.0 79.69977	1739.6 2.53257	0 6.10693	0 0	59439.6 88.33927
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF C CFS	10000.0 13.81279	209.9 .34548	25000.0 34.53197	460.4 .69150	0 2.61585	0 0	25460.4 37.83932
TOTALS	Q AF C CFS	10000.0 13.81279	700.0 1.15215	82700.0 114.23174	2200.0 3.22407	0 8.72278	0 0	84900.0 126.17859
REACH 34 - SAN LUIS OBISPO POWERPLANT TO ARROYO GRANDE								
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF C CFS	0 0	397.2 .54864	57700.0 79.69977	1249.5 1.72590	0 6.10693	0 0	58949.5 87.53260
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF C CFS	5000.0 6.90639	102.8 .14200	15000.0 20.71918	250.5 .34602	0 1.57989	0 0	15250.5 22.64509
TOTALS	Q AF C CFS	5000.0 6.90639	500.0 .69064	72700.0 100.41895	1500.0 2.07192	0 7.68682	0 0	74200.0 110.17769
REACH 35 - ARROYO GRANDE THRU SANTA MARIA TERMINUS								
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF C CFS	57700.0 79.69977	852.3 1.17726	57700.0 79.69977	852.3 1.17726	0 6.06578	0 0	58552.3 86.94281
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	Q AF C CFS	10000.0 13.81279	147.7 .20402	10000.0 13.81279	147.7 .20402	0 1.05126	0 0	10147.7 15.06807
TOTALS	Q AF C CFS	67700.0 93.51256	1000.0 1.38128	67700.0 93.51256	1000.0 1.38128	0 7.11704	0 0	68700.0 102.01088



PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS		MEASURE OF USE	WATER SUPPLY CONTRACTOR
RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS		
(9)	(10)	(11)	(12)	(13)	(14)	(15)	
							REACH 31A - AVENAL GAP TO DEVIL'S DEN PUMPING PLANT
.51850024 .63242356	.57546190	0	105825.9 284.19478	.51850024 .63242356	.57546190	Q AF C CFS	KERN COUNTY WATER AGENCY AGRICULTURE
.29323910 .19808644	.24566277	0	59850.1 89.01492	.29323910 .19808644	.24566277	Q AF C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.12560657 .08484877	.10522767	0	25636.3 38.12884	.12560657 .08484877	.10522767	Q AF C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.06265409 .08464123	.07364766	0	12787.7 38.03558	.06265409 .08464123	.07364766	Q AF C CFS	DEVIL S DEN WATER DISTRICT
1.00000000 1.00000000	1.00000000	0	~~204100.0~~ ~~449.37412~~	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 33A - DEVIL'S DEN PUMPING PLANT THRU SAN LUIS OBISPO POWERPLANT
.70011307 .70011299	.70011303	0	59439.6 88.33927	.70011307 .70011299	.70011303	Q AF C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.29988693 .29988701	.29988697	0	25460.4 37.83932	.29988693 .29988701	.29988697	Q AF C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
1.00000000 1.00000000	1.00000000	0	~~84900.0~~ 126.17859	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 34 - SAN LUIS OBISPO POWERPLANT TO ARROYO GRANDE
.79446765 .79446756	.79446761	0	58949.5 87.53260	.79446765 .79446756	.79446761	Q AF C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.20553235 .20553244	.20553239	0	15250.5 22.64509	.20553235 .20553244	.20553239	Q AF C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
1.00000000 1.00000000	1.00000000	0	74200.0 110.17769	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS
							REACH 35 - ARROYO GRANDE THRU SANTA MARIA TERMINUS
.85228967 .85228958	.85228962	0	58552.3 86.94281	.85228967 .85228958	.85228962	Q AF C CFS	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
.14771033 .14771042	.14771038	0	10147.7 15.06807	.14771033 .14771042	.14771038	Q AF C CFS	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
1.00000000 1.00000000	1.00000000	0	68700.0 102.01088	1.00000000 1.00000000	1.00000000	Q AF C CFS	TOTALS

TOTAL VARIABLE OMP&R COSTS OF PUMPING AND POWER RECOVERY PLANTS OF PROJECT TRANSPORTATION FACILITIES(a

(in dollars)

Calendar Year	NORTH BAY AQUEDUCT		SOUTH BAY AQUEDUCT	CALIFORNIA AQUEDUCT				
	Reach 1	Reach 3	Reach 1	Reach 1	Reach 4	Reach 14A	Reach 15A	Reach 16A
	Calhoun Pumping Plant	Cordelia Pumping Plant	South Bay Pumping Plant (b	Delta Pumping Plant	Dos Amigos Pumping Plant	Buena Vista Pumping Plant	Wheeler Ridge Pumping Plant	Wind Gap Pumping Plant
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1961	0	0	0	0	0	0	0	0
1962	0	0	38,923	0	0	0	0	0
1963	0	0	60,430	0	0	0	0	0
1964	0	0	75,623	0	0	0	0	0
1965	0	0	147,478	0	0	0	0	0
1966	0	0	205,466	0	0	0	0	0
1967	0	0	235,106	38,876	0	0	0	0
1968	0	10,001	425,439	1,294,760	333,060	0	0	0
1969	0	18,000	412,000	1,320,000	211,000	16,000	16,000	17,000
1970	0	25,000	610,000	863,000	344,000	90,000	50,000	61,000
1971	0	28,000	601,000	970,000	489,000	364,000	281,000	558,000
1972	0	23,000	516,000	1,469,000	688,000	694,000	717,000	1,373,000
1973	0	27,000	574,000	1,665,000	899,000	909,000	963,000	1,888,000
1974	0	30,000	580,000	1,825,000	914,000	927,000	980,000	1,937,000
1975	0	34,000	604,000	1,703,000	1,104,000	959,000	1,022,000	1,983,000
1976	0	36,000	599,000	1,991,000	1,213,000	1,069,000	1,139,000	2,257,000
1977	0	38,000	587,000	2,331,000	1,266,000	1,120,000	1,188,000	2,380,000
1978	0	39,000	593,000	2,842,000	1,378,000	1,222,000	1,313,000	2,617,000
1979	2,000	38,000	560,000	3,036,000	1,362,000	1,287,000	1,392,000	2,804,000
1980	11,000	45,000	539,000	3,674,000	1,492,000	1,478,000	1,516,000	3,302,000
1981	12,000	52,000	523,000	3,514,000	1,514,000	1,476,000	1,514,000	3,300,000
1982	12,000	54,000	518,000	4,458,000	1,576,000	1,561,000	1,613,000	3,521,000
1983	11,000	56,000	503,000	4,340,000	1,653,000	1,677,000	1,746,000	3,819,000
1984	11,000	58,000	485,000	5,087,000	1,595,000	1,581,000	1,643,000	3,588,000
1985	12,000	60,000	486,000	5,315,000	1,692,000	1,688,000	1,858,000	4,060,000
1986	13,000	67,000	492,000	4,327,000	1,802,000	1,811,000	1,903,000	4,157,000
1987	13,000	68,000	489,000	4,357,000	1,862,000	1,924,000	2,033,000	4,444,000
1988	14,000	69,000	493,000	4,606,000	2,035,000	2,163,000	2,206,000	4,824,000
1989	14,000	68,000	487,000	5,450,000	2,034,000	2,188,000	2,247,000	4,915,000
1990	15,000	70,000	494,000	5,583,000	2,105,000	2,225,000	2,283,000	5,212,000
1991	15,000	70,000	500,000	5,651,000	2,122,000	2,334,000	2,408,000	5,270,000
1992	15,000	70,000	500,000	5,651,000	2,122,000	2,334,000	2,408,000	5,270,000
1993	15,000	70,000	500,000	5,651,000	2,122,000	2,334,000	2,408,000	5,270,000
1994	15,000	70,000	500,000	5,650,000	2,122,000	2,334,000	2,408,000	5,270,000
1995	15,000	70,000	500,000	5,650,000	2,122,000	2,334,000	2,408,000	5,270,000
1996	15,000	70,000	500,000	5,650,000	2,122,000	2,334,000	2,408,000	5,270,000
1997	15,000	70,000	500,000	5,650,000	2,122,000	2,334,000	2,408,000	5,270,000
1998	15,000	70,000	500,000	5,650,000	2,122,000	2,334,000	2,408,000	5,270,000
1999	15,000	70,000	500,000	5,650,000	2,122,000	2,334,000	2,408,000	5,270,000
2000 (c	15,000	70,000	500,000	5,650,000	2,122,000	2,334,000	2,408,000	5,270,000

a) Includes the total cost of the project transportation facilities for electrical power and energy, materials, supplies, and replacements associated with the operation of electro-mechanical units.

b) The estimated costs of Del Valle Pumping Plant have been combined with those of South Bay Pumping Plant to simplify the allocation procedure.

c) And each year thereafter for the remainder of the project repayment period.

TOTAL VARIABLE OMP&R COSTS OF PUMPING AND POWER RECOVERY PLANTS OF PROJECT TRANSPORTATION FACILITIES[a]

(in dollars)

5/6/69

Calendar Year	CALIFORNIA AQUEDUCT (Continued)							Grand Total
	Reach 17A	Reach 22B	Reach 26A	Reach 29A	Reach 29J	Reach 31A	Reach 33A	
	A.D. Edmonston Pumping Plant	Pear-blossom Pumping Plant	Devil Canyon Powerplant	Oso Pumping Plant	Castaic Powerplant	Las Perillas and Badger Hill Pumping Plants	Devil's Den, Sawtooth and Polonio PP's and San Luis Obispo Pwp	
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1961	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	38,923
1963	0	0	0	0	0	0	0	60,430
1964	0	0	0	0	0	0	0	75,623
1965	0	0	0	0	0	0	0	147,478
1966	0	0	0	0	0	0	0	205,466
1967	0	0	0	0	0	0	0	273,982
1968	0	0	0	0	0	138,000	0	2,201,260
1969	43,000	13,000	1,000	2,000	0	63,000	0	2,132,000
1970	43,000	10,000	4,000	25,000	0	115,000	0	2,240,000
1971	1,860,000	84,000	8,000	238,000	-235,000	93,000	0	5,339,000
1972	4,941,000	729,000	-518,000	429,000	-822,000	78,000	0	10,317,000
1973	6,914,000	977,000	-1,309,000	521,000	-1,513,000	115,000	0	12,630,000
1974	7,098,000	762,000	-1,211,000	621,000	-2,289,000	136,000	0	12,310,000
1975	7,266,000	849,000	-1,144,000	602,000	-2,704,000	156,000	0	12,434,000
1976	8,290,000	883,000	-1,501,000	696,000	-3,685,000	158,000	0	13,145,000
1977	8,800,000	917,000	-1,382,000	730,000	-3,913,000	168,000	0	14,230,000
1978	9,682,000	1,031,000	-1,633,000	786,000	-3,941,000	178,000	0	16,107,000
1979	10,366,000	1,270,000	-1,649,000	859,000	-3,951,000	184,000	6,000	17,566,000
1980	11,390,000	1,252,000	-2,114,000	934,000	-4,688,000	184,000	106,000	19,121,000
1981	12,201,000	1,258,000	-1,668,000	1,019,000	-4,281,000	181,000	105,000	20,720,000
1982	12,256,000	1,376,000	-1,721,000	1,020,000	-4,193,000	190,000	112,000	22,353,000
1983	14,144,000	1,663,000	-1,918,000	1,202,000	-4,229,000	178,000	119,000	24,964,000
1984	13,262,000	1,534,000	-1,872,000	1,065,000	-3,912,000	182,000	160,000	24,467,000
1985	14,281,000	1,915,000	-2,006,000	1,165,000	-3,960,000	188,000	198,000	26,952,000
1986	15,411,000	1,936,000	-2,751,000	1,242,000	-4,870,000	208,000	242,000	25,990,000
1987	16,488,000	1,812,000	-2,661,000	1,373,000	-4,682,000	211,000	291,000	28,022,000
1988	17,918,000	1,860,000	-2,626,000	1,472,000	-4,967,000	231,000	324,000	30,622,000
1989	18,255,000	1,900,000	-2,555,000	1,485,000	-4,873,000	227,000	425,000	32,267,000
1990	18,541,000	1,930,000	-2,471,000	1,554,000	-4,729,000	250,000	452,000	33,514,000
1991	18,755,000	2,132,000	-2,598,000	1,498,000	-4,800,000	251,000	453,000	34,061,000
1992	18,755,000	2,132,000	-2,598,000	1,498,000	-4,738,000	251,000	453,000	34,123,000
1993	18,755,000	2,132,000	-2,598,000	1,498,000	-4,738,000	251,000	453,000	34,123,000
1994	18,755,000	2,132,000	-2,598,000	1,498,000	-4,738,000	251,000	453,000	34,122,000
1995	18,755,000	2,132,000	-2,598,000	1,498,000	-4,738,000	251,000	453,000	34,122,000
1996	18,755,000	2,132,000	-2,598,000	1,498,000	-4,738,000	251,000	453,000	34,122,000
1997	18,755,000	2,132,000	-2,598,000	1,498,000	-4,698,000	251,000	453,000	34,162,000
1998	18,755,000	2,132,000	-2,598,000	1,498,000	-4,698,000	251,000	453,000	34,162,000
1999	18,755,000	2,132,000	-2,598,000	1,498,000	-4,698,000	251,000	453,000	34,162,000
2000 (c	18,755,000	2,132,000	-2,598,000	1,498,000	-4,698,000	251,000	453,000	34,162,000

TABLE B-4

ANNUAL ENTITLEMENTS TO PROJECT WATER[a]

(in acre-feet)

5/6/69

Sheet 1 of 3

Calendar Year	Feather River Area				North Bay Area			South Bay Area [b			
	City of Yuba City	County of Butte	Plumas County Flood Control and Water Conservation District	Total	Napa County Flood Control and Water Conservation District [c	Solano County Flood Control and Water Conservation District	Total	Alameda County Flood Control and Water Conservation District, Zone 7	Alameda County Water District	Santa Clara County Flood Control and Water District	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1967	0	0	0	0	0	0	0	507	5,248	5,783	11,538
68	0	300	250	550	0	0	0	6,900	15,000	88,000	109,900
69	0	350	270	620	0	0	0	8,200	15,500	75,000	98,700
1970	0	400	300	700	0	0	0	10,000	16,200	88,000	114,200
71	0	450	440	890	0	0	0	11,200	17,000	88,000	116,200
72	0	500	470	970	0	0	0	12,400	17,900	88,000	118,300
73	0	600	500	1,100	0	0	0	13,600	18,800	88,000	120,400
74	0	700	530	1,230	0	0	0	14,800	19,600	88,000	122,400
75	0	1,050	560	1,610	0	0	0	16,000	20,500	88,000	124,500
76	0	1,400	590	1,990	0	0	0	17,200	21,300	88,000	126,500
77	0	1,800	620	2,420	0	0	0	18,400	22,200	88,000	128,600
78	0	2,200	650	2,850	0	0	0	19,600	23,100	88,000	130,700
79	0	2,600	680	3,280	0	0	0	20,800	23,900	88,000	132,700
1980	0	4,000	710	4,710	12,500	6,750	19,250	22,000	24,800	88,000	134,800
81	4,200	5,450	740	10,390	13,750	8,000	21,750	23,000	26,000	88,000	137,000
82	4,600	6,900	770	12,270	15,000	9,400	24,400	24,000	27,200	88,000	139,200
83	5,050	8,350	800	14,200	16,250	10,800	27,050	25,000	28,400	88,000	141,400
84	5,500	9,800	830	16,130	17,500	12,100	29,600	26,000	29,600	88,000	143,600
85	5,950	12,250	860	19,060	18,750	14,000	32,750	27,000	30,800	88,000	145,800
86	6,600	14,700	890	22,190	20,000	16,500	36,500	28,000	32,100	88,000	148,100
87	7,300	17,150	920	25,370	21,250	20,000	41,250	29,000	33,300	88,000	150,300
88	8,000	20,600	960	29,560	22,500	27,000	49,500	30,000	34,500	88,000	152,500
89	8,800	24,050	1,000	33,850	23,750	34,500	58,250	31,000	35,700	90,000	156,700
1990	9,600	27,500	1,040	38,140	25,000	42,000	67,000	32,000	36,900	92,000	160,900
91	9,600	27,500	1,080	38,180	25,000	42,000	67,000	34,000	38,400	94,000	166,400
92	9,600	27,500	1,120	38,220	25,000	42,000	67,000	36,000	39,900	96,000	171,900
93	9,600	27,500	1,160	38,260	25,000	42,000	67,000	38,000	41,400	98,000	177,400
94	9,600	27,500	1,200	38,300	25,000	42,000	67,000	40,000	42,000	100,000	182,000
95	9,600	27,500	1,250	38,350	25,000	42,000	67,000	42,000	42,000	100,000	184,000
96	9,600	27,500	1,300	38,400	25,000	42,000	67,000	44,000	42,000	100,000	186,000
97	9,600	27,500	1,350	38,450	25,000	42,000	67,000	46,000	42,000	100,000	188,000
98	9,600	27,500	1,400	38,500	25,000	42,000	67,000	46,000	42,000	100,000	188,000
99	9,600	27,500	1,450	38,550	25,000	42,000	67,000	46,000	42,000	100,000	188,000
2000	9,600	27,500	1,510	38,610	25,000	42,000	67,000	46,000	42,000	100,000	188,000
01	9,600	27,500	1,570	38,670	25,000	42,000	67,000	46,000	42,000	100,000	188,000
02	9,600	27,500	1,630	38,730	25,000	42,000	67,000	46,000	42,000	100,000	188,000
03	9,600	27,500	1,690	38,790	25,000	42,000	67,000	46,000	42,000	100,000	188,000
04	9,600	27,500	1,750	38,850	25,000	42,000	67,000	46,000	42,000	100,000	188,000
05	9,600	27,500	1,810	38,910	25,000	42,000	67,000	46,000	42,000	100,000	188,000
06	9,600	27,500	1,880	38,980	25,000	42,000	67,000	46,000	42,000	100,000	188,000
07	9,600	27,500	1,950	39,050	25,000	42,000	67,000	46,000	42,000	100,000	188,000
08	9,600	27,500	2,020	39,120	25,000	42,000	67,000	46,000	42,000	100,000	188,000
09	9,600	27,500	2,090	39,190	25,000	42,000	67,000	46,000	42,000	100,000	188,000
2010	9,600	27,500	2,160	39,260	25,000	42,000	67,000	46,000	42,000	100,000	188,000
11	9,600	27,500	2,240	39,340	25,000	42,000	67,000	46,000	42,000	100,000	188,000
12	9,600	27,500	2,320	39,420	25,000	42,000	67,000	46,000	42,000	100,000	188,000
13	9,600	27,500	2,410	39,510	25,000	42,000	67,000	46,000	42,000	100,000	188,000
14	9,600	27,500	2,500	39,600	25,000	42,000	67,000	46,000	42,000	100,000	188,000
15	9,600	27,500	2,600	39,700	25,000	42,000	67,000	46,000	42,000	100,000	188,000
2016 (d	9,600	27,500	2,700	39,800	25,000	42,000	67,000	46,000	42,000	100,000	188,000

a) From Tables A and Articles 6(a) of water supply contracts as of December 31, 1968.
b) Entitlements for the South Bay Area have been supplied by nonproject water for the period June 1962 through November 1967. Actual delivery quantities of project water are shown for 1967.
c) District's Table A quantities exclude those during the period 1968 through 1979 which are assumed to be supplied by nonproject water.
d) And each year thereafter for the remainder of the project repayment period.

TABLE B-4

ANNUAL ENTITLEMENTS TO PROJECT WATER[a]

(in acre-feet)

5/6/69

Sheet 2 of 3

Calendar Year	San Joaquin Valley Area									Central Coastal Area		
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency	Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total	San Luis Obispo County Flood Control and Water Conservation District	Santa Barbara County Flood Control and Water Conservation District	Total
	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
1967	0	0	0	0	0	0	0	0	0	0	0	0
68	3,700	14,300	1,000	0	46,600	900	2,300	12,250	81,050	0	0	0
69	5,000	14,325	3,000	2,400	95,700	1,200	2,500	43,950	168,075	0	0	0
1970	5,700	15,700	3,000	2,500	145,100	1,300	2,600	31,800	207,700	0	0	0
71	6,700	17,900	3,000	2,300	190,300	1,300	2,800	34,200	258,500	0	0	0
72	7,700	20,000	3,000	2,600	270,700	1,400	2,900	36,700	345,000	0	0	0
73	8,700	22,000	3,000	2,900	310,500	1,500	3,100	39,100	390,800	0	0	0
74	9,700	24,100	3,000	3,300	347,000	1,500	3,200	43,000	434,800	0	0	0
75	10,700	26,200	3,000	3,600	385,500	1,600	3,400	46,900	480,900	0	0	0
76	11,700	28,300	3,000	3,900	432,800	1,600	3,500	50,800	535,600	0	0	0
77	12,700	30,400	3,000	4,200	483,600	1,700	3,700	54,800	594,100	0	0	0
78	12,700	32,500	3,000	4,600	534,300	1,900	3,900	58,700	651,600	0	0	0
79	12,700	34,600	3,000	4,900	583,900	2,000	4,000	62,600	707,700	0	0	0
1980	12,700	36,700	3,000	5,200	634,500	2,200	4,200	66,500	765,000	1,000	1,200	2,200
81	12,700	38,800	3,000	5,600	691,400	2,300	4,300	70,400	828,500	1,000	2,300	3,300
82	12,700	41,000	3,000	5,900	745,300	2,500	4,500	74,300	889,200	2,000	4,600	6,600
83	12,700	42,900	3,000	6,200	805,100	2,800	4,600	78,200	955,500	3,000	6,900	9,900
84	12,700	45,100	3,000	6,500	860,600	3,100	4,800	82,100	1,017,900	4,500	10,400	14,900
85	12,700	47,200	3,000	6,900	915,000	3,400	4,900	86,000	1,079,100	7,500	17,300	24,800
86	12,700	49,300	3,000	7,200	968,200	3,700	5,100	90,000	1,139,200	10,000	23,100	33,100
87	12,700	51,400	3,000	7,500	1,023,500	4,000	5,200	93,900	1,201,200	12,500	28,800	41,300
88	12,700	53,500	3,000	7,800	1,074,600	4,000	5,400	97,800	1,258,800	15,500	35,800	51,300
89	12,700	55,600	3,000	8,200	1,112,300	4,000	5,600	101,700	1,303,100	20,000	46,100	66,100
1990	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
91	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
92	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
93	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
94	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
95	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
96	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
97	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
98	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
99	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
2000	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
01	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
02	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
03	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
04	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
05	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
06	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
07	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
08	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
09	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
2010	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
11	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
12	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
13	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
14	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
15	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
2016 (d	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700

TABLE B-4

ANNUAL ENTITLEMENTS TO PROJECT WATER[a]

(in acre-feet)

5/6/69

Sheet 3 of 3

Calendar Year	Southern California Area														Total State Water Project
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	
	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,538
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	191,500
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	267,395
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	322,600
71	0	0	0	0	0	0	0	0	0	0	70,000	1,600	0	71,600	447,190
72	20,000	5,200	580	8,000	170	8,400	1,620	46,000	10,600	0	254,200	3,700	0	358,470	822,740
73	25,000	5,800	870	9,000	290	10,700	2,940	48,000	11,500	0	354,600	5,700	0	474,400	986,700
74	30,000	6,400	1,160	10,000	400	13,100	4,260	50,000	12,300	0	454,900	7,500	0	590,020	1,148,450
75	35,000	7,000	1,450	11,000	520	15,400	5,580	52,500	13,100	0	555,200	9,500	0	706,250	1,313,260
76	44,000	7,600	1,740	12,000	640	17,800	6,900	55,000	14,000	0	655,600	11,400	0	826,680	1,490,770
77	50,000	8,421	2,030	13,000	730	20,200	8,220	57,500	14,800	0	755,900	13,400	0	944,201	1,669,321
78	57,000	9,242	2,320	14,000	920	22,500	9,340	60,000	15,700	0	856,300	15,300	0	1,062,622	1,847,772
79	63,000	10,063	2,610	15,000	1,040	24,900	10,260	62,500	16,600	0	956,600	17,700	0	1,180,273	2,023,953
1980	69,200	10,884	2,900	17,000	1,150	27,200	11,180	65,500	17,400	6,800	1,057,000	20,100	1,000	1,307,314	2,233,274
81	75,000	12,105	3,190	19,000	1,270	29,600	11,700	68,500	18,300	7,800	1,157,300	22,100	2,000	1,427,865	2,428,805
82	81,300	13,326	3,480	21,000	1,380	31,900	12,320	71,500	19,100	8,800	1,257,600	24,600	3,000	1,549,306	2,620,976
83	87,700	14,547	3,770	23,000	1,500	34,300	12,940	74,500	19,900	9,800	1,358,000	26,900	4,000	1,670,857	2,818,907
84	94,000	15,768	4,060	25,000	1,610	36,700	13,560	78,000	20,700	10,800	1,458,300	29,100	5,000	1,792,598	3,014,728
85	100,400	16,989	4,350	27,000	1,730	39,000	14,180	81,500	21,800	11,800	1,558,700	30,900	6,000	1,914,349	3,215,859
86	106,700	18,210	4,640	29,000	1,840	41,400	14,800	85,000	23,200	12,900	1,659,300	32,900	8,000	2,037,890	3,416,980
87	113,000	19,431	4,930	31,500	1,960	43,700	15,420	89,000	24,600	14,000	1,759,800	35,300	10,000	2,162,641	3,622,061
88	119,400	20,652	5,220	34,000	2,070	46,000	16,040	93,000	26,000	15,100	1,860,400	37,400	13,000	2,288,282	3,829,942
89	125,700	21,873	5,510	36,500	2,190	48,500	16,660	97,000	27,400	16,200	1,961,000	39,300	16,000	2,413,833	4,031,833
1990	132,100	23,100	5,800	38,100	2,300	50,800	17,300	101,500	28,800	17,300	2,011,500	41,500	20,000	2,490,100	4,193,840
91	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,206,780
92	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,212,320
93	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,217,860
94	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,222,500
95	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,224,550
96	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,226,600
97	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,650
98	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,700
99	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,750
2000	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,810
01	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,870
02	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,930
03	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,990
04	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,050
05	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,110
06	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,180
07	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,250
08	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,320
09	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,390
2010	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,460
11	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,540
12	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,620
13	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,710
14	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,710
15	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,900
2016(d	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,230,000

ANNUAL QUANTITIES DELIVERED FROM EACH AQUEDUCT REACH TO EACH CONTRACTOR

(in acre-feet)

Sheet 1 of 3

Calendar Year	NORTH BAY AQUEDUCT		TOTAL NORTH BAY AQUEDUCT (a	SOUTH BAY AQUEDUCT									TOTAL SOUTH BAY AQUEDUCT
	Reach 2	Reach 3		Reach 1		Reach 2	Reach 4	Reach 5	Reach 6	Reach 7	Reach 8	Reach 9	
	SC FC&WCD	NC FC&WCD(a		AC FC&WCD	ACWD	AC FC&WCD	AC FC&WCD	AC FC&WCD	AC FC&WCD	ACWD	ACWD	SCC FC&WD	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1962	0	0	0	141	8,412	353	0	0	0	0	0	0	8,906
1963	0	0	0	814	10,914	917	0	0	0	0	0	0	12,645
1964	0	0	0	248	19,238	1,425	0	0	0	0	0	0	20,911
1965	0	0	0	637	15,280	1,830	138	0	0	1,127	0	15,014	34,026
1966	0	0	0	2,475	0	2,537	499	0	0	14,864	0	34,538	54,913
1967	0	0	0	1,527	0	2,391	862	0	0	12,882	0	39,101	56,763
1968	0	1,214	1,214	1,608	0	3,799	721	5	0	24,817	0	70,105	101,055
1969	0	4,070	4,070	2,785	0	3,502	1,773	140	0	15,500	0	75,000	98,700
1970	0	4,023	4,023	2,785	0	3,631	3,444	140	0	16,200	0	88,000	114,200
1971	0	4,506	4,506	2,785	0	3,903	4,372	140	0	12,000	5,000	88,000	116,200
1972	0	4,805	4,805	2,785	0	4,253	5,222	140	0	12,900	5,000	88,000	118,300
1973	0	5,135	5,135	2,785	0	4,595	6,080	140	0	13,800	5,000	88,000	120,400
1974	0	6,116	6,116	2,785	0	4,950	4,875	140	2,050	14,600	5,000	88,000	122,400
1975	0	7,700	7,700	0	0	10,500	0	0	5,500	17,500	3,000	88,000	124,500
1976	0	8,600	8,600	0	0	10,700	0	0	6,500	17,800	3,500	88,000	126,500
1977	0	9,600	9,600	0	0	10,900	0	0	7,500	18,200	4,000	88,000	128,600
1978	0	10,500	10,500	0	0	11,200	0	0	8,400	18,600	4,500	88,000	130,700
1979	0	11,500	11,500	0	0	11,500	0	0	9,300	18,900	5,000	88,000	132,700
1980	6,750	12,500	19,250	0	0	11,900	0	0	10,100	19,800	5,000	88,000	134,800
1981	8,000	13,750	21,750	0	0	12,200	0	0	10,800	21,000	5,000	88,000	137,000
1982	9,400	15,000	24,400	0	0	12,400	0	0	11,600	22,200	5,000	88,000	139,200
1983	10,800	16,250	27,050	0	0	12,600	0	0	12,400	23,400	5,000	88,000	141,400
1984	12,100	17,500	29,600	0	0	12,800	0	0	13,200	24,600	5,000	88,000	143,600
1985	14,000	18,750	32,750	0	0	13,000	0	0	14,000	25,800	5,000	88,000	145,800
1986	16,500	20,000	36,500	0	0	13,200	0	0	14,800	27,100	5,000	88,000	148,100
1987	20,000	21,250	41,250	0	0	13,400	0	0	15,600	28,300	5,000	88,000	150,300
1988	27,000	22,500	49,500	0	0	13,600	0	0	16,400	29,500	5,000	88,000	152,500
1989	34,500	23,750	58,250	0	0	13,800	0	0	17,200	30,700	5,000	90,000	156,700
1990	37,800 (b	25,000	62,800	0	0	14,000	0	0	18,000	31,900	5,000	92,000	160,900
1991	37,800	25,000	62,800	0	0	14,200	0	0	19,800	33,400	5,000	94,000	166,400
1992	37,800	25,000	62,800	0	0	14,400	0	0	21,600	34,900	5,000	96,000	171,900
1993	37,800	25,000	62,800	0	0	14,700	0	0	23,300	36,400	5,000	98,000	177,400
1994	37,800	25,000	62,800	0	0	15,000	0	0	25,000	37,000	5,000	100,000	182,000
1995	37,800	25,000	62,800	0	0	15,300	0	0	26,700	37,000	5,000	100,000	184,000
1996	37,800	25,000	62,800	0	0	16,000	0	0	28,000	37,000	5,000	100,000	186,000
1997	37,800	25,000	62,800	0	0	17,000	0	0	29,000	37,000	5,000	100,000	188,000
1998	37,800	25,000	62,800	0	0	17,000	0	0	29,000	37,000	5,000	100,000	188,000
1999	37,800	25,000	62,800	0	0	17,000	0	0	29,000	37,000	5,000	100,000	188,000
2000 (c	37,800	25,000	62,800	0	0	17,000	0	0	29,000	37,000	5,000	100,000	188,000

a) Between 1968 and 1979, inclusive, annual quantities delivered are nonproject water pumped thru an interim facility.

b) Solano County Flood Control and Water Conservation District (SCFC & WCD) has contracted for 42,000 acre-feet maximum annually, of which 4,200 acre-feet will be diverted directly from the Delta thru the District's facilities.

c) And thereafter for the remainder of the project repayment period.

ANNUAL QUANTITIES DELIVERED FROM EACH AQUEDUCT REACH TO EACH CONTRACTOR

(in acre-feet)

Calendar Year	CALIFORNIA AQUEDUCT												
	NORTH SAN JOAQUIN DIVISION	SOUTH SAN JOAQUIN DIVISION											
	Reach 2A	Reach 8C			Reach 8D			Reach 9	Reach 10A	Reach 11B	Reach 12D	Reach 12E	
	OFWD	EWSID	KC	TLBWSD	TLBWSD	HWD	DRWD	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (M&I)
	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)
1968	3,084	1,978	900	25,100	0	0	26,360	30,951	0	24,776	0	0	0
1969	2,500	3,000	1,200	33,950	10,000	2,400	14,325	29,576	0	35,821	0	0	0
1970	2,600	3,000	1,300	22,260	9,540	2,500	15,700	39,754	300	48,063	0	1,100	0
1971	2,800	3,000	1,300	23,940	10,260	2,300	17,900	41,700	9,100	48,500	0	3,500	22,100
1972	2,900	3,000	1,400	25,690	11,010	2,600	20,000	42,500	23,500	49,500	0	9,500	24,500
1973	3,100	3,000	1,500	27,370	11,730	2,900	22,000	50,100	41,800	58,100	0	9,600	28,000
1974	3,200	3,000	1,500	30,100	12,900	3,300	24,100	70,200	28,300	77,900	1,700	6,700	31,400
1975	3,400	3,000	1,600	26,030	20,870	3,600	26,200	76,100	35,200	83,200	2,400	7,800	35,000
1976	3,500	3,000	1,600	28,194	22,606	3,900	28,300	82,700	43,900	90,700	2,400	9,700	37,300
1977	3,700	3,000	1,700	30,414	24,386	4,200	30,400	88,300	54,600	97,300	2,400	12,300	40,800
1978	3,900	3,000	1,900	32,578	26,122	4,600	32,500	94,600	64,800	104,600	2,400	14,600	43,100
1979	4,000	3,000	2,000	34,743	27,857	4,900	34,600	100,600	74,700	111,600	2,400	17,000	45,400
1980	4,200	3,000	2,200	36,908	29,592	5,200	36,700	100,600	91,200	118,000	2,400	19,500	47,700
1981	4,300	3,000	2,300	39,072	31,328	5,600	38,800	100,600	110,300	124,700	2,400	22,500	50,200
1982	4,500	3,000	2,500	41,236	33,064	5,900	41,000	100,600	127,800	130,800	2,400	25,400	53,600
1983	4,600	3,000	2,800	43,401	34,799	6,200	42,900	100,600	148,200	135,600	2,400	29,100	56,000
1984	4,800	3,000	3,100	45,566	36,534	6,500	45,100	100,600	166,500	141,300	2,400	32,100	59,400
1985	4,900	3,000	3,400	47,730	38,270	6,900	47,200	100,600	184,900	145,400	2,400	35,500	62,900
1986	5,100	3,000	3,700	49,950	40,050	7,200	49,300	100,600	202,500	150,000	2,400	38,600	65,300
1987	5,200	3,000	4,000	52,114	41,786	7,500	51,400	100,600	221,400	153,300	2,400	42,200	68,800
1988	5,400	3,000	4,000	54,279	43,521	7,800	53,500	101,800	237,700	155,800	2,400	45,800	71,200
1989	5,600	3,000	4,000	56,444	45,256	8,200	55,600	102,500	249,700	157,200	2,400	48,300	73,500
1990 (c	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000

Calendar Year	CALIFORNIA AQUEDUCT (continued)												
	SOUTH SAN JOAQUIN DIVISION (continued)									TEHACHAPI DIVISION	MOJAVE DIVISION		
	Reach 13B		Reach 14A		Reach 14B	Reach 14C	Reach 15A	Reach 16A		Reach 17E	Reach 19	Reach 20A	Reach 20B
	KCWA (Ag.)	KCWA (M&I)	KCWA (Ag.)	KCWA (M&I)	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (M&I)	KCWA (M&I)	AVEKWA	AVEKWA	PID
	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)
1970	10,300	0	1,357	0	3,118	1,495	318	0	0	0	0	0	0
1971	14,700	0	3,612	0	7,952	3,850	1,486	30	2,500	70	0	0	0
1972	25,300	0	9,217	0	20,114	9,665	20,637	1,567	2,700	200	0	16,400	1,620
1973	26,900	0	13,400	0	20,300	7,900	13,500	100	2,800	500	0	19,700	2,940
1974	12,400	3,600	9,600	9,400	16,700	9,200	13,700	0	3,000	600	0	23,200	4,260
1975	16,400	13,800	11,300	0	18,100	9,800	17,400	100	3,200	700	17,600	11,900	5,580
1976	18,000	14,500	15,600	0	20,700	10,700	20,300	200	3,500	800	22,200	14,900	6,900
1977	22,300	15,200	20,100	0	25,200	11,800	22,500	200	3,800	800	25,200	17,000	8,220
1978	26,300	16,000	22,900	0	28,500	12,800	24,200	3,700	4,100	900	28,600	19,500	9,340
1979	30,400	16,800	24,800	0	31,200	13,600	25,700	9,000	4,400	1,000	31,700	21,400	10,260
1980	35,000	17,500	26,700	0	34,300	14,400	27,400	14,500	4,800	1,100	34,800	23,500	11,180
1981	39,900	18,200	29,000	0	40,800	15,400	29,100	18,100	5,200	1,200	37,700	25,500	11,700
1982	44,600	19,000	30,900	0	45,200	17,500	30,800	22,000	5,700	1,300	40,900	27,600	12,320
1983	51,000	19,800	34,300	0	49,800	21,500	33,200	25,100	6,300	1,400	44,100	29,800	12,940
1984	56,000	20,500	36,500	0	52,200	24,700	35,100	30,100	7,200	1,500	47,200	32,100	13,560
1985	61,800	21,200	39,100	0	57,000	26,600	38,100	32,600	8,200	1,600	50,400	34,300	14,180
1986	67,400	22,000	41,200	0	61,500	28,800	41,200	35,500	9,400	1,700	53,700	36,200	14,800
1987	72,900	22,800	43,800	0	66,300	31,100	44,500	38,700	10,700	1,800	56,900	38,400	15,420
1988	78,800	23,500	46,300	0	70,600	33,500	47,600	41,800	12,300	1,900	60,100	40,600	16,040
1989	83,100	24,200	48,300	0	73,900	34,900	50,000	44,100	13,600	1,900	63,200	42,700	16,660
1990	87,500	25,000	50,300	0	76,700	36,400	52,100	46,700	15,000	2,000	66,400	45,000	17,300
1991 (c	87,500	25,000	50,300	0	76,700	36,400	52,100	46,700	15,000	2,000	69,600	47,100	17,300

ANNUAL QUANTITIES DELIVERED FROM EACH AQUEDUCT REACH TO EACH CONTRACTOR

(in acre-feet)

Calendar Year	CALIFORNIA AQUEDUCT (continued)													
	MOJAVE DIVISION (continued)							SANTA ANA DIVISION						
	Reach 21		Reach 22A	Reach 22B				Reach 24	Reach 25	Reach 26A			Reach 28G	Reach 28J
	AVEKWA	LCID	AVEKWA	MWD-SC(d	MWA	CVCWD(d	DWA(d	CLAWA	SGPWA	SGVMWD	MWD-SC	SBVMWD	SBVMWD	MWD-SC
	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)
1972	1,431	170	1,500	-13,200	8,400	5,200	8,000	580	0	10,600	0	43,525	2,475	74,400
1973	2,000	290	2,200	-14,800	10,700	5,800	9,000	870	0	11,500	0	45,405	2,595	125,000
1974	2,000	400	3,000	-16,400	13,100	6,400	10,000	1,160	0	12,300	0	46,100	3,900	159,700
1975	2,700	520	2,800	-18,000	15,400	7,000	11,000	1,450	0	13,100	0	45,000	7,500	123,200
1976	3,500	640	3,400	-19,600	17,800	7,600	12,000	1,740	0	14,000	0	46,000	9,000	150,200
1977	3,900	730	3,900	-21,421	20,200	8,421	13,000	2,030	0	14,800	0	47,000	10,500	177,321
1978	4,500	920	4,400	-23,242	22,500	9,242	14,000	2,320	0	15,700	0	47,900	12,100	204,542
1979	4,900	1,040	5,000	-25,063	24,900	10,063	15,000	2,610	0	16,500	0	48,800	13,700	231,663
1980	5,500	1,150	5,400	-27,884	27,200	10,884	17,000	2,900	6,800	17,400	0	51,500	13,700	259,884
1981	5,900	1,270	5,900	-31,105	29,600	12,105	19,000	3,190	7,800	18,300	15,905	54,500	13,700	272,500
1982	6,400	1,380	6,400	-34,326	31,900	13,326	21,000	3,480	8,800	19,100	69,426	57,500	13,700	272,500
1983	6,900	1,500	6,900	-37,547	34,300	14,547	23,000	3,770	9,800	19,900	123,047	60,800	13,700	272,500
1984	7,300	1,610	7,400	-40,768	36,700	15,768	25,000	4,060	10,800	20,700	176,568	64,300	13,700	272,500
1985	7,900	1,730	7,800	-43,989	39,000	16,989	27,000	4,350	11,800	21,800	230,189	67,900	13,700	272,500
1986	8,400	1,840	8,400	-47,210	41,400	18,210	29,000	4,640	12,900	23,200	284,000	71,300	13,700	272,500
1987	8,900	1,960	8,800	-50,931	43,700	19,431	31,500	4,930	14,000	24,600	284,000	75,300	13,700	272,500
1988	9,300	2,070	9,400	-54,652	46,000	20,652	34,000	5,220	15,100	26,000	284,000	79,300	13,700	272,500
1989	9,900	2,190	9,900	-58,373	48,500	21,873	36,500	5,510	16,200	27,400	284,000	83,300	13,700	272,500
1990	10,300	2,300	10,400	0	50,800	23,100	38,100	5,800	17,300	28,800	284,000	87,800	13,700	272,500
1991(c	10,800	2,300	10,900	0	50,800	23,100	38,100	5,900	17,300	28,800	284,000	88,900	13,700	272,500

Calendar Year	CALIFORNIA AQUEDUCT (continued)										TOTAL CALIFORNIA AQUEDUCT
	WEST BRANCH, CALIFORNIA AQUEDUCT				COASTAL BRANCH, CALIFORNIA AQUEDUCT						
	Reach 29F	Reach 30			Reach 31A		Reach 33A	Reach 34	Reach 35		
	AVEKWA	USCVWA	VCFCD	MWD-SC	DDWD	KCWA (Ag.)	SLOC FC&WCD	SLOC FC&WCD	SLOC FC&WCD	SBC FC&WCD	
	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)	(64)
1962	0	0	0	0	0	0	0	0	0	0	8,906
1963	0	0	0	0	0	0	0	0	0	0	12,645
1964	0	0	0	0	0	0	0	0	0	0	20,911
1965	0	0	0	0	0	0	0	0	0	0	34,026
1966	0	0	0	0	0	0	0	0	0	0	54,913
1967	0	0	0	0	0	0	0	0	0	0	45,225
1968	0	0	0	0	7,382	71,657	0	0	0	0	192,188
1969	0	0	0	0	5,000	30,303	0	0	0	0	168,075
1970	0	0	0	0	5,700	39,295	0	0	0	0	207,700
1971	0	1,600	0	70,000	6,700	31,200	0	0	0	0	330,100
1972	669	3,700	0	193,000	7,700	31,800	0	0	0	0	703,470
1973	1,100	5,700	0	244,400	8,700	37,500	0	0	0	0	865,200
1974	1,800	7,500	0	311,600	9,700	52,600	0	0	0	0	1,024,820
1975	0	9,500	0	450,000	10,700	57,000	0	0	0	0	1,187,150
1976	0	11,400	0	525,000	11,700	61,800	0	0	0	0	1,362,280
1977	0	13,400	0	600,000	12,700	66,000	0	0	0	0	1,538,301
1978	0	15,300	0	675,000	12,700	70,800	0	0	0	0	1,714,222
1979	0	17,700	0	750,000	12,700	75,300	0	0	0	0	1,887,973
1980	0	20,100	1,000	825,000	12,700	79,400	400	200	400	1,200	2,074,514
1981	0	22,100	2,000	900,000	12,700	83,800	400	200	400	2,300	2,259,665
1982	0	24,600	3,000	950,000	12,700	87,700	800	400	800	4,600	2,445,106
1983	0	26,900	4,000	1,000,000	12,700	90,800	1,200	600	1,200	6,900	2,636,257
1984	0	29,100	5,000	1,050,000	12,700	94,500	1,800	900	1,800	10,400	2,825,398
1985	0	30,900	6,000	1,100,000	12,700	97,100	3,000	1,500	3,000	17,300	3,018,249
1986	0	32,900	8,000	1,150,010	12,700	100,100	4,000	2,000	4,000	23,100	3,210,140
1987	0	35,300	10,000	1,254,231	12,700	102,200	5,000	2,500	5,000	28,800	3,405,141
1988	0	37,400	13,000	1,358,552	12,700	103,800	6,200	3,100	6,200	35,800	3,598,382
1989	0	39,300	16,000	1,462,873	12,700	104,700	8,000	4,000	8,000	46,100	3,783,033
1990	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,927,800
1991(c	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,935,200

d) In accordance with the Exchange Agreement between the noted agencies, Metropolitan Water District assumes responsibility for repayment of variable OMP&R costs on the exchange water in reaches beyong Reach 22B, and Desert Water Agency and Coachella Valley County Water District for such costs from the Delta through Reach 22B. The adjustment in deliveries shown in Column 43 provides for compliance with the repayment provisions of the Agreement.

ANNUAL QUANTITIES CONVEYED THRU EACH PUMPING AND POWER RECOVERY PLANT OF PROJECT TRANSPORTATION FACILITIES

(in acre-feet)

Calendar Year	NORTH BAY AQUEDUCT								SOUTH BAY AQUEDUCT			
	CALHOUN PUMPING PLANT				CORDELIA PUMPING PLANT				SOUTH BAY PUMPING PLANT			
	Initial Fill Water	Operational Losses	Water Supply Delivery	Total	Initial Fill Water	Operational Losses	Water Supply Delivery(a	Total	Initial Fill Water	Operational Losses	Water Supply Delivery	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1962	0	0	0	0	0	0	0	0	9	272	8,906	9,187
1963	0	0	0	0	0	0	0	0	71	185	12,645	12,901
1964	0	0	0	0	0	0	0	0	171	152	20,911	21,234
1965	0	0	0	0	0	0	0	0	93	729	34,026	34,848
1966	0	0	0	0	0	0	0	0	0	1,746	54,913	56,659
1967	0	0	0	0	0	0	0	0	0	1,677	56,763	58,440
1968	0	0	0	0	24	-10(b	1,214	1,228	0	1,847	101,055	102,902
1969	0	0	0	0	0	0	4,070	4,070	0	4,730	98,700	103,430
1970	0	0	0	0	0	0	4,023	4,023	0	4,730	114,200	118,930
1971	0	0	0	0	0	0	4,506	4,506	0	4,730	116,200	120,930
1972	0	0	0	0	0	0	4,805	4,805	0	4,730	118,300	123,030
1973	0	0	0	0	0	0	5,135	5,135	0	4,730	120,400	125,130
1974	0	0	0	0	0	0	6,116	6,116	0	4,730	122,400	127,130
1975	0	0	0	0	0	0	7,700	7,700	0	4,730	124,500	129,230
1976	0	0	0	0	0	0	8,600	8,600	0	4,730	126,500	131,230
1977	0	0	0	0	0	0	9,600	9,600	0	4,730	128,600	133,330
1978	0	0	0	0	0	0	10,500	10,500	0	4,730	130,700	135,430
1979	0	0	0	0	0	0	11,500	11,500	0	4,730	132,700	137,430
1980	120	1,400	19,250	20,770	0	0	12,500	12,500	0	4,730	134,800	139,530
1981	0	1,400	21,750	23,150	0	0	13,750	13,750	0	4,730	137,000	141,730
1982	0	1,400	24,400	25,800	0	0	15,000	15,000	0	4,730	139,200	143,930
1983	0	1,400	27,050	28,450	0	0	16,250	16,250	0	4,730	141,400	146,130
1984	0	1,400	29,600	31,000	0	0	17,500	17,500	0	4,730	143,600	148,330
1985	0	1,400	32,750	34,150	0	0	18,750	18,750	0	4,730	145,800	150,530
1986	0	1,400	36,500	37,900	0	0	20,000	20,000	0	4,730	148,100	152,830
1987	0	1,400	41,250	42,650	0	0	21,250	21,250	0	4,730	150,300	155,030
1988	0	1,400	49,500	50,900	0	0	22,500	22,500	0	4,730	152,500	157,230
1989	0	1,400	58,250	59,650	0	0	23,750	23,750	0	4,730	156,700	161,430
1990	0	1,400	62,800	64,200	0	0	25,000	25,000	0	4,730	160,900	165,630
1991	0	1,400	62,800	64,200	0	0	25,000	25,000	0	4,730	166,400	171,130
1992	0	1,400	62,800	64,200	0	0	25,000	25,000	0	4,730	171,900	176,630
1993	0	1,400	62,800	64,200	0	0	25,000	25,000	0	4,730	177,400	182,130
1994	0	1,400	62,800	64,200	0	0	25,000	25,000	0	4,730	182,000	186,730
1995	0	1,400	62,800	64,200	0	0	25,000	25,000	0	4,730	184,000	188,730
1996	0	1,400	62,800	64,200	0	0	25,000	25,000	0	4,730	186,000	190,730
1997	0	1,400	62,800	64,200	0	0	25,000	25,000	0	4,730	188,000	192,730
1998	0	1,400	62,800	64,200	0	0	25,000	25,000	0	4,730	188,000	192,730
1999	0	1,400	62,800	64,200	0	0	25,000	25,000	0	4,730	188,000	192,730
2000 (c	0	1,400	62,800	64,200	0	0	25,000	25,000	0	4,730	188,000	192,730

a) Between 1968 and 1979 inclusive, annual quantities delivered are nonproject water pumped through an interim facility.

b) Net result of operational losses and decrease in storage in the terminal facilities.

c) And each year thereafter for the remainder of the project repayment period.

ANNUAL QUANTITIES CONVEYED THRU EACH PUMPING AND POWER RECOVERY PLANT OF PROJECT TRANSPORTATION FACILITIES

(in acre-feet)

Calendar Year	CALIFORNIA AQUEDUCT													
	NORTH SAN JOAQUIN DIVISION								SAN LUIS DIVISION					
	DELTA PUMPING PLANT								DOS AMIGOS PUMPING PLANT					
	Transportation Water						Conservation Water (e	Total						
	Initial Fill Water	Operational Losses	Deliveries			Total			Initial Fill Water	Operational Losses	Deliveries			Total
			Water Supply (d	Reservoir Storage Changes (d	Recreation						Water Supply (d	Reservoir Storage Changes (d	Recreation	
	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	5,746	1,183	11,538	0	0	18,467	2,957	21,424	0	0	0	0	0	0
1968	11,079	71,024	293,243	0	0	375,346	544,026	919,372	11,079	24,726	189,104	0	0	224,909
1969	6,808	95,689	266,775	0	0	369,272	548,122	917,394	6,808	60,681	165,575	0	0	233,064
1970	9,898	124,990	321,900	0	0	456,788	115,122	571,910	9,898	89,982	205,100	0	0	304,980
1971	102,182	142,563	446,300	0	9,500	700,545	39,122	739,667	102,182	107,555	327,300	0	9,500	546,537
1972	169,169	166,786	821,770	0	23,500	1,181,225	-136,878	1,044,347	169,169	131,778	700,570	0	23,500	1,025,017
1973	241,947	179,779	985,600	-20,791	29,500	1,416,035	-175,878	1,240,157	241,947	144,771	862,100	-20,791	29,500	1,257,527
1974	176,407	192,511	1,147,220	-45,498	29,500	1,500,140	-165,878	1,334,262	176,407	157,503	1,021,620	-45,498	29,500	1,339,532
1975	0	195,510	1,311,650	34,810	29,500	1,571,470	-68,878	1,502,592	0	160,502	1,183,750	34,810	29,500	1,408,562
1976	16,824	194,881	1,488,780	-91,526	29,500	1,638,459	-16,878	1,621,581	16,824	159,873	1,358,780	-91,526	29,500	1,473,451
1977	0	193,842	1,666,901	-11,999	29,500	1,878,244	-176,878	1,701,366	0	158,834	1,534,601	-11,999	29,500	1,710,936
1978	0	193,908	1,844,922	8,485	29,500	2,076,815	71,122	2,147,937	0	158,900	1,710,322	8,485	29,500	1,907,207
1979	0	193,904	2,020,673	-2,533	29,500	2,241,544	15,122	2,256,666	0	158,896	1,883,973	-2,533	29,500	2,069,836
1980	200	196,033	2,209,314	11,747	45,500	2,462,794	-71,878	2,390,916	200	161,025	2,070,314	11,747	45,500	2,288,786
1981	0	196,497	2,396,665	-6,532	45,500	2,632,130	-2,878	2,629,252	0	161,489	2,255,365	-6,532	45,500	2,455,822
1982	0	195,958	2,584,306	-30,421	45,500	2,795,343	41,122	2,836,465	0	160,950	2,440,606	-30,421	45,500	2,616,635
1983	0	195,886	2,777,657	7,289	45,500	3,026,332	-52,878	2,973,454	0	160,878	2,631,657	7,289	45,500	2,845,324
1984	0	194,580	2,968,998	-95,199	45,500	3,113,879	47,122	3,161,001	0	159,572	2,820,598	-95,199	45,500	2,930,471
1985	0	193,841	3,164,049	29,835	45,500	3,433,225	-117,878	3,315,347	0	158,833	3,013,349	29,835	45,500	3,247,517
1986	0	194,189	3,358,290	-9,953	45,500	3,588,026	56,122	3,644,148	0	159,181	3,205,090	-9,953	45,500	3,399,818
1987	0	194,465	3,555,441	32,128	45,500	3,827,534	56,122	3,883,656	0	159,457	3,399,941	32,128	45,500	3,637,026
1988	0	194,659	3,750,882	-33,328	45,500	3,957,713	56,122	4,013,835	0	159,651	3,592,982	-33,328	45,500	3,764,805
1989	0	194,354	3,939,733	-299	45,500	4,179,288	56,122	4,235,410	0	159,346	3,777,433	-299	45,500	3,981,980
1990	0	194,625	4,088,700	780	45,500	4,329,605	56,122	4,385,727	0	159,617	3,922,100	780	45,500	4,127,997
1991	0	193,724	4,101,600	1,718	45,500	4,342,542	56,122	4,398,664	0	158,716	3,929,500	1,718	45,500	4,135,434
1992	0	193,724	4,107,100	0	45,500	4,346,324	56,122	4,402,446	0	158,716	3,929,500	0	45,500	4,133,716
1993	0	193,724	4,112,600	0	45,500	4,351,824	56,122	4,407,946	0	158,716	3,929,500	0	45,500	4,138,716
1994	0	193,724	4,117,200	0	45,500	4,356,424	56,122	4,412,546	0	158,716	3,929,500	0	45,500	4,133,716
1995	0	193,724	4,119,200	0	45,500	4,358,424	56,122	4,414,546	0	158,716	3,929,500	0	45,500	4,133,716
1996	0	193,724	4,121,200	0	45,500	4,360,424	56,122	4,416,546	0	158,716	3,929,500	0	45,500	4,133,716
1997	0	193,724	4,123,200	0	45,500	4,362,424	56,122	4,418,546	0	158,716	3,929,500	0	45,500	4,133,716
1998	0	193,724	4,123,200	0	45,500	4,362,424	56,122	4,418,546	0	158,716	3,929,500	0	45,500	4,133,716
1999	0	193,724	4,123,200	0	45,500	4,362,424	56,122	4,418,546	0	158,716	3,929,500	0	45,500	4,133,716
2000 (c	0	193,724	4,123,200	0	45,500	4,362,424	56,122	4,418,546	0	158,716	3,929,500	0	45,500	4,133,716

d) The values shown in these columns include certain hypothetical quantities to facilitate allocation computations:

- "Reservoir Storage Changes" include projected net annual storage accretions (positive values) and withdrawals (negative values) for reservoirs included in the project transportation facilities. For simplification, annual storage is assumed not to change after 1991.
- "Deliveries, Water Supply", in years of storage withdrawals from such reservoirs, the net amounts withdrawn are assumed to be conveyed thru upstream plants. These hypothetical increases in conveyance are offset by proportionate hypothetical increases in the total variable OMP&R costs of such plants (Table B-3). The increases enable proper allocation of costs for reimbursement thru the variable OMP&R component of the Transportation Charge (Table B-12) in order that the unit variable OMP&R component (Table B-17) may be applied to total annual quantities delivered thru contractor turnouts.
- "Conservation Water" includes initial fill water, operational losses, and reservoir storage changes associated with project conservation facilities. The same allocation procedure outlined above for storage withdrawals from transportation facilities applies to conservation facilities -- except that the hypothetical cost increases are added to those to be reimbursed thru the variable OMP&R component of the Transportation Charge, and deducted from those to be reimbursed thru the minimum OMP&R component of the Delta Water Charge.

e) Consists of initial fill water, operational losses, and reservoir storage changes of project conservation facilities from the Delta through San Luis Reservoir.

ANNUAL QUANTITIES CONVEYED THRU EACH PUMPING AND POWER RECOVERY PLANT OF PROJECT TRANSPORTATION FACILITIES

(in acre-feet)

Calendar Year	CALIFORNIA AQUEDUCT (Continued)											
	SOUTH SAN JOAQUIN DIVISION											
	BUENA VISTA PUMPING PLANT						WHEELER RIDGE PUMPING PLANT					
	Initial Fill Water	Operational Losses	Deliveries			Total	Initial Fill Water	Operational Losses	Deliveries			Total
			Water Supply (d	Reservoir Storage Changes (d	Recreation				Water Supply (d	Reservoir Storage Changes (d	Recreation	
	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)
1962	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0
1970	9,898	15,882	6,288	0	0	32,068	2,275	2,621	318	0	0	5,214
1971	102,182	33,455	91,100	0	0	226,737	102,182	20,655	75,686	0	0	198,523
1972	169,169	57,678	422,570	0	14,000	663,417	169,169	44,878	383,574	0	14,000	611,621
1973	241,947	70,671	532,900	-20,791	20,000	844,727	241,947	57,871	491,300	-20,791	20,000	790,327
1974	176,407	83,403	652,220	-45,498	20,000	886,532	176,407	70,603	607,320	-45,498	20,000	828,832
1975	0	86,402	766,850	34,810	20,000	908,062	0	73,602	727,650	34,810	20,000	856,062
1976	16,824	85,773	898,480	-91,526	20,000	929,551	16,824	72,973	851,480	-91,526	20,000	869,751
1977	0	84,734	1,028,601	-11,999	20,000	1,121,336	0	71,934	971,501	-11,999	20,000	1,051,436
1978	0	84,800	1,159,722	8,485	20,000	1,273,007	0	72,000	1,095,522	8,485	20,000	1,196,007
1979	0	84,796	1,289,973	-2,533	20,000	1,392,236	0	71,996	1,220,373	-2,533	20,000	1,309,836
1980	0	84,725	1,430,514	11,747	20,000	1,546,986	0	71,925	1,355,114	11,747	20,000	1,458,786
1981	0	85,189	1,566,665	-6,532	20,000	1,665,322	0	72,389	1,481,465	-6,532	20,000	1,567,322
1982	0	84,650	1,702,706	-30,421	20,000	1,776,935	0	71,850	1,609,106	-30,421	20,000	1,670,535
1983	0	84,578	1,842,457	7,289	20,000	1,954,324	0	71,778	1,736,857	7,289	20,000	1,835,924
1984	0	83,272	1,979,898	-95,199	20,000	1,987,971	0	70,472	1,866,498	-95,199	20,000	1,861,771
1985	0	82,533	2,117,549	29,835	20,000	2,249,917	0	69,733	1,994,849	29,835	20,000	2,114,417
1986	0	82,881	2,257,190	-9,953	20,000	2,350,118	0	70,081	2,125,690	-9,953	20,000	2,205,818
1987	0	83,157	2,399,541	32,128	20,000	2,534,826	0	70,357	2,258,341	32,128	20,000	2,380,826
1988	0	83,351	2,542,282	-33,328	20,000	2,612,305	0	70,551	2,391,882	-33,328	20,000	2,449,105
1989	0	83,046	2,680,533	-299	20,000	2,783,280	0	70,246	2,523,433	-299	20,000	2,613,380
1990	0	83,317	2,769,300	780	20,000	2,873,397	0	70,517	2,605,900	780	20,000	2,697,197
1991	0	82,416	2,776,700	1,718	20,000	2,880,834	0	69,616	2,613,300	1,718	20,000	2,704,634
1992	0	82,416	2,776,700	0	20,000	2,879,116	0	69,616	2,613,300	0	20,000	2,702,916
1993	0	82,416	2,776,700	0	20,000	2,879,116	0	69,616	2,613,300	0	20,000	2,702,916
1994	0	82,416	2,776,700	0	20,000	2,879,116	0	69,616	2,613,300	0	20,000	2,702,916
1995	0	82,416	2,776,700	0	20,000	2,879,116	0	69,616	2,613,300	0	20,000	2,702,916
1996	0	82,416	2,776,700	0	20,000	2,879,116	0	69,616	2,613,300	0	20,000	2,702,916
1997	0	82,416	2,776,700	0	20,000	2,879,116	0	69,616	2,613,300	0	20,000	2,702,916
1998	0	82,416	2,776,700	0	20,000	2,879,116	0	69,616	2,613,300	0	20,000	2,702,916
1999	0	82,416	2,776,700	0	20,000	2,879,116	0	69,616	2,613,300	0	20,000	2,702,916
2000 (e	0	82,416	2,776,700	0	20,000	2,879,116	0	69,616	2,613,300	0	20,000	2,702,916

ANNUAL QUANTITIES CONVEYED THRU EACH PUMPING AND POWER RECOVERY PLANT OF PROJECT TRANSPORTATION FACILITIES

(in acre-feet)

Calendar Year	CALIFORNIA AQUEDUCT (Continued)											
	SOUTH SAN JOAQUIN DIVISION (Continued)						TEHACHAPI DIVISION					
	WIND GAP PUMPING PLANT						A. D. EDMONSTON PUMPING PLANT					
	Initial Fill Water	Operational Losses	Deliveries			Total	Initial Fill Water	Operational Losses	Deliveries			Total
			Water Supply (d	Reservoir Storage Changes(d	Recreation				Water Supply (d	Reservoir Storage Changes (d	Recreation	
	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)
1962	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0
1970	1,963	2,208	0	0	0	4,171	0	0	0	0	0	0
1971	102,182	19,855	74,200	0	0	196,237	102,182	14,555	71,670	0	0	188,407
1972	169,169	44,078	362,937	0	14,000	590,184	169,169	38,778	358,670	0	14,000	580,617
1973	241,947	57,071	477,800	-20,791	20,000	776,027	241,947	51,771	474,900	-20,791	20,000	767,827
1974	176,407	69,803	593,620	-45,498	20,000	814,332	176,407	64,503	590,620	-45,498	20,000	806,032
1975	0	72,802	710,250	34,810	20,000	837,862	0	67,502	706,950	34,810	20,000	829,262
1976	16,824	72,173	831,180	-91,526	20,000	848,651	16,824	66,873	827,480	-91,526	20,000	839,651
1977	0	71,134	949,001	-11,999	20,000	1,028,136	0	65,834	945,001	-11,999	20,000	1,018,836
1978	0	71,200	1,071,322	8,485	20,000	1,171,007	0	65,900	1,063,522	8,485	20,000	1,157,907
1979	0	71,196	1,194,673	-2,533	20,000	1,283,336	0	65,896	1,181,273	-2,533	20,000	1,264,636
1980	0	71,125	1,327,714	11,747	20,000	1,430,586	0	65,825	1,308,414	11,747	20,000	1,405,986
1981	0	71,589	1,452,365	-6,532	20,000	1,537,422	0	66,289	1,429,065	-6,532	20,000	1,508,822
1982	0	71,050	1,578,306	-30,421	20,000	1,638,935	0	65,750	1,550,606	-30,421	20,000	1,605,935
1983	0	70,978	1,703,657	7,289	20,000	1,801,924	0	65,678	1,672,257	7,289	20,000	1,765,224
1984	0	69,672	1,831,398	-95,199	20,000	1,825,871	0	64,372	1,794,098	-95,199	20,000	1,783,271
1985	0	68,933	1,956,749	29,835	20,000	2,075,517	0	63,633	1,915,949	29,835	20,000	2,029,417
1986	0	69,281	2,084,490	-9,953	20,000	2,163,818	0	63,981	2,039,590	-9,953	20,000	2,113,618
1987	0	69,557	2,213,841	32,128	20,000	2,335,526	0	64,257	2,164,441	32,128	20,000	2,280,826
1988	0	69,751	2,344,282	-33,328	20,000	2,400,705	0	64,451	2,290,182	-33,328	20,000	2,341,305
1989	0	69,446	2,473,433	-299	20,000	2,562,580	0	64,146	2,415,733	-299	20,000	2,499,580
1990	0	69,717	2,553,800	780	20,000	2,644,297	0	64,417	2,492,100	780	20,000	2,577,297
1991	0	68,816	2,561,200	1,718	20,000	2,651,734	0	63,516	2,499,500	1,718	20,000	2,584,734
1992	0	68,816	2,561,200	0	20,000	2,650,016	0	63,516	2,499,500	0	20,000	2,583,016
1993	0	68,816	2,561,200	0	20,000	2,650,016	0	63,516	2,499,500	0	20,000	2,583,016
1994	0	68,816	2,561,200	0	20,000	2,650,016	0	63,516	2,499,500	0	20,000	2,583,016
1995	0	68,816	2,561,200	0	20,000	2,650,016	0	63,516	2,499,500	0	20,000	2,583,016
1996	0	68,816	2,561,200	0	20,000	2,650,016	0	63,516	2,499,500	0	20,000	2,583,016
1997	0	68,816	2,561,200	0	20,000	2,650,016	0	63,516	2,499,500	0	20,000	2,583,016
1998	0	68,816	2,561,200	0	20,000	2,650,016	0	63,516	2,499,500	0	20,000	2,583,016
1999	0	68,816	2,561,200	0	20,000	2,650,016	0	63,516	2,499,500	0	20,000	2,583,016
2000 (e	0	68,816	2,561,200	0	20,000	2,650,016	0	63,516	2,499,500	0	20,000	2,583,016

ANNUAL QUANTITIES CONVEYED THRU EACH PUMPING AND POWER RECOVERY PLANT OF PROJECT TRANSPORTATION FACILITIES

(in acre-feet)

Calendar Year	CALIFORNIA AQUEDUCT (Continued											
	MOJAVE DIVISION						SANTA ANA DIVISION					
	PEARBLOSSOM PUMPING PLANT						DEVIL CANYON POWERPLANT					
	Initial Fill Water	Operational Losses	Deliveries			Total	Initial Fill Water	Operational Losses	Deliveries			Total
			Water Supply (d	Reservoir Storage Changes (d	Recreation				Water Supply (d	Reservoir Storage Changes (d	Recreation	
	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)
1962	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0
1971	17,384	2,416	0	0	0	19,800	272	0	0	0	0	272
1972	63,185	12,825	139,980	0	5,000	220,990	0	0	131,000	0	0	131,000
1973	68,646	17,283	196,070	-6,704	11,000	286,295	68,646	2,373	184,500	0	6,000	261,519
1974	14,188	18,269	236,260	-28,005	11,000	251,712	14,188	4,202	222,000	-25,724	6,000	220,666
1975	0	26,027	205,650	24,591	11,000	267,268	0	9,968	188,800	23,132	6,000	227,900
1976	16,824	26,224	238,740	-14,832	11,000	277,956	16,824	10,122	219,200	-22,931	6,000	229,215
1977	0	25,816	271,851	-7,424	11,000	301,243	0	9,959	249,621	-7,424	6,000	258,156
1978	0	25,778	305,062	-10,727	11,000	331,113	0	9,748	280,242	-6,793	6,000	289,197
1979	0	25,670	338,273	193	11,000	375,136	0	9,778	310,763	-529	6,000	326,012
1980	0	25,658	379,684	3,454	11,000	419,796	0	9,656	342,784	3,359	6,000	361,799
1981	0	25,308	415,795	-11,766	11,000	440,337	0	9,558	375,205	-1,598	6,000	389,165
1982	0	25,152	476,706	-10,824	11,000	502,034	0	9,561	432,526	92	6,000	448,179
1983	0	24,999	537,817	16,015	11,000	589,831	0	9,477	489,947	21,911	6,000	527,335
1984	0	25,060	599,328	-21,007	11,000	614,381	0	9,986	547,768	-33,154	6,000	530,600
1985	0	25,297	661,139	16,491	11,000	713,927	0	10,045	605,989	5,781	6,000	627,815
1986	0	24,475	723,640	-1,294	11,000	757,821	0	9,447	664,700	-8,089	6,000	672,058
1987	0	24,923	732,730	1,484	11,000	770,137	0	9,801	670,100	6,444	6,000	692,345
1988	0	24,819	741,820	-6,984	11,000	770,655	0	9,767	675,500	-1,839	6,000	689,428
1989	0	24,399	751,110	-3,333	11,000	783,176	0	9,359	680,900	-9,543	6,000	686,716
1990	0	24,931	821,900	5,170	11,000	863,001	0	9,801	686,800	830	6,000	703,431
1991	0	24,035	823,000	-15,237	11,000	842,798	0	9,004	687,900	-15,027	6,000	687,877
1992	0	24,035	823,000	0	11,000	858,035	0	9,004	687,900	0	6,000	702,904
1993	0	24,035	823,000	0	11,000	858,035	0	9,004	687,900	0	6,000	702,904
1994	0	24,035	823,000	0	11,000	858,035	0	9,004	687,900	0	6,000	702,904
1995	0	24,035	823,000	0	11,000	858,035	0	9,004	687,900	0	6,000	702,904
1996	0	24,035	823,000	0	11,000	858,035	0	9,004	687,900	0	6,000	702,904
1997	0	24,035	823,000	0	11,000	858,035	0	9,004	687,900	0	6,000	702,904
1998	0	24,035	823,000	0	11,000	858,035	0	9,004	687,900	0	6,000	702,904
1999	0	24,035	823,000	0	11,000	858,035	0	9,004	687,900	0	6,000	702,904
2000 (c	0	24,035	823,000	0	11,000	858,035	0	9,004	687,900	0	6,000	702,904

ANNUAL QUANTITIES CONVEYED THRU EACH PUMPING AND POWER RECOVERY PLANT OF PROJECT TRANSPORTATION FACILITIES

(in acre-feet)

Calendar Year	CALIFORNIA AQUEDUCT (Continued)											
	WEST BRANCH, CALIFORNIA AQUEDUCT											
	OSO PUMPING PLANT						CASTAIC POWERPLANT					
	Initial Fill Water	Operational Losses	Deliveries			Total	Initial Fill Water	Operational Losses	Deliveries			Total
			Water Supply (d	Reservoir Storage Changes (d	Recreation				Water Supply (d	Reservoir Storage Changes (d	Recreation	
	(63)	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)
1962	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0
1971	81,539	4,025	71,600	0	0	157,164	80,810	1,398	71,600	0	0	153,808
1972	105,984	11,953	197,369	0	5,000	320,306	105,984	7,653	196,700	0	5,000	315,337
1973	173,301	20,488	251,200	-14,087	5,000	435,902	24,406	10,692	250,100	-14,087	5,000	276,111
1974	162,219	32,234	320,900	-17,493	5,000	502,860	137,958	18,855	319,100	14,087	5,000	495,000
1975	0	27,475	459,500	10,219	5,000	502,194	0	14,928	459,500	-3,028	5,000	476,400
1976	0	26,649	536,400	-76,694	5,000	491,355	0	14,041	536,400	-77,111	5,000	478,330
1977	0	26,018	613,400	-4,575	5,000	639,843	0	13,222	613,400	-2,571	5,000	629,051
1978	0	26,122	690,300	19,212	5,000	740,634	0	13,150	690,300	13,212	5,000	721,662
1979	0	26,226	767,700	-2,726	5,000	796,200	0	13,400	767,700	-2,726	5,000	783,374
1980	0	26,167	846,100	8,293	5,000	885,560	0	13,435	846,100	8,293	5,000	872,828
1981	0	26,981	924,100	5,234	5,000	961,315	0	14,122	924,100	5,234	5,000	948,456
1982	0	26,598	977,600	-19,597	5,000	989,601	0	13,815	977,600	-19,597	5,000	976,818
1983	0	26,679	1,030,900	-8,726	5,000	1,053,853	0	13,818	1,030,900	-2,726	5,000	1,046,992
1984	0	25,312	1,084,100	-74,192	5,000	1,040,220	0	12,555	1,084,100	-80,192	5,000	1,021,463
1985	0	24,336	1,136,900	13,344	5,000	1,179,580	0	11,552	1,136,900	13,344	5,000	1,166,796
1986	0	25,506	1,190,910	-8,659	5,000	1,212,757	0	12,754	1,190,910	-2,659	5,000	1,206,005
1987	0	25,334	1,299,531	30,644	5,000	1,360,509	0	12,730	1,299,531	24,644	5,000	1,341,905
1988	0	25,632	1,408,952	-26,344	5,000	1,413,240	0	12,878	1,408,952	-20,344	5,000	1,406,486
1989	0	25,747	1,518,173	3,034	5,000	1,551,954	0	12,951	1,518,173	-2,779	5,000	1,533,345
1990	0	25,486	1,516,500	-4,390	5,000	1,542,596	0	12,610	1,516,500	1,423	5,000	1,535,533
1991	0	25,481	1,516,500	16,955	5,000	1,563,936	0	12,603	1,516,500	10,955	5,000	1,545,058
1992	0	25,481	1,516,500	0	5,000	1,546,981	0	12,603	1,516,500	0	5,000	1,534,103
1993	0	25,481	1,516,500	0	5,000	1,546,981	0	12,603	1,516,500	0	5,000	1,534,103
1994	0	25,481	1,516,500	0	5,000	1,546,981	0	12,603	1,516,500	0	5,000	1,534,103
1995	0	25,481	1,516,500	0	5,000	1,546,981	0	12,603	1,516,500	0	5,000	1,534,103
1996	0	25,481	1,516,500	0	5,000	1,546,981	0	12,603	1,516,500	0	5,000	1,534,103
1997	0	25,481	1,516,500	0	5,000	1,546,981	0	12,603	1,516,500	0	5,000	1,534,103
1998	0	25,481	1,516,500	0	5,000	1,546,981	0	12,603	1,516,500	0	5,000	1,534,103
1999	0	25,481	1,516,500	0	5,000	1,546,981	0	12,603	1,516,500	0	5,000	1,534,103
2000 (e	0	25,481	1,516,500	0	5,000	1,546,981	0	12,603	1,516,500	0	5,000	1,534,103

ANNUAL QUANTITIES CONVEYED THRU EACH PUMPING AND POWER RECOVERY PLANT OF PROJECT TRANSPORTATION FACILITIES

(in acre-feet)

Calendar Year	CALIFORNIA AQUEDUCT (Continued)											
	COASTAL BRANCH, CALIFORNIA AQUEDUCT											
	LAS PERILLAS AND BADGER HILL PUMPING PLANTS				DEVIL'S DEN AND SAWTOOTH PUMPING PLANTS				POLONIO PUMPING PLANT AND SAN LUIS OBISPO POWERPLANT			
	Initial Fill Water	Operational Losses	Water Supply Delivery	Total	Initial Fill Water	Operational Losses	Water Supply Delivery	Total	Initial Fill Water	Operational Losses	Water Supply Delivery	Total
	(75)	(76)	(77)	(78)	(79)	(80)	(81)	(82)	(83)	(84)	(85)	(86)
1962	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0
1968	210	873	79,039	80,122	0	0	0	0	0	0	0	0
1969	0	1,400	35,303	36,703	0	0	0	0	0	0	0	0
1970	0	1,400	44,995	46,395	0	0	0	0	0	0	0	0
1971	0	1,400	37,900	39,300	0	0	0	0	0	0	0	0
1972	0	1,400	39,500	40,900	0	0	0	0	0	0	0	0
1973	0	1,400	46,200	47,600	0	0	0	0	0	0	0	0
1974	0	1,400	62,300	63,700	0	0	0	0	0	0	0	0
1975	0	1,400	67,700	69,100	0	0	0	0	0	0	0	0
1976	0	1,400	73,500	74,900	0	0	0	0	0	0	0	0
1977	0	1,400	78,700	80,100	0	0	0	0	0	0	0	0
1978	0	1,400	83,500	84,900	0	0	0	0	0	0	0	0
1979	0	1,400	88,000	89,400	0	0	0	0	0	0	0	0
1980	200	3,600	94,300	98,100	200	2,200	2,200	4,600	200	1,500	2,200	3,900
1981	0	3,600	99,800	103,400	0	2,200	3,300	5,500	0	1,500	3,300	4,800
1982	0	3,600	107,000	110,600	0	2,200	6,600	8,800	0	1,500	6,600	8,100
1983	0	3,600	113,400	117,000	0	2,200	9,900	12,100	0	1,500	9,900	11,400
1984	0	3,600	122,100	125,700	0	2,200	14,900	17,100	0	1,500	14,900	16,400
1985	0	3,600	134,600	138,200	0	2,200	24,800	27,000	0	1,500	24,800	26,300
1986	0	3,600	145,900	149,500	0	2,200	33,100	35,300	0	1,500	33,100	34,600
1987	0	3,600	156,200	159,800	0	2,200	41,300	43,500	0	1,500	41,300	42,800
1988	0	3,600	167,800	171,400	0	2,200	51,300	53,500	0	1,500	51,300	52,800
1989	0	3,600	183,500	187,100	0	2,200	66,100	68,300	0	1,500	66,100	67,600
1990	0	3,600	200,500	204,100	0	2,200	82,700	84,900	0	1,500	82,700	84,200
1991	0	3,600	200,500	204,100	0	2,200	82,700	84,900	0	1,500	82,700	84,200
1992	0	3,600	200,500	204,100	0	2,200	82,700	84,900	0	1,500	82,700	84,200
1993	0	3,600	200,500	204,100	0	2,200	82,700	84,900	0	1,500	82,700	84,200
1994	0	3,600	200,500	204,100	0	2,200	82,700	84,900	0	1,500	82,700	84,200
1995	0	3,600	200,500	204,100	0	2,200	82,700	84,900	0	1,500	82,700	84,200
1996	0	3,600	200,500	204,100	0	2,200	82,700	84,900	0	1,500	82,700	84,200
1997	0	3,600	200,500	204,100	0	2,200	82,700	84,900	0	1,500	82,700	84,200
1998	0	3,600	200,500	204,100	0	2,200	82,700	84,900	0	1,500	82,700	84,200
1999	0	3,600	200,500	204,100	0	2,200	82,700	84,900	0	1,500	82,700	84,200
2000 (c	0	3,600	200,500	204,100	0	2,200	82,700	84,900	0	1,500	82,700	84,200

TABLE B-7

RECONCILIATION OF CAPITAL COSTS ALLOCATED TO WATER SUPPLY AND OROVILLE POWER

(in thousands of dollars)

Project Facility	Project Costs Allocated to Water Supply and Oroville Power							Project Costs Allocated to Other Purposes (g	Total, State Water Project (g
	Misc. Income Credited to Construction (a	Allowances for Future Price Escalation (b	Advances for Construction of Water Delivery Structures (c	Advances for Requested Excess Capacity and Future Enlargement (d	Capital Cost Component of Delta Water Charge (e	Capital Cost Component of Transportation Water Charge (f	Total (g		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
CONSERVATION FACILITIES									
Upper Feather Division									
Frenchman Dam and Lake	4	0	0	0	1,593	0	1,597	1,640	3,237
Grizzly Valley Dam and Lake Davis	0	0	0	0	239	0	239	4,671	4,910
Antelope Dam and Lake	0	0	0	0	0	0	0	4,583	4,583
Abbey Bridge Dam and Res.	0	0	0	0	0	0	0	8,249	8,249
Dixie Refuge Dam and Res.	0	0	0	0	0	0	0	6,053	6,053
Total, Upper Feather Div.	4	0	0	0	1,832	0	1,836	25,196	27,032
Oroville Division									
Multipurpose Facilities	2,517	536	183	0	324,007	0	327,243	69,684	396,927
Specific Power Facilities	4	173	0	0	100,331	0	100,508	0	100,508
Total, Oroville Division	2,521	709	183	0	424,338	0	427,751	69,684	497,435
California Aqueduct									
North San Joaquin Div.	132	1,279	0	0	46,129	0	47,540	4,665	52,205
San Luis Division	430	74	0	0	73,247	0	73,751	7,057	80,808
Total, California Aqueduct	562	1,353	0	0	119,376	0	121,291	11,722	133,013
Delta Facilities	0	20,655	0	0	79,291	0	99,946	48,825	148,771
Middle Fork Eel River Dev.	0	19,653	0	0	143,206	0	162,859	0	162,859
TOTAL, CONSERVATION FAC.	3,087	42,370	183	0	768,043	0	813,683	155,427	969,110
TRANSPORTATION FACILITIES									
Upper Feather Division, Grizzly Valley Pipeline	0	1	0	0	0	286	287	0	287
North Bay Aqueduct	11	3,201	0	0	0	13,303	16,515	0	16,515
South Bay Aqueduct	1,545	285	248	0	0	44,977	47,055	19,337	66,392
California Aqueduct									
North San Joaquin Div.	309	3,026	48	0	0	109,071	112,454	3,793	116,247
San Luis Division	0	7,166	0	0	0	108,866	116,032	3,589	119,621
South San Joaquin Div.	268	2,952	1,725	3,344	0	241,741	250,030	7,847	257,877
Tehachapi Division	20	7,622	93	7,207	0	257,176	272,118	8,407	280,525
Mojave Division	323	13,336	575	0	0	206,418	220,652	6,802	227,454
Santa Ana Division	205	11,893	5,535	19,332	0	155,080	192,045	6,071	198,116
West Branch	40,102	9,799	3,976	109	0	254,505	308,491	10,735	319,226
Coastal Branch	9	17,436	62	0	0	60,958	78,465	0	78,465
Total, California Aqueduct	41,235	73,230	12,015	29,992	0	1,393,815	1,550,287	47,244	1,597,531
TOTAL, TRANSPORTATION FAC.	42,792	76,717	12,262	29,992	0	1,452,381	1,614,144	66,581	1,680,725
SAN JOAQUIN DRAINAGE FACILITIES	0	0	0	0	0	0	0	7,774	7,774
UNSPECIFIED COSTS	0	0	0	0	0	0	0	138,134	138,134
TOTAL, 1952 - 1985	45,879	119,087	12,445	29,992	768,043	1,452,381	2,427,827	367,916	2,795,743

a) Miscellaneous project receipts, including those from sale of Airpoint Reservoir land, that are applied for accounting purposes to reduce the capital costs of the particular facilities from which such income was realized.

b) These allowances are included for planning the future financial program, but not for determining current water charges.

c) See Table B-8.

d) See Table B-9.

e) See Table B-13. A portion of these costs will be reimbursed thru Oroville power sales.

f) See Table B-10.

g) Total for each facility as shown in Table 11.

TABLE B-8

CAPITAL COSTS OF REQUESTED DELIVERY STRUCTURES TO BE BUILT BY THE STATE

(in thousands of dollars)

Project Area and Water Supply Contractor	Calendar Year																				Total
	1960	61	62	63	64	65	66	67	68	69	1970	71	72	73	74	1975-77	78	79	1980-83	84	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
FEATHER RIVER AREA																					
County of Butte	0	0	0	0	4	2	69	59	1	0	0	0	0	0	0	0	0	0	0	0	135
Thermalito Irrigation District (b	0	0	0	0	3	1	19	25	0	0	0	0	0	0	0	0	0	0	0	0	48
Subtotals	0	0	0	0	7	3	88	84	1	0	0	0	0	0	0	0	0	0	0	0	183
SOUTH BAY AREA																					
Alameda County Flood Control and Water Conservation District, Zone 7	0	0	1	68	5	-3	9	1	5	15	1	1	1	0	0	0	0	0	0	0	104
Alameda County Water District	56	0	9	10	52	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	130
Santa Clara County Flood Control and Water District	0	0	0	0	0	6	8	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Subtotals	56	0	10	78	57	3	19	1	5	15	2	1	1	0	0	0	0	0	0	0	248
SAN JOAQUIN VALLEY																					
Devil's Den Water District	0	0	0	0	0	1	5	25	28	0	0	0	0	0	0	0	0	0	0	0	59
Dudley Ridge Water District	0	0	0	0	0	1	75	141	97	0	0	0	0	0	0	0	0	0	0	0	314
Empire West Side Irrigation District	0	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	5
Hacienda Water District	0	0	0	0	0	0	5	8	5	0	0	0	0	0	0	0	0	0	0	0	18
Kern County Water Agency	0	0	0	0	0	29	224	237	91	448	206	0	0	0	0	0	0	0	0	0	1,235
Oak Flat Water District	0	0	0	0	0	5	0	16	2	25	0	0	0	0	0	0	0	0	0	0	48
Tulare Lake Basin Water Storage District	0	0	0	0	0	0	62	117	70	0	0	0	0	0	0	0	0	0	0	0	249
Subtotals	0	0	0	0	0	36	372	546	295	473	206	0	0	0	0	0	0	0	0	0	1,928
SOUTHERN CALIFORNIA AREA																					
Antelope Valley-East Kern Water Agency	0	0	0	0	1	0	4	17	21	42	119	33	0	0	26	0	0	100	0	0	363
Coachella Valley County Water District	0	0	0	0	0	0	0	0	1	3	3	1	0	0	0	0	0	0	0	9	17
Crestline-Lake Arrowhead Water Agency	0	0	0	0	2	-1	0	0	7	0	0	0	0	0	0	0	0	0	0	0	8
Desert Water Agency	0	0	0	0	0	0	0	0	0	5	5	2	0	0	0	0	0	0	0	15	27
Littlerock Creek Irrigation District	0	0	0	0	0	0	0	0	1	3	6	29	0	0	0	0	0	0	0	0	39
Mojave Water Agency	0	0	0	0	0	0	0	1	0	15	33	15	0	0	78	0	0	0	0	0	142
Palmdale Irrigation District	0	0	0	0	0	0	0	2	0	7	23	10	0	0	0	0	0	0	0	0	42
San Bernardino Valley Municipal Water District	0	0	0	0	0	1	0	4	24	281	54	0	0	0	0	0	0	41	0	0	405
San Gabriel Valley Municipal Water District	0	0	0	0	0	0	0	1	1	111	0	0	0	0	0	0	0	0	0	0	113
San Gorgonio Pass Water Agency	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	10	0	0	11
The Metropolitan Water District of Southern California	0	0	0	0	1	-1	1	7	41	1,763	906	3,248	0	0	950	0	0	1,545	0	0	8,461
Upper Santa Clara Valley Water Agency	0	0	0	0	0	0	0	0	0	118	153	82	0	0	0	0	0	0	0	0	353
Ventura County Flood Control District	0	0	0	0	0	0	0	0	0	29	41	23	0	0	0	0	12	0	0	0	105
Subtotals	0	0	0	0	4	-1	6	32	96	2,377	1,343	3,443	0	0	1,054	0	12	1,696	0	24	10,086
TOTALS	56	0	10	78	68	41	485	663	397	2,865	1,551	3,444	1	0	1,054	0	12	1,696	0	24	12,445

a) Approximate only; not to be construed as invoice amounts.

b) Not a project water supply contractor. A delivery structure was constructed on the Thermalito Power Canal at the District's expense as part of a relocation agreement.

TABLE B-9

CAPITAL COSTS OF REQUESTED EXCESS PEAKING CAPACITY

(in dollars unless otherwise indicated)

Sheet 1 of 2

Reach Number	Year Reach Becomes Operational	Excess Capacity (cfs)	Total Reach Capacity (cfs)	Ratio of Excess Capacity to Total Capacity (cfs/cfs) (a	Total Reach Cost (b	Total Advance Payments for Excess Capacity (c	Total Incremental Costs for Excess Capacity	Reconciliation of Advance Payments (d	Interest Credit (e	Reconciliation of Advance Payments and Interest Credit
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	TOTAL REQUIRED ADVANCE OF FUNDS									
	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA									
8C	1968	188.00000	8,257.54768	0.02276705	363,041	8,265	2,000	6,265	815	7,080
8D	1968	188.00000	8,058.99281	0.02332798	14,270,678	332,906	113,000	219,906	28,247	248,153
9	1969	188.00000	7,268.54004	0.02586489	9,116,456	235,796	71,000	164,796	29,279	194,075
10A	1969	188.00000	7,117.74784	0.02641285	9,294,326	245,490	92,000	153,490	27,070	180,560
11B	1969	188.00000	6,313.19561	0.02977890	13,082,889	389,594	108,000	281,594	51,311	332,905
12D	1970	188.00000	5,929.95263	0.03170346	12,636,301	400,614	156,000	244,614	46,934	291,548
12E	1970	188.00000	5,907.22734	0.03182542	7,596,571	241,764	118,000	123,764	23,205	146,969
13B	1970	188.00000	5,341.25081	0.03519775	16,629,723	585,329	139,000	446,329	69,702	516,031
14A	1971	188.00000	5,008.96939	0.03753267	50,612,580	1,899,625	559,000	1,340,625	300,372	1,640,997
14B	1971	188.00000	4,888.19779	0.03845998	13,851,469	532,727	175,000	357,727	83,816	441,543
14C	1971	188.00000	4,700.84105	0.03999284	12,017,996	480,634	223,000	257,634	60,350	317,984
15A	1971	188.00000	4,597.94994	0.04088779	34,074,675	1,393,238	593,000	800,238	146,771	947,009
16A	1971	188.00000	4,387.78387	0.04284623	62,238,542	2,666,687	995,000	1,671,687	306,193	1,977,880
17E	1971	188.00000	4,136.09906	0.04545346	218,182,577	9,917,153	5,811,000	4,106,153	831,493	4,937,646
17F	1971	188.00000	4,126.98262	0.04555386	55,086,939	2,509,423	1,396,000	1,113,423	280,004	1,393,427
25	1972	787.00000	2,019.63064	0.38967521	28,586,642	11,139,506	5,357,055	5,782,451	1,417,757	7,200,208
28J	1972	-	-	-	-	13,957,455	13,957,455	0	0	0
	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT									
25	1972	21.00000	2,019.63064	0.01039794	28,643,949	297,838	142,945	154,893	37,846	192,739
	ANTELOPE VALLEY-EAST KERN WATER AGENCY									
29A	1972	19.00000	3,128.83908	0.00607254	27,599,005	167,596	85,000	82,596	16,925	99,521
29F	1972	19.00000	3,128.01611	0.00607414	15,368,488	93,350	24,000	69,350	12,150	81,500

a) Column 1 divided by Column 2.

b) Reach costs are compounded at the project interest rate of 4.021 percent per annum as follows:

Reaches	Period	Year costs compounded to
8C thru 17F	1952 - 1965	1965
25 and 28J (for MWD)	1952 - 1966	1966
25 (for SGVMWD)	1952 - 1967	1967
29A and 29F	1952 - 1967	1967

c) Column 3 multiplied by Column 4.

d) Column 5 less Column 6.

e) Interest on Advance Payments in excess of incremental costs are compounded at 5.0 percent per annum to the year in which credits are applied.

f) Advance Payments in excess of incremental costs under the provisions of the contract reduce the Capital Cost Component of the Transportation Charge.

g) Actual Payments are shown for 1966, 1967, 1968, and 1969, with 1970 adjusted to reflect overpayments and underpayments for prior years without interest.

h) Interest for overpayments and underpayments under the provisions of Amendment 2 of the contract.

i) Interest for overpayments and underpayments under the provisions of Amendment 5 of the contract.

j) Reach totals for Advance Payments include Reconciliation of Advance Payments and Interest Credit (Column 9).

TABLE B-9

CAPITAL COSTS OF REQUESTED EXCESS PEAKING CAPACITY

(in dollars)

ANNUAL REQUIRED ADVANCE OF FUNDS

Reach Number	Item	Estimated Costs and Advance Payments by Calendar Year									Reach Totals (j
		1965	1966	1967	1968	1969	1970	1971	1972	1973	
		(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
		THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA									
8C	1. Incremental Costs		1,000	1,000							2,000
	2. Advance Payments		4,133	4,132		(-) 7,080					1,185
8D	1. Incremental Costs	4,000	45,000	64,000							113,000
	2. Advance Payments	11,784	132,573	188,549		(-) 248,153					84,753
9	1. Incremental Costs	4,000	24,000	35,000	8,000						71,000
	2. Advance Payments	13,284	79,706	116,237	26,569		(-) 194,075				41,721
10A	1. Incremental Costs	5,000	30,000	46,000	11,000						92,000
	2. Advance Payments	13,342	80,051	122,745	29,352		(-) 180,560				64,930
11B	1. Incremental Costs	7,000	42,000	48,000	11,000						108,000
	2. Advance Payments	25,251	151,509	173,153	39,681		(-) 332,905				56,689
12D	1. Incremental Costs	16,000	20,000	18,000	84,000	18,000					156,000
	2. Advance Payments	41,089	51,361	46,225	215,715	46,224		(-) 291,548			109,066
12E	1. Incremental Costs	10,000	14,000	14,000	66,000	14,000					118,000
	2. Advance Payments	20,488	28,684	28,684	135,224	28,684		(-) 146,969			94,795
13B	1. Incremental Costs	1,000	2,000	14,000	96,000	26,000					139,000
	2. Advance Payments	4,211	8,422	58,954	404,256	109,486		(-) 516,031			69,298
14A	1. Incremental Costs	51,000	65,000	39,000	194,000	150,000	60,000				559,000
	2. Advance Payments	173,311	220,887	132,532	659,262	509,738	203,895		(-) 1,640,997		258,628
14B	1. Incremental Costs	31,000	14,000	10,000	45,000	63,000	12,000				175,000
	2. Advance Payments	94,369	42,618	30,442	136,987	191,782	36,529		(-) 441,543		91,184
14C	1. Incremental Costs	39,000	18,000	13,000	58,000	80,000	15,000				223,000
	2. Advance Payments	84,057	38,796	28,019	125,008	172,425	32,329		(-) 317,984		162,650
15A	1. Incremental Costs	4,000	10,000	46,000	243,000	162,000	128,000				593,000
	2. Advance Payments	9,398	23,495	108,076	570,922	380,615	300,732		(-) 947,009		446,229
16A	1. Incremental Costs	14,000	12,000	56,000	387,000	357,000	169,000				995,000
	2. Advance Payments	37,521	32,161	150,085	1,037,194	956,791	452,935		(-) 1,977,880		688,807
17E	1. Incremental Costs	30,000	259,000	1,159,000	1,971,000	1,565,000	827,000				5,811,000
	2. Advance Payments	51,199	442,014	1,977,969	3,363,743	2,670,856	1,411,372		(-) 4,937,646		4,979,507
17F	1. Incremental Costs	78,000	203,000	468,000	349,000	276,000	22,000				1,396,000
	2. Advance Payments	140,211	364,909	841,268	627,356	496,132	39,547		(-) 1,393,427		1,115,996
25	1. Incremental Costs	0	68,000	1,235,226	1,389,912	1,373,354	969,140	321,423			5,357,055
	2. Advance Payments	0	141,400	2,568,540	2,890,195	2,855,764	2,015,238	668,369		(-) 7,200,208	3,939,298
28J	1. Incremental Costs	0	1,055,323	288,132	4,754,000	1,833,000	1,214,000	2,234,000	2,302,000	277,000	13,957,455
	2. Advance Payments	0	1,055,323	288,132	4,754,000	1,833,000	1,214,000	2,234,000	2,302,000	277,000	13,957,455
Totals	1. Incremental Costs	294,000	1,882,323	3,554,358	9,666,912	5,917,354	3,416,140	2,555,423	2,302,000	277,000	29,865,510
	2. Advance Payments	719,515	2,898,042	6,863,742	15,015,464	9,996,264	4,999,037	1,947,821	(-) 9,354,486	(-) 6,923,208	26,162,191
	3. Reapplied Credits(f							286,179	11,656,486	7,200,208	19,142,873
	4. Required Advance of Funds	719,515	2,898,042	6,863,742	15,015,464	9,996,264	4,999,037	2,234,000	2,302,000	277,000	45,305,064
Current Adjustments	1. Advance Payments and Adjustments - Amendment 2 (g	0	8,056,000	9,094,963	1,523,252	8,310,651	4,362,743				31,347,609
	2. Interest Credits - Amendment 2 (h						(-) 936,007				(-) 936,007
	3. Advance Payments and Adjustments - Amendment 5	0	1,240,000	1,483,180	2,469,325	(-) 927,035	4,878,985	2,234,000	2,302,000	277,000	13,957,455
	4. Interest Credits - Amendment 5 (i						(-) 197,780				(-) 197,780
	5. Net Required Advance of Funds	0	9,296,000	10,578,143	3,992,577	7,383,616	8,107,941	2,234,000	2,302,000	277,000	44,171,277
		SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT									
25	1. Incremental Costs	0	0	34,774	37,088	36,646	25,860	8,577			142,945
	2. Advance Payments	0	0	72,455	77,276	76,355	53,881	17,871		(-) 192,739	105,099
Totals	1. Incremental Costs	0	0	34,774	37,088	36,646	25,860	8,577			142,945
	2. Advance Payments	0	0	72,455	77,276	76,355	53,881	17,871		(-) 192,739	105,099
	3. Reapplied Credit (f									192,739	192,739
	4. Required Advance of Funds	0	0	72,455	77,276	76,355	53,881	17,871			297,838
Current Adjustments	1. Advance Payments and Adjustments (g	0	0	0	184,422	49,052	46,493	17,871			297,838
	2. Interest Credit						(-) 1,582				(-) 1,582
	3. Net Required Advance of Funds	0	0	0	184,422	49,052	44,911	17,871			296,256
		ANTELOPE VALLEY-EAST KERN WATER AGENCY									
29A	1. Incremental Costs	0	0	8,000	14,000	26,000	26,000	11,000			85,000
	2. Advance Payments	0	0	15,774	27,604	51,265	51,265	21,688		(-) 99,521	68,075
29F	1. Incremental Costs	0	0	3,000	4,000	14,000	3,000				24,000
	2. Advance Payments	0	0	11,669	15,558	54,454	11,669		(-) 81,500		11,850
Totals	1. Incremental Costs	0	0	11,000	18,000	40,000	29,000	11,000			109,000
	2. Advance Payments	0	0	27,443	43,162	105,719	62,934	21,688	(-) 81,500	(-) 99,521	79,925
	3. Reapplied Credit (f								81,500	99,521	181,021
	4. Required Advance of Funds	0	0	27,443	43,162	105,719	62,934	21,688			260,946
Current Adjustments	1. Advance Payments and Adjustments (g	0	0	0	85,495	52,625	101,138	21,688			260,946
	2. Interest Credit						510				510
	3. Net Required Advance of Funds	0	0	0	85,495	52,625	101,648	21,688			261,456

CAPITAL COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED THRU CAPITAL COST COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Calendar Year	UPPER FEATHER DIVISION	NORTH BAY AQUEDUCT				SOUTH BAY AQUEDUCT			
		Reach 1	Reach 2	Reach 3	Total	Reach 1	Reach 2	Reach 4	Reach 5
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1952	0	0	0	0	0	97	34	30	50
1953	0	0	0	0	0	477	166	144	315
1954	0	0	0	0	0	1,466	508	437	1,013
1955	0	0	0	0	0	1,944	674	560	1,336
1956	0	0	0	0	0	18,789	6,515	5,090	13,248
1957	0	13,290	3,391	9,953	26,634	45,040	15,639	12,285	35,218
1958	0	19,086	4,976	25,848	49,910	193,747	81,296	7,534	22,325
1959	0	8,418	2,264	19,784	30,466	483,568	146,098	24,313	18,525
1960	0	13,503	3,816	9,631	26,950	1,144,099	96,362	69,275	69,425
1961	0	9,938	2,899	3,032	15,869	3,146,084	382,905	302,526	78,214
1962	0	3,242	944	1,503	5,689	1,441,051	240,774	680,504	33,798
1963	0	8,936	2,595	4,066	15,597	436,109	49,076	2,213,437	209,588
1964	7,823	17,615	10,291	49,245	77,151	2,492,009	16,370	159,304	210,326
1965	3,168	23,177	12,062	186,158	221,397	651,778	132,080	107,753	424,003
1966	26	53,604	25,144	428,919	507,667	510,352	243,521	106,501	1,730,628
1967	239	53,195	27,659	1,540,934	1,621,788	258,788	6,127	237,545	3,647,033
1968	51,757	87,969	44,525	814,802	947,296	803,562	6,064-	64,158	2,963,017
1969	208,000	180,000	102,000	170,000	452,000	368,000	12,000	70,000-	479,003
1970	15,000	201,000	13,000	29,000	243,000	1,000	0	0	113,003
1971	0	131,000	10,000	4,000-	137,000	1,000	0	0	11,000
1972	0	101,000	11,000	0	112,000	1,000	0	0	0
1973	0	210,000	10,000	0	220,000	63,000	9,000	20,000	94,000
1974	0	253,000	11,000	0	264,000	0	0	0	45,000
1975	0	171,000	19,000	9,000	199,000	0	0	0	200,000
1976	0	275,000	47,000	20,000	342,000	0	0	0	65,000
1977	0	450,000	57,000	35,000	542,000	0	0	0	0
1978	0	978,000	481,000	295,000	1,754,000	0	0	0	0
1979	0	2,045,000	2,000,000	1,049,000	5,094,000	0	0	0	0
1980	0	119,000	52,000	22,000	193,000	0	0	0	0
1981	0	11,000	12,000	0	23,000	0	0	0	0
1982	0	0	0	0	0	0	0	0	0
1983	0	114,000	68,000	0	182,000	0	0	0	0
1984	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0
TOTAL	286,013	5,550,973	3,033,564	4,718,875	13,303,414	12,063,010	1,435,081	3,941,796	10,455,869

Calendar Year	SOUTH BAY AQUEDUCT (continued)					CALIFORNIA AQUEDUCT			
						NORTH SAN JOAQUIN DIVISION			
	Reach 6	Reach 7	Reach 8	Reach 9	Total	Reach 1	Reach 2A	Reach 2B	Subtotal
	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1952	8	67	72	132	500	3,974	3,303	1,505	8,782
1953	38	327	336	641	2,444	10,459	8,653	3,980	23,092
1954	123	1,005	1,003	1,954	7,509	13,691	11,242	5,198	30,131
1955	160	1,293	1,149	2,454	9,570	7,325	5,990	2,771	16,086
1956	1,559	11,959	11,043	28,371	96,574	9,242	5,177	2,404	16,823
1957	3,659	28,675	27,385	563,114	731,065	11,212	5,636	2,615	19,463
1958	2,219	17,717	17,253	558,931	901,725	20,948	17,722	8,222	46,892
1959	419	3,948	4,366	148,673	829,911	125,856	102,288	46,311	274,455
1960	467	4,398	4,913	254,266	1,645,206	182,235	106,577	50,622	339,434
1961	2,627	21,123	21,719	7,965-	3,947,333	173,056	206,004	44,003	423,063
1962	7,763	165,188	171,073	266,883	3,007,026	346,405	476,759	169,875	995,039
1963	180,836	1,298,799	925,104	192,517	5,504,466	2,201,555	1,554,953	567,787	4,324,295
1964	19,447	1,777,206	2,422,915	2,912,743	9,910,320	4,885,460	1,949,339	962,201	7,797,000
1965	38,786	364,494	547,433	1,893,541	4,159,868	6,190,112	5,663,420	3,329,157	15,182,589
1966	29,295	19,971	76,034	835,314	3,551,916	8,682,712	13,910,947	6,127,176	28,720,835
1967	46,271-	134,483	139,863	360,449	4,738,117	9,453,702	10,812,358	6,830,942	27,097,002
1968	4,632-	3,072-	62,240	239,952	4,119,161	6,353,335	923,092	1,323,222	8,599,649
1969	10,000-	23,000	53,000	86,000	942,000	4,097,000	1,086,000	80,000	5,263,000
1970	0	0	43,000	62,000	219,000	671,000	159,000	56,000	886,000
1971	0	0	26,000	14,000	52,000	515,000	321,000	148,000	984,000
1972	0	0	0	13,000	14,000	44,000	26,000	22,000	92,000
1973	2,000	17,000	24,000	48,000	277,000	287,000	27,000	0	314,000
1974	0	0	0	0	45,000	1,451,000	0	0	1,451,000
1975	0	0	0	0	200,000	1,725,000	0	0	1,725,000
1976	0	0	0	0	65,000	43,000	0	0	43,000
1977	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	13,000	0	0	13,000
1979	0	0	0	0	0	124,000	0	0	124,000
1980	0	0	0	0	0	467,000	0	0	467,000
1981	0	0	0	0	0	1,402,000	0	0	1,402,000
1982	0	0	0	0	0	1,351,000	0	0	1,351,000
1983	0	0	0	0	0	41,000	0	0	41,000
1984	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0
TOTAL	228,503	3,887,581	4,489,901	8,474,970	44,976,711	50,904,279	38,382,460	19,783,991	109,070,730

CAPITAL COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED THRU CAPITAL COST COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Sheet 2 of 4

Calendar Year	CALIFORNIA AQUEDUCT (continued)								
	SAN LUIS DIVISION						SOUTH SAN JOAQUIN DIVISION		
	Reach 3	Reach 4	Reach 5	Reach 6	Reach 7	Subtotal	Reach 8C	Reach 8D	Reach 9
	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
1952	2,555	3,640	4,131	1,050	1,295	12,672	14	717	1,165
1953	7,164	10,404	11,380	2,945	3,631	35,529	51	2,666	4,369
1954	8,895	12,875	14,175	3,655	4,508	44,109	52	2,707	4,214
1955	4,360	6,216	7,048	1,794	2,210	21,628	18	875	1,166
1956	3,960	5,640	6,400	1,627	2,007	19,634	70	3,628	4,809
1957	4,315	6,149	6,977	1,773	2,187	21,402	204	10,524	13,947
1958	15,547	27,030	30,850	7,734	9,884	92,045	352	18,007	23,869
1959	73,171	137,217	131,717	34,827	45,850	462,792	387	19,688	25,797
1960	135,139	267,495	241,565	65,054	186,088	895,341	904	46,163	38,428
1961	124,739	249,776	223,275	60,165	171,393	829,348	1,483	75,829	39,533
1962	288,973	540,500	520,834	140,634	400,416	1,931,257	3,248	166,272	67,422
1963	2,490,005	4,948,250	4,478,392	1,206,227	3,456,837	16,579,712	3,474	177,774	95,674
1964	2,356,955	4,491,333	4,237,163	1,142,336	3,269,418	15,697,205	2,118	108,479	148,421
1965	2,482,881	4,940,406	4,461,793	1,199,900	3,441,132	16,526,112	9,267	532,243	569,879
1966	3,413,255	6,784,156	6,133,236	1,650,372	4,736,715	22,717,735	109,525	5,561,638	2,490,912
1967	1,616,045	3,227,934	2,905,792	781,874	2,245,549	10,777,235	104,604	5,309,074	3,524,469
1968	238,387	472,312	428,820	115,440	330,994	1,585,953	28,820	667,750	1,000,222
1969	672,000	825,000	639,000	243,000	317,000	2,696,000	41,000	187,000	282,000
1970	80,000	291,000	390,000	49,000	113,000	923,000	0	93,000	47,000
1971	19,000	176,000	416,000	8,000	74,000	693,000	0	19,000	12,000
1972	0	87,000	766,000	0	116,000	969,000	1,000	44,000	37,000
1973	0	541,000	4,751,000	0	722,000	6,014,000	1,000	21,000	16,000
1974	0	0	0	0	0	0	0	14,000	11,000
1975	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0
1983	0	102,000	160,000	57,000	79,000	398,000	0	0	0
1984	0	1,434,000	2,250,000	804,000	1,089,000	5,577,000	0	0	0
1985	0	859,000	1,350,000	482,000	655,000	3,346,000	0	0	0
TOTAL	14,039,252	30,686,338	34,565,548	8,960,407	21,515,164	108,865,709	223,591	12,082,034	8,599,244

Calendar Year	CALIFORNIA AQUEDUCT (continued)								
	SOUTH SAN JOAQUIN DIVISION (continued)								
	Reach 10A	Reach 11B	Reach 12D	Reach 12E	Reach 13B	Reach 14A	Reach 14B	Reach 14C	Reach 15A
	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)
1952	735	1,350	2,147	1,066	1,761	514	174	183	1,872
1953	2,696	5,020	7,984	3,962	6,548	1,885	640	671	6,972
1954	2,962	5,097	8,108	4,024	6,650	2,071	701	737	6,998
1955	1,157	1,650	2,624	1,303	2,151	808	273	288	2,191
1956	4,809	6,831	10,867	5,393	8,914	3,492	1,136	1,197	9,068
1957	13,947	19,811	31,512	15,641	25,845	11,743	3,305	3,471	26,291
1958	23,969	45,111	71,755	35,614	58,852	33,959	10,880	11,423	55,846
1959	25,797	65,700	104,506	51,869	85,714	58,641	19,878	20,873	76,059
1960	59,344	54,626	86,891	43,126	71,266	63,706	19,197	20,158	63,742
1961	76,044	77,528	123,484	61,550	101,341	142,101	41,825	43,550	95,218
1962	60,342	67,980	108,639	54,736	89,308	150,201	44,864	45,958	77,032
1963	67,970	97,701	156,090	77,172	127,015	290,911	89,149	91,861	227,247
1964	144,505	207,945	343,612	150,964	172,212	957,001	751,557	586,327	741,442
1965	568,034	1,422,795	1,551,783	495,878	511,809	3,119,165	1,724,677	1,508,806	519,995
1966	2,639,064	4,033,929	646,698	382,061	442,872	4,567,604	1,189,239	901,054	1,085,344
1967	3,444,906	4,969,672	2,042,495	1,207,331	1,300,274	2,600,464	656,279	530,203	943,973
1968	1,044,731	1,349,441	4,975,576	3,092,584	8,555,537	9,956,390	1,644,020	1,600,148	7,145,356
1969	372,000	239,000	1,370,000	1,293,000	3,361,000	15,591,000	5,443,000	4,728,000	12,788,000
1970	63,000	49,000	85,000	66,000	677,000	6,847,000	1,367,000	1,114,000	5,620,000
1971	14,000	57,000	54,000	47,000	89,000	3,358,000	58,000	36,000	2,410,000
1972	41,000	26,000	113,000	27,000	66,000	378,000	48,000	57,000	289,000
1973	18,000	13,000	17,000	12,000	24,000	76,000	20,000	17,000	52,000
1974	13,000	9,000	12,000	8,000	16,000	49,000	14,000	12,000	35,000
1975	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0
TOTAL	8,701,912	12,347,088	11,925,771	7,137,274	15,801,069	48,309,656	13,147,796	11,330,908	32,278,646

CAPITAL COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED THRU CAPITAL COST COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Calendar Year	CALIFORNIA AQUEDUCT (continued)								
	SOUTH SAN JOAQUIN DIVISION (continued)		TEHACHAPI DIVISION			MOJAVE DIVISION			
	Reach 16A	Subtotal	Reach 17E	Reach 17F	Subtotal	Reach 18A	Reach 19	Reach 19C	Reach 20A
	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)
1952	4,547	16,245	9,352	4,202	13,554	4,207	1,563	0	2,634
1953	16,933	60,397	30,601	13,702	44,303	12,971	4,819	0	7,453
1954	17,016	61,337	45,716	20,623	66,339	17,118	6,361	0	9,778
1955	5,347	19,851	25,775	11,706	37,481	5,773	2,144	0	2,603
1956	22,125	82,341	41,107	18,284	59,391	6,210	2,307	0	2,511
1957	64,157	240,398	114,072	50,737	164,809	22,988	8,542	0	9,293
1958	150,975	540,512	163,379	72,666	236,044	38,443	14,286	0	15,544
1959	225,110	780,019	131,633	58,516	190,149	41,002	23,381	0	23,791
1960	209,661	777,212	138,482	61,171	199,653	36,635	29,359	0	42,133
1961	291,189	1,170,675	362,177	130,814	492,991	40,110	43,533	0	40,508
1962	265,658	1,201,660	377,829	113,343	491,172	65,758	41,353	0	31,685
1963	593,689	2,095,727	864,043	191,251	1,055,294	34,097	79,304	0	90,918
1964	1,704,310	6,018,794	2,159,865	225,616	2,385,482	239,933	310,930	0	113,468
1965	1,339,588	13,873,919	3,371,050	1,616,060	4,987,110	148,956	597,572	0	212,353
1966	2,075,483	26,225,423	7,283,435	9,387,855	16,671,291	272,106	2,024,141	0	545,837
1967	3,263,665	29,897,409	27,564,472	12,152,881	39,717,353	1,353,800	949,778	0	913,822
1968	7,939,330	48,999,905	33,230,000	7,339,267	40,569,267	153,464	7,400,403	59,277	1,907,723
1969	26,726,000	71,861,000	57,839,000	12,182,000	70,021,000	970,000	2,409,000	10,000	5,103,000
1970	8,934,000	25,012,000	30,406,000	8,049,000	38,455,000	1,261,000	961,000	0	5,177,000
1971	3,566,000	9,720,000	17,714,000	49,000	17,763,000	147,000	735,000	0	1,097,000
1972	390,000	1,917,000	6,783,000	1,000	6,784,000	4,000	72,000	0	140,000
1973	90,000	377,000	1,393,000	6,000	1,399,000	24,000	230,000	0	182,000
1974	61,000	254,000	2,091,000	0	2,091,000	1,000	40,000	0	31,000
1975	880,000	880,000	4,226,000	52,000	4,278,000	0	0	0	0
1976	58,000	58,000	3,740,000	52,000	3,792,000	0	0	95,000	0
1977	0	0	1,839,000	0	1,839,000	0	0	737,000	0
1978	0	0	332,000	0	332,000	0	0	485,000	0
1979	0	0	1,313,000	0	1,313,000	8,000	26,000	4,481,000	25,000
1980	0	0	1,727,000	0	1,727,000	11,000	33,000	2,197,000	32,000
1981	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0
TOTAL	59,443,783	241,740,824	205,315,389	51,859,694	257,175,683	4,419,571	16,045,776	7,944,277	15,754,054

Calendar Year	CALIFORNIA AQUEDUCT (continued)								
	MOJAVE DIVISION (continued)							SANTA ANA DIVISION	
	Reach 20B	Reach 21	Reach 22A	Reach 22B	Reach 23	Reach 24	Subtotal	Reach 25	Reach 26A
	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)
1952	917	5,954	36	2,071	2,132	2,482	21,996	3,429	5,759
1953	3,498	18,356	73	5,917	7,083	7,651	67,821	10,570	17,758
1954	4,679	24,231	380	8,805	8,074	10,100	89,526	13,953	23,442
1955	2,275	8,174	185	2,832	2,803	3,407	30,196	4,707	7,907
1956	2,731	8,785	221	2,989	3,047	3,662	32,463	5,059	8,500
1957	10,109	32,521	822	11,064	11,274	13,556	120,169	18,726	31,461
1958	16,906	54,390	1,376	18,502	18,856	22,669	200,972	31,319	52,617
1959	18,863	60,684	1,535	21,195	21,672	51,459	263,585	40,055	59,035
1960	36,512	115,752	3,523	57,919	24,459	90,617	436,909	69,206	99,503
1961	44,056	135,410	16,826	127,746	14,740	96,848	549,777	89,618	104,080
1962	34,460	96,637	9,682	191,712	9,870	142,908	624,065	49,533	99,923
1963	98,885	296,928	90,142	159,208	9,989	389,558	1,249,029	45,982	174,949
1964	123,474	298,106	108,715	252,455	13,802	321,927	1,783,211	101,662	243,040
1965	166,673	158,083	75,495	813,501	30,838	630,556	2,834,027	322,204	234,447
1966	844,928	221,200	136,396	1,998,609	66,497	1,036,787	7,146,501	390,700	373,258
1967	1,612,766	522,564	405,932	3,113,297	117,124	2,386,862	11,375,945	2,924,786	634,804
1968	2,178,031	1,555,182	1,290,376	4,366,418	142,345	2,777,795	21,931,614	6,734,153	1,704,774
1969	5,168,000	2,499,000	1,077,000	22,067,000	1,271,000	14,914,000	55,868,000	3,452,000	1,440,000
1970	5,556,000	3,739,000	2,610,000	27,701,000	2,603,000	12,904,000	62,516,000	4,148,000	11,200,000
1971	944,000	443,000	308,000	8,024,000	609,000	9,034,000	21,241,000	1,503,000	6,725,000
1972	173,000	69,000	12,000	1,962,000	40,000	1,374,000	3,846,000	16,000	236,000
1973	223,000	141,000	81,000	1,250,000	45,000	136,000	2,312,000	13,000	528,000
1974	27,000	16,000	14,000	858,000	5,000	75,000	1,067,000	0	3,965,000
1975	0	0	0	1,853,000	0	0	1,853,000	0	5,412,000
1976	0	0	0	395,000	0	0	490,000	0	37,000
1977	0	0	0	0	0	0	737,000	0	0
1978	0	0	0	0	0	0	385,000	0	0
1979	28,000	16,000	10,000	129,000	9,000	83,000	4,815,000	0	0
1980	37,000	21,000	13,000	166,000	12,000	108,000	2,430,000	0	0
1981	0	0	0	0	0	0	0	39,000	46,000
1982	0	0	0	0	0	0	0	39,000	46,000
1983	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0
TOTAL	17,255,743	10,936,957	6,267,315	75,559,644	5,098,605	44,610,844	266,417,806	22,100,660	33,751,347

CAPITAL COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED THRU CAPITAL COST COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Sheet 4 of 4

Calendar Year	CALIFORNIA AQUEDUCT (continued)								
	SANTA ANA DIVISION (continued)				WEST BRANCH				
	Reach 28G	Reach 28H	Reach 28J	Subtotal	Reach 29A	Reach 29F	Reach 29G	Reach 29H	Reach 29J
	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)
1952	4,922	4,171	3,106	21,387	3,008	139	180	472	569
1953	16,027	11,842	9,748	65,945	9,353	353	244	1,803	1,731
1954	18,531	18,618	12,508	87,052	7,602	1,235	2,292	2,419	4,281
1955	6,226	6,255	4,269	29,364	1,047	602	1,117	1,178	2,086
1956	6,683	6,713	4,609	31,564	502	718	1,332	1,405	2,487
1957	24,732	24,848	17,062	116,829	1,860	2,656	4,931	5,202	9,209
1958	41,363	41,559	28,532	195,390	3,113	4,442	8,247	8,699	15,402
1959	47,683	47,906	42,599	237,278	5,687	8,121	15,071	15,898	28,148
1960	87,122	87,533	70,051	413,515	12,193	17,405	32,306	34,078	60,342
1961	77,176	77,625	1,081,002	1,399,499	17,145	20,759	41,605	37,223	74,981
1962	70,186	70,864	77,521	368,027	43,062	48,603	101,769	84,453	180,542
1963	88,545	89,460	1,523,197	1,942,133	78,159	85,859	189,048	151,912	332,351
1964	113,157	113,890	155,146	765,885	140,323	98,888	264,018	170,411	435,649
1965	120,793	121,474	244,328	1,043,246	346,461	140,356	568,873	214,095	844,219
1966	173,977	318,298	524,608	1,780,841	412,631	491,960	1,022,153	311,813	4,664,842
1967	238,154	312,783	456,179	4,966,706	1,441,659	315,479	1,781,079	839,764	31,786,891
1968	387,708	326,041	166,004	11,318,680	3,923,595	318,249	590,832	1,073,015	36,816,232
1969	2,872,000	2,589,000	1,297,000	12,050,000	8,502,000	3,009,000	946,000	2,456,000	5,280,000
1970	18,997,000	12,126,000	3,770,000	50,281,000	7,637,000	7,262,000	2,312,000	5,651,000	11,193,000
1971	2,934,000	9,175,000	16,115,000	38,452,000	3,611,000	2,618,000	420,000	1,268,000	14,114,000-
1972	53,000	52,000	18,999,000	19,356,000	188,000	177,000	164,000	7,509,000	10,656,000-
1973	54,000	35,000	1,230,000	1,365,000	147,000	125,000	1,180,000	14,775,600	10,091,000-
1974	0	0	178,000	4,144,000	2,000	0	32,000	446,400	25,000
1975	0	0	0	5,412,000	0	0	9,000	1,000	10,000
1976	0	0	223,000	260,000	0	0	0	0	10,000
1977	0	0	0	0	18,000	12,000	5,000	25,000	101,000
1978	0	0	0	0	18,000	12,000	5,000	25,000	101,000
1979	0	0	0	0	0	0	0	0	10,000
1980	0	0	0	0	0	0	0	0	5,000
1981	35,000	35,000	83,000	238,000	0	0	0	0	0
1982	35,000	35,000	83,000	238,000	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0
TOTAL	26,502,485	25,726,880	46,798,469	155,080,341	26,570,399	14,770,824	9,698,097	35,110,840	57,123,962

Calendar Year	CALIFORNIA AQUEDUCT (continued)								GRAND TOTAL
	WEST BRANCH (continued)		COASTAL BRANCH					TOTAL	
	Reach 30	Subtotal	Reach 31A	Reach 33A	Reach 34	Reach 35	Subtotal		
	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)
1952	1,446	5,816	0	0	0	0	0	100,452	100,952
1953	4,464	17,953	0	0	0	0	0	315,040	317,484
1954	5,908	23,737	0	0	0	0	0	402,231	409,740
1955	2,000	8,030	0	0	0	0	0	162,636	172,206
1956	2,136	8,580	0	0	0	0	0	250,796	347,370
1957	7,907	31,765	0	0	0	0	0	714,835	1,472,534
1958	13,223	53,126	0	0	0	0	0	1,364,981	2,316,616
1959	35,957	109,882	13,514	22,518	3,560	3,561	43,153	2,361,313	3,221,690
1960	64,497	221,021	38,304	65,605	8,563	12,027	124,499	3,407,584	5,079,740
1961	112,954	304,667	15,112	27,412	2,082	5,172	49,778	5,219,798	9,183,000
1962	223,891	662,320	11,774	20,150	945	2,512	35,381	6,328,921	9,341,636
1963	209,455	1,047,143	25,119	34,966	2,046	5,534	67,665	28,361,039	33,881,101
1964	1,181,423	2,290,712	306,741	48,577	3,001	8,001	366,330	37,105,619	47,100,913
1965	3,312,942	5,426,946	707,216	58,893	3,560	9,038	778,707	61,652,756	66,037,189
1966	8,563,006	15,466,405	2,207,830	74,817	4,281	11,340	2,298,268	121,027,299	125,084,908
1967	18,545,466	54,713,338	4,203,935	83,828	4,841	12,930	4,305,534	184,850,522	191,210,666
1968	17,310,701	60,032,624	2,436,339	71,046	3,630	9,989	2,521,004	195,458,696	200,576,910
1969	35,125,000	55,315,000	80,000-	77,000	5,000	22,000	24,000	273,101,000	274,703,000
1970	16,581,000	30,426,000	67,000	52,000	4,000	8,000	131,000	228,630,000	229,107,000
1971	4,188,000	2,009,000-	34,000	46,000	2,000	9,000	93,000	84,937,000	85,126,000
1972	1,843,000	775,000-	4,000	44,000	3,000	7,000	58,000	31,847,000	31,973,000
1973	458,000	6,594,600	0	44,000	2,000	7,000	53,000	18,928,600	19,425,600
1974	1,690,000	2,145,400	0	43,000	2,000	7,000	52,000	11,254,400	11,583,400
1975	165,000	165,000	0	846,000	98,000	241,000	1,185,000	15,518,000	15,917,000
1976	400,000	410,000	0	1,410,000	122,000	320,000	1,852,000	6,905,000	7,312,000
1977	547,000	808,000	824,000	2,405,000	191,000	542,000	4,362,000	7,746,000	8,288,000
1978	727,000	888,000	74,000	14,750,000	1,175,000	2,861,000	18,870,000	20,488,000	22,242,000
1979	5,000	15,000	599,000	14,520,000	1,479,000	3,655,000	20,253,000	26,520,000	31,614,000
1980	0	5,000	102,000	219,000	57,000	160,000	538,000	5,367,000	5,560,000
1981	0	0	612,000	147,000	13,000	33,000	805,000	2,445,000	2,468,000
1982	0	0	20,000	25,000	2,000	5,000	52,000	1,641,000	1,641,000
1983	0	0	0	0	0	0	0	439,000	621,000
1984	0	0	0	15,000	1,000	4,000	20,000	5,597,000	5,597,000
1985	0	0	0	15,000	2,000	3,000	20,000	3,366,000	3,366,000
TOTAL	111,[illegible]	264,505,105	14,221,894	35,[illegible]	3,194,509	7,964,104	60,958,319	1,393,814,517	1,452,390,665

MINIMUM OMP&R COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED THRU MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Calendar Year	FEATHER RIVER DIVISION	NORTH BAY AQUEDUCT				SOUTH BAY AQUEDUCT			
		Reach 1	Reach 2	Reach 3	Total	Reach 1	Reach 2	Reach 4	Reach 5
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1962	0	0	0	0	0	71,504	8,350	0	0
1963	0	0	0	0	0	127,868	17,865	0	0
1964	0	0	0	0	0	124,496	13,897	18,213	0
1965	0	0	0	0	0	237,928	41,693	45,953	0
1966	0	0	0	0	0	252,571	19,357	62,476	0
1967	0	0	0	0	0	379,379	23,552	115,015	0
1968	0	0	0	0	0	275,379	27,911	75,487	0
1969	0	0	0	95,000	95,000	295,000	39,000	62,000	0
1970	200	0	0	94,000	94,000	294,000	39,000	64,000	150,000
1971	200	0	0	93,000	93,000	292,000	40,000	63,000	148,000
1972	200	0	0	92,000	92,000	291,000	39,000	61,000	147,000
1973	200	0	0	91,000	91,000	289,000	38,000	63,000	147,000
1974	200	0	0	90,000	90,000	287,000	38,000	62,000	147,000
1975	200	0	0	92,000	92,000	287,000	38,000	63,000	137,000
1976	200	0	0	91,000	91,000	285,000	38,000	62,000	137,000
1977	200	0	0	90,000	90,000	284,000	38,000	62,000	136,000
1978	200	0	0	90,000	90,000	284,000	38,000	62,000	137,000
1979	200	0	0	91,000	91,000	284,000	38,000	60,000	137,000
1980	200	155,000	40,000	94,000	289,000	283,000	37,000	57,000	141,000
1981	200	155,000	40,000	94,000	289,000	283,000	37,000	57,000	141,000
1982	200	155,000	39,000	94,000	288,000	283,000	37,000	57,000	141,000
1983	200	155,000	39,000	94,000	288,000	283,000	37,000	57,000	141,000
1984	200	155,000	39,000	94,000	288,000	283,000	37,000	57,000	141,000
1985	200	155,000	39,000	94,000	288,000	283,000	37,000	57,000	141,000
1986 (a	200	154,000	39,000	94,000	287,000	283,000	37,000	57,000	140,000

Calendar Year	SOUTH BAY AQUEDUCT (continued)					CALIFORNIA AQUEDUCT			
						NORTH SAN JOAQUIN DIVISION			
	Reach 6	Reach 7	Reach 8	Reach 9	Total	Reach 1	Reach 2A	Reach 2B	Subtotal
	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1962	0	0	0	0	79,854	0	0	0	0
1963	0	0	0	0	145,733	0	0	0	0
1964	0	0	0	0	156,606	0	0	0	0
1965	2,290	8,626	6,211	11,209	353,910	0	0	0	0
1966	3,741	11,627	10,400	22,330	382,502	0	0	0	0
1967	1,917	10,190	16,636	33,164	579,853	0	0	0	0
1968	1,894	10,495	16,835	35,153	443,154	888,578	313,415	145,746	1,347,739
1969	3,000	14,000	15,000	32,000	460,000	1,544,000	496,000	190,000	2,230,000
1970	3,000	13,000	15,000	32,000	610,000	1,537,000	497,000	190,000	2,224,000
1971	4,000	12,000	16,000	31,000	606,000	1,525,000	491,000	187,000	2,203,000
1972	4,000	13,000	14,000	32,000	601,000	1,519,000	489,000	187,000	2,195,000
1973	3,000	12,000	16,000	31,000	599,000	1,507,000	486,000	185,000	2,178,000
1974	3,000	12,000	14,000	33,000	596,000	1,499,000	485,000	185,000	2,169,000
1975	3,000	12,000	14,000	33,000	587,000	1,507,000	481,000	183,000	2,171,000
1976	3,000	12,000	15,000	32,000	584,000	1,495,000	479,000	182,000	2,156,000
1977	3,000	12,000	14,000	32,000	581,000	1,490,000	480,000	183,000	2,153,000
1978	3,000	12,000	14,000	32,000	582,000	1,490,000	479,000	183,000	2,152,000
1979	3,000	12,000	14,000	32,000	580,000	1,492,000	480,000	182,000	2,154,000
1980	8,000	11,000	10,000	26,000	573,000	1,438,000	456,000	170,000	2,064,000
1981	8,000	11,000	10,000	26,000	573,000	1,438,000	452,000	168,000	2,058,000
1982	8,000	11,000	10,000	26,000	573,000	1,438,000	456,000	170,000	2,064,000
1983	8,000	11,000	10,000	26,000	573,000	1,438,000	454,000	169,000	2,061,000
1984	8,000	11,000	10,000	26,000	573,000	1,438,000	457,000	170,000	2,065,000
1985	8,000	11,000	10,000	26,000	573,000	1,438,000	457,000	170,000	2,065,000
1986	8,000	11,000	10,000	26,000	572,000	1,438,000	450,000	168,000	2,056,000
1987	8,000	11,000	10,000	26,000	571,000	1,438,000	449,000	167,000	2,054,000
1988	8,000	11,000	10,000	26,000	571,000	1,438,000	450,000	167,000	2,055,000
1989 (a	8,000	11,000	10,000	26,000	571,000	1,438,000	451,000	168,000	2,057,000

(a And each year thereafter for the remainder of the project repayment period.

MINIMUM OMP&R COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED THRU MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Calendar Year	CALIFORNIA AQUEDUCT (continued)								
	SAN LUIS DIVISION						SOUTH SAN JOAQUIN DIVISION		
	Reach 3	Reach 4	Reach 5	Reach 6	Reach 7	Subtotal	Reach 8C	Reach 8D	Reach 9
	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)
1968	115,907	408,491	157,734	47,521	86,396	816,049	0	0	0
1969	174,000	595,000	251,000	89,000	124,000	1,233,000	3,000	178,000	174,000
1970	177,000	603,000	255,000	90,000	126,000	1,251,000	2,000	187,000	185,000
1971	176,000	596,000	251,000	88,000	125,000	1,236,000	2,000	181,000	178,000
1972	174,000	593,000	249,000	88,000	123,000	1,227,000	3,000	180,000	177,000
1973	172,000	589,000	247,000	88,000	123,000	1,219,000	2,000	178,000	176,000
1974	171,000	585,000	246,000	87,000	122,000	1,211,000	2,000	178,000	176,000
1975	172,000	586,000	245,000	87,000	122,000	1,212,000	3,000	176,000	176,000
1976	172,000	582,000	244,000	87,000	122,000	1,207,000	2,000	176,000	176,000
1977	172,000	579,000	244,000	87,000	122,000	1,204,000	2,000	176,000	174,000
1978	172,000	579,000	243,000	87,000	122,000	1,203,000	2,000	176,000	174,000
1979	172,000	580,000	243,000	86,000	122,000	1,203,000	2,000	176,000	173,000
1980	172,000	580,000	244,000	86,000	122,000	1,204,000	3,000	176,000	174,000
1981	172,000	580,000	243,000	85,000	120,000	1,200,000	3,000	175,000	173,000
1982	172,000	580,000	244,000	86,000	122,000	1,204,000	3,000	176,000	174,000
1983	172,000	580,000	243,000	86,000	122,000	1,203,000	3,000	175,000	173,000
1984	172,000	581,000	244,000	86,000	122,000	1,205,000	3,000	176,000	174,000
1985	172,000	581,000	244,000	86,000	122,000	1,205,000	3,000	176,000	174,000
1986	172,000	579,000	242,000	85,000	120,000	1,198,000	3,000	174,000	171,000
1987	172,000	579,000	242,000	85,000	120,000	1,198,000	3,000	173,000	171,000
1988	172,000	579,000	242,000	85,000	120,000	1,198,000	3,000	174,000	171,000
1989	172,000	579,000	242,000	85,000	121,000	1,199,000	3,000	175,000	172,000
1990	172,000	579,000	242,000	85,000	120,000	1,198,000	3,000	174,000	172,000
1991 (a	172,000	579,000	242,000	85,000	122,000	1,200,000	3,000	174,000	172,000

Calendar Year	CALIFORNIA AQUEDUCT (continued)								
	SOUTH SAN JOAQUIN DIVISION (continued)								
	Reach 10A	Reach 11B	Reach 12D	Reach 12E	Reach 13B	Reach 14A	Reach 14B	Reach 14C	Reach 15A
	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)
1969	192,000	108,000	0	0	0	0	0	0	0
1970	200,000	113,000	184,000	129,000	166,000	0	0	0	0
1971	195,000	111,000	178,000	126,000	162,000	553,000	128,000	111,000	394,000
1972	193,000	110,000	177,000	126,000	160,000	546,000	126,000	109,000	391,000
1973	193,000	108,000	176,000	125,000	160,000	542,000	125,000	108,000	388,000
1974	191,000	108,000	174,000	125,000	158,000	539,000	125,000	108,000	387,000
1975	191,000	107,000	174,000	124,000	158,000	538,000	125,000	108,000	388,000
1976	190,000	107,000	173,000	124,000	157,000	534,000	125,000	108,000	384,000
1977	191,000	107,000	173,000	124,000	157,000	533,000	125,000	107,000	384,000
1978	190,000	107,000	172,000	124,000	156,000	532,000	123,000	107,000	383,000
1979	190,000	106,000	173,000	124,000	157,000	532,000	123,000	106,000	384,000
1980	191,000	106,000	175,000	124,000	157,000	534,000	124,000	107,000	383,000
1981	190,000	106,000	173,000	123,000	156,000	532,000	123,000	106,000	383,000
1982	191,000	106,000	174,000	124,000	157,000	533,000	124,000	107,000	383,000
1983	190,000	106,000	173,000	124,000	156,000	533,000	123,000	106,000	383,000
1984	191,000	106,000	174,000	124,000	157,000	533,000	123,000	107,000	383,000
1985	191,000	106,000	174,000	124,000	157,000	533,000	123,000	106,000	383,000
1986	188,000	105,000	171,000	123,000	154,000	530,000	121,000	105,000	383,000
1987	187,000	104,000	171,000	122,000	154,000	530,000	121,000	105,000	383,000
1988	188,000	104,000	171,000	123,000	155,000	531,000	122,000	105,000	383,000
1989 (a	188,000	105,000	172,000	123,000	155,000	531,000	122,000	105,000	383,000

MINIMUM OMP&R COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED THRU MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Calendar Year	CALIFORNIA AQUEDUCT (continued)								
	SOUTH SAN JOAQUIN DIVISION (continued)		TEHACHAPI DIVISION			MOJAVE DIVISION			
	Reach 16A	Subtotal	Reach 17E	Reach 17F	Subtotal	Reach 18A	Reach 19	Reach 19C(b	Reach 20A
	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)
1969	0	655,000	0	0	0	0	0	0	0
1970	0	1,166,000	0	0	0	0	0	0	0
1971	632,000	2,951,000	0	0	0	0	0	0	0
1972	620,000	2,918,000	1,185,000	31,000	1,216,000	129,000	274,000	0	293,000
1973	617,000	2,898,000	1,177,000	33,000	1,210,000	128,000	272,000	0	295,000
1974	612,000	2,883,000	1,171,000	32,000	1,203,000	128,000	271,000	0	293,000
1975	612,000	2,880,000	1,172,000	31,000	1,203,000	129,000	270,000	0	292,000
1976	611,000	2,867,000	1,162,000	30,000	1,192,000	130,000	275,000	0	295,000
1977	606,000	2,859,000	1,159,000	30,000	1,189,000	128,000	268,000	0	289,000
1978	605,000	2,851,000	1,159,000	29,000	1,188,000	128,000	266,000	0	287,000
1979	605,000	2,851,000	1,160,000	29,000	1,189,000	127,000	265,000	0	287,000
1980	607,000	2,861,000	1,160,000	29,000	1,189,000	128,000	265,000	0	286,000
1981	605,000	2,848,000	1,160,000	29,000	1,189,000	127,000	263,000	0	284,000
1982	606,000	2,858,000	1,160,000	29,000	1,189,000	127,000	262,000	0	284,000
1983	605,000	2,850,000	1,160,000	29,000	1,189,000	127,000	263,000	0	282,000
1984	604,000	2,855,000	1,160,000	29,000	1,189,000	126,000	260,000	0	281,000
1985	603,000	2,853,000	1,160,000	29,000	1,189,000	126,000	258,000	0	280,000
1986	601,000	2,829,000	1,160,000	29,000	1,189,000	126,000	258,000	0	279,000
1987	600,000	2,824,000	1,160,000	29,000	1,189,000	126,000	257,000	0	282,000
1988	602,000	2,832,000	1,160,000	29,000	1,189,000	126,000	260,000	0	281,000
1989	601,000	2,835,000	1,160,000	29,000	1,189,000	126,000	258,000	0	280,000
1990	601,000	2,834,000	1,160,000	29,000	1,189,000	126,000	258,000	0	281,000
1991 (a	602,000	2,835,000	1,160,000	29,000	1,189,000	126,000	258,000	0	281,000

Calendar Year	CALIFORNIA AQUEDUCT (continued)								
	MOJAVE DIVISION (continued)							SANTA ANA DIVISION	
	Reach 20B	Reach 21	Reach 22A	Reach 22B	Reach 23	Reach 24	Subtotal	Reach 25	Reach 26A
	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)
1972	250,000	186,000	101,000	1,372,000	22,000	164,000	2,791,000	63,000	692,000
1973	251,000	186,000	101,000	1,370,000	22,000	202,000	2,827,000	64,000	688,000
1974	247,000	186,000	100,000	1,356,000	22,000	185,000	2,788,000	63,000	683,000
1975	248,000	186,000	101,000	1,358,000	22,000	219,000	2,825,000	63,000	684,000
1976	251,000	188,000	101,000	1,366,000	22,000	228,000	2,856,000	62,000	679,000
1977	246,000	183,000	99,000	1,343,000	22,000	213,000	2,791,000	62,000	676,000
1978	244,000	182,000	98,000	1,339,000	22,000	214,000	2,780,000	62,000	676,000
1979	242,000	183,000	98,000	1,340,000	22,000	210,000	2,774,000	63,000	676,000
1980	244,000	182,000	98,000	1,337,000	22,000	212,000	2,774,000	62,000	676,000
1981	242,000	181,000	98,000	1,330,000	22,000	204,000	2,751,000	62,000	676,000
1982	242,000	181,000	98,000	1,327,000	22,000	201,000	2,744,000	62,000	676,000
1983	242,000	181,000	98,000	1,329,000	22,000	201,000	2,745,000	62,000	676,000
1984	240,000	180,000	98,000	1,319,000	22,000	189,000	2,715,000	62,000	676,000
1985	239,000	179,000	98,000	1,316,000	22,000	190,000	2,708,000	62,000	676,000
1986	238,000	179,000	98,000	1,314,000	22,000	185,000	2,699,000	62,000	676,000
1987	238,000	179,000	98,000	1,310,000	22,000	185,000	2,697,000	62,000	676,000
1988	240,000	178,000	98,000	1,317,000	22,000	188,000	2,710,000	62,000	676,000
1989	238,000	180,000	98,000	1,313,000	22,000	186,000	2,701,000	62,000	676,000
1990	238,000	179,000	98,000	1,310,000	22,000	186,000	2,698,000	62,000	676,000
1991 (a	239,000	179,000	98,000	1,314,000	22,000	186,000	2,703,000	62,000	676,000

(b Estimate not available.

MINIMUM OMP&R COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED THRU MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Sheet 4 of 4

Calendar Year	CALIFORNIA AQUEDUCT (continued)								
	SANTA ANA DIVISION (continued)				WEST BRANCH				
	Reach 28G	Reach 28H	Reach 28J	Subtotal	Reach 29A	Reach 29F	Reach 29G	Reach 29H	Reach 29J
	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)
1972	74,000	23,000	0	852,000	532,000	101,000	138,000	116,000	92,000
1973	72,000	24,000	195,000	1,043,000	528,000	102,000	136,000	185,000	93,000
1974	72,000	25,000	213,000	1,056,000	525,000	101,000	137,000	217,000	92,000
1975	72,000	25,000	287,000	1,131,000	526,000	100,000	136,000	200,000	91,000
1976	72,000	25,000	289,000	1,127,000	521,000	105,000	138,000	198,000	91,000
1977	72,000	24,000	280,000	1,114,000	519,000	99,000	135,000	194,000	91,000
1978	72,000	24,000	271,000	1,105,000	518,000	98,000	134,000	198,000	91,000
1979	72,000	24,000	276,000	1,111,000	519,000	98,000	135,000	196,000	91,000
1980	72,000	24,000	265,000	1,099,000	519,000	98,000	134,000	195,000	92,000
1981	72,000	24,000	271,000	1,105,000	519,000	98,000	134,000	199,000	92,000
1982	72,000	24,000	272,000	1,106,000	519,000	97,000	133,000	198,000	92,000
1983	72,000	24,000	276,000	1,110,000	518,000	98,000	134,000	203,000	92,000
1984	72,000	24,000	273,000	1,107,000	519,000	96,000	132,000	197,000	92,000
1985	72,000	24,000	274,000	1,108,000	518,000	94,000	132,000	196,000	92,000
1986	72,000	24,000	256,000	1,090,000	518,000	94,000	132,000	190,000	92,000
1987	72,000	24,000	259,000	1,093,000	518,000	93,000	131,000	190,000	92,000
1988	72,000	24,000	266,000	1,100,000	518,000	95,000	132,000	198,000	92,000
1989	72,000	24,000	258,000	1,092,000	518,000	94,000	132,000	197,000	92,000
1990	72,000	24,000	263,000	1,097,000	518,000	94,000	132,000	198,000	92,000
1991 (a	72,000	24,000	256,000	1,090,000	518,000	94,000	132,000	199,000	92,000

Calendar Year	CALIFORNIA AQUEDUCT (continued)							TOTAL	GRAND TOTAL
	WEST BRANCH (continued)		COASTAL BRANCH						
	Reach 30	Subtotal	Reach 31A	Reach 33A	Reach 34	Reach 35	Subtotal		
	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)
1962	0	0	0	0	0	0	0	0	79,854
1963	0	0	0	0	0	0	0	0	145,733
1964	0	0	0	0	0	0	0	0	156,606
1965	0	0	0	0	0	0	0	0	353,910
1966	0	0	0	0	0	0	0	0	382,502
1967	0	0	0	0	0	0	0	0	579,853
1968	0	0	0	0	0	0	0	2,163,788	2,606,942
1969	0	0	459,000	0	0	0	459,000	4,577,000	5,132,000
1970	0	0	455,000	0	0	0	455,000	5,096,000	5,800,200
1971	0	0	308,000	0	0	0	308,000	6,698,000	7,397,200
1972	302,000	1,281,000	306,000	0	0	0	306,000	12,786,000	13,479,200
1973	334,000	1,378,000	305,000	0	0	0	305,000	13,058,000	13,748,200
1974	412,000	1,484,000	302,000	0	0	0	302,000	13,096,000	13,782,200
1975	355,000	1,408,000	303,000	0	0	0	303,000	13,133,000	13,812,200
1976	342,000	1,395,000	300,000	0	0	0	300,000	13,100,000	13,775,200
1977	324,000	1,362,000	299,000	0	0	0	299,000	12,971,000	13,642,200
1978	326,000	1,365,000	299,000	0	0	0	299,000	12,943,000	13,615,200
1979	329,000	1,368,000	300,000	0	0	0	300,000	12,950,000	13,621,200
1980	328,000	1,366,000	299,000	180,000	26,000	59,000	564,000	13,121,000	13,983,200
1981	338,000	1,380,000	298,000	177,000	23,000	55,000	553,000	13,084,000	13,946,200
1982	334,000	1,373,000	298,000	173,000	20,000	49,000	540,000	13,078,000	13,939,200
1983	341,000	1,386,000	298,000	170,000	19,000	45,000	532,000	13,076,000	13,937,200
1984	321,000	1,357,000	298,000	170,000	18,000	45,000	531,000	13,024,000	13,885,200
1985	310,000	1,342,000	298,000	169,000	17,000	43,000	527,000	12,997,000	13,858,200
1986	312,000	1,338,000	297,000	168,000	17,000	42,000	524,000	12,923,000	13,782,200
1987	316,000	1,340,000	297,000	168,000	17,000	42,000	524,000	12,919,000	13,777,200
1988	325,000	1,360,000	297,000	167,000	17,000	41,000	522,000	12,966,000	13,824,200
1989	325,000	1,358,000	297,000	167,000	17,000	41,000	522,000	12,953,000	13,811,200
1990	321,000	1,355,000	297,000	167,000	16,000	40,000	520,000	12,948,000	13,806,200
1991 (a	323,000	1,358,000	297,000	167,000	16,000	40,000	520,000	12,952,000	13,810,200

VARIABLE OMP&R COSTS TO BE REIMBURSED THRU VARIABLE OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Calendar Year	NORTH BAY AQUEDUCT			SOUTH BAY AQUEDUCT		CALIFORNIA AQUEDUCT						
	Reach 1	Reach 3		Reach 1		Reach 1	Reach 4	Reach 14A	Reach 15A	Reach 16A	Reach 17E	Reach 22B
	Calhoun Pumping Plant	Cordelia Pumping Plant	Total	South Bay and Del Valle Pumping Plants (a	Total	Delta Pumping Plant	Dos Amigos Pumping Plant	Buena Vista Pumping Plant	Wheeler Ridge Pumping Plant	Wind Gap Pumping Plant	A. D. Edmonston Pumping Plant	Pear-blossom Pumping Plant
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1961	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	37,739	37,739	0	0	0	0	0	0	0
1963	0	0	0	59,271	59,271	0	0	0	0	0	0	0
1964	0	0	0	74,487	74,487	0	0	0	0	0	0	0
1965	0	0	0	144,117	144,117	0	0	0	0	0	0	0
1966	0	0	0	199,466	199,466	0	0	0	0	0	0	0
1967	0	0	0	228,939	228,939	20,937	0	0	0	0	0	0
1968	0	9,887	9,887	417,803	417,803	412,976	280,037	0	0	0	0	0
1969	0	18,000	18,000	393,159	393,159	383,851	149,901	0	0	0	0	0
1970	0	25,000	25,000	585,740	585,740	485,740	231,340	17,648	3,050	0	0	0
1971	0	28,000	28,000	577,493	577,493	585,278	292,843	146,251	107,130	210,987	707,543	0
1972	0	23,000	23,000	496,162	496,162	1,155,917	470,229	442,050	449,662	844,333	3,052,251	461,765
1973	0	27,000	27,000	552,302	552,302	1,323,240	616,312	573,447	598,641	1,162,442	4,276,299	669,102
1974	0	30,000	30,000	558,421	558,421	1,569,164	697,079	681,992	718,088	1,412,006	5,201,060	715,222
1975	0	34,000	34,000	581,893	581,893	1,486,590	927,797	809,866	868,696	1,680,976	6,194,301	653,265
1976	0	36,000	36,000	577,410	577,410	1,827,944	1,118,600	1,033,268	1,115,074	2,210,536	8,169,833	758,420
1977	0	38,000	38,000	566,176	566,176	2,283,780	1,135,521	1,027,376	1,097,682	2,196,814	8,162,264	827,529
1978	0	39,000	39,000	572,289	572,289	2,441,071	1,235,746	1,113,253	1,202,686	2,394,220	8,892,787	949,884
1979	0	38,000	38,000	540,726	540,726	2,718,508	1,239,698	1,192,468	1,296,925	2,610,277	9,682,688	1,145,203
1980	10,195	45,000	55,195	520,728	520,728	3,394,556	1,349,976	1,366,722	1,408,262	3,064,557	10,599,561	1,132,371
1981	11,274	52,000	63,274	505,546	505,546	3,203,500	1,390,294	1,388,559	1,431,064	3,117,429	11,556,050	1,187,886
1982	11,349	54,000	65,349	500,977	500,977	4,061,823	1,469,637	1,495,791	1,553,687	3,390,747	11,833,746	1,306,580
1983	10,459	56,000	66,459	486,719	486,719	4,054,549	1,529,144	1,581,007	1,651,785	3,610,732	13,399,093	1,516,349
1984	10,503	58,000	68,503	469,534	469,534	4,777,773	1,534,917	1,574,579	1,647,171	3,598,860	13,342,520	1,496,416
1985	11,508	60,000	71,508	470,729	470,729	5,072,111	1,570,308	1,588,692	1,752,932	3,827,673	13,482,526	1,773,404
1986	12,520	67,000	79,520	476,773	476,773	3,987,575	1,699,244	1,739,390	1,833,873	4,004,599	14,871,241	1,848,678
1987	12,573	68,000	80,573	474,081	474,081	3,988,737	1,740,803	1,821,316	1,928,409	4,212,459	15,646,659	1,723,987
1988	13,615	69,000	82,615	478,169	478,169	4,304,591	1,941,788	2,105,021	2,154,456	4,710,622	17,526,757	1,790,405
1989	13,671	68,000	81,671	472,731	472,731	5,069,148	1,929,682	2,107,229	2,169,663	4,744,016	17,642,646	1,822,208
1990	14,673	70,000	84,673	479,893	479,893	5,205,229	2,000,158	2,144,392	2,205,722	5,033,627	17,928,096	1,838,083
1991	14,673	70,000	84,673	486,180	486,180	5,268,943	2,016,531	2,249,632	2,326,684	5,090,074	18,136,538	2,081,917
1992	14,673	70,000	84,673	486,610	486,610	5,271,459	2,017,372	2,250,975	2,328,162	5,093,375	18,148,599	2,044,947
1993	14,673	70,000	84,673	487,015	487,015	5,271,909	2,017,372	2,250,975	2,328,162	5,093,375	18,148,599	2,044,947
1994	14,673	70,000	84,673	487,335	487,335	5,272,284	2,017,372	2,250,975	2,328,162	5,093,375	18,148,599	2,044,947
1995	14,673	70,000	84,673	487,469	487,469	5,272,446	2,017,372	2,250,975	2,328,162	5,093,375	18,148,599	2,044,947
1996	14,673	70,000	84,673	487,600	487,600	5,272,608	2,017,372	2,250,975	2,328,162	5,093,375	18,148,599	2,044,947
1997	14,673	70,000	84,673	487,729	487,729	5,272,771	2,017,372	2,250,975	2,328,162	5,093,375	18,148,599	2,044,947
1998	14,673	70,000	84,673	487,729	487,729	5,272,771	2,017,372	2,250,975	2,328,162	5,093,375	18,148,599	2,044,947
1999	14,673	70,000	84,673	487,729	487,729	5,272,771	2,017,372	2,250,975	2,328,162	5,093,375	18,148,599	2,044,947
2000 (b	14,673	70,000	84,673	487,729	487,729	5,272,771	2,017,372	2,250,975	2,328,162	5,093,375	18,148,599	2,044,947

a) The relatively minor estimated costs of Del Valle Pumping Plant have been combined with those of South Bay Pumping Plant to simplify the allocation procedure.

b) And each year thereafter for the remainder of the project repayment period.

VARIABLE OMP&R COSTS TO BE REIMBURSED THRU VARIABLE OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Sheet 2 of 2

Calendar Year	CALIFORNIA AQUEDUCT (Continued)										GRAND TOTAL
	Reach 24	Reach 26A	Reach 28J	Reach 29A	Reach 29H	Reach 29J	Reach 30	Reach 31A	Reach 33A		
	Silverwood Lake(c	Devil Canyon Powerplant	Lake Perris(c	Oso Pumping Plant	Pyramid Lake(c	Castaic Powerplant	Castaic Lake(c	Las Perillas and Badger Hill Pumping Plants	Devil's Den, Sawtooth and Polonio PP's and San Luis Obispo Pwp	Total	
	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
1961	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	37,739
1963	0	0	0	0	0	0	0	0	0	0	59,271
1964	0	0	0	0	0	0	0	0	0	0	74,487
1965	0	0	0	0	0	0	0	0	0	0	144,117
1966	0	0	0	0	0	0	0	0	0	0	199,466
1967	0	0	0	0	0	0	0	0	0	20,937	249,876
1968	0	0	0	0	0	0	0	136,134	0	829,147	1,256,837
1969	0	0	0	0	0	0	0	60,597	0	594,349	1,005,508
1970	0	0	0	0	0	0	0	111,530	0	849,308	1,460,048
1971	0	0	0	108,427	0	109,275-	0	89,687	0	2,138,871	2,744,364
1972	0	518,000-	0	264,345	0	512,106-	0	75,330	0	6,185,776	6,704,938
1973	128,732-	923,491-	0	300,240	0	1,369,265-	189,756-	111,618	0	7,020,097	7,599,399
1974	42,176-	1,218,321-	334,468-	396,290	528,146-	1,474,116-	170,312	133,011	0	8,096,997	8,685,418
1975	26,953	947,728-	311,187	550,821	216,104	2,606,656-	33,500-	152,839	0	10,291,511	10,907,404
1976	163,762	1,435,417-	313,504-	759,806	6,544	4,130,885-	840,040-	155,047	0	10,598,988	11,212,398
1977	0	1,336,309-	95,632-	699,830	33,351-	3,815,175-	26,160-	165,064	0	12,289,233	12,893,409
1978	70,078-	1,582,434-	82,650-	732,583	92,668	3,767,596-	137,523	175,065	0	13,864,728	14,476,017
1979	12,820	1,571,869-	6,718-	828,252	0	3,868,029-	28,519-	181,119	0	15,432,823	16,011,549
1980	1,670	2,002,895-	39,407	892,382	0	4,542,672-	85,645	176,873	50,695	17,017,110	17,593,033
1981	171,790-	1,608,165-	20,149-	979,552	0	4,169,694-	55,611	174,698	63,000	18,577,845	19,146,665
1982	180,537-	1,660,893-	1,169	1,007,630	0	4,193,000-	207,202-	183,816	84,000	20,146,994	20,713,320
1983	99,059-	1,782,014-	288,441	1,175,820	91,696-	4,161,336-	30,238-	172,523	97,364	22,912,464	23,465,642
1984	191,072	1,932,571-	404,543-	1,109,925	83,550	4,150,632-	840,463-	176,788	139,415	22,344,777	22,882,814
1985	165,240	1,936,261-	70,721	1,122,848	0	3,857,040-	138,305	183,103	181,867	25,136,429	25,678,666
1986	102,726	2,720,881-	89,179-	1,219,625	83,862-	4,806,690-	25,413-	202,991	226,918	24,010,836	24,567,129
1987	73,068-	2,575,502-	70,162	1,311,462	79,349	4,532,176-	244,848	206,247	276,283	26,069,975	26,624,629
1988	79,711-	2,572,949-	21,485-	1,467,533	84,766-	4,971,967-	215,554-	226,148	310,677	28,591,567	29,152,351
1989	93,713	2,533,361-	108,505-	1,452,677	74,547	4,824,270-	29,105-	222,632	411,310	30,244,230	30,798,632
1990	64,255	2,412,578-	9,373	1,527,711	82,847-	4,667,523-	14,945	245,590	440,287	31,494,520	32,059,086
1991	3,207-	2,598,087-	172,729-	1,452,564	80,555	4,708,800-	116,363	246,573	441,261	32,024,812	32,595,665
1992	0	2,542,543-	0	1,468,484	0	4,681,144-	0	246,573	441,261	32,087,520	32,658,803
1993	0	2,542,543-	0	1,468,484	0	4,681,144-	0	246,573	441,261	32,087,970	32,659,658
1994	0	2,542,543-	0	1,468,484	0	4,681,144-	0	246,573	441,261	32,088,345	32,660,353
1995	0	2,542,543-	0	1,468,484	0	4,681,144-	0	246,573	441,261	32,088,507	32,660,649
1996	0	2,542,543-	0	1,468,484	0	4,681,144-	0	246,573	441,261	32,088,669	32,660,942
1997	0	2,542,543-	0	1,468,484	0	4,641,624-	0	246,573	441,261	32,128,352	32,700,754
1998	0	2,542,543-	0	1,468,484	0	4,641,624-	0	246,573	441,261	32,128,352	32,700,754
1999	0	2,542,543-	0	1,468,484	0	4,641,624-	0	246,573	441,261	32,128,352	32,700,754
2000 (b	0	2,542,543-	0	1,468,484	0	4,641,624-	0	246,573	441,261	32,128,352	32,700,754

c) These values represent a proportionate allocation of the total variable OMP&R costs of pumping and power recovery plants (Table B-3) associated with net annual changes in reservoir storage for the project transportation facilities. The allocation is determined annually by applying the following ratio, calculated from the data shown in Table B-6:

"Reservoir Storage Changes" conveyed thru each plant (in acre-feet)
÷ "Total" annual quantity conveyed thru each plant (in acre-feet).

The costs so determined are accumulated for all upstream plants for each year, for each respective reservoir. Such costs for years during net annual withdrawals from storage are hypothetical and offset those hypothetical cost increases of conveying such "withdrawal amounts" thru upstream plants under the allocation procedure outlined in footnote c, Table B-6.

TABLE B-13

CAPITAL AND OPERATING COSTS OF PROJECT CONSERVATION FACILITIES TO BE REIMBURSED THRU DELTA WATER CHARGE

(in dollars)

Calendar Year	INITIAL FACILITIES			ADDITIONAL FACILITIES								Total (d
	CONSERVATION WATER SUPPLY AND OROVILLE POWER			DOS RIOS-GRINDSTONE TUNNEL		STONY CREEK CONVEYANCE CHANNEL		DOS RIOS DAM AND RESERVOIR				
								Initial Storage		Reserved Storage		
	Capital Costs (a	Operating Costs (b	Oroville Power Revenues	Capital Costs (a	Operating Costs (c	Capital Costs (a	Operating Costs (c	Capital Costs (a	Operating Costs (c	Capital Costs (a	Operating Costs (c	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1952	144,676	0	0	0	0	0	0	0	0	0	0	144,676
1953	266,138	0	0	0	0	0	0	0	0	0	0	266,138
1954	262,373	0	0	0	0	0	0	0	0	0	0	262,373
1955	166,860	0	0	0	0	0	0	0	0	0	0	166,860
1956	1,128,265	0	0	0	0	0	0	0	0	0	0	1,128,265
1957	5,095,669	0	0	0	0	0	0	0	0	0	0	5,095,669
1958	7,864,188	0	0	0	0	0	0	0	0	0	0	7,864,188
1959	9,420,732	0	0	0	0	0	0	0	0	0	0	9,420,732
1960	12,106,339	0	0	0	0	0	0	0	0	0	0	12,106,339
1961	15,787,990	0	0	0	0	0	0	0	0	0	0	15,787,990
1962	18,988,904	5,269	0	0	0	0	0	0	0	0	0	18,994,173
1963	55,015,633	309	0	0	0	0	0	0	0	0	0	55,015,942
1964	62,836,627	-6,195	0	42,264	0	17,568	0	64,639	0	41,269	0	62,996,172
1965	69,863,572	2,201	0	216,429	0	89,967	0	331,009	0	211,337	0	70,714,515
1966	134,901,009	17,742	0	393,934	0	163,753	0	602,486	0	384,664	0	136,463,588
1967	99,252,253	4,866	0	389,753	0	162,015	0	596,094	0	380,583	0	100,785,564
1968	39,243,663	2,380,772	0	278,563	0	115,795	0	426,037	0	272,008	0	42,716,838
1969	15,537,000	3,088,000	9,413,000	407,000	0	169,000	0	622,000	0	397,000	0	10,807,000
1970	4,481,000	6,289,000	16,150,000	335,000	0	139,000	0	513,000	0	328,000	0	-4,065,000
1971	1,706,000	6,268,000	16,150,000	336,000	0	139,000	0	513,000	0	328,000	0	-6,860,000
1972	2,699,000	5,855,000	16,150,000	335,000	0	139,000	0	512,000	0	327,000	0	-6,283,000
1973	19,494,000	5,505,000	16,150,000	2,833,000	0	139,000	0	510,000	0	326,000	0	12,657,000
1974	16,605,000	5,795,000	16,150,000	2,686,000	0	77,000	0	285,000	0	182,000	0	9,480,000
1975	16,370,000	5,541,000	16,150,000	2,540,000	0	16,000	0	61,000	0	39,000	0	8,417,000
1976	14,163,000	6,346,000	16,150,000	10,038,000	0	16,000	0	59,000	0	38,000	0	14,510,000
1977	0	6,224,000	16,150,000	13,038,000	0	16,000	0	58,000	0	37,000	0	3,223,000
1978	6,000	6,342,000	16,150,000	13,038,000	0	16,000	0	58,000	0	37,000	0	3,347,000
1979	52,000	5,955,000	16,150,000	13,038,000	0	16,000	0	59,000	0	37,000	0	3,007,000
1980	198,000	5,863,000	19,144,000	13,038,000	0	16,000	0	58,000	0	37,000	0	66,000
1981	593,000	5,487,000	16,616,000	13,038,000	0	16,000	0	58,000	0	37,000	0	2,613,000
1982	571,000	5,477,000	19,325,000	13,038,000	0	16,000	0	58,000	0	37,000	0	-128,000
1983	17,000	5,240,000	16,150,000	14,038,000	0	116,000	0	58,000	0	37,000	0	3,356,000
1984	0	5,939,000	27,191,000	12,038,000	0	116,000	0	58,000	0	37,000	0	-9,003,000
1985	0	4,892,000	16,150,000	3,638,000	0	3,516,000	0	58,000	0	37,000	0	-4,009,000
Subtotal 1952-1985	624,836,891	98,510,964	285,489,000	128,772,943	0	5,227,098	0	5,618,265	0	3,587,861	0	581,065,022
1986	0	6,729,000	16,150,000	0	158,000	0	66,000	5,573,000(e	241,000	0	37,000	-3,346,000
1987	0	6,161,000	16,368,000	0	158,000	0	66,000	5,573,000	241,000	0	37,000	-4,132,000
1988	0	5,871,000	16,150,000	0	158,000	0	66,000	5,573,000	241,000	0	37,000	-4,204,000
1989	0	5,741,000	20,662,000	0	158,000	0	66,000	5,573,000	241,000	0	37,000	-8,846,000
1990	0	5,555,000	21,532,000	0	158,000	0	66,000	5,573,000	241,000	0	37,000	-9,902,000
1991	0	5,880,000	16,150,000	0	158,000	0	66,000	5,573,000	241,000	0	37,000	-4,195,000
1992	0	5,880,000	16,961,000	0	158,000	0	66,000	5,573,000	241,000	0	37,000	-5,006,000
1993	0	5,880,000	16,150,000	0	158,000	0	66,000	5,573,000	241,000	0	37,000	-4,195,000
1994	0	5,880,000	16,150,000	0	158,000	0	66,000	5,573,000	241,000	3,563,000(e	154,000	-515,000
1995	0	5,881,000	16,150,000	0	158,000	0	66,000	5,573,000	241,000	3,563,000	154,000	-514,000
1996	0	5,881,000	18,735,000	0	158,000	0	66,000	5,573,000	241,000	3,563,000	154,000	-3,099,000
1997(f	0	5,881,000	16,150,000	0	158,000	0	66,000	5,573,000	241,000	3,563,000	154,000	-514,000
Subtotal 1986-2035	0	294,698,000	821,008,000	0	7,900,000	0	3,300,000	278,650,000	12,050,000	149,646,000	6,764,000	-68,000,000
TOTAL THRU 2035	624,836,891	393,208,964	1,106,497,000	128,772,943	7,900,000	5,227,098	3,300,000	284,268,265	12,050,000	153,233,861	6,764,000	513,065,022

a) Reimbursed thru capital cost component of Delta Water Charge and thru a portion of Oroville power sales.

b) Reimbursed thru minimum OMP&R component of Delta Water Charge, except that $1,500,000 annually for 1970 thru 2035 will be reimbursed thru Oroville power sales.

c) Reimbursed thru minimum OMP&R component of Delta Water Charge.

d) Total of Columns 1, 2, and 4 thru 11, less Column 3.

e) Beginning payments to Corps of Engineers at 3-1/4 percent interest.

f) And each year thereafter thru year 2035.

CAPITAL COSTS OF TRANSPORTATION FACILITIES ALLOCATED TO EACH CONTRACTOR

(in dollars)

Sheet 1 of 2

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1952	0	0	0	82	99	414	595	124	284	408
1953	0	0	0	325	405	1,826	2,556	339	791	1,130
1954	0	0	0	829	1,094	5,200	7,123	425	992	1,417
1955	0	0	0	989	1,332	6,359	8,680	212	498	710
1956	0	0	0	8,950	12,178	64,397	85,525	221	515	736
1957	16,594	10,040	26,634	21,871	29,608	651,063	702,542	284	667	951
1958	35,427	14,483	49,910	67,497	67,664	731,046	866,207	871	2,035	2,906
1959	24,036	6,430	30,466	150,986	140,179	485,343	776,508	13,611	34,703	48,314
1960	16,525	10,425	26,950	306,136	283,699	933,384	1,523,219	34,323	88,925	123,248
1961	8,142	7,727	15,869	869,909	813,016	1,942,191	3,625,116	18,357	46,130	64,487
1962	3,170	2,519	5,689	522,210	554,846	1,695,690	2,772,746	24,979	59,885	84,864
1963	8,656	6,941	15,597	620,166	1,050,673	3,277,835	4,948,674	130,982	309,241	440,223
1964	60,354	16,797	77,151	677,941	1,212,906	7,258,802	9,149,649	178,597	421,950	600,547
1965	200,187	21,210	221,397	324,413	426,532	3,255,339	4,006,284	277,407	653,331	930,738
1966	460,268	47,399	507,667	528,416	494,567	2,072,791	3,095,774	573,062	1,344,961	1,918,023
1967	1,573,121	48,667	1,621,788	715,907	693,635	2,125,449	3,534,991	919,627	2,155,026	3,074,653
1968	867,546	79,750	947,296	680,451	619,696	1,775,290	3,075,437	338,878	797,352	1,136,230
1969	282,261	169,739	452,000	177,664	167,279	527,038	871,981	62,998	159,808	222,806
1970	114,191	128,809	243,000	22,947	22,899	144,192	190,038	35,060	87,172	122,232
1971	52,131	84,869	137,000	6,731	7,446	48,052	62,229	29,009	72,925	101,934
1972	44,586	67,414	112,000	646	592	14,406	15,644	21,405	54,464	75,869
1973	87,580	132,420	220,000	36,789	40,007	158,973	235,769	49,847	120,553	170,400
1974	105,095	158,905	264,000	20,351	18,504	44,381	83,236	22,126	55,837	77,963
1975	84,637	114,363	199,000	45,343	41,003	99,045	185,391	318,606	896,947	1,215,553
1976	148,184	193,816	342,000	9,794	8,808	21,429	40,031	495,411	1,357,350	1,852,761
1977	236,831	305,169	542,000	0	0	0	0	1,047,206	2,779,927	3,827,133
1978	875,812	878,188	1,754,000	124	113	271	508	5,098,288	13,723,909	18,822,197
1979	2,659,269	2,434,731	5,094,000	1,183	1,083	2,578	4,844	5,261,912	14,604,468	19,866,380
1980	90,074	102,926	193,000	4,459	4,077	9,708	18,244	114,238	365,824	480,062
1981	9,156	13,844	23,000	13,386	12,239	29,145	54,770	123,474	309,102	432,576
1982	0	0	0	12,900	11,794	28,084	52,778	17,928	45,018	62,946
1983	72,452	109,548	182,000	392	357	853	1,602	2,427	5,671	8,098
1984	0	0	0	0	0	0	0	36,274	87,027	123,301
1985	0	0	0	0	0	0	0	23,937	58,039	81,976
1986	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0
TOTAL	8,136,285	5,167,129	13,303,414	5,849,787	6,738,330	27,410,574	39,998,691	15,272,445	40,701,327	55,973,772

CALENDAR YEAR	SAN JOAQUIN VALLEY AREA									
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency		Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agriculture				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1952	88	392	22	58	959	9,403	18	13	736	11,689
1953	241	1,087	53	160	2,957	28,240	56	32	2,023	34,849
1954	302	1,366	71	202	3,451	33,364	67	43	2,548	41,414
1955	150	684	34	102	1,530	15,156	36	23	1,286	19,001
1956	159	710	34	106	2,791	24,725	35	24	1,284	29,868
1957	202	919	37	133	6,242	51,361	38	28	1,546	60,506
1958	618	2,801	130	413	14,736	126,210	131	66	4,987	150,092
1959	3,968	13,440	681	1,979	35,795	355,559	693	388	25,221	437,724
1960	7,861	22,782	1,137	3,355	50,520	540,522	1,165	491	42,509	670,342
1961	6,346	23,648	1,158	3,487	57,896	591,538	1,182	648	43,587	729,490
1962	13,055	55,101	2,705	8,115	107,242	1,149,237	2,764	1,413	101,757	1,440,389
1963	84,837	375,143	19,311	55,264	632,109	6,988,884	19,745	6,390	711,230	8,892,913
1964	115,056	417,981	21,602	61,575	745,177	8,346,118	22,088	11,564	794,182	10,535,343
1965	182,428	589,204	30,088	86,796	1,179,842	13,058,123	30,779	21,961	1,112,179	16,291,400
1966	387,204	1,015,307	47,439	149,568	2,069,872	23,456,083	48,533	38,759	1,826,728	29,039,493
1967	626,731	767,689	34,821	113,089	1,892,061	22,392,198	35,628	34,647	1,359,883	27,256,747
1968	221,389	189,664	9,213	27,940	1,108,117	11,436,746	9,426	12,228	348,420	13,363,143
1969	25,435	141,623	7,174	20,862	946,836	8,963,690	7,341	8,741	266,188	10,387,890
1970	12,343	33,494	1,651	4,934	297,909	2,801,750	1,687	1,399	62,009	3,217,175
1971	9,115	29,895	1,535	4,403	156,130	1,399,584	1,569	1,421	56,579	1,660,231
1972	4,665	19,754	983	2,911	63,596	527,406	1,007	119	36,781	657,222
1973	25,063	113,303	5,864	16,690	189,485	2,078,030	5,993	527	215,442	2,650,397
1974	5,539	25,038	1,287	3,689	47,891	480,291	1,316	2,425	47,428	614,904
1975	6,517	29,462	1,530	4,340	62,417	564,044	1,565	2,883	56,126	728,884
1976	163	734	38	108	9,567	15,521	39	72	1,399	27,641
1977	60,686	0	0	0	3,927	474,181	0	0	0	538,794
1978	5,499	222	12	32	1,066	46,566	12	21	423	53,853
1979	44,583	2,118	110	312	6,204	382,687	112	207	4,035	440,368
1980	9,277	7,976	414	1,175	16,494	201,755	423	781	15,195	253,490
1981	50,369	23,946	1,243	3,527	38,444	781,664	1,272	2,343	45,617	948,425
1982	6,578	23,074	1,199	3,399	37,045	425,367	1,225	2,258	43,957	544,102
1983	1,730	7,815	405	1,152	12,540	140,190	415	68	14,891	179,206
1984	22,058	99,712	5,178	14,689	159,975	1,788,413	5,292	0	189,958	2,285,275
1985	13,234	59,824	3,107	8,813	95,979	1,072,985	3,174	0	113,968	1,371,084
1986	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0
TOTAL	1,953,489	4,095,908	200,266	603,378	10,056,802	110,746,591	204,826	151,983	7,550,102	135,563,345

CAPITAL COSTS OF TRANSPORTATION FACILITIES ALLOCATED TO EACH CONTRACTOR

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1952	3,196	861	259	1,429	71	1,725	425	6,236	1,589	837
1953	10,186	2,722	819	4,489	224	5,422	1,351	19,571	4,980	2,633
1954	12,964	3,538	1,053	5,835	291	7,050	1,724	25,282	6,465	3,407
1955	5,499	1,396	411	2,317	118	2,810	727	9,472	2,436	1,308
1956	9,472	2,148	603	3,552	186	4,358	1,231	13,075	3,412	1,900
1957	26,430	6,410	1,838	10,573	546	12,896	3,465	41,421	10,727	5,836
1958	50,607	11,876	3,367	19,585	1,014	23,970	6,612	74,439	19,361	10,627
1959	79,649	17,795	5,168	29,350	1,530	35,641	10,344	103,981	28,245	15,967
1960	97,647	24,463	7,267	40,354	2,012	48,630	12,890	153,695	40,576	22,610
1961	134,467	33,995	9,567	56,061	2,683	68,476	17,541	199,111	51,607	29,257
1962	186,850	44,349	12,706	73,142	3,444	88,891	24,013	251,185	65,335	37,863
1963	821,446	169,183	46,721	279,009	14,689	343,384	104,578	867,953	230,237	137,521
1964	1,216,047	243,900	64,979	402,238	21,370	499,544	154,710	1,213,840	325,915	193,443
1965	1,995,183	401,764	108,090	662,591	34,326	820,474	254,622	2,002,488	536,876	324,804
1966	3,876,410	802,366	213,693	1,323,257	67,777	1,642,173	504,463	3,904,697	1,051,278	637,795
1967	4,882,456	1,067,465	294,508	1,760,477	87,284	2,159,690	645,131	5,757,481	1,531,744	930,625
1968	5,989,168	1,371,357	375,422	2,261,635	109,279	2,776,582	790,528	8,228,888	2,193,150	1,314,817
1969	8,450,501	2,596,211	813,941	4,281,742	164,819	5,042,029	1,181,758	15,259,659	3,904,714	2,381,349
1970	4,222,821	2,040,531	663,303	3,365,305	96,323	3,925,919	651,635	14,953,953	3,621,513	1,968,589
1971	1,699,513	681,786	266,558	1,124,447	32,470	1,213,595	235,238	6,121,098	1,472,705	752,413
1972	491,543	166,538	56,050	274,664	8,911	314,826	65,556	1,033,950	258,474	155,305
1973	341,501	111,422	29,863	183,766	6,695	227,677	47,583	614,624	165,033	88,274
1974	174,809	58,454	15,561	96,401	3,051	119,282	22,603	883,493	236,881	45,741
1975	324,814	111,243	28,133	183,459	5,434	229,966	40,797	1,327,418	358,466	83,878
1976	302,312	48,787	12,337	80,458	3,469	100,759	26,038	223,851	61,373	36,786
1977	835,486	17,872	4,519	29,474	1,648	36,904	12,370	79,925	21,925	13,476
1978	403,162	3,295	833	5,434	305	6,805	2,281	14,736	4,043	2,485
1979	4,562,300	20,879	6,172	34,434	1,484	41,319	10,825	109,204	28,500	17,659
1980	2,312,712	28,912	8,472	47,681	2,096	57,398	15,337	149,933	39,242	24,301
1981	41,212	7,408	1,874	12,217	690	15,440	5,176	47,810	12,564	6,569
1982	39,713	7,138	1,806	11,773	664	14,879	4,988	46,605	12,232	6,366
1983	13,439	2,416	610	3,985	225	5,036	1,687	10,806	2,974	1,823
1984	171,445	30,824	7,795	50,834	2,869	64,233	21,533	137,855	37,941	23,243
1985	102,861	18,494	4,676	30,499	1,721	38,536	12,920	82,709	22,763	13,945
1986	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0
TOTAL	43,887,821	10,157,798	3,068,974	16,752,467	679,718	19,996,319	4,892,680	63,979,444	16,365,276	9,293,452

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR, South Bay	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley water Agency	Ventura County Flood Control District	Total	City of Yuba City	County of Butte	Plumas County FC & WCD	Total		
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1952	70,391	791	376	88,186	0	0	0	0	74	100,952
1953	222,462	2,552	1,205	278,616	0	0	0	0	333	317,484
1954	286,469	3,220	1,520	358,818	0	0	0	0	968	409,740
1955	114,004	1,439	677	142,614	0	0	0	0	1,201	172,206
1956	175,984	2,624	1,254	219,799	0	0	0	0	11,442	347,370
1957	522,274	7,109	3,376	652,901	0	0	0	0	29,000	1,472,534
1958	969,231	13,826	6,578	1,211,093	0	0	0	0	36,408	2,316,616
1959	1,502,698	23,456	11,101	1,869,925	0	0	0	0	58,753	3,221,690
1960	2,105,629	30,948	14,527	2,606,248	0	0	0	0	129,733	5,079,740
1961	3,752,935	43,430	20,335	4,418,465	0	0	0	0	329,573	9,183,000
1962	3,899,912	69,094	32,075	4,788,859	0	0	0	0	249,089	9,341,636
1963	15,524,254	267,737	127,612	18,934,324	0	0	0	0	649,370	33,881,101
1964	20,835,637	402,108	188,339	25,762,070	0	0	7,823	7,823	968,330	47,100,913
1965	35,984,263	712,808	329,215	44,167,504	0	0	3,168	3,168	416,698	66,037,189
1966	73,522,699	1,477,930	676,181	89,700,719	0	0	26	26	825,206	125,086,908
1967	130,885,147	2,830,113	1,285,166	154,117,287	0	0	239	239	1,604,961	191,210,666
1968	150,835,287	3,048,534	1,394,624	180,689,271	0	0	51,757	51,757	1,313,776	200,576,910
1969	212,850,295	3,739,355	1,649,786	262,316,159	0	0	208,000	208,000	244,164	274,703,000
1970	186,330,935	2,367,779	1,053,465	225,262,071	0	0	15,000	15,000	57,483	229,107,000
1971	69,001,996	386,580	164,546	83,152,945	0	0	0	0	11,661	85,126,000
1972	28,156,216	111,476	18,530	31,112,039	0	0	0	0	226	31,973,000
1973	13,959,981	253,396	65,789	16,095,604	0	0	0	0	53,430	19,425,600
1974	8,691,569	108,342	43,670	10,499,857	0	0	0	0	23,440	11,563,400
1975	10,654,174	103,335	49,124	13,500,241	0	0	0	0	87,931	15,917,000
1976	4,019,088	73,651	33,861	5,022,770	0	0	0	0	26,797	7,312,000
1977	2,253,194	51,292	21,988	3,380,073	0	0	0	0	0	8,288,000
1978	1,128,012	29,059	10,947	1,611,397	0	0	0	0	45	22,242,000
1979	1,341,407	22,821	10,977	6,207,981	0	0	0	0	427	31,614,000
1980	1,879,609	32,326	15,579	4,613,598	0	0	0	0	1,606	5,560,000
1981	834,937	12,490	6,019	1,004,406	0	0	0	0	4,823	2,468,000
1982	812,527	12,036	5,800	976,527	0	0	0	0	4,647	1,641,000
1983	200,913	4,075	1,964	249,953	0	0	0	0	141	621,000
1984	2,562,853	51,960	25,039	3,188,424	0	0	0	0	0	5,597,000
1985	1,537,619	31,174	15,023	1,912,940	0	0	0	0	0	3,366,000
1986	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0
TOTAL	987,424,601	16,328,866	7,286,268	1,200,113,684	0	0	286,013	295,013	7,141,736	1,452,380,655

CAPITAL COST COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	94,750	92,514	326,606	513,870	0	0	0
1964	0	0	0	105,710	141,115	478,230	725,055	10,308	25,081	35,389
1965	0	0	0	132,701	197,221	814,003	1,143,925	17,077	41,114	58,191
1966	18,754	0	18,754	145,617	216,952	964,586	1,327,155	26,467	63,299	89,766
1967	40,045	0	40,045	166,654	239,829	1,060,468	1,466,951	42,228	100,424	142,652
1968	112,814	0	112,814	195,157	271,915	1,158,785	1,625,857	54,569	129,611	184,180
1969	152,945	0	152,945	222,247	300,580	1,240,906	1,763,733	58,386	138,808	197,194
1970	166,002	0	166,002	229,319	308,318	1,265,285	1,802,922	61,689	147,110	208,799
1971	171,284	29,515	200,799	230,232	309,378	1,271,955	1,811,565	62,985	150,381	213,366
1972	173,695	33,441	207,136	281,594	309,722	1,274,178	1,865,494	64,161	153,368	217,529
1973	175,758	36,559	212,317	281,624	309,750	1,274,844	1,866,218	65,132	155,843	220,975
1974	179,809	42,684	222,493	283,326	311,601	1,282,198	1,877,125	67,438	161,419	228,857
1975	184,671	50,035	234,706	284,268	312,456	1,284,250	1,880,974	68,462	164,003	232,465
1976	188,586	55,325	243,911	286,365	314,353	1,288,832	1,889,550	163,955	394,023	557,978
1977	195,441	64,291	259,732	286,818	314,760	1,289,823	1,891,401	186,871	456,810	643,681
1978	206,396	78,408	284,804	286,818	314,760	1,289,823	1,891,401	235,312	585,402	820,714
1979	246,908	119,030	365,938	286,824	314,765	1,289,836	1,891,425	471,145	1,220,234	1,691,379
1980	369,919	231,654	601,573	286,879	314,816	1,289,955	1,891,650	714,548	1,895,797	2,610,345
1981	374,086	236,415	610,501	287,085	315,004	1,290,404	1,892,493	719,832	1,912,719	2,632,551
1982	374,509	237,055	611,564	287,703	315,570	1,291,753	1,895,026	725,543	1,927,018	2,652,561
1983	374,509	237,055	611,564	288,300	316,116	1,293,052	1,897,468	726,373	1,929,100	2,655,473
1984	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	726,485	1,929,362	2,655,847
1985	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	728,163	1,933,388	2,661,551
1986	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1987	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1988	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1989	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1990	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1991	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1992	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1993	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1994	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1995	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1996	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1997	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1998	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
1999	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2000	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2001	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2002	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2003	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2004	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2005	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2006	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2007	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2008	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2009	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2010	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2011	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2012	377,861	242,123	619,984	288,318	316,132	1,293,091	1,897,541	729,270	1,936,072	2,665,342
2013	377,861	242,123	619,984	187,217	223,618	966,485	1,377,320	729,270	1,936,072	2,665,342
2014	377,861	242,123	619,984	156,698	175,017	814,861	1,146,576	718,962	1,910,991	2,629,953
2015	377,861	242,123	619,984	123,638	118,911	479,088	721,637	712,193	1,894,959	2,607,152
2016	359,107	242,123	601,230	107,954	99,181	328,505	535,640	702,804	1,872,774	2,575,578
2017	337,816	242,123	579,939	82,618	76,304	232,624	391,546	687,043	1,835,648	2,522,691
2018	265,047	242,123	507,170	48,561	44,218	134,306	227,085	674,701	1,806,462	2,481,163
2019	224,916	242,123	467,039	16,432	15,552	52,186	84,170	670,884	1,797,264	2,468,148
2020	211,859	242,123	453,982	8,103	7,814	27,806	43,723	667,581	1,788,963	2,456,544
2021	206,577	212,608	419,185	7,035	6,755	21,137	34,927	666,285	1,785,691	2,451,976
2022	204,166	208,682	412,848	6,724	6,410	18,914	32,048	665,109	1,782,704	2,447,813
2023	202,103	205,564	407,667	6,694	6,382	18,247	31,323	664,139	1,780,230	2,444,369
2024	198,052	199,439	397,491	4,992	4,532	10,894	20,418	661,833	1,774,653	2,436,486
2025	193,190	192,088	385,278	4,051	3,676	8,841	16,568	660,809	1,772,070	2,432,879
2026	189,275	186,798	376,073	1,954	1,779	4,260	7,993	565,315	1,542,049	2,107,364
2027	182,420	177,832	360,252	1,500	1,372	3,268	6,140	542,399	1,479,262	2,021,661
2028	171,465	163,715	335,180	1,500	1,372	3,268	6,140	493,958	1,350,670	1,844,628
2029	130,953	123,093	254,046	1,494	1,367	3,256	6,117	258,125	715,839	973,964
2030	7,942	10,469	18,411	1,440	1,317	3,137	5,894	14,722	40,275	54,997
2031	3,775	5,708	9,483	1,234	1,129	2,687	5,050	9,438	23,354	32,792
2032	3,352	5,068	8,420	615	562	1,339	2,516	3,727	9,055	12,782
2033	3,352	5,068	8,420	18	17	40	75	2,897	6,973	9,870
2034	0	0	0	0	0	0	0	2,785	6,710	9,495
2035	0	0	0	0	0	0	0	1,107	2,684	3,791

a) Unadjusted for prior overpayments or underpayments of charges.

CAPITAL COST COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY AREA									
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency		Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agriculture				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	80,061	0	0	0	0	80,061
1966	0	0	0	0	134,638	0	0	0	0	134,638
1967	0	0	0	0	230,385	0	0	0	0	230,385
1968	27,473	62,391	2,979	0	317,907	332,026	8,111	3,389	52,633	806,909
1969	37,125	62,500	8,938	10,779	369,166	681,865	8,547	3,683	188,834	1,371,437
1970	42,324	68,499	8,938	11,227	412,964	1,033,842	8,887	3,831	136,631	1,727,143
1971	49,749	78,099	8,938	10,329	426,744	1,180,119	8,965	4,126	146,942	1,914,011
1972	57,174	87,260	8,938	11,677	433,967	1,733,520	9,037	4,272	157,685	2,503,530
1973	64,599	95,987	8,938	13,023	436,908	1,989,309	9,084	4,568	167,996	2,790,412
1974	72,024	105,149	8,938	14,820	445,673	2,130,384	9,361	4,715	184,753	2,975,817
1975	79,449	114,311	8,938	16,167	447,888	2,371,210	9,421	5,010	201,509	3,253,903
1976	86,874	123,474	8,938	17,515	450,775	2,683,999	9,494	5,157	218,267	3,604,493
1977	94,299	132,636	8,938	18,862	451,218	3,013,888	9,495	5,452	235,452	3,970,240
1978	94,299	141,799	8,938	20,658	451,399	3,350,189	9,495	5,747	252,209	4,334,733
1979	94,299	150,960	8,938	22,006	451,449	3,678,653	9,496	5,893	268,966	4,690,660
1980	94,299	160,123	8,938	23,353	451,736	4,014,243	9,501	6,188	285,722	5,054,103
1981	94,299	169,285	8,938	25,150	452,499	4,393,294	9,521	6,336	302,479	5,461,801
1982	94,299	178,884	8,938	26,496	454,277	4,743,133	9,580	6,630	319,236	5,841,473
1983	94,299	187,174	8,938	27,844	455,991	5,141,422	9,636	6,778	335,992	6,268,074
1984	94,299	196,772	8,938	29,191	456,572	5,500,523	9,655	7,073	352,749	6,655,772
1985	94,299	205,935	8,938	30,988	463,972	5,850,363	9,899	7,220	369,505	7,041,119
1986	94,299	215,097	8,938	32,335	468,412	6,197,351	10,046	7,514	386,692	7,420,684
1987	94,299	224,260	8,938	33,682	468,412	6,550,753	10,046	7,662	403,448	7,801,500
1988	94,299	233,422	8,938	35,029	468,412	6,880,642	10,046	7,957	420,206	8,158,951
1989	94,299	242,584	8,938	36,825	468,412	7,118,617	10,046	8,251	436,962	8,424,934
1990	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
1991	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
1992	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
1993	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
1994	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
1995	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
1996	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
1997	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
1998	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
1999	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2000	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2001	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2002	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2003	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2004	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2005	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2006	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2007	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2008	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2009	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2010	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2011	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2012	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2013	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2014	94,299	251,746	8,938	38,173	468,412	7,370,131	10,046	8,398	472,624	8,722,767
2015	94,299	251,746	8,938	38,173	388,351	7,370,131	10,046	8,398	472,624	8,642,706
2016	94,299	251,746	8,938	38,173	333,774	7,370,131	10,046	8,398	472,624	8,588,129
2017	94,299	251,746	8,938	38,173	238,027	7,370,131	10,046	8,398	472,624	8,492,382
2018	94,299	251,746	8,938	38,173	150,505	7,370,131	1,935	8,398	472,624	8,396,749
2019	94,299	251,746	8,938	38,173	99,246	7,370,131	1,499	8,398	472,624	8,345,054
2020	94,299	251,746	8,938	38,173	55,448	7,370,131	1,159	8,398	472,624	8,300,916
2021	94,299	251,746	8,938	38,173	41,667	7,370,131	1,081	8,398	472,624	8,287,057
2022	94,299	251,746	8,938	38,173	34,445	7,370,131	1,009	8,398	472,624	8,279,763
2023	94,299	251,746	8,938	38,173	31,503	7,370,131	962	8,398	472,624	8,276,774
2024	94,299	251,746	8,938	38,173	22,739	7,370,131	685	8,398	472,624	8,267,733
2025	94,299	251,746	8,938	38,173	20,524	7,370,131	625	8,398	472,624	8,265,458
2026	94,299	251,746	8,938	38,173	17,636	7,370,131	553	8,398	472,624	8,262,498
2027	94,299	251,746	8,938	38,173	17,194	7,370,131	551	8,398	472,624	8,262,054
2028	94,299	251,746	8,938	38,173	17,013	7,370,131	551	8,398	472,624	8,261,873
2029	94,299	251,746	8,938	38,173	16,963	7,370,131	550	8,398	472,624	8,261,822
2030	94,299	251,746	8,938	38,173	16,676	7,370,131	545	8,398	472,624	8,261,530
2031	94,299	251,746	8,938	38,173	15,913	7,370,131	525	8,398	472,624	8,260,747
2032	94,299	251,746	8,938	38,173	14,134	7,370,131	466	8,398	472,624	8,258,909
2033	94,299	251,746	8,938	38,173	12,420	7,370,131	410	8,398	472,624	8,257,139
2034	94,299	251,746	8,938	38,173	11,840	7,370,131	391	8,398	472,624	8,256,540
2035	94,299	251,746	8,938	38,173	4,440	7,370,131	147	8,398	472,624	8,248,896

CAPITAL COST COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR (a

(in dollars)

Sheet 3 of 4

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municiapl Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	30,981	0	0	0	0	0	0	45,799	0	0
1964	68,978	15,644	4,414	38,203	1,315	31,561	9,036	85,949	34,839	19,959
1965	125,230	26,926	7,420	43,912	2,303	54,669	16,193	142,098	37,582	21,974
1966	217,521	45,511	12,420	74,562	3,891	92,622	27,971	234,728	62,417	36,999
1967	396,833	82,627	22,305	135,773	7,026	168,585	51,305	415,349	111,046	66,501
1968	622,682	132,005	35,928	217,208	11,064	268,487	81,147	681,675	181,900	109,550
1969	899,725	195,441	53,295	321,825	16,119	396,924	117,715	1,062,321	283,350	170,369
1970	1,290,622	315,534	90,945	519,886	23,743	630,155	172,380	1,768,192	463,971	280,524
1971	1,485,959	409,924	121,627	675,556	28,198	811,757	202,523	2,459,922	631,492	371,585
1972	1,564,573	441,462	133,958	727,570	29,700	867,894	213,405	2,743,068	699,615	406,390
1973	1,587,311	449,165	136,551	740,276	30,112	882,458	216,438	2,790,896	711,571	413,574
1974	1,603,108	454,319	137,932	748,776	30,422	892,990	218,639	2,819,327	719,205	417,657
1975	1,611,194	457,023	138,652	753,236	30,564	898,508	219,684	2,860,195	730,163	419,773
1976	1,626,220	462,169	139,953	761,722	30,815	909,145	221,572	2,921,598	746,745	423,653
1977	1,640,203	464,425	140,523	765,444	30,976	913,806	222,776	2,931,953	749,584	425,355
1978	1,678,851	465,252	140,732	766,808	31,052	915,513	223,348	2,935,650	750,598	425,979
1979	1,697,500	465,405	140,771	767,059	31,066	915,827	223,454	2,936,331	750,785	426,094
1980	1,908,540	466,370	141,056	768,652	31,134	917,738	223,955	2,941,383	752,103	426,911
1981	2,015,520	467,708	141,448	770,858	31,231	920,394	224,665	2,948,319	753,918	428,035
1982	2,017,426	468,050	141,535	771,424	31,263	921,108	224,904	2,950,531	754,499	428,339
1983	2,019,262	468,380	141,618	771,968	31,294	921,796	225,135	2,952,687	755,065	428,633
1984	2,019,884	468,492	141,646	772,152	31,304	922,029	225,213	2,953,187	755,202	428,717
1985	2,027,815	469,918	142,007	774,504	31,437	925,000	226,209	2,959,563	756,958	429,792
1986	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1987	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1988	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1989	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1990	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1991	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1992	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1993	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1994	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1995	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1996	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1997	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1998	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
1999	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2000	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2001	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2002	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2003	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2004	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2005	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2006	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2007	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2008	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2009	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2010	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2011	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2012	2,032,573	470,773	142,222	775,915	31,516	926,782	226,807	2,963,389	758,010	430,437
2013	2,001,592	470,773	142,222	763,516	31,516	926,782	226,807	2,917,590	746,154	423,772
2014	1,963,595	455,129	137,808	750,610	30,201	895,221	217,771	2,877,441	735,504	417,410
2015	1,907,343	443,847	134,802	732,003	29,213	872,113	210,615	2,821,292	720,428	408,462
2016	1,815,052	425,262	129,802	701,353	27,625	834,160	198,837	2,728,662	695,593	393,438
2017	1,635,740	388,147	119,917	640,142	24,490	758,197	175,502	2,548,040	646,964	363,936
2018	1,409,891	338,768	106,294	558,707	20,452	658,296	145,660	2,281,714	576,110	320,887
2019	1,132,848	275,333	88,928	454,090	15,398	529,858	109,092	1,901,068	474,661	260,067
2020	741,951	155,239	51,278	256,029	7,774	296,628	54,427	1,195,197	294,039	149,913
2021	546,614	60,849	20,595	100,359	3,318	115,025	24,284	503,467	126,518	58,851
2022	468,000	29,311	8,265	48,345	1,816	58,888	13,403	220,321	58,395	24,047
2023	445,262	21,608	5,672	35,639	1,404	44,325	10,370	172,493	46,439	16,863
2024	429,465	16,454	4,290	27,139	1,094	33,793	8,169	144,062	38,805	12,780
2025	421,379	13,750	3,570	22,679	953	28,275	7,123	103,194	27,847	10,664
2026	406,353	8,604	2,269	14,193	701	17,637	5,236	41,791	11,265	6,783
2027	392,370	6,348	1,699	10,471	541	12,977	4,032	31,436	8,426	5,081
2028	353,722	5,521	1,490	9,107	464	11,270	3,460	27,739	7,412	4,458
2029	335,073	5,369	1,452	8,856	451	10,955	3,354	27,058	7,225	4,343
2030	124,033	4,403	1,166	7,263	382	9,044	2,853	22,006	5,907	3,526
2031	17,053	3,065	774	5,057	285	6,388	2,143	15,070	4,092	2,402
2032	15,147	2,723	687	4,491	253	5,675	1,903	12,858	3,511	2,098
2033	13,311	2,393	604	3,947	223	4,986	1,672	10,702	2,946	1,804
2034	12,689	2,281	576	3,763	212	4,754	1,594	10,202	2,808	1,720
2035	4,758	855	216	1,411	79	1,782	598	3,826	1,053	645

CAPITAL COST COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR,	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agnecy	Ventura County Flood Control District	Total	City of Yuba City	County of Butte	Plumas County FC & WCD	Total	South Bay	
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	681,454	0	0	758,234	0	0	0	0	41,648	1,313,752
1964	1,399,565	22,656	10,719	1,742,838	0	0	0	0	71,686	2,574,968
1965	2,363,365	41,256	19,432	2,902,360	0	0	361	361	116,479	4,301,377
1966	4,027,902	74,229	34,660	4,945,433	0	0	508	508	135,754	6,652,008
1967	7,428,865	142,595	65,939	9,094,749	0	0	509	509	173,926	11,149,217
1968	13,483,263	273,509	125,387	16,223,805	0	0	520	520	248,167	19,202,252
1969	20,460,500	414,526	189,899	24,582,009	0	0	2,914	2,914	308,939	28,379,171
1970	30,306,386	587,498	266,213	36,716,049	0	0	12,535	12,535	320,234	40,953,684
1971	38,925,557	697,025	314,944	47,136,069	0	0	13,229	13,229	322,892	51,611,931
1972	42,117,405	714,907	322,555	50,982,502	0	0	13,229	13,229	323,432	56,112,852
1973	43,419,836	720,064	323,413	52,421,665	0	0	13,229	13,229	323,443	57,848,259
1974	44,065,588	731,785	326,457	53,166,205	0	0	13,229	13,229	325,914	58,809,640
1975	44,467,637	736,796	328,477	53,651,902	0	0	13,229	13,229	326,998	59,594,177
1976	44,960,471	741,577	330,749	54,276,389	0	0	13,229	13,229	331,066	60,916,616
1977	45,146,383	744,984	332,315	54,508,727	0	0	13,229	13,229	332,305	61,619,315
1978	45,250,610	747,356	333,332	54,665,081	0	0	13,229	13,229	332,305	62,342,267
1979	45,302,789	748,701	333,838	54,739,620	0	0	13,229	13,229	332,307	63,724,558
1980	45,364,839	749,756	334,346	55,026,783	0	0	13,229	13,229	332,327	65,530,010
1981	45,451,785	751,251	335,067	55,240,199	0	0	13,229	13,229	332,401	66,183,175
1982	45,490,406	751,830	335,345	55,286,660	0	0	13,229	13,229	332,624	66,633,137
1983	45,527,991	752,386	335,613	55,331,828	0	0	13,229	13,229	332,839	67,110,475
1984	45,537,285	752,574	335,705	55,343,390	0	0	13,229	13,229	332,846	67,518,609
1985	45,655,836	754,977	336,863	55,490,879	0	0	13,229	13,229	332,846	68,057,149
1986	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	68,528,989
1987	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	68,909,805
1988	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,267,256
1989	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,533,239
1990	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
1991	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
1992	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
1993	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
1994	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
1995	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
1996	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
1997	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
1998	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
1999	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2000	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2001	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2002	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2003	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2004	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2005	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2006	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2007	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2008	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2009	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2010	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2011	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2012	45,726,962	756,419	337,558	55,579,363	0	0	13,229	13,229	332,846	69,831,072
2013	45,045,507	756,419	337,558	54,790,208	0	0	13,229	13,229	291,198	68,480,048
2014	44,327,397	733,764	326,839	53,868,690	0	0	13,229	13,229	261,160	67,262,359
2015	43,363,596	715,163	318,127	52,677,004	0	0	12,868	12,868	216,367	65,497,718
2016	41,699,060	682,190	302,898	50,633,932	0	0	12,721	12,721	197,092	63,144,322
2017	38,298,096	613,824	271,619	46,484,614	0	0	12,720	12,720	158,920	58,642,812
2018	32,243,699	482,910	212,171	39,355,559	0	0	12,709	12,709	84,679	51,065,114
2019	25,266,461	341,893	147,659	30,997,356	0	0	10,315	10,315	23,907	42,395,989
2020	15,420,576	168,921	71,345	18,863,317	0	0	694	694	12,612	30,131,788
2021	6,801,405	59,394	22,614	8,443,293	0	0	0	0	9,954	19,646,392
2022	3,609,557	41,512	15,003	4,596,863	0	0	0	0	9,414	15,778,749
2023	2,307,125	36,355	14,145	3,157,700	0	0	0	0	9,403	14,327,236
2024	1,661,374	24,634	11,102	2,413,161	0	0	0	0	6,932	13,542,221
2025	1,259,324	19,623	9,082	1,927,463	0	0	0	0	5,848	13,033,494
2026	766,491	14,842	6,809	1,302,974	0	0	0	0	1,780	12,058,682
2027	580,578	11,435	5,243	1,070,637	0	0	0	0	541	11,721,285
2028	476,352	9,063	4,226	914,284	0	0	0	0	541	11,362,646
2029	424,173	7,718	3,720	839,747	0	0	0	0	539	10,336,235
2030	362,123	6,663	3,212	552,581	0	0	0	0	519	8,893,932
2031	275,177	5,168	2,491	339,165	0	0	0	0	445	8,647,682
2032	236,555	4,589	2,213	292,703	0	0	0	0	222	8,575,552
2033	198,971	4,033	1,945	247,537	0	0	0	0	7	8,523,048
2034	189,677	3,845	1,854	235,975	0	0	0	0	0	8,502,010
2035	71,126	1,442	695	88,486	0	0	0	0	0	8,341,173

TABLE B-16

MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

Sheet 1 of 4

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	18,047	16,501	0	34,548	0	0	0
1963	0	0	0	32,935	38,113	71,705	134,753	0	0	0
1964	0	0	0	34,829	32,502	77,397	144,728	0	0	0
1965	0	0	0	72,507	70,731	183,545	326,783	0	0	0
1966	0	0	0	74,213	74,010	205,104	353,327	0	0	0
1967	0	0	0	113,788	111,883	310,006	535,677	0	0	0
1968	0	0	0	92,038	90,657	261,580	444,275	11,803	27,557	39,360
1969	95,000	0	95,000	102,776	100,909	281,701	485,386	68,179	159,160	227,339
1970	94,000	0	94,000	124,526	120,266	328,844	573,636	67,867	158,444	226,311
1971	93,000	0	93,000	123,857	119,486	326,604	569,947	52,170	121,795	173,965
1972	92,000	0	92,000	122,813	118,626	324,298	565,737	51,866	121,085	172,951
1973	91,000	0	91,000	122,257	117,946	322,923	563,126	51,608	120,484	172,092
1974	90,000	0	90,000	121,534	117,147	321,772	560,453	51,203	119,527	170,730
1975	92,000	0	92,000	120,362	116,133	319,290	555,785	51,315	119,794	171,109
1976	91,000	0	91,000	119,599	115,452	317,291	552,342	50,885	118,793	169,678
1977	90,000	0	90,000	119,183	115,020	315,634	549,837	50,748	118,472	169,220
1978	90,000	0	90,000	119,327	115,150	315,950	550,427	50,738	118,445	169,183
1979	91,000	0	91,000	118,956	114,739	314,969	548,664	50,852	118,717	169,569
1980	171,628	117,372	289,000	118,743	114,373	305,630	538,746	118,310	314,321	432,631
1981	171,628	117,372	289,000	118,743	114,373	305,630	538,746	116,035	306,041	422,076
1982	171,229	116,771	288,000	118,743	114,373	305,630	538,746	113,394	295,886	409,280
1983	171,229	116,771	288,000	118,743	114,373	305,630	538,746	111,672	289,516	401,188
1984	171,229	116,771	288,000	118,743	114,373	305,630	538,746	111,503	288,813	400,316
1985	171,229	116,771	288,000	118,743	114,373	305,630	538,746	110,702	285,614	396,316
1986	170,831	116,169	287,000	118,599	114,243	305,314	538,156	110,050	283,583	393,633
1987	170,831	116,169	287,000	118,405	114,028	304,803	537,236	110,033	283,545	393,578
1988	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,596	282,019	391,615
1989	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,621	282,068	391,689
1990	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,256	280,396	389,652
1991	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
1992	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
1993	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
1994	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
1995	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
1996	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
1997	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
1998	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
1999	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2000	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2001	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2002	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2003	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2004	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2005	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2006	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2007	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2008	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2009	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2010	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2011	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2012	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2013	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2014	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2015	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2016	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2017	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2018	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2019	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2020	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2021	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2022	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2023	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2024	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2025	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2026	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2027	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2028	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2029	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2030	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2031	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2032	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2033	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2034	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689
2035	170,831	116,169	287,000	118,405	114,028	304,803	537,236	109,268	280,421	389,689

a) Unadjusted for prior overpayments or underpayments of charges.

MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY AREA									
					Kern County Water Agency					
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Municipal and Industrial	Agriculture	Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	8,396	37,948	1,970	5,591	60,935	680,636	2,016	2,031	72,292	871,815
1969	47,941	63,900	3,152	9,413	118,161	1,552,697	3,224	3,445	118,339	1,920,272
1970	47,727	64,263	3,164	9,468	133,628	1,655,139	3,234	3,435	118,863	2,038,921
1971	36,734	63,524	3,130	9,357	143,311	1,700,952	3,200	3,405	117,564	2,081,177
1972	36,521	63,226	3,115	9,313	144,933	1,690,697	3,186	3,391	117,012	2,071,394
1973	36,338	62,735	3,090	9,239	143,872	1,679,037	3,162	3,366	116,119	2,056,958
1974	36,055	62,434	3,075	9,197	143,154	1,669,952	3,147	3,350	115,552	2,045,916
1975	36,134	62,466	3,078	9,200	143,128	1,670,550	3,150	3,357	115,645	2,046,708
1976	35,832	62,098	3,058	9,147	142,380	1,660,736	3,131	3,334	114,949	2,034,665
1977	35,736	61,996	3,054	9,131	142,131	1,657,556	3,124	3,328	114,752	2,030,808
1978	35,728	61,960	3,052	9,126	141,957	1,655,763	3,123	3,326	114,684	2,028,719
1979	35,808	61,993	3,054	9,133	141,997	1,656,738	3,124	3,331	114,748	2,029,927
1980	35,398	60,466	2,975	8,907	139,714	1,630,258	3,044	3,198	111,835	1,995,795
1981	35,282	60,270	2,966	8,877	139,168	1,624,202	3,034	3,191	111,480	1,988,470
1982	35,324	60,466	2,975	8,907	139,664	1,629,308	3,044	3,198	111,835	1,994,721
1983	35,305	60,376	2,970	8,894	139,385	1,626,458	3,041	3,194	111,685	1,991,308
1984	35,332	60,501	2,975	8,912	139,699	1,629,757	3,046	3,200	111,905	1,995,327
1985	35,332	60,501	2,975	8,912	139,686	1,629,629	3,046	3,200	111,905	1,995,186
1986	35,189	60,179	2,962	8,865	138,697	1,619,038	3,031	3,187	111,328	1,982,476
1987	35,177	60,125	2,960	8,857	138,501	1,617,276	3,028	3,186	111,245	1,980,355
1988	35,185	60,160	2,961	8,863	138,668	1,618,921	3,030	3,187	111,294	1,982,269
1989	35,201	60,234	2,965	8,872	138,882	1,620,935	3,032	3,189	111,411	1,984,721
1990	35,193	60,197	2,964	8,868	138,823	1,620,292	3,031	3,189	111,361	1,983,918
1991	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
1992	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
1993	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
1994	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
1995	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
1996	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
1997	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
1998	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
1999	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2000	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2001	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2002	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2003	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2004	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2005	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2006	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2007	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2008	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2009	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2010	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2011	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2012	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2013	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2014	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2015	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2016	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2017	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2018	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2019	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2020	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2021	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2022	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2023	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2024	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2025	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2026	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2027	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2028	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2029	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2030	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2031	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2032	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2033	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2034	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784
2035	35,201	60,232	2,966	8,874	138,888	1,620,972	3,033	3,189	111,429	1,984,784

MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	65,325	11,742	2,970	19,366	1,092	24,474	8,206	52,514	14,457	8,854
1969	126,641	22,768	5,757	37,550	2,117	47,445	15,907	101,823	28,024	17,170
1970	147,774	26,578	6,724	43,834	2,472	55,364	18,561	118,876	32,711	20,041
1971	232,418	41,893	10,592	69,090	3,885	87,082	29,192	187,355	51,517	31,590
1972	380,575	125,526	33,533	207,019	7,607	256,300	53,544	710,563	190,720	99,785
1973	378,411	125,519	33,910	207,009	7,574	255,475	53,309	716,649	191,756	100,585
1974	376,480	124,457	33,473	205,259	7,530	253,644	52,984	708,019	189,684	99,416
1975	376,421	124,890	33,918	205,966	7,531	253,810	52,982	716,101	191,302	100,439
1976	375,789	125,248	34,097	206,561	7,532	254,364	52,974	718,414	191,779	100,883
1977	373,196	123,615	33,537	203,871	7,462	251,307	52,534	708,008	189,188	99,342
1978	372,238	123,221	33,445	203,217	7,437	250,468	52,368	706,411	188,731	99,065
1979	372,079	123,156	33,391	203,108	7,433	250,418	52,309	705,534	188,567	98,950
1980	369,914	122,713	33,297	202,376	7,397	249,453	52,067	703,782	188,043	98,641
1981	368,461	122,074	33,057	201,324	7,365	248,298	51,833	699,513	187,013	97,991
1982	369,041	122,062	33,028	201,307	7,370	248,347	51,911	698,939	186,909	97,919
1983	368,587	122,010	33,013	201,222	7,363	248,236	51,832	698,706	186,845	97,882
1984	368,285	121,467	32,756	200,325	7,350	247,369	51,759	694,158	185,806	97,224
1985	367,800	121,245	32,715	199,960	7,337	246,891	51,677	693,349	185,565	97,076
1986	366,249	120,824	32,555	199,260	7,311	246,115	51,453	690,568	184,889	96,654
1987	366,061	120,718	32,527	199,087	7,312	245,895	51,459	690,095	184,759	96,576
1988	366,792	121,086	32,648	199,694	7,324	246,595	51,575	692,274	185,304	96,916
1989	366,639	120,912	32,589	199,409	7,321	246,278	51,511	691,146	185,031	96,742
1990	366,624	120,814	32,563	199,248	7,320	246,077	51,520	690,709	184,910	96,669
1991	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
1992	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
1993	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
1994	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
1995	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
1996	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
1997	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
1998	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
1999	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2000	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2001	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2002	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2003	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2004	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2005	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2006	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2007	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2008	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2009	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2010	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2011	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2012	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2013	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2014	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2015	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2016	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2017	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2018	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2019	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2020	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2021	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2022	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2023	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2024	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2025	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2026	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2027	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2028	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2029	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2030	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2031	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2032	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2033	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2034	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790
2035	366,759	120,975	32,602	199,511	7,324	246,409	51,553	691,426	185,108	96,790

MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR, South Bay	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	County of Butte	Plumas County FC & WCD	Total		
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	34,548
1963	0	0	0	0	0	0	0	0	10,980	145,733
1964	0	0	0	0	0	0	0	0	11,878	156,606
1965	0	0	0	0	0	0	0	0	27,127	353,910
1966	0	0	0	0	0	0	0	0	29,175	382,502
1967	0	0	0	0	0	0	0	0	44,176	579,853
1968	976,503	19,798	9,542	1,214,843	0	0	0	0	36,649	2,606,942
1969	1,901,681	38,379	18,498	2,363,760	0	0	0	0	40,243	5,132,000
1970	2,226,135	44,785	21,582	2,765,437	0	0	200	200	101,695	5,800,200
1971	3,529,037	70,440	33,946	4,378,037	0	0	200	200	100,874	7,397,200
1972	8,230,246	123,712	57,959	10,477,089	0	0	200	200	99,829	13,479,200
1973	8,510,477	125,693	58,527	10,764,894	0	0	200	200	99,930	13,748,200
1974	8,577,460	128,018	59,214	10,815,638	0	0	200	200	99,263	13,782,200
1975	8,603,228	126,003	58,536	10,851,127	0	0	200	200	95,271	13,812,200
1976	8,581,164	125,131	58,175	10,832,111	0	0	200	200	95,204	13,775,200
1977	8,483,808	124,034	57,737	10,707,639	0	0	200	200	94,496	13,642,200
1978	8,463,512	123,972	57,680	10,681,765	0	0	200	200	94,906	13,615,200
1979	8,470,315	124,092	57,734	10,687,086	0	0	200	200	94,754	13,621,200
1980	8,423,023	123,357	57,388	10,631,451	0	0	200	200	95,377	13,983,200
1981	8,414,548	123,465	57,389	10,612,331	0	0	200	200	95,377	13,946,200
1982	8,415,123	123,499	57,421	10,612,876	0	0	200	200	95,377	13,939,200
1983	8,425,503	123,707	57,475	10,622,381	0	0	200	200	95,377	13,937,200
1984	8,380,426	123,047	57,262	10,567,234	0	0	200	200	95,377	13,885,200
1985	8,361,038	122,620	57,102	10,544,375	0	0	200	200	95,377	13,858,200
1986	8,310,967	122,067	56,856	10,485,768	0	0	200	200	94,967	13,782,200
1987	8,310,588	122,040	56,827	10,483,944	0	0	200	200	94,887	13,777,200
1988	8,351,032	122,683	57,070	10,530,993	0	0	200	200	94,887	13,824,200
1989	8,338,127	122,686	57,076	10,515,467	0	0	200	200	94,887	13,811,200
1990	8,337,224	122,588	57,041	10,513,307	0	0	200	200	94,887	13,806,200
1991	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
1992	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
1993	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
1994	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
1995	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
1996	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
1997	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
1998	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
1999	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2000	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2001	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2002	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2003	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2004	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2005	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2006	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2007	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2008	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2009	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2010	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2011	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2012	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2013	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2014	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2015	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2016	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2017	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2018	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2019	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2020	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2021	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2022	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2023	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2024	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2025	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2026	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2027	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2028	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2029	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2030	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2031	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2032	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2033	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2034	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200
2035	8,338,162	122,701	57,084	10,516,404	0	0	200	200	94,887	13,810,200

TABLE B-17 Sheet 1 of 4

UNIT VARIABLE OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars per acre-foot)

Sheet 1 of 4

Calendar Year	NORTH BAY AQUEDUCT				SOUTH BAY AQUEDUCT		CALIFORNIA AQUEDUCT			
	Reach 1		Reach 3		Reach 1		Reach 1		Reach 4	
	Calhoun Pumping Plant		Cordelia Pumping Plant		South Bay and Del Valle Pumping Plants (b		Delta Pumping Plant		Dos Amigos Pumping Plant	
	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1962					4.2374804	4.2374804				
1963					4.6873072	4.6873072				
1964					3.5620965	3.5620965				
1965					4.2354964	4.2354964				
1966					3.6324003	3.6324003				
1967					4.0332435	5.8478561	1.8146126	1.8146126		
1968			8.1441516	8.1441516	4.1344120	5.5427184	1.4083064	1.4083064	1.4808624	2.8891688
1969			4.4226044	4.4226044	3.9833739	5.4222306	1.4388567	1.4388567	.9053360	2.3441927
1970			6.2142680	6.2142680	5.1290718	6.6380497	1.5089779	1.5089779	1.1279376	2.6369155
1971			6.2139370	6.2139370	4.9698193	6.2812197	1.3114004	1.3114004	.8947235	2.2061239
1972			4.7866805	4.7866805	4.1940997	5.6007183	1.4066186	1.4066186	.6712092	2.0778278
1973			5.2580331	5.2580331	4.5872259	5.9297990	1.3425731	1.3425731	.7148962	2.0574693
1974			4.9051668	4.9051668	4.5622631	5.9300600	1.3677969	1.3677969	.6823271	2.0501240
1975			4.4155844	4.4155844	4.6738394	5.8072134	1.1333740	1.1333740	.7837778	1.9171518
1976			4.1860465	4.1860465	4.5645059	5.7923193	1.2278134	1.2278134	.8232385	2.0510519
1977			3.9583333	3.9583333	4.4026128	5.7726882	1.3700754	1.3700754	.7399454	2.1100208
1978			3.7142857	3.7142857	4.3786458	5.7017754	1.3231296	1.3231296	.7225224	2.0456520
1979			3.3043478	3.3043478	4.0748003	5.4201481	1.3453478	1.3453478	.6580232	2.0033710
1980	.5296104	.5296104	3.6000000	4.1296104	3.8629674	5.3994425	1.5364751	1.5364751	.6520634	2.1885385
1981	.5183448	.5183448	3.7818182	4.3001630	3.6901168	5.0267659	1.3366491	1.3366491	.6164386	1.9530877
1982	.4651230	.4651230	3.6000000	4.0651230	3.5989727	5.1706995	1.5717268	1.5717268	.6021607	2.1738875
1983	.3866543	.3866543	3.4461538	3.8328081	3.4421429	4.9018440	1.4597011	1.4597011	.5810575	2.0407586
1984	.3548311	.3548311	3.3142857	3.6691168	3.2697354	4.8789561	1.6092207	1.6092207	.5441814	2.1534021
1985	.3513893	.3513893	3.2000000	3.5513893	3.2285940	4.8316384	1.6030444	1.6030444	.5211172	2.1241616
1986	.3430137	.3430137	3.3500000	3.6930137	3.2192640	4.4066466	1.1873826	1.1873826	.5301704	1.7175530
1987	.3048000	.3048000	3.2000000	3.5048000	3.1542315	4.2760999	1.1218684	1.1218684	.5120098	1.6338782
1988	.2750505	.2750505	3.0666667	3.3417172	3.1355344	4.2831554	1.1476210	1.1476210	.5404391	1.6880601
1989	.2346953	.2346953	2.8631579	3.0978532	3.0167900	4.3034630	1.2866730	1.2866730	.5108448	1.7975178
1990	.2336465	.2336465	2.8000000	3.0336465	2.9825544	4.2556312	1.2730768	1.2730768	.5099712	1.7830480
1991	.2336465	.2336465	2.8000000	3.0336465	2.9217548	4.2063615	1.2846067	1.2846067	.5131775	1.7977842
1992	.2336465	.2336465	2.8000000	3.0336465	2.8307737	4.1142728	1.2834991	1.2834991	.5133915	1.7968906
1993	.2336465	.2336465	2.8000000	3.0336465	2.7452931	4.0271851	1.2818920	1.2818920	.5133915	1.7952835
1994	.2336465	.2336465	2.8000000	3.0336465	2.6776648	3.9582157	1.2805509	1.2805509	.5133915	1.7939424
1995	.2336465	.2336465	2.8000000	3.0336465	2.6492880	3.9292564	1.2799684	1.2799684	.5133915	1.7933599
1996	.2336465	.2336465	2.8000000	3.0336465	2.6215054	3.9008920	1.2793866	1.2793866	.5133915	1.7927781
1997	.2336465	.2336465	2.8000000	3.0336465	2.5943032	3.8731087	1.2788055	1.2788055	.5133915	1.7921970
1998	.2336465	.2336465	2.8000000	3.0336465	2.5943032	3.8731087	1.2788055	1.2788055	.5133915	1.7921970
1999	.2336465	.2336465	2.8000000	3.0336465	2.5943032	3.8731087	1.2788055	1.2788055	.5133915	1.7921970
2000 (c	.2336465	.2336465	2.8000000	3.0336465	2.5943032	3.8731087	1.2788055	1.2788055	.5133915	1.7921970

a) Unit rates as shown constitute the rate for the indicated pumping plants, powerplants and reservoirs. Cumulative unit rates as shown constitute the total rate, cumulative from the Sacramento-San Joaquin Delta, applicable to deliveries from or down stream of the indicated pumping plants, powerplants and reservoirs.

b) The relatively minor estimated costs of the Del Valle Pumping Plant have been combined with those of the South Bay Pumping Plant to simplify the allocation procedure.

c) And each year thereafter for the remainder of the project repayment period.

UNIT VARIABLE OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars per acre-foot)

Calendar Year	CALIFORNIA AQUEDUCT (Continued)									
	Reach 14A		Reach 15A		Reach 16A		Reach 17E		Reach 22B	
	Buena Vista Pumping Plant		Wheeler Ridge Pumping Plant		Wind Gap Pumping Plant		A. D. Edmonston Pumping Plant		Pearblossom Pumping Plant	
	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1962										
1963										
1964										
1965										
1966										
1967										
1968										
1969										
1970	2.8066158	5.4435313	9.5911950	15.0347263						
1971	1.6053897	3.8115136	1.4154533	5.2269669	2.8434906	8.0704575	9.8722338	17.9426913		
1972	1.0460989	3.1239267	1.1722953	4.2962220	2.3263900	6.6226120	8.5099144	15.1325264	3.2987927	18.4313191
1973	1.0760874	3.1335567	1.2184836	4.3520403	2.4329050	6.7849453	9.0046304	15.7895757	3.4125669	19.2021426
1974	1.0456472	3.0957712	1.1823882	4.2781594	2.3786362	6.6567956	8.8061021	15.4628977	3.0272666	18.4901643
1975	1.0560944	2.9732462	1.1938377	4.1670839	2.3667385	6.5338224	8.7620072	15.2958296	3.1765864	18.4724160
1976	1.1500178	3.2010697	1.3095716	4.5106413	2.6595154	7.1701567	9.8731486	17.0433053	3.1767613	20.2200666
1977	.9988091	3.1088299	1.1298825	4.2387124	2.3148701	6.5535825	8.6373073	15.1908898	3.0440535	18.2349433
1978	.9599309	3.0055829	1.0978200	4.1034029	2.2348276	6.3382305	8.3616390	14.6998695	3.1137408	17.8136103
1979	.9244131	2.9277841	1.0627284	3.9905125	2.1849301	6.1754426	8.1968250	14.3722676	3.3854402	17.7577078
1980	.9554062	3.1439447	1.0392203	4.1831650	2.3081454	6.4913104	8.1010758	14.5923862	2.9824038	17.5747900
1981	.8863152	2.8394029	.9659789	3.8053818	2.1464501	5.9518319	8.0864411	14.0382730	2.8569030	16.8951760
1982	.8784787	3.0523662	.9655591	4.0179253	2.1483458	6.1662711	7.6316911	13.7979622	2.7408508	16.5388130
1983	.8580971	2.8988557	.9510196	3.8498753	2.1194008	5.9692761	8.0125800	13.9818561	2.8194516	16.8013077
1984	.7952829	2.9486850	.8824928	3.8311778	1.9650890	5.7962668	7.4368959	13.2331627	2.4968231	15.7299858
1985	.7502504	2.8744120	.8787292	3.7531412	1.9561390	5.7092802	7.0369963	12.7462765	2.6823467	15.4286232
1986	.7705997	2.4881527	.8627189	3.3508716	1.9211409	5.2720125	7.2912894	12.5633019	2.5546929	15.1179948
1987	.7590268	2.3929050	.8539051	3.2468101	1.9027830	5.1495931	7.2289607	12.3785538	2.3528271	14.7313809
1988	.8280045	2.5160646	.9007367	3.4168013	2.0094093	5.4262106	7.6529974	13.0792080	2.4135316	15.4927396
1989	.7861231	2.5836409	.8598061	3.4434470	1.9179885	5.3614355	7.3032268	12.6646623	2.4260202	15.0906825
1990	.7743444	2.5573924	.8464339	3.4038263	1.9710341	5.3748604	7.1939713	12.5688317	2.2363828	14.8052145
1991	.8101819	2.6079661	.8903241	3.4982902	1.9873786	5.4856688	7.2560664	12.7417352	2.5296683	15.2714035
1992	.8106655	2.6075561	.8908897	3.4984458	1.9886674	5.4871132	7.2608918	12.7480050	2.4847473	15.2327523
1993	.8106655	2.6059490	.8908897	3.4968387	1.9886674	5.4855061	7.2608918	12.7463979	2.4847473	15.2311452
1994	.8106655	2.6046079	.8908897	3.4954976	1.9886674	5.4841650	7.2608918	12.7450568	2.4847473	15.2298041
1995	.8106655	2.6040254	.8908897	3.4949151	1.9886674	5.4835825	7.2608918	12.7444743	2.4847473	15.2292216
1996	.8106655	2.6034436	.8908897	3.4943333	1.9886674	5.4830007	7.2608918	12.7438925	2.4847473	15.2286398
1997	.8106655	2.6028625	.8908897	3.4937522	1.9886674	5.4824196	7.2608918	12.7433114	2.4847473	15.2280587
1998	.8106655	2.6028625	.8908897	3.4937522	1.9886674	5.4824196	7.2608918	12.7433114	2.4847473	15.2280587
1999	.8106655	2.6028625	.8908897	3.4937522	1.9886674	5.4824196	7.2608918	12.7433114	2.4847473	15.2280587
2000 (c	.8106655	2.6028625	.8908897	3.4937522	1.9886674	5.4824196	7.2608918	12.7433114	2.4847473	15.2280587

UNIT VARIABLE OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars per acre-foot)

Calendar Year	CALIFORNIA AQUEDUCT (Continued)									
	Reach 24		Reach 26A		Reach 28J		Reach 29A		Reach 29H	
	Silverwood Lake(d		Devil Canyon Powerplant		Lake Perris(d		Oso Pumping Plant		Pyramid Lake(d	
	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1962										
1963										
1964										
1965										
1966										
1967										
1968										
1969										
1970										
1971							1.5143436	19.4570349		
1972			-3.9541985	14.4771206			1.3393441	16.4718705		
1973	-.6944597	18.5076829	-5.0053713	13.5023116			1.1952229	16.9847986		
1974	-.1889944	18.3011699	-5.4879324	12.8132375	-2.0943519	10.7188856	1.2349330	16.6978307	-1.6551113	15.0427194
1975	.1416715	18.6140875	-5.0197458	13.5943417	2.5258685	16.1202102	1.1987399	16.4945695	.4703025	16.9648720
1976	.7412058	20.9612724	-6.5484352	14.4128372	-2.0872437	12.3255935	1.4164914	18.4597967	.0121999	18.4719966
1977	.0000000	18.2349433	-5.3533517	12.8815916	-.5393157	12.3422759	1.1409032	16.3317930	-.0543707	16.2774223
1978	-.2480093	17.5656010	-5.6466697	11.9189313	-.4040735	11.5148578	1.0612531	15.7611226	.1342431	15.8953657
1979	.0409097	17.7986175	-5.0580957	12.7405218	-.0289990	12.7115228	1.0788746	15.4511422	.0000000	15.4511422
1980	.0047378	17.5795278	-5.8430236	11.7365042	.1516330	11.8881372	1.0547004	15.6470866	.0000000	15.6470866
1981	-.4448271	16.4503489	-4.2860969	12.1642520	-.0739413	12.0903107	1.0600065	15.0982795	.0000000	15.0982795
1982	-.4058781	16.1329349	-3.8399842	12.2929507	.0042899	12.2972406	1.0307181	14.8286803	.0000000	14.8286803
1983	-.1967342	16.6045735	-3.6371567	12.9674168	1.0584991	14.0259159	1.1405762	15.1224323	-.0889475	15.0334848
1984	.3396063	16.0695921	-3.5280831	12.5415090	-1.4845615	11.0569475	1.0238216	14.2569843	.0770685	14.3340528
1985	.2655998	15.6942230	-3.1952082	12.4990148	.2595266	12.7585414	.9876401	13.7339166	.0000000	13.7339166
1986	.1505716	15.2685664	-4.0933970	11.1751694	-.3272624	10.8479070	1.0241127	13.5874146	-.0704184	13.5169962
1987	-.1060447	14.6253362	-3.8434592	10.7818770	.2574752	11.0393522	1.0091810	13.3877348	.0610597	13.4487945
1988	-.1145569	15.3781827	-3.8089548	11.5692279	-.0788440	11.4903839	1.0415777	14.1207857	-.0601624	14.0606233
1989	.1333784	15.2240609	-3.7206066	11.5034543	-.3981835	11.1052708	.9568587	13.6215210	.0491031	13.6706241
1990	.0905127	14.8957272	-3.5127810	11.3829462	.0343963	11.4173425	1.0073927	13.5762244	-.0546304	13.5215940
1991	-.0045105	15.2668930	-3.7768382	11.4900548	-.6338679	10.8561869	.9578398	13.6995750	.0531190	13.7526940
1992	.0000000	15.2327523	-3.6960939	11.5366584	.0000000	11.5366584	.9683376	13.7163426	.0000000	13.7163426
1993	.0000000	15.2311452	-3.6960939	11.5350513	.0000000	11.5350513	.9683376	13.7147355	.0000000	13.7147355
1994	.0000000	15.2298041	-3.6960939	11.5337102	.0000000	11.5337102	.9683376	13.7133944	.0000000	13.7133944
1995	.0000000	15.2292216	-3.6960939	11.5331277	.0000000	11.5331277	.9683376	13.7128119	.0000000	13.7128119
1996	.0000000	15.2286398	-3.6960939	11.5325459	.0000000	11.5325459	.9683376	13.7122301	.0000000	13.7122301
1997	.0000000	15.2280587	-3.6960939	11.5319648	.0000000	11.5319648	.9683376	13.7116490	.0000000	13.7116490
1998	.0000000	15.2280587	-3.6960939	11.5319648	.0000000	11.5319648	.9683376	13.7116490	.0000000	13.7116490
1999	.0000000	15.2280587	-3.6960939	11.5319648	.0000000	11.5319648	.9683376	13.7116490	.0000000	13.7116490
2000 (c	.0000000	15.2280587	-3.6960939	11.5319648	.0000000	11.5319648	.9683376	13.7116490	.0000000	13.7116490

d) All unit rates are applicable to the total deliveries from contractor turnouts and account for net annual storage changes for reservoirs, included in the project transportation facilities. For such reservoirs, these unit rates are determined by dividing those costs shown in Table B-12 for the respective reservoirs by the total annual water supply deliveries to be conveyed from or thru the respective reservoirs, as may be derived from Table B-5.

UNIT VARIABLE OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars per acre-foot)

Calendar Year	CALIFORNIA AQUEDUCT (Continued)							
	Reach 29J		Reach 30		Reach 31A		Reach 33	
	Castaic Powerplant		Castaic Lake[d]		Las Perillas and Badger Hill Pumping Plants		Devil's Den Sawtooth and Polonio Pumping Plants and San Luis Obispo Powerplant	
	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate	Unit Rate	Cumulative Unit Rate
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)
1962								
1963								
1964								
1965								
1966								
1967								
1968					1.7223649	4.6115337		
1969					1.7164830	4.0606757		
1970					2.4787199	5.1156354		
1971	-1.5261872	17.9308477			2.3664116	4.5725355		
1972	-2.6034875	13.8683830			1.9070886	3.9849164		
1973	-5.4748701	11.5099285	-.7587205	10.7512080	2.4159740	4.4734433		
1974	-4.6196051	10.4231143	.5337261	10.9568404	2.1350080	4.1851320		
1975	-5.6728096	11.2920624	-.0729053	11.2191571	2.2575923	4.1747441		
1976	-7.7011279	10.7708687	-1.5660701	9.2047986	2.1094830	4.1605349		
1977	-6.2197180	10.0577043	-.0426475	10.0150568	2.0973825	4.2074033		
1978	-5.4579111	10.4374546	.1992221	10.6366767	2.0965868	4.1422388		
1979	-5.0384642	10.4126780	-.0371486	10.3755294	2.0581705	4.0615415		
1980	-5.3689540	10.2781326	.1012233	10.3793559	1.8756416	4.0641801	23.0431818	27.1073619
1981	-4.5121675	10.5861120	.0601786	10.6462906	1.7504810	3.7035687	19.0909091	22.7944778
1982	-4.2890753	10.5396050	-.2119497	10.3276553	1.7179065	3.8917940	12.7272727	16.6190667
1983	-4.0366049	10.9968799	-.0293317	10.9675482	1.5213668	3.5621254	9.8347475	13.3968729
1984	-3.8286431	10.5054097	-.7752634	9.7301463	1.4478952	3.6012973	9.3567114	12.9580087
1985	-3.3925939	10.3413227	.1216510	10.4629737	1.3603492	3.4845108	7.3333468	10.8178576
1986	-4.0361488	9.4808474	-.0213391	9.4595083	1.3913023	3.1088553	6.8555287	9.9643840
1987	-3.4875474	9.9612471	.1884126	10.1496597	1.3204033	2.9542815	6.6896610	9.6439425
1988	-3.5288406	10.5317827	-.1529889	10.3787938	1.3477235	3.0357836	6.0560819	9.0918655
1989	-3.1776813	10.4929428	-.0191711	10.4737717	1.2132534	3.0107712	6.2225416	9.2333128
1990	-3.0778259	10.4437681	.0098549	10.4536230	1.2248878	3.0079358	5.3239057	8.3318415
1991	-3.1050445	10.6476495	.0767313	10.7243808	1.2297905	3.0275747	5.3356832	8.3632579
1992	-3.0868078	10.6295348	.0000000	10.6295348	1.2297905	3.0266811	5.3356832	8.3623643
1993	-3.0868078	10.6279277	.0000000	10.6279277	1.2297905	3.0250740	5.3356832	8.3607572
1994	-3.0868078	10.6265866	.0000000	10.6265866	1.2297905	3.0237329	5.3356832	8.3594161
1995	-3.0868078	10.6260041	.0000000	10.6260041	1.2297905	3.0231504	5.3356832	8.3588336
1996	-3.0868078	10.6254223	.0000000	10.6254223	1.2297905	3.0225686	5.3356832	8.3582518
1997	-3.0607478	10.6509012	.0000000	10.6509012	1.2297905	3.0219875	5.3356832	8.3576707
1998	-3.0607478	10.6509012	.0000000	10.6509012	1.2297905	3.0219875	5.3356832	8.3576707
1999	-3.0607478	10.6509012	.0000000	10.6509012	1.2297905	3.0219875	5.3356832	8.3576707
2000 (c	-3.0607478	10.6509012	.0000000	10.6509012	1.2297905	3.0219875	5.3356832	8.3576707

VARIABLE OMP&R COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

Sheet 1 of 4

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	2,093	35,646	0	37,739	0	0	0
1963	0	0	0	8,114	51,157	0	59,271	0	0	0
1964	0	0	0	5,959	68,528	0	74,487	0	0	0
1965	0	0	0	11,033	69,492	63,592	144,117	0	0	0
1966	0	0	0	20,018	53,992	125,456	199,466	0	0	0
1967	0	0	0	20,199	61,479	168,198	249,876	0	0	0
1968	9,887	0	9,887	33,993	137,554	388,572	560,119	0	0	0
1969	18,000	0	18,000	44,463	84,044	406,667	535,174	0	0	0
1970	25,000	0	25,000	66,381	107,536	584,148	758,065	0	0	0
1971	28,000	0	28,000	70,350	106,780	552,748	729,878	0	0	0
1972	23,000	0	23,000	69,449	100,253	492,863	662,565	0	0	0
1973	27,000	0	27,000	80,645	111,480	521,823	713,948	0	0	0
1974	30,000	0	30,000	87,764	116,230	521,845	725,839	0	0	0
1975	34,000	0	34,000	92,915	119,048	511,035	722,998	0	0	0
1976	36,000	0	36,000	99,628	123,376	509,724	732,728	0	0	0
1977	38,000	0	38,000	106,217	128,154	507,997	742,368	0	0	0
1978	39,000	0	39,000	111,754	131,712	501,756	745,222	0	0	0
1979	40,000	0	40,000	112,739	129,542	476,973	719,254	0	0	0
1980	51,620	3,575	55,195	118,787	133,907	475,151	727,845	27,107	32,528	59,635
1981	59,127	4,147	63,274	115,616	130,696	442,355	688,667	22,794	52,427	75,221
1982	60,977	4,372	65,349	124,096	140,643	455,022	719,761	33,238	76,448	109,686
1983	62,283	4,176	66,459	122,547	139,211	431,363	693,121	40,191	92,439	132,630
1984	64,210	4,293	68,503	126,853	144,417	429,348	700,618	58,312	134,763	193,075
1985	66,589	4,919	71,508	130,454	148,815	425,184	704,453	81,135	187,149	268,284
1986	73,860	5,660	79,520	123,386	141,454	387,784	652,624	99,644	230,177	329,821
1987	74,477	6,096	80,573	124,007	142,394	376,297	642,698	120,549	277,746	398,295
1988	75,189	7,426	82,615	128,495	147,769	376,917	653,181	140,923	325,489	466,412
1989	73,574	8,097	81,671	133,407	153,634	387,312	674,353	184,667	425,655	610,322
1990	75,841	8,832	84,673	136,180	157,033	391,518	684,731	208,296	480,748	689,044
1991	75,841	8,832	84,673	143,017	161,524	395,398	699,939	209,081	482,561	691,642
1992	75,841	8,832	84,673	148,114	164,160	394,969	707,243	209,059	482,509	691,568
1993	75,841	8,832	84,673	153,033	166,725	394,665	714,423	209,020	482,416	691,436
1994	75,841	8,832	84,673	158,329	166,245	395,821	720,395	208,986	482,339	691,325
1995	75,841	8,832	84,673	165,029	165,028	392,926	722,983	208,971	482,305	691,276
1996	75,841	8,832	84,673	171,639	163,837	390,090	725,566	208,956	482,272	691,228
1997	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
1998	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
1999	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2000	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2001	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2002	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2003	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2004	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2005	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2006	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2007	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2008	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2009	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2010	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2011	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2012	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2013	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2014	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2015	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2016	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2017	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2018	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2019	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2020	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2021	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2022	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2023	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2024	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2025	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2026	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2027	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2028	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2029	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2030	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2031	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2032	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2033	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2034	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180
2035	75,841	8,832	84,673	178,163	162,671	387,310	728,144	208,942	482,238	691,180

a) Unadjusted for prior overpayments or underpayments of charges.

VARIABLE OMP&R COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY AREA									
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency		Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agriculture				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	34,042	76,158	5,715	0	0	491,454	2,600	4,344	72,518	686,831
1969	20,302	33,580	7,032	5,627	0	276,355	2,813	3,597	103,028	452,334
1970	29,159	41,400	7,911	6,591	0	500,716	3,427	3,924	83,855	676,983
1971	30,636	39,489	6,619	5,074	70,189	468,642	2,867	3,672	75,450	702,638
1972	30,684	41,557	6,233	5,402	71,814	659,877	2,909	4,079	76,257	898,812
1973	38,919	45,264	6,172	5,967	84,501	741,259	3,086	4,162	80,447	1,009,777
1974	40,597	49,408	6,150	6,764	130,101	792,933	3,075	4,377	88,157	1,121,562
1975	44,670	50,230	5,751	6,901	125,171	847,721	3,067	3,854	89,915	1,177,280
1976	48,679	58,045	6,154	7,999	144,974	1,008,001	3,281	4,298	104,193	1,385,624
1977	53,434	64,144	6,330	8,863	155,217	1,136,782	3,587	5,069	115,629	1,549,055
1978	52,607	66,483	6,137	9,411	160,113	1,237,612	3,887	5,160	120,079	1,661,489
1979	51,582	69,316	6,010	9,817	166,153	1,342,278	4,007	5,381	125,411	1,779,955
1980	51,616	80,319	6,566	11,381	189,903	1,571,029	4,815	6,453	145,537	2,067,619
1981	47,036	75,780	5,859	10,937	181,388	1,552,757	4,492	5,748	137,497	2,021,494
1982	49,425	89,130	6,523	12,826	210,908	1,824,673	5,434	7,073	161,519	2,367,511
1983	45,238	87,550	6,122	12,652	211,870	1,860,034	5,715	6,714	159,587	2,395,482
1984	45,736	97,118	6,461	13,997	233,637	2,057,978	6,676	7,724	176,794	2,646,121
1985	44,252	100,261	6,372	14,657	245,853	2,147,233	7,222	7,855	182,678	2,756,383
1986	39,483	84,675	5,152	12,367	220,857	1,928,007	6,355	6,056	154,580	2,457,532
1987	37,520	83,981	4,902	12,254	227,044	1,952,141	6,535	5,834	153,421	2,483,632
1988	38,555	90,312	5,064	13,166	251,452	2,133,128	6,753	6,197	165,092	2,709,719
1989	38,236	99,942	5,393	14,740	272,596	2,285,893	7,190	7,205	182,807	2,914,002
1990	38,200	102,882	5,349	15,155	287,633	2,351,828	7,132	7,257	196,136	3,011,572
1991	38,449	103,732	5,393	15,281	291,143	2,382,084	7,191	7,322	197,757	3,048,352
1992	38,439	103,679	5,391	15,274	291,086	2,381,402	7,188	7,316	197,658	3,047,433
1993	38,418	103,587	5,386	15,260	290,895	2,379,739	7,182	7,306	197,481	3,045,254
1994	38,401	103,509	5,381	15,249	290,735	2,378,352	7,177	7,299	197,334	3,043,437
1995	38,394	103,476	5,380	15,244	290,666	2,377,750	7,174	7,296	197,269	3,042,649
1996	38,386	103,443	5,378	15,238	290,597	2,377,148	7,172	7,292	197,206	3,041,860
1997	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
1998	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
1999	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2000	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2001	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2002	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2003	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2004	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2005	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2006	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2007	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2008	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2009	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2010	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2011	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2012	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2013	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2014	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2015	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2016	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2017	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2018	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2019	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2020	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2021	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2022	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2023	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2024	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2025	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2026	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2027	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2028	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2029	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2030	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2031	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2032	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2033	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2034	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073
2035	38,379	103,409	5,376	15,234	290,528	2,376,546	7,169	7,290	197,142	3,041,073

TABLE B-18

VARIABLE OMP&R COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR(a

(in dollars)

Sheet 3 of 4

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0
1972	303,547	95,844	10,689	147,451	2,573	154,822	24,516	665,950	153,457	0
1973	396,056	111,370	16,101	172,823	4,579	205,461	46,422	648,111	155,277	0
1974	466,111	118,336	21,229	184,901	6,186	242,222	65,871	640,662	157,603	0
1975	535,355	129,305	26,992	203,198	7,952	284,475	85,351	713,705	178,084	0
1976	749,906	153,674	36,471	242,640	10,907	359,917	117,599	792,707	201,781	0
1977	759,545	153,555	37,017	237,055	11,089	368,347	124,870	740,691	190,648	0
1978	837,894	164,633	40,752	249,392	13,522	400,807	137,297	715,137	187,126	0
1979	905,453	178,698	46,452	266,366	14,947	442,166	147,459	796,280	211,496	0
1980	1,009,794	191,285	50,982	298,770	16,781	478,034	163,144	768,742	204,214	119,540
1981	1,052,870	204,517	52,477	321,006	17,830	500,098	164,247	833,252	222,605	128,313
1982	1,121,775	220,396	56,143	347,316	19,041	527,587	169,992	878,945	234,795	141,969
1983	1,226,211	244,407	62,599	386,431	20,974	576,285	180,924	966,073	258,051	162,725
1984	1,243,921	248,030	65,243	393,250	21,306	577,291	179,441	978,238	259,608	173,552
1985	1,279,726	262,116	68,270	416,572	22,050	601,718	180,743	1,018,671	272,480	185,191
1986	1,340,505	275,301	70,845	439,421	23,117	625,884	185,936	949,887	259,265	196,964
1987	1,398,777	286,246	72,102	464,039	24,262	643,762	190,877	959,588	265,234	204,754
1988	1,561,657	319,955	80,274	526,754	27,074	712,667	209,790	1,075,937	300,800	232,211
1989	1,591,948	330,079	83,886	550,808	27,735	731,899	210,994	1,115,836	315,194	246,629
1990	1,660,342	342,000	86,396	564,078	28,910	752,104	217,440	1,155,369	327,830	257,696
1991	1,763,455	352,770	88,548	581,841	29,308	775,785	220,432	1,178,878	330,916	264,115
1992	1,764,323	351,876	88,351	580,367	29,322	773,824	220,538	1,183,660	332,255	263,527
1993	1,764,101	351,839	88,342	580,306	29,318	773,742	220,511	1,183,495	332,208	263,499
1994	1,763,915	351,808	88,334	580,255	29,315	773,674	220,488	1,183,358	332,169	263,476
1995	1,763,834	351,794	88,331	580,233	29,314	773,644	220,477	1,183,297	332,153	263,466
1996	1,763,754	351,781	88,327	580,211	29,312	773,615	220,468	1,183,238	332,137	263,455
1997	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
1998	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
1999	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2000	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2001	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2002	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2003	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2004	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2005	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2006	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2007	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2008	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2009	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2010	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2011	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2012	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2013	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2014	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2015	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2016	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2017	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2018	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2019	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2020	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2021	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2022	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2023	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2024	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2025	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2026	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2027	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2028	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2029	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2030	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2031	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2032	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2033	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2034	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446
2035	1,763,674	351,767	88,324	580,189	29,311	773,585	220,458	1,183,179	332,119	263,446

VARIABLE OMP&R COMPONENT OF TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

Sheet 4 of 4

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR, South Bay	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	County of Butte	Plumas County FC & WCD	Total		
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	37,739
1963	0	0	0	0	0	0	0	0	0	59,271
1964	0	0	0	0	0	0	0	0	0	74,487
1965	0	0	0	0	0	0	0	0	0	144,117
1966	0	0	0	0	0	0	0	0	0	199,466
1967	0	0	0	0	0	0	0	0	0	249,876
1968	0	0	0	0	0	0	0	0	0	1,256,837
1969	0	0	0	0	0	0	0	0	0	1,005,508
1970	0	0	0	0	0	0	0	0	0	1,460,048
1971	1,255,159	28,689	0	1,283,848	0	0	0	0	0	2,744,364
1972	3,510,400	51,312	0	5,120,561	0	0	0	0	0	6,704,938
1973	4,031,193	61,281	0	5,848,674	0	0	0	0	0	7,599,399
1974	4,822,719	82,177	0	6,808,017	0	0	0	0	0	8,685,418
1975	6,702,127	106,582	0	8,973,126	0	0	0	0	0	10,907,404
1976	6,287,509	104,935	0	9,058,046	0	0	0	0	0	11,212,398
1977	7,806,968	134,201	0	10,563,986	0	0	0	0	0	12,893,409
1978	9,121,005	162,741	0	12,030,306	0	0	0	0	0	14,476,017
1979	10,281,376	183,647	0	13,474,340	0	0	0	0	0	16,013,549
1980	11,162,450	208,625	10,378	14,682,739	0	0	0	0	0	17,593,033
1981	12,544,219	235,282	21,293	16,298,009	0	0	0	0	0	19,146,665
1982	13,448,011	254,061	30,982	17,451,013	0	0	0	0	0	20,713,320
1983	15,754,373	295,024	43,873	20,177,950	0	0	0	0	0	23,465,642
1984	14,802,821	283,145	48,651	19,274,497	0	0	0	0	0	22,882,814
1985	17,184,418	323,305	62,778	21,878,038	0	0	0	0	0	25,678,666
1986	16,294,613	311,216	75,678	21,047,632	0	0	0	0	0	24,567,129
1987	18,050,010	358,283	101,497	23,019,431	0	0	0	0	0	26,624,629
1988	19,670,213	388,167	134,925	25,240,424	0	0	0	0	0	29,152,351
1989	20,734,077	411,620	167,579	26,518,284	0	0	0	0	0	30,798,632
1990	21,554,003	433,825	209,073	27,589,066	0	0	0	0	0	32,059,086
1991	21,825,461	445,060	214,490	28,071,059	0	0	0	0	0	32,595,665
1992	21,886,125	441,126	212,592	28,127,886	0	0	0	0	0	32,658,803
1993	21,882,893	441,058	212,560	28,123,872	0	0	0	0	0	32,659,658
1994	21,880,195	441,003	212,533	28,120,523	0	0	0	0	0	32,660,353
1995	21,879,024	440,979	212,522	28,119,068	0	0	0	0	0	32,660,649
1996	21,877,853	440,955	212,509	28,117,615	0	0	0	0	0	32,660,942
1997	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
1998	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
1999	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2000	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2001	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2002	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2003	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2004	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2005	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2006	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2007	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2008	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2009	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2010	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2011	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2012	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2013	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2014	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2015	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2016	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2017	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2018	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2019	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2020	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2021	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2022	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2023	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2024	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2025	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2026	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2027	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2028	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2029	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2030	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2031	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2032	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2033	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2034	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754
2035	21,914,601	442,012	213,019	28,155,684	0	0	0	0	0	32,700,754

TABLE B-19

TOTAL TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

Sheet 1 of 4

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	20,140	52,147	0	72,287	0	0	0
1963	0	0	0	135,799	173,784	398,311	707,894	0	0	0
1964	0	0	0	146,498	242,145	555,627	944,270	10,308	25,081	35,389
1965	0	0	0	216,241	337,444	1,061,140	1,614,825	17,077	41,114	58,191
1966	18,754	0	18,754	239,848	344,954	1,295,146	1,879,948	26,467	63,299	89,766
1967	40,045	0	40,045	300,641	413,191	1,538,672	2,252,504	42,228	100,424	142,652
1968	122,701	0	122,701	321,188	500,126	1,808,937	2,630,251	66,372	157,168	223,540
1969	265,945	0	265,945	369,486	485,533	1,929,274	2,784,293	126,565	297,968	424,533
1970	285,002	0	285,002	420,226	536,120	2,178,277	3,134,623	129,556	305,554	435,110
1971	292,284	29,515	321,799	424,439	535,644	2,151,307	3,111,390	115,155	272,176	387,331
1972	288,695	33,441	322,136	473,856	528,601	2,091,339	3,093,796	115,027	274,453	390,480
1973	293,758	36,559	330,317	484,526	539,176	2,119,590	3,143,292	116,740	276,327	393,067
1974	299,809	42,684	342,493	492,624	544,978	2,125,815	3,163,417	118,641	280,946	399,587
1975	310,671	50,035	360,706	497,545	547,637	2,114,575	3,159,757	119,777	283,797	403,574
1976	315,586	55,325	370,911	505,592	553,181	2,115,847	3,174,620	214,840	512,816	727,656
1977	323,441	64,291	387,732	512,218	557,934	2,113,454	3,183,606	237,619	575,282	812,901
1978	335,396	78,408	413,804	517,899	561,622	2,107,529	3,187,050	286,050	703,847	989,897
1979	377,908	119,030	496,938	518,519	559,046	2,081,778	3,159,343	521,997	1,338,951	1,860,948
1980	593,167	352,601	945,768	524,409	563,096	2,070,736	3,158,241	859,965	2,242,646	3,102,611
1981	604,841	357,934	962,775	521,444	560,073	2,038,389	3,119,906	858,661	2,271,187	3,129,848
1982	606,715	358,198	964,913	530,542	570,586	2,052,405	3,153,533	872,175	2,299,352	3,171,527
1983	608,021	358,002	966,023	529,590	569,700	2,030,045	3,129,335	878,236	2,311,055	3,189,291
1984	613,300	363,187	976,487	533,914	574,922	2,028,069	3,136,905	896,300	2,352,938	3,249,238
1985	615,679	363,813	979,492	537,515	579,320	2,023,905	3,140,740	920,000	2,406,151	3,326,151
1986	622,552	363,952	986,504	530,303	571,829	1,986,189	3,088,321	938,964	2,449,832	3,388,796
1987	623,169	364,388	987,557	530,730	572,554	1,974,191	3,077,475	959,852	2,497,363	3,457,215
1988	623,881	365,718	989,599	535,218	577,929	1,974,811	3,087,958	979,789	2,543,580	3,523,369
1989	622,266	366,389	988,655	540,130	583,794	1,985,206	3,109,130	1,023,558	2,643,795	3,667,353
1990	624,533	367,124	991,657	542,903	587,193	1,989,412	3,119,508	1,046,822	2,697,216	3,744,038
1991	624,533	367,124	991,657	549,740	591,684	1,993,292	3,134,716	1,047,619	2,699,054	3,746,673
1992	624,533	367,124	991,657	554,837	594,320	1,992,863	3,142,020	1,047,597	2,699,002	3,746,599
1993	624,533	367,124	991,657	559,756	596,885	1,992,559	3,149,200	1,047,558	2,698,909	3,746,467
1994	624,533	367,124	991,657	565,052	596,405	1,993,715	3,155,172	1,047,524	2,698,832	3,746,356
1995	624,533	367,124	991,657	571,752	595,188	1,990,820	3,157,760	1,047,509	2,698,798	3,746,307
1996	624,533	367,124	991,657	578,362	593,997	1,987,984	3,160,343	1,047,494	2,698,765	3,746,259
1997	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
1998	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
1999	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2000	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2001	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2002	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2003	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2004	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2005	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2006	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2007	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2008	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2009	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2010	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2011	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2012	624,533	367,124	991,657	584,886	592,831	1,985,204	3,162,921	1,047,480	2,698,731	3,746,211
2013	624,533	367,124	991,657	483,785	500,317	1,658,598	2,642,700	1,047,480	2,698,731	3,746,211
2014	624,533	367,124	991,657	453,266	451,716	1,506,974	2,411,956	1,037,172	2,673,650	3,710,822
2015	624,533	367,124	991,657	420,206	395,610	1,171,201	1,987,017	1,030,403	2,657,618	3,688,021
2016	605,779	367,124	972,903	404,522	375,880	1,020,618	1,801,020	1,021,014	2,635,433	3,656,447
2017	584,488	367,124	951,612	379,186	353,003	924,737	1,656,926	1,005,253	2,598,307	3,603,560
2018	511,719	367,124	878,843	345,129	320,917	826,419	1,492,465	992,911	2,569,121	3,562,032
2019	471,588	367,124	838,712	313,000	292,251	744,299	1,349,550	989,094	2,559,923	3,549,017
2020	458,531	367,124	825,655	304,671	284,513	719,919	1,309,103	985,791	2,551,622	3,537,413
2021	453,249	337,609	790,858	303,603	283,454	713,250	1,300,307	984,495	2,548,350	3,532,845
2022	450,838	333,683	784,521	303,292	283,109	711,027	1,297,428	983,319	2,545,363	3,528,682
2023	448,775	330,565	779,340	303,262	283,081	710,360	1,296,703	982,349	2,542,889	3,525,238
2024	444,724	324,440	769,164	301,560	281,231	703,007	1,285,798	980,043	2,537,312	3,517,355
2025	439,862	317,089	756,951	300,619	280,375	700,954	1,281,948	979,019	2,534,729	3,513,748
2026	435,947	311,799	747,746	298,522	278,478	696,373	1,273,373	883,525	2,304,708	3,188,233
2027	429,092	302,833	731,925	298,068	278,071	695,381	1,271,520	860,609	2,241,921	3,102,530
2028	418,137	288,716	706,853	298,068	278,071	695,381	1,271,520	812,168	2,113,329	2,925,497
2029	377,625	248,094	625,719	298,062	278,066	695,369	1,271,497	576,335	1,478,498	2,054,833
2030	254,614	135,470	390,084	298,008	278,016	695,250	1,271,274	332,932	802,934	1,135,866
2031	250,447	130,709	381,156	297,802	277,828	694,800	1,270,430	327,648	786,013	1,113,661
2032	250,024	130,069	380,093	297,183	277,261	693,452	1,267,896	321,937	771,714	1,093,651
2033	250,024	130,069	380,093	296,586	276,716	692,153	1,265,455	321,107	769,632	1,090,739
2034	246,672	125,001	371,673	296,568	276,699	692,113	1,265,380	320,995	769,369	1,090,364
2035	246,672	125,001	371,673	296,568	276,699	692,113	1,265,380	319,317	765,343	1,084,660

a) Unadjusted for prior overpayments or underpayments of charges.

TOTAL TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY AREA									
					Kern County Water Agency					
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Municipal and Industrial	Agriculture	Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	80,061	0	0	0	0	80,061
1966	0	0	0	0	134,638	0	0	0	0	134,638
1967	0	0	0	0	230,385	0	0	0	0	230,385
1968	69,911	176,497	10,664	5,591	378,842	1,504,116	12,727	9,764	197,443	2,365,555
1969	105,368	159,980	19,122	25,819	487,327	2,510,917	14,584	10,725	410,201	3,744,043
1970	119,210	174,162	20,013	27,286	546,592	3,189,697	15,548	11,190	339,349	4,443,047
1971	117,119	181,112	18,687	24,760	640,244	3,349,713	15,032	11,203	339,956	4,697,826
1972	124,379	192,043	18,286	26,392	650,714	4,084,094	15,132	11,742	350,954	5,473,736
1973	139,856	203,986	18,200	28,229	665,281	4,409,605	15,332	12,096	364,562	5,857,147
1974	148,676	216,991	18,163	30,781	718,928	4,593,269	15,583	12,442	388,462	6,143,295
1975	160,253	227,007	17,767	32,268	716,187	4,889,481	15,638	12,221	407,069	6,477,891
1976	171,385	243,617	18,150	34,661	738,129	5,352,736	15,906	12,789	437,409	7,024,782
1977	183,469	258,776	18,322	36,856	748,566	5,808,226	16,206	13,849	465,833	7,550,103
1978	182,634	270,242	18,127	39,195	753,469	6,243,564	16,505	14,233	486,972	8,024,941
1979	181,689	282,269	18,002	40,956	759,599	6,677,669	16,627	14,605	509,126	8,500,542
1980	181,313	300,908	18,479	43,641	781,353	7,215,530	17,360	15,839	543,094	9,117,517
1981	176,617	305,335	17,763	44,964	773,055	7,570,253	17,047	15,275	551,456	9,471,765
1982	179,048	328,480	18,436	48,229	804,849	8,197,114	18,058	16,901	592,590	10,203,705
1983	174,842	335,100	18,030	49,390	807,246	8,627,914	18,392	16,686	607,264	10,654,864
1984	175,367	354,391	18,374	52,100	829,908	9,188,258	19,377	17,997	641,448	11,297,220
1985	173,883	366,697	18,285	54,557	849,511	9,627,225	20,167	18,275	664,088	11,792,688
1986	168,971	359,951	17,052	53,567	827,966	9,744,396	19,432	16,757	652,600	11,860,692
1987	166,996	368,366	16,800	54,793	833,957	10,120,170	19,609	16,682	668,114	12,265,487
1988	168,039	383,894	16,963	57,058	858,532	10,632,691	19,829	17,341	696,592	12,850,939
1989	167,736	402,760	17,296	60,437	879,890	11,025,445	20,268	18,645	731,180	13,323,657
1990	167,692	414,825	17,251	62,196	894,868	11,342,251	20,209	18,844	780,121	13,718,257
1991	167,949	415,710	17,297	62,328	898,443	11,373,187	20,270	18,909	781,810	13,755,903
1992	167,939	415,657	17,295	62,321	898,386	11,372,505	20,267	18,903	781,711	13,754,984
1993	167,918	415,565	17,290	62,307	898,195	11,370,842	20,261	18,893	781,534	13,752,805
1994	167,901	415,487	17,285	62,296	898,035	11,369,455	20,256	18,886	781,387	13,750,988
1995	167,894	415,454	17,284	62,291	897,966	11,368,853	20,253	18,883	781,322	13,750,200
1996	167,886	415,421	17,282	62,285	897,897	11,368,251	20,251	18,879	781,259	13,749,411
1997	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
1998	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
1999	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2000	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2001	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2002	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2003	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2004	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2005	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2006	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2007	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2008	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2009	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2010	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2011	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2012	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2013	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2014	167,879	415,387	17,280	62,281	897,828	11,367,649	20,248	18,877	781,195	13,748,624
2015	167,879	415,387	17,280	62,281	817,767	11,367,649	20,248	18,877	781,195	13,668,563
2016	167,879	415,387	17,280	62,281	763,190	11,367,649	20,248	18,877	781,195	13,613,986
2017	167,879	415,387	17,280	62,281	667,443	11,367,649	20,248	18,877	781,195	13,518,239
2018	167,879	415,387	17,280	62,281	579,921	11,367,649	12,137	18,877	781,195	13,422,606
2019	167,879	415,387	17,280	62,281	528,662	11,367,649	11,701	18,877	781,195	13,370,911
2020	167,879	415,387	17,280	62,281	484,864	11,367,649	11,361	18,877	781,195	13,326,773
2021	167,879	415,387	17,280	62,281	471,083	11,367,649	11,283	18,877	781,195	13,312,914
2022	167,879	415,387	17,280	62,281	463,861	11,367,649	11,211	18,877	781,195	13,305,620
2023	167,879	415,387	17,280	62,281	460,919	11,367,649	11,164	18,877	781,195	13,302,631
2024	167,879	415,387	17,280	62,281	452,155	11,367,649	10,887	18,877	781,195	13,293,590
2025	167,879	415,387	17,280	62,281	449,940	11,367,649	10,827	18,877	781,195	13,291,315
2026	167,879	415,387	17,280	62,281	447,052	11,367,649	10,755	18,877	781,195	13,288,355
2027	167,879	415,387	17,280	62,281	446,610	11,367,649	10,753	18,877	781,195	13,287,911
2028	167,879	415,387	17,280	62,281	446,429	11,367,649	10,753	18,877	781,195	13,287,730
2029	167,879	415,387	17,280	62,281	446,379	11,367,649	10,752	18,877	781,195	13,287,679
2030	167,879	415,387	17,280	62,281	446,092	11,367,649	10,747	18,877	781,195	13,287,387
2031	167,879	415,387	17,280	62,281	445,329	11,367,649	10,727	18,877	781,195	13,286,604
2032	167,879	415,387	17,280	62,281	443,550	11,367,649	10,668	18,877	781,195	13,284,766
2033	167,879	415,387	17,280	62,281	441,836	11,367,649	10,612	18,877	781,195	13,282,996
2034	167,879	415,387	17,280	62,281	441,256	11,367,649	10,593	18,877	781,195	13,282,397
2035	167,879	415,387	17,280	62,281	433,856	11,367,649	10,349	18,877	781,195	13,274,753

TOTAL TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	30,981	0	0	0	0	0	0	45,799	0	0
1964	68,978	15,644	4,414	38,203	1,315	31,561	9,036	85,949	34,839	19,959
1965	125,230	26,926	7,420	43,912	2,303	54,669	16,193	142,098	37,582	21,974
1966	217,521	45,511	12,420	74,562	3,891	92,622	27,971	234,728	62,417	36,999
1967	396,833	82,627	22,305	135,773	7,026	168,585	51,305	415,349	111,046	66,501
1968	688,007	143,747	38,898	236,574	12,156	292,961	89,353	734,189	196,357	118,404
1969	1,026,366	218,209	59,052	359,375	18,236	444,369	133,622	1,164,144	311,374	187,539
1970	1,438,396	342,112	97,669	563,720	26,215	685,519	190,941	1,887,068	496,682	300,565
1971	1,718,377	451,817	132,219	744,646	32,083	898,839	231,715	2,647,277	683,009	403,175
1972	2,248,695	662,832	178,180	1,082,040	39,880	1,279,016	291,465	4,119,581	1,043,792	506,175
1973	2,361,778	686,054	186,562	1,120,108	42,265	1,343,394	316,169	4,155,656	1,058,604	514,159
1974	2,445,699	697,112	192,634	1,138,936	44,138	1,388,856	337,494	4,168,008	1,066,492	517,073
1975	2,522,970	711,218	199,562	1,162,400	46,047	1,436,793	358,017	4,290,001	1,099,549	520,212
1976	2,751,915	741,091	210,521	1,210,923	49,254	1,523,426	392,145	4,432,719	1,140,305	524,536
1977	2,772,944	741,595	211,077	1,206,370	49,527	1,533,460	400,180	4,380,652	1,129,420	524,697
1978	2,888,983	753,106	214,929	1,219,417	52,011	1,566,788	413,013	4,357,198	1,126,455	525,044
1979	2,975,032	767,259	220,614	1,236,533	53,446	1,608,411	423,222	4,438,145	1,150,848	525,044
1980	3,288,248	780,368	225,335	1,269,798	55,312	1,645,225	439,166	4,413,907	1,144,360	645,092
1981	3,436,851	794,299	226,982	1,293,188	56,426	1,668,790	440,745	4,481,084	1,163,536	654,339
1982	3,508,242	810,508	230,706	1,320,047	57,674	1,697,042	446,807	4,528,415	1,176,203	668,227
1983	3,614,060	834,797	237,230	1,359,621	59,631	1,746,317	457,891	4,617,466	1,199,961	689,240
1984	3,632,090	837,989	239,645	1,365,727	59,960	1,746,689	456,413	4,525,583	1,200,616	699,493
1985	3,675,341	853,279	242,992	1,391,036	60,824	1,773,609	458,629	4,671,583	1,215,003	712,059
1986	3,739,327	866,898	245,622	1,413,596	61,944	1,798,781	464,196	4,603,844	1,202,164	724,055
1987	3,797,411	877,737	246,851	1,439,041	63,090	1,816,439	469,143	4,613,072	1,208,003	731,767
1988	3,961,022	911,814	255,144	1,502,363	65,914	1,886,044	488,172	4,731,600	1,244,114	759,564
1989	3,991,160	921,764	258,697	1,526,132	66,572	1,904,959	489,312	4,770,371	1,258,235	773,808
1990	4,059,539	933,587	261,181	1,539,241	67,746	1,924,963	495,767	4,809,467	1,270,750	784,802
1991	4,162,787	944,518	263,372	1,557,267	68,148	1,948,976	498,792	4,833,693	1,274,034	791,342
1992	4,163,655	943,624	263,175	1,555,793	68,162	1,947,015	498,898	4,838,475	1,275,373	790,754
1993	4,163,433	943,587	263,166	1,555,732	68,158	1,946,933	498,871	4,838,310	1,275,326	790,726
1994	4,163,247	943,556	263,158	1,555,681	68,155	1,946,865	498,848	4,838,173	1,275,287	790,703
1995	4,163,166	943,542	263,155	1,555,659	68,154	1,946,835	498,837	4,838,112	1,275,271	790,693
1996	4,163,086	943,529	263,151	1,555,637	68,152	1,946,806	498,828	4,838,053	1,275,255	790,682
1997	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
1998	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
1999	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2000	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2001	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2002	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2003	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2004	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2005	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2006	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2007	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2008	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2009	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2010	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2011	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2012	4,163,006	943,515	263,148	1,555,615	68,151	1,946,776	498,818	4,837,994	1,275,237	790,673
2013	4,132,025	943,515	263,148	1,543,216	68,151	1,946,776	498,818	4,792,195	1,263,381	784,008
2014	4,094,028	927,871	258,734	1,530,310	66,836	1,915,215	489,782	4,752,046	1,252,731	777,646
2015	4,037,776	916,589	255,728	1,511,703	65,848	1,892,107	482,626	4,695,897	1,237,655	768,698
2016	3,945,485	898,004	250,728	1,481,053	64,260	1,854,154	470,848	4,603,267	1,212,820	753,674
2017	3,766,173	860,889	240,843	1,419,842	61,125	1,778,191	447,513	4,422,645	1,164,191	724,172
2018	3,540,324	811,510	227,220	1,338,407	57,087	1,678,290	417,671	4,156,319	1,093,337	681,123
2019	3,263,281	748,075	209,854	1,233,790	52,033	1,549,852	381,103	3,775,673	991,888	620,303
2020	2,872,384	627,981	172,204	1,035,729	44,409	1,316,622	326,438	3,069,802	811,266	510,149
2021	2,677,047	533,591	141,521	880,059	39,953	1,135,019	296,295	2,378,072	643,745	419,087
2022	2,598,433	502,053	129,191	828,045	38,451	1,078,882	285,414	2,094,926	575,622	384,283
2023	2,575,695	494,350	126,598	815,339	38,039	1,064,319	282,381	2,047,098	563,666	377,099
2024	2,559,898	489,196	125,216	806,839	37,729	1,053,787	280,180	2,018,667	556,032	373,016
2025	2,551,812	486,492	124,496	802,379	37,588	1,048,269	279,134	1,977,799	545,074	370,900
2026	2,536,786	481,346	123,195	793,893	37,336	1,037,631	277,247	1,916,396	528,492	367,019
2027	2,522,803	479,090	122,625	790,171	37,176	1,032,971	276,043	1,906,041	525,653	365,317
2028	2,484,155	478,263	122,416	788,807	37,099	1,031,264	275,471	1,902,344	524,639	364,694
2029	2,465,506	478,111	122,378	788,556	37,086	1,030,949	275,365	1,901,663	524,452	364,579
2030	2,254,466	477,145	122,092	786,963	37,017	1,029,038	274,864	1,896,611	523,134	363,762
2031	2,147,486	475,807	121,700	784,757	36,920	1,026,382	274,154	1,889,675	521,319	362,638
2032	2,145,580	475,465	121,613	784,191	36,888	1,025,669	273,914	1,887,463	520,738	362,334
2033	2,143,744	475,135	121,530	783,647	36,858	1,024,980	273,683	1,885,307	520,173	362,040
2034	2,143,122	475,023	121,502	783,463	36,847	1,024,748	273,605	1,884,807	520,035	361,956
2035	2,135,191	473,597	121,142	781,111	36,714	1,021,776	272,609	1,878,431	518,280	360,881

TOTAL TRANSPORTATION CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

Sheet 4 of 4

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR, South Bay	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	County of Butte	Plumas County FC & WCD	Total		
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	72,287
1963	681,454	0	0	758,234	0	0	0	0	52,628	1,518,756
1964	1,399,565	22,656	10,719	1,742,838	0	0	0	0	83,564	2,806,061
1965	2,363,365	41,256	19,432	2,902,360	0	0	361	361	143,606	4,799,404
1966	4,027,902	74,229	34,660	4,945,433	0	0	508	508	164,929	7,233,976
1967	7,428,865	142,595	65,939	9,094,749	0	0	509	509	218,102	11,978,946
1968	14,459,766	293,307	134,929	17,438,648	0	0	520	520	284,816	23,066,031
1969	22,362,181	452,905	208,397	26,945,769	0	0	2,914	2,914	349,182	34,516,679
1970	32,532,521	632,283	287,795	39,481,486	0	0	12,735	12,735	421,929	48,213,932
1971	43,709,753	796,154	348,890	52,797,954	0	0	13,429	13,429	423,766	61,753,495
1972	53,858,051	889,931	380,514	66,580,152	0	0	13,429	13,429	423,261	76,296,990
1973	55,961,506	907,038	381,940	69,035,233	0	0	13,429	13,429	423,373	79,195,858
1974	57,465,767	941,980	385,671	70,789,860	0	0	13,429	13,429	425,177	81,277,258
1975	59,772,992	969,381	387,013	73,476,155	0	0	13,429	13,429	422,269	84,313,781
1976	59,829,144	971,643	388,924	74,166,546	0	0	13,429	13,429	426,270	85,904,214
1977	61,437,159	1,003,219	390,052	75,780,352	0	0	13,429	13,429	426,801	88,154,924
1978	62,835,127	1,034,069	391,012	77,377,152	0	0	13,429	13,429	427,211	90,433,484
1979	64,054,480	1,056,440	391,572	78,901,046	0	0	13,429	13,429	427,061	93,359,307
1980	64,950,312	1,081,738	402,112	80,340,973	0	0	13,429	13,429	427,704	97,106,243
1981	66,410,552	1,109,998	413,749	82,150,539	0	0	13,429	13,429	427,778	99,276,040
1982	67,353,540	1,129,390	423,748	83,350,549	0	0	13,429	13,429	428,001	101,285,657
1983	69,707,867	1,171,117	436,961	86,132,159	0	0	13,429	13,429	428,216	104,513,317
1984	68,720,532	1,158,766	441,618	85,185,121	0	0	13,429	13,429	428,223	104,286,623
1985	71,201,292	1,200,902	456,743	87,913,292	0	0	13,429	13,429	428,223	107,594,015
1986	70,332,542	1,189,702	470,092	87,112,763	0	0	13,429	13,429	427,813	106,878,318
1987	72,087,560	1,236,742	495,882	89,082,738	0	0	13,429	13,429	427,733	109,311,634
1988	73,748,207	1,267,269	529,553	91,350,780	0	0	13,429	13,429	427,733	112,243,807
1989	74,799,166	1,290,725	562,213	92,613,114	0	0	13,429	13,429	427,733	114,143,071
1990	75,618,189	1,312,832	603,672	93,681,736	0	0	13,429	13,429	427,733	115,696,358
1991	75,890,585	1,324,180	609,132	94,166,826	0	0	13,429	13,429	427,733	116,236,937
1992	75,951,249	1,320,246	607,234	94,223,653	0	0	13,429	13,429	427,733	116,300,075
1993	75,948,017	1,320,178	607,202	94,219,639	0	0	13,429	13,429	427,733	116,300,930
1994	75,945,319	1,320,123	607,175	94,216,290	0	0	13,429	13,429	427,733	116,301,625
1995	75,944,148	1,320,099	607,164	94,214,835	0	0	13,429	13,429	427,733	116,301,921
1996	75,942,977	1,320,075	607,151	94,213,382	0	0	13,429	13,429	427,733	116,302,214
1997	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
1998	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
1999	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2000	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2001	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2002	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2003	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2004	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2005	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2006	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2007	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2008	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2009	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2010	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2011	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2012	75,979,725	1,321,132	607,661	94,251,451	0	0	13,429	13,429	427,733	116,342,026
2013	75,298,270	1,321,132	607,661	93,462,296	0	0	13,429	13,429	386,085	114,991,002
2014	74,580,160	1,298,477	596,942	92,540,778	0	0	13,429	13,429	356,047	113,773,313
2015	73,616,359	1,279,876	588,230	91,349,092	0	0	13,068	13,068	311,254	112,008,672
2016	71,951,823	1,246,903	573,001	89,306,020	0	0	12,921	12,921	291,979	109,655,276
2017	68,550,859	1,178,537	541,722	85,156,702	0	0	12,920	12,920	253,807	105,153,766
2018	62,496,462	1,047,623	482,274	78,027,647	0	0	12,909	12,909	179,566	97,576,068
2019	55,519,224	906,606	417,762	69,669,444	0	0	10,515	10,515	118,794	88,906,943
2020	45,673,339	733,634	341,448	57,535,405	0	0	894	894	107,499	76,642,742
2021	37,054,168	624,107	292,717	47,115,381	0	0	200	200	104,841	66,157,346
2022	33,862,320	606,225	285,106	43,268,951	0	0	200	200	104,301	62,289,703
2023	32,559,889	601,068	284,248	41,829,788	0	0	200	200	104,290	60,838,190
2024	31,914,137	589,347	281,205	41,085,249	0	0	200	200	101,819	60,053,175
2025	31,512,087	584,336	279,185	40,599,551	0	0	200	200	100,735	59,544,448
2026	31,019,254	579,555	276,912	39,975,062	0	0	200	200	96,667	58,569,636
2027	30,833,341	576,148	275,346	39,742,725	0	0	200	200	95,428	58,232,239
2028	30,729,115	573,776	274,329	39,586,372	0	0	200	200	95,428	57,873,600
2029	30,676,936	572,431	273,823	39,511,835	0	0	200	200	95,426	56,847,189
2030	30,614,886	571,376	273,315	39,224,669	0	0	200	200	95,406	55,404,886
2031	30,527,940	569,881	272,594	39,011,253	0	0	200	200	95,332	55,158,636
2032	30,489,318	569,302	272,316	38,964,791	0	0	200	200	95,109	55,086,506
2033	30,451,734	568,746	272,048	38,919,625	0	0	200	200	94,894	55,034,002
2034	30,442,440	568,558	271,957	38,908,063	0	0	200	200	94,887	55,012,964
2035	30,323,889	566,155	270,798	38,760,574	0	0	200	200	94,887	54,852,127

TABLE B-20

CALCULATION OF DELTA WATER RATES

[values in millions of dollars ($) or millions of acre-feet (AF)
discounted to December 31, 1968 at 4.021 percent per annum, unless otherwise noted]

Procedure	Capital Cost Component	Minimum Operation, Maintenance, Power, and Replacement Component(a	Total Delta Water Charge
Calculation under proposed amendment of Articles 22(e) and 22(g)			
Commencing in 1970:			
Total costs of "initial conservation facilities" to be reimbursed, and project water entitlements to be delivered, during the project repayment period	$696.79(b 66.45 AF	$141.05 66.45 AF	$837.84 66.45 AF
less, Oroville power revenues to be realized during the project repayment period(c	$362.71	$ 34.54	$397.25
less, Delta Water Charges paid, and project water entitlements delivered, prior to 1970(d	$ 1.79 0.48 AF	$ 0.00 0.48 AF	$ 1.79 0.48 AF
Subtotal	$332.29 ÷ 65.97 AF	$106.51 ÷ 65.97 AF	$438.80 ÷ 65.97 AF
Rate applicable for remainder of the project repayment period	$5.04 per acre-foot	$1.61 per acre-foot	$6.65 per acre-foot
Commencing in 1976:			
Additional costs to be reimbursed during the project repayment period for Dos Rios-Grindstone Tunnel	$ 85.56	$ 1.80	$ 87.36
less, Delta Water Charges paid, and project water entitlements delivered, during the period 1970 thru 1975	$ 21.54 4.28 AF	$ 6.89 4.28 AF	$ 28.43 4.28 AF
Cumulative Subtotal	$396.31 ÷ 61.69 AF	$101.42 ÷ 61.69 AF	$497.73 ÷ 61.69 AF
Rate applicable for remainder of the project repayment period	$6.42 per acre-foot	$1.64 per acre-foot	$8.06 per acre-foot
Commencing in 1985:			
Additional costs to be reimbursed during the project repayment period for Stony Creek Conveyance Channel	$ 3.43	$ 0.75	$ 4.18
less, Delta Water Charges paid, and project water entitlements delivered, during the period 1976 thru 1984	$ 82.37 12.83 AF	$ 21.04 12.83 AF	$103.41 12.83 AF
Cumulative Subtotal	$317.37 ÷ 48.86 AF	$ 81.13 ÷ 48.86 AF	$398.50 ÷ 48.86 AF
Rate applicable for remainder of the project repayment period	$6.49 per acre-foot	$1.66 per acre-foot	$8.15 per acre-foot
Commencing in 1986:			
Additional costs to be reimbursed during the project repayment period for payments to the Corps of Engineers for initial block of Dos Rios Reservoir storage	$ 68.85	$ 2.74	$ 71.59
less, Delta Water Charges paid, and project water entitlements delivered, in 1985	$ 11.10 1.71 AF	$ 2.84 1.71 AF	$ 13.94 1.71 AF
Cumulative Subtotal	$375.12 ÷ 47.15 AF	$ 81.03 ÷ 47.15 AF	$456.15 ÷ 47.15 AF
Rate applicable for remainder of the project repayment period	$7.95 per acre-foot	$1.72 per acre-foot	$9.67 per acre-foot
Commencing in 1994:			
Additional costs to be reimbursed during the project repayment period for payments to the Corps of Engineers for reserved block of Dos Rios Reservoir storage	$ 31.26	$ 1.34	$ 32.60
less, Delta Water Charges paid, and project water entitlements delivered, during the period 1986 thru 1993	$112.17 14.11 AF	$ 24.27 14.11 AF	$136.44 14.11 AF
Cumulative Total	$294.21 ÷ 33.04 AF	$ 58.10 ÷ 33.04 AF	$352.31 ÷ 33.04 AF
Rate applicable for remainder of the project repayment period	$8.90 per acre-foot	$1.76 per acre-foot	$10.66 per acre-foot
Calculation under present provisions of the Contract			
Commencing in 1970:			
Total costs of "initial" and "additional" project conservation facilities to be reimbursed, and project water entitlements to be delivered, during the project repayment period	$885.89(b 66.45 AF	$147.68 66.45 AF	$1,033.57 66.45 AF
less, Oroville power revenues to be realized during the project repayment period(c	$362.71	$ 34.54	$ 397.25
less, Delta Water Charges paid, and project water entitlements delivered, prior to 1970(d	$ 1.79 0.48 AF	$ 0.00 0.48 AF	$ 1.79 0.48 AF
TOTAL	$521.39 ÷ 65.97 AF	$113.14 ÷ 65.97 AF	$ 634.53 ÷ 65.97 AF
Rate applicable for remainder of the project repayment period	$7.90 per acre-foot	$1.72 per acre-foot	$9.62 per acre-foot

a) Considering that all but a very minor portion of operating costs of project conservation facilities will not vary with annual amounts of project water delivered, and therefore are properly classified as "minimum" OMP&R costs.

b) Including net credits of $4,850,000 applied December 31, 1960, for settlement as to the magnitude of project capital costs incurred prior to that date, pursuant to Settlement Letter No. 1, and $4,150,000 applied December 31, 1966, for an assumed settlement as to the magnitude of project capital costs for the 1961 thru 1966 period.

c) Applying all power revenues to reimbursement of capital costs, except that portion equal to specific operating costs of power facilities under the revenue bond resolution ($1,500,000 annually).

d) Applying all Delta Water Charges paid prior to 1970 to reimbursement of capital costs. (The Charge is not divided into components until 1970.)

TABLE B-21

TOTAL DELTA WATER CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

Sheet 1 of 4

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	14,000	50,050	177,100	241,150	0	0	0
1968	0	0	0	19,156	29,701	193,245	242,102	0	0	0
1969	0	0	0	30,800	54,250	308,000	393,050	0	0	0
1970	0	0	0	96,191	155,830	846,483	1,098,504	0	0	0
1971	0	0	0	107,734	163,525	846,483	1,117,742	0	0	0
1972	0	0	0	119,277	172,182	846,483	1,137,942	0	0	0
1973	0	0	0	130,820	180,839	846,483	1,158,142	0	0	0
1974	0	0	0	142,363	188,535	846,483	1,177,381	0	0	0
1975	0	0	0	153,906	197,192	846,483	1,197,581	0	0	0
1976	0	0	0	165,449	204,887	846,483	1,216,819	0	0	0
1977	0	0	0	176,992	213,544	846,483	1,237,019	0	0	0
1978	0	0	0	188,535	222,202	846,483	1,257,220	0	0	0
1979	0	0	0	200,078	229,897	846,483	1,276,458	0	0	0
1980	120,239	64,929	185,168	211,621	238,554	846,483	1,296,658	9,619	11,543	21,162
1981	132,263	76,953	209,216	221,240	250,097	846,483	1,317,820	9,619	22,124	31,743
1982	144,287	90,420	234,707	230,859	261,640	846,483	1,338,982	19,238	44,248	63,486
1983	156,311	103,887	260,198	240,478	273,183	846,483	1,360,144	28,857	66,372	95,229
1984	168,335	116,391	284,726	250,097	284,726	846,483	1,381,306	43,286	100,039	143,325
1985	180,359	134,668	315,027	259,716	296,269	846,483	1,402,468	72,143	166,411	238,554
1986	192,382	158,716	351,098	269,335	308,774	846,483	1,424,592	96,191	222,202	318,393
1987	204,406	192,382	396,788	278,955	320,317	846,483	1,445,755	120,239	277,031	397,270
1988	216,430	259,716	476,146	288,574	331,860	846,483	1,466,917	149,096	344,365	493,461
1989	228,454	331,860	560,314	298,193	343,403	846,483	1,488,079	192,382	443,441	635,823
1990	240,478	404,003	644,481	307,812	354,946	846,483	1,509,241	240,478	555,023	795,501
1991	240,478	404,003	644,481	327,050	369,374	846,483	1,542,907	240,478	555,023	795,501
1992	240,478	404,003	644,481	346,288	383,803	846,483	1,576,574	240,478	555,023	795,501
1993	240,478	404,003	644,481	365,527	398,232	846,483	1,610,242	240,478	555,023	795,501
1994	240,478	404,003	644,481	384,765	404,003	846,483	1,635,251	240,478	555,023	795,501
1995	240,478	404,003	644,481	404,003	404,003	846,483	1,654,489	240,478	555,023	795,501
1996	240,478	404,003	644,481	423,241	404,003	846,483	1,673,727	240,478	555,023	795,501
1997	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
1998	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
1999	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2000	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2001	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2002	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2003	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2004	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2005	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2006	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2007	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2008	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2009	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2010	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2011	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2012	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2013	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2014	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2015	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2016	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2017	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2018	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2019	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2020	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2021	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2022	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2023	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2024	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2025	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2026	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2027	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2028	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2029	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2030	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2031	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2032	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2033	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2034	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501
2035	240,478	404,003	644,481	442,480	404,003	846,483	1,692,966	240,478	555,023	795,501

TABLE B-21

TOTAL DELTA WATER CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

Sheet 2 of 4

CALENDAR YEAR	SAN JOAQUIN VALLEY AREA									
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency		Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agriculture				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	13,060	40,695	10,469	4,511	0	165,522	3,177	8,073	94,097	339,604
1969	16,450	47,600	10,500	5,600	0	334,950	4,200	8,750	102,550	530,600
1970	54,829	151,020	28,857	24,048	0	1,395,734	12,505	25,010	305,888	1,997,891
1971	64,448	172,182	28,857	22,124	237,304	1,593,215	12,505	26,934	328,974	2,486,543
1972	74,067	192,382	28,857	25,010	263,564	2,340,332	13,467	27,895	353,022	3,318,596
1973	83,686	211,621	28,857	27,895	301,078	2,685,659	14,429	29,819	376,108	3,759,152
1974	93,305	231,821	28,857	31,743	461,718	2,876,117	14,429	30,781	413,622	4,182,393
1975	102,925	252,021	28,857	34,629	506,928	3,201,244	15,391	32,705	451,137	4,625,837
1976	112,544	272,221	28,857	37,515	539,633	3,623,523	15,391	33,667	488,651	5,152,002
1977	122,163	292,421	28,857	40,400	582,919	4,068,888	16,353	35,591	527,128	5,714,720
1978	122,163	312,621	28,857	44,248	616,586	4,522,911	18,276	37,515	564,642	6,267,819
1979	122,163	332,822	28,857	47,134	650,253	4,966,352	19,238	38,476	602,157	6,807,452
1980	122,163	353,022	28,857	50,019	683,920	5,419,413	21,162	40,400	639,672	7,358,628
1981	122,163	373,222	28,857	53,867	719,510	5,931,150	22,124	41,362	677,186	7,969,441
1982	122,163	394,384	28,857	56,753	765,682	6,403,449	24,048	43,286	714,701	8,553,323
1983	122,163	412,660	28,857	59,639	803,197	6,941,158	26,934	44,248	752,215	9,191,071
1984	122,163	433,822	28,857	62,524	852,254	7,425,962	29,819	46,172	789,730	9,791,303
1985	122,163	454,023	28,857	66,372	903,235	7,898,260	32,705	47,134	827,244	10,379,993
1986	122,163	474,223	28,857	69,258	946,522	8,366,712	35,591	49,058	865,721	10,958,105
1987	122,163	494,423	28,857	72,143	1,001,351	8,843,820	38,476	50,019	903,235	11,554,487
1988	122,163	514,623	28,857	75,029	1,047,522	9,289,185	38,476	51,943	940,750	12,108,548
1989	122,163	534,823	28,857	78,877	1,088,885	9,610,464	38,476	53,867	978,265	12,534,677
1990	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
1991	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
1992	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
1993	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
1994	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
1995	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
1996	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
1997	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
1998	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
1999	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2000	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2001	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2002	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2003	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2004	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2005	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2006	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2007	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2008	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2009	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2010	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2011	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2012	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2013	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2014	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2015	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2016	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2017	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2018	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2019	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2020	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2021	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2022	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2023	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2024	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2025	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2026	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2027	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2028	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2029	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2030	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2031	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2032	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2033	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2034	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908
2035	122,163	555,023	28,857	81,763	1,144,675	9,950,019	38,476	54,829	1,058,103	13,033,908

TOTAL DELTA WATER CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA									
	Antelope Valley-East Kern Water Agnecy	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0
1972	192,382	50,019	5,579	76,953	1,635	80,801	15,583	442,480	101,963	0
1973	240,478	55,791	8,369	86,572	2,790	102,925	28,280	461,718	110,620	0
1974	288,574	61,562	11,158	96,191	3,848	126,010	40,977	480,956	118,315	0
1975	336,669	67,334	13,948	105,810	5,002	148,134	53,675	505,004	126,010	0
1976	423,241	73,105	16,737	115,429	6,156	171,220	66,372	529,052	134,668	0
1977	480,956	81,003	19,527	125,049	7,022	194,306	79,069	553,099	142,363	0
1978	548,290	88,900	22,316	134,668	8,850	216,430	89,843	577,147	151,020	0
1979	606,005	96,797	25,106	144,287	10,004	239,516	98,692	601,195	159,677	0
1980	665,643	104,695	27,895	163,525	11,062	261,640	107,542	630,052	167,373	65,410
1981	721,434	116,439	30,685	182,763	12,216	284,726	112,544	658,910	176,030	75,029
1982	782,035	128,184	33,475	202,002	13,274	306,850	118,508	687,767	183,725	84,648
1983	843,597	139,929	36,264	221,240	14,429	329,936	124,471	716,625	191,421	94,267
1984	904,197	151,674	39,054	240,478	15,487	353,022	130,435	750,291	199,116	103,887
1985	965,760	163,419	41,843	259,716	16,641	375,146	136,399	783,958	209,697	113,506
1986	1,026,360	175,164	44,633	278,955	17,699	398,232	142,363	817,625	223,164	124,087
1987	1,086,961	186,909	47,422	303,002	18,853	420,356	148,327	856,102	236,630	134,668
1988	1,148,523	198,654	50,212	327,050	19,912	442,480	154,291	894,578	250,097	145,249
1989	1,209,124	210,399	53,001	351,098	21,066	466,527	160,255	933,055	263,564	155,830
1990	1,270,686	222,202	55,791	366,489	22,124	488,651	166,411	976,341	277,031	166,411
1991	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
1992	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
1993	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
1994	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
1995	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
1996	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
1997	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
1998	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
1999	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2000	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2001	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2002	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2003	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2004	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2005	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2006	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2007	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2008	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2009	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2010	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2011	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2012	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2013	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2014	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2015	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2016	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2017	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2018	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2019	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2020	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2021	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2022	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2023	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2024	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2025	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2026	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2027	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2028	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2029	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2030	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2031	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2032	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2033	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2034	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411
2035	1,331,286	222,202	55,791	366,489	22,124	488,651	166,411	986,922	277,031	166,411

TABLE B-21

TOTAL DELTA WATER CHARGE FOR EACH CONTRACTOR[a]

(in dollars)

Sheet 4 of 4

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR, South Bay	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	County of Butte	Plumas County FC & WCD	Total		
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	241,150
1968	0	0	0	0	0	1,059	882	1,941	0	583,647
1969	0	0	0	0	0	1,225	945	2,170	0	925,820
1970	0	0	0	0	0	3,848	2,886	6,734	0	3,103,129
1971	673,338	15,391	0	688,729	0	4,329	4,232	8,561	0	4,301,575
1972	2,445,181	35,591	0	3,448,167	0	4,810	4,521	9,331	0	7,914,036
1973	3,410,940	54,829	0	4,563,312	0	5,771	4,810	10,581	0	9,491,187
1974	4,375,738	72,143	0	5,675,472	0	6,733	5,098	11,831	0	11,047,077
1975	5,340,536	91,382	0	6,793,504	0	10,100	5,387	15,487	0	12,632,409
1976	6,306,296	109,658	0	7,951,934	0	13,467	5,675	19,142	0	14,339,897
1977	7,271,094	128,896	0	9,082,384	0	17,314	5,964	23,278	0	16,057,401
1978	8,236,854	147,173	0	10,221,491	0	21,162	6,252	27,414	0	17,773,944
1979	9,201,651	170,258	0	11,353,188	0	25,010	6,541	31,551	0	19,468,649
1980	10,167,411	193,344	9,619	12,575,211	0	38,476	6,830	45,306	0	21,482,133
1981	11,132,209	212,583	19,238	13,734,806	40,400	52,424	7,118	99,942	0	23,362,968
1982	12,097,007	236,630	28,857	14,902,962	44,248	66,372	7,407	118,027	0	25,211,487
1983	13,062,767	258,754	38,476	16,072,176	48,577	80,320	7,695	136,592	0	27,115,410
1984	14,027,565	279,916	48,096	17,243,218	52,905	94,267	7,984	155,156	0	28,999,034
1985	14,993,324	297,231	57,715	18,414,355	57,234	117,834	8,272	183,340	0	30,933,737
1986	15,961,008	316,469	76,953	19,602,712	63,486	141,401	8,561	213,448	0	32,868,348
1987	16,927,730	339,555	96,191	20,802,706	70,220	164,968	8,850	244,038	0	34,841,044
1988	17,895,413	359,755	125,049	22,011,263	76,953	198,154	9,234	284,341	0	36,840,676
1989	18,863,097	378,031	153,906	23,218,953	84,648	231,340	9,619	325,607	0	38,763,453
1990	19,348,862	399,194	192,382	23,952,575	92,344	264,526	10,004	366,874	0	40,302,580
1991	19,348,862	399,194	192,382	24,023,756	92,344	264,526	10,389	367,259	0	40,407,812
1992	19,348,862	399,194	192,382	24,023,756	92,344	264,526	10,773	367,643	0	40,441,863
1993	19,348,862	399,194	192,382	24,023,756	92,344	264,526	11,158	368,028	0	40,475,916
1994	19,348,862	399,194	192,382	24,023,756	92,344	264,526	11,543	368,413	0	40,501,310
1995	19,348,862	399,194	192,382	24,023,756	92,344	264,526	12,024	368,894	0	40,521,029
1996	19,348,862	399,194	192,382	24,023,756	92,344	264,526	12,505	369,375	0	40,540,748
1997	19,348,862	399,194	192,382	24,023,756	92,344	264,526	12,986	369,856	0	40,560,468
1998	19,348,862	399,194	192,382	24,023,756	92,344	264,526	13,467	370,337	0	40,560,949
1999	19,348,862	399,194	192,382	24,023,756	92,344	264,526	13,948	370,818	0	40,561,430
2000	19,348,862	399,194	192,382	24,023,756	92,344	264,526	14,525	371,395	0	40,562,007
2001	19,348,862	399,194	192,382	24,023,756	92,344	264,526	15,102	371,972	0	40,562,584
2002	19,348,862	399,194	192,382	24,023,756	92,344	264,526	15,679	372,549	0	40,563,161
2003	19,348,862	399,194	192,382	24,023,756	92,344	264,526	16,256	373,126	0	40,563,738
2004	19,348,862	399,194	192,382	24,023,756	92,344	264,526	16,833	373,703	0	40,564,315
2005	19,348,862	399,194	192,382	24,023,756	92,344	264,526	17,411	374,281	0	40,564,893
2006	19,348,862	399,194	192,382	24,023,756	92,344	264,526	18,084	374,954	0	40,565,566
2007	19,348,862	399,194	192,382	24,023,756	92,344	264,526	18,757	375,627	0	40,566,239
2008	19,348,862	399,194	192,382	24,023,756	92,344	264,526	19,431	376,301	0	40,566,913
2009	19,348,862	399,194	192,382	24,023,756	92,344	264,526	20,104	376,974	0	40,567,586
2010	19,348,862	399,194	192,382	24,023,756	92,344	264,526	20,777	377,647	0	40,568,259
2011	19,348,862	399,194	192,382	24,023,756	92,344	264,526	21,547	378,417	0	40,569,029
2012	19,348,862	399,194	192,382	24,023,756	92,344	264,526	22,316	379,186	0	40,569,798
2013	19,348,862	399,194	192,382	24,023,756	92,344	264,526	23,182	380,052	0	40,570,664
2014	19,348,862	399,194	192,382	24,023,756	92,344	264,526	24,048	380,918	0	40,571,530
2015	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,010	381,880	0	40,572,492
2016	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2017	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2018	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2019	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2020	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2021	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2022	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2023	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2024	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2025	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2026	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2027	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2028	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2029	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2030	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2031	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2032	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2033	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2034	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454
2035	19,348,862	399,194	192,382	24,023,756	92,344	264,526	25,972	382,842	0	40,573,454

TABLE B-22

TOTAL WATER CHARGE FOR EACH CONTRACTOR(a

(in dollars)

Sheet 1 of 4

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)			(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	20,140	52,147	0	72,287	0	0	0
1963	0	0	0	135,799	173,784	398,311	707,894	0	0	0
1964	0	0	0	146,498	242,145	555,627	944,270	10,308	25,081	35,389
1965	0	0	0	216,241	337,444	1,061,140	1,614,825	17,077	41,114	58,191
1966	18,754	0	18,754	239,848	344,954	1,295,146	1,879,948	26,467	63,299	89,766
1967	40,045	0	40,045	314,641	463,241	1,715,772	2,493,654	42,228	100,424	142,652
1968	122,701	0	122,701	340,344	529,827	2,002,182	2,872,353	66,372	157,168	223,540
1969	265,945	0	265,945	400,286	539,783	2,237,274	3,177,343	126,565	297,968	424,533
1970	285,002	0	285,002	516,417	691,950	3,024,760	4,233,127	129,556	305,554	435,110
1971	292,284	29,515	321,799	532,173	699,169	2,997,790	4,229,132	115,155	272,176	387,331
1972	288,695	33,441	322,136	593,133	700,783	2,937,822	4,231,738	116,027	274,453	390,480
1973	293,758	36,559	330,317	615,346	720,015	2,966,073	4,301,434	116,740	276,327	393,067
1974	299,809	42,684	342,493	634,987	733,513	2,972,298	4,340,798	118,641	280,946	399,587
1975	310,671	50,035	360,706	651,451	744,829	2,961,058	4,357,338	119,777	283,797	403,574
1976	315,586	55,325	370,911	671,041	758,068	2,962,330	4,391,439	214,840	512,816	727,656
1977	323,441	64,291	387,732	689,210	771,478	2,959,937	4,420,625	237,619	575,282	812,901
1978	335,396	78,408	413,804	706,434	783,824	2,954,012	4,444,270	286,050	703,847	989,897
1979	377,908	119,030	496,938	718,597	788,943	2,928,261	4,435,801	521,997	1,338,951	1,860,948
1980	713,406	417,530	1,130,936	736,030	801,650	2,917,219	4,454,899	869,584	2,254,189	3,123,773
1981	737,104	434,887	1,171,991	742,684	810,170	2,884,872	4,437,726	868,280	2,293,311	3,161,591
1982	751,002	448,618	1,199,620	761,401	832,226	2,898,888	4,492,515	891,413	2,343,600	3,235,013
1983	764,332	461,889	1,226,221	770,068	842,883	2,876,528	4,489,479	907,093	2,377,427	3,284,520
1984	781,635	479,578	1,261,213	784,011	859,648	2,874,552	4,518,211	939,586	2,452,977	3,392,563
1985	796,038	498,481	1,294,519	797,231	875,589	2,870,388	4,543,208	992,143	2,572,562	3,564,705
1986	814,934	522,668	1,337,602	799,638	880,603	2,832,672	4,512,913	1,035,155	2,672,034	3,707,189
1987	827,575	556,770	1,384,345	809,685	892,871	2,820,674	4,523,230	1,080,091	2,774,394	3,854,485
1988	840,311	625,434	1,465,745	823,792	909,789	2,821,294	4,554,875	1,128,885	2,887,945	4,016,830
1989	850,720	698,249	1,548,969	838,323	927,197	2,831,689	4,597,209	1,215,940	3,087,236	4,303,176
1990	865,011	771,127	1,636,138	850,715	942,139	2,835,895	4,628,749	1,287,300	3,252,239	4,539,539
1991	865,011	771,127	1,636,138	876,790	961,058	2,839,775	4,677,623	1,288,097	3,254,077	4,542,174
1992	865,011	771,127	1,636,138	901,125	978,123	2,839,346	4,718,594	1,288,075	3,254,025	4,542,100
1993	865,011	771,127	1,636,138	925,283	995,117	2,839,042	4,759,442	1,288,036	3,253,932	4,541,968
1994	865,011	771,127	1,636,138	949,817	1,000,408	2,840,198	4,790,423	1,288,002	3,253,855	4,541,857
1995	865,011	771,127	1,636,138	975,755	999,191	2,837,303	4,812,249	1,287,987	3,253,821	4,541,808
1996	865,011	771,127	1,636,138	1,001,603	998,000	2,834,467	4,834,070	1,287,972	3,253,788	4,541,760
1997	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
1998	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
1999	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2000	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2001	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2002	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2003	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2004	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2005	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2006	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2007	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2008	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2009	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2010	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2011	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2012	865,011	771,127	1,636,138	1,027,366	996,834	2,831,687	4,855,887	1,287,958	3,253,754	4,541,712
2013	865,011	771,127	1,636,138	926,265	904,320	2,505,081	4,335,666	1,287,958	3,253,754	4,541,712
2014	865,011	771,127	1,636,138	895,746	855,719	2,353,457	4,104,922	1,277,650	3,228,673	4,506,323
2015	865,011	771,127	1,636,138	862,686	799,613	2,017,684	3,679,983	1,270,881	3,212,641	4,483,522
2016	846,257	771,127	1,617,384	847,002	779,883	1,867,101	3,493,986	1,261,492	3,190,456	4,451,948
2017	824,966	771,127	1,596,093	821,666	757,006	1,771,220	3,349,892	1,245,731	3,153,330	4,399,061
2018	752,197	771,127	1,523,324	787,609	724,920	1,672,902	3,185,431	1,233,389	3,124,144	4,357,533
2019	712,066	771,127	1,483,193	755,480	696,254	1,590,782	3,042,516	1,229,572	3,114,946	4,344,518
2020	699,009	771,127	1,470,136	747,151	688,516	1,566,402	3,002,069	1,226,269	3,106,645	4,332,914
2021	693,727	741,612	1,435,339	746,083	687,457	1,559,733	2,993,273	1,224,973	3,103,373	4,328,346
2022	691,316	737,686	1,429,002	745,772	687,112	1,557,510	2,990,394	1,223,797	3,100,386	4,324,183
2023	689,253	734,568	1,423,821	745,742	687,084	1,556,843	2,989,669	1,222,827	3,097,912	4,320,739
2024	685,202	728,443	1,413,645	744,040	685,234	1,549,490	2,978,764	1,220,521	3,092,335	4,312,856
2025	680,340	721,092	1,401,432	743,099	684,378	1,547,437	2,974,914	1,219,497	3,089,752	4,309,249
2026	676,425	715,802	1,392,227	741,002	682,481	1,542,856	2,966,339	1,124,003	2,859,731	3,983,734
2027	669,570	706,836	1,376,406	740,548	682,074	1,541,864	2,964,486	1,101,087	2,796,944	3,898,031
2028	658,615	692,719	1,351,334	740,548	682,074	1,541,864	2,964,486	1,052,646	2,668,352	3,720,998
2029	618,103	652,097	1,270,200	740,542	682,069	1,541,852	2,964,463	816,813	2,033,521	2,850,334
2030	495,092	539,473	1,034,565	740,488	682,019	1,541,733	2,964,240	573,410	1,357,957	1,931,367
2031	490,925	534,712	1,025,637	740,282	681,831	1,541,283	2,963,396	568,126	1,341,036	1,909,162
2032	490,502	534,072	1,024,574	739,663	681,264	1,539,935	2,960,862	562,415	1,326,737	1,889,152
2033	490,502	534,072	1,024,574	739,066	680,719	1,538,636	2,958,421	561,585	1,324,655	1,886,240
2034	487,150	529,004	1,016,154	739,048	680,702	1,538,596	2,958,346	561,473	1,324,392	1,885,865
2035	487,150	529,004	1,016,154	739,048	680,702	1,538,596	2,958,346	559,795	1,320,366	1,880,161

a) Unadjusted for prior overpayments or underpayments of charges.

TOTAL WATER CHARGE FOR EACH CONTRACTOR(a

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY AREA									
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency		Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agriculture				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	80,061	0	0	0	0	80,061
1966	0	0	0	0	134,638	0	0	0	0	134,638
1967	0	0	0	0	230,385	0	0	0	0	230,385
1968	82,971	217,192	21,133	10,102	378,842	1,669,638	15,904	17,837	291,540	2,705,159
1969	121,818	207,580	29,622	31,419	487,327	2,845,867	18,784	19,475	512,751	4,274,643
1970	174,039	325,182	48,870	51,334	546,592	4,585,431	28,053	36,200	645,237	6,440,938
1971	181,567	353,294	47,544	46,884	877,548	4,942,928	27,537	38,137	668,930	7,184,369
1972	198,446	384,425	47,143	51,402	914,278	6,424,426	28,599	39,637	703,976	8,792,332
1973	223,542	415,607	47,057	56,124	966,359	7,095,264	29,761	41,915	740,670	9,616,299
1974	241,981	448,812	47,020	62,524	1,180,646	7,469,386	30,012	43,223	802,084	10,325,688
1975	263,178	479,028	46,624	66,897	1,223,115	8,090,725	31,029	44,926	858,206	11,103,728
1976	283,929	515,838	47,007	72,176	1,277,762	8,976,259	31,297	46,456	926,060	12,176,784
1977	305,632	551,197	47,179	77,256	1,331,485	9,877,114	32,559	49,440	992,961	13,264,823
1978	304,797	582,863	46,984	83,443	1,370,055	10,766,475	34,781	51,748	1,051,614	14,292,760
1979	303,852	615,091	46,859	88,090	1,409,852	11,644,021	35,865	53,081	1,111,283	15,307,994
1980	303,476	653,930	47,336	93,660	1,465,273	12,634,943	38,522	56,239	1,182,766	16,476,145
1981	298,780	678,557	46,620	98,831	1,492,565	13,501,403	39,171	56,637	1,228,642	17,441,206
1982	301,211	722,864	47,293	104,982	1,570,531	14,600,563	42,106	60,187	1,307,291	18,757,028
1983	297,005	747,760	46,887	109,029	1,610,443	15,569,072	45,326	60,934	1,359,479	19,845,935
1984	297,530	788,213	47,231	114,624	1,682,162	16,614,220	49,196	64,169	1,431,178	21,088,523
1985	296,046	820,720	47,142	120,929	1,752,746	17,525,485	52,872	65,409	1,491,332	22,172,681
1986	291,134	834,174	45,909	122,825	1,774,488	18,111,108	55,023	65,815	1,518,321	22,818,797
1987	289,159	862,789	45,657	126,936	1,835,308	18,963,990	58,085	66,701	1,571,349	23,819,974
1988	290,202	898,517	45,820	132,087	1,906,054	19,921,876	58,305	69,284	1,637,342	24,959,487
1989	289,899	937,583	46,153	139,314	1,968,775	20,635,909	58,744	72,512	1,709,445	25,858,334
1990	289,855	969,848	46,108	143,959	2,039,543	21,292,270	58,685	73,673	1,838,224	26,752,165
1991	290,112	970,733	46,154	144,091	2,043,118	21,323,206	58,746	73,738	1,839,913	26,789,811
1992	290,102	970,680	46,152	144,084	2,043,061	21,322,524	58,743	73,732	1,839,814	26,788,892
1993	290,081	970,588	46,147	144,070	2,042,870	21,320,861	58,737	73,722	1,839,637	26,786,713
1994	290,064	970,510	46,142	144,059	2,042,710	21,319,474	58,732	73,715	1,839,490	26,784,896
1995	290,057	970,477	46,141	144,054	2,042,641	21,318,872	58,729	73,712	1,839,425	26,784,108
1996	290,049	970,444	46,139	144,048	2,042,572	21,318,270	58,727	73,708	1,839,362	26,783,319
1997	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
1998	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
1999	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2000	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2001	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2002	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2003	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2004	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2005	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2006	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2007	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2008	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2009	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2010	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2011	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2012	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2013	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2014	290,042	970,410	46,137	144,044	2,042,503	21,317,668	58,724	73,706	1,839,298	26,782,532
2015	290,042	970,410	46,137	144,044	1,962,442	21,317,668	58,724	73,706	1,839,298	26,702,471
2016	290,042	970,410	46,137	144,044	1,907,865	21,317,668	58,724	73,706	1,839,298	26,647,894
2017	290,042	970,410	46,137	144,044	1,812,118	21,317,668	58,724	73,706	1,839,298	26,552,147
2018	290,042	970,410	46,137	144,044	1,724,596	21,317,668	50,613	73,706	1,839,298	26,456,514
2019	290,042	970,410	46,137	144,044	1,673,337	21,317,668	50,177	73,706	1,839,298	26,404,819
2020	290,042	970,410	46,137	144,044	1,629,539	21,317,668	49,837	73,706	1,839,298	26,360,681
2021	290,042	970,410	46,137	144,044	1,615,758	21,317,668	49,759	73,706	1,839,298	26,346,822
2022	290,042	970,410	46,137	144,044	1,608,536	21,317,668	49,687	73,706	1,839,298	26,339,528
2023	290,042	970,410	46,137	144,044	1,605,594	21,317,668	49,640	73,706	1,839,298	26,336,539
2024	290,042	970,410	46,137	144,044	1,596,830	21,317,668	49,363	73,706	1,839,298	26,327,498
2025	290,042	970,410	46,137	144,044	1,594,615	21,317,668	49,303	73,706	1,839,298	26,325,223
2026	290,042	970,410	46,137	144,044	1,591,727	21,317,668	49,231	73,706	1,839,298	26,322,263
2027	290,042	970,410	46,137	144,044	1,591,285	21,317,668	49,229	73,706	1,839,298	26,321,819
2028	290,042	970,410	46,137	144,044	1,591,104	21,317,668	49,229	73,706	1,839,298	26,321,638
2029	290,042	970,410	46,137	144,044	1,591,054	21,317,668	49,228	73,706	1,839,298	26,321,587
2030	290,042	970,410	46,137	144,044	1,590,767	21,317,668	49,223	73,706	1,839,298	26,321,295
2031	290,042	970,410	46,137	144,044	1,590,004	21,317,668	49,203	73,706	1,839,298	26,320,512
2032	290,042	970,410	46,137	144,044	1,588,225	21,317,668	49,144	73,706	1,839,298	26,318,674
2033	290,042	970,410	46,137	144,044	1,586,511	21,317,668	49,088	73,706	1,839,298	26,316,904
2034	290,042	970,410	46,137	144,044	1,585,931	21,317,668	49,069	73,706	1,839,298	26,316,305
2035	290,042	970,410	46,137	144,044	1,578,531	21,317,668	48,825	73,706	1,839,298	26,308,661

TOTAL WATER CHARGE FOR EACH CONTRACTOR(a

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA									
	Antelope Valley-East Kern Water Agency	Coachella-Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	30,981	0	0	0	0	0	0	45,799	0	0
1964	68,978	15,644	4,414	38,203	1,315	31,561	9,036	85,949	34,839	19,959
1965	125,230	26,926	7,420	43,912	2,303	54,669	16,193	142,098	37,582	21,974
1966	217,521	45,511	12,420	74,562	3,891	92,622	27,971	234,728	62,417	36,999
1967	396,833	82,627	22,305	135,773	7,026	168,585	51,305	415,349	111,046	66,501
1968	688,007	143,747	38,898	236,574	12,156	292,961	89,353	734,189	196,357	118,404
1969	1,026,366	218,209	59,052	359,375	18,236	444,369	133,622	1,164,144	311,374	187,539
1970	1,438,396	342,112	97,669	563,720	26,215	685,519	190,941	1,887,068	496,682	300,565
1971	1,718,377	451,817	132,219	744,646	32,083	898,839	231,715	2,647,277	683,009	403,175
1972	2,441,077	712,851	183,759	1,158,993	41,515	1,359,817	307,048	4,562,061	1,145,755	506,175
1973	2,602,256	741,845	194,931	1,206,680	45,055	1,446,319	344,449	4,817,374	1,169,224	514,159
1974	2,734,273	758,674	203,792	1,235,127	47,986	1,514,866	378,471	4,548,964	1,184,807	517,073
1975	2,859,639	778,552	213,510	1,268,210	51,049	1,584,927	411,692	4,795,005	1,225,559	520,212
1976	3,175,156	814,196	227,258	1,326,352	55,410	1,694,646	458,517	4,961,771	1,274,973	524,536
1977	3,253,900	822,598	230,604	1,331,419	56,549	1,727,766	479,249	4,933,751	1,271,783	524,697
1978	3,437,273	842,006	237,245	1,354,085	60,861	1,783,218	502,856	4,934,345	1,277,475	525,044
1979	3,581,037	864,056	245,720	1,380,820	63,450	1,847,927	521,914	5,039,340	1,310,525	525,044
1980	3,953,891	885,063	253,230	1,433,323	66,374	1,906,865	546,708	5,043,959	1,311,733	710,502
1981	4,158,285	910,738	257,667	1,475,951	68,642	1,953,516	553,289	5,139,994	1,339,566	729,368
1982	4,290,277	938,692	264,181	1,522,049	70,948	2,003,892	565,315	5,216,182	1,359,928	752,875
1983	4,457,657	974,726	273,494	1,580,861	74,060	2,076,253	582,362	5,334,091	1,391,382	783,507
1984	4,536,287	989,663	278,699	1,606,205	75,447	2,099,711	586,848	5,375,874	1,399,732	803,380
1985	4,641,101	1,016,698	284,835	1,650,752	77,485	2,148,755	595,028	5,455,541	1,424,700	825,565
1986	4,765,687	1,042,062	290,255	1,692,551	79,643	2,197,013	606,559	5,421,469	1,425,328	848,142
1987	4,884,372	1,064,646	294,273	1,742,043	81,943	2,236,795	617,470	5,469,174	1,444,633	866,435
1988	5,109,545	1,110,468	305,356	1,829,413	85,826	2,328,524	642,463	5,626,178	1,494,211	904,813
1989	5,200,284	1,132,163	311,698	1,877,230	87,638	2,371,486	649,567	5,703,426	1,521,799	929,638
1990	5,330,225	1,155,789	316,972	1,905,730	89,870	2,413,614	662,178	5,785,808	1,547,781	951,213
1991	5,494,073	1,166,720	319,163	1,923,756	90,272	2,437,627	665,203	5,820,615	1,551,065	957,753
1992	5,494,941	1,165,826	318,966	1,922,282	90,286	2,435,666	665,309	5,825,397	1,552,404	957,165
1993	5,494,719	1,165,789	318,957	1,922,221	90,282	2,435,584	665,282	5,825,232	1,552,357	957,137
1994	5,494,533	1,165,758	318,949	1,922,170	90,279	2,435,516	665,259	5,825,095	1,552,318	957,114
1995	5,494,452	1,165,744	318,946	1,922,148	90,278	2,435,486	665,248	5,825,034	1,552,302	957,104
1996	5,494,372	1,165,731	318,942	1,922,126	90,276	2,435,457	665,239	5,824,975	1,552,286	957,093
1997	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
1998	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
1999	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2000	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2001	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2002	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2003	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2004	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2005	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2006	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2007	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2008	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2009	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2010	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2011	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2012	5,494,292	1,165,717	318,939	1,922,104	90,275	2,435,427	665,229	5,824,916	1,552,268	957,084
2013	5,463,311	1,165,717	318,939	1,909,705	90,275	2,435,427	665,229	5,779,117	1,540,412	950,419
2014	5,425,314	1,150,073	314,525	1,896,799	88,960	2,403,866	656,193	5,738,968	1,529,762	944,057
2015	5,369,062	1,138,791	311,519	1,878,192	87,972	2,380,758	649,037	5,682,819	1,514,686	935,109
2016	5,276,771	1,120,206	306,519	1,847,542	86,384	2,342,805	637,259	5,590,189	1,489,851	920,085
2017	5,097,459	1,083,091	296,634	1,786,331	83,249	2,266,842	613,924	5,409,567	1,441,222	890,583
2018	4,871,610	1,033,712	283,011	1,704,896	79,211	2,166,941	584,082	5,143,241	1,370,368	847,536
2019	4,594,567	970,277	265,645	1,600,279	74,157	2,038,503	547,514	4,762,595	1,268,919	786,714
2020	4,203,670	850,183	227,995	1,402,218	66,533	1,805,273	492,849	4,056,724	1,088,297	676,560
2021	4,008,333	755,793	197,312	1,246,548	62,077	1,623,670	462,706	3,364,994	920,776	585,498
2022	3,929,719	724,255	184,982	1,194,534	60,575	1,567,533	451,825	3,081,848	852,653	550,694
2023	3,906,981	716,552	182,389	1,181,828	60,163	1,552,970	448,792	3,034,020	840,697	543,510
2024	3,891,184	711,398	181,007	1,173,328	59,853	1,542,438	446,591	3,005,589	833,063	539,427
2025	3,883,098	708,694	180,287	1,168,868	59,712	1,536,920	445,545	2,964,721	822,105	537,311
2026	3,868,072	703,548	178,986	1,160,382	59,460	1,526,282	443,658	2,903,318	805,523	533,430
2027	3,854,089	701,292	178,416	1,156,660	59,300	1,521,622	442,454	2,892,963	802,684	531,728
2028	3,815,441	700,465	178,207	1,155,296	59,223	1,519,915	441,882	2,889,266	801,670	531,105
2029	3,796,792	700,313	178,169	1,155,045	59,210	1,519,600	441,776	2,888,585	801,483	530,990
2030	3,585,752	699,347	177,883	1,153,452	59,141	1,517,689	441,275	2,883,533	800,165	530,173
2031	3,478,772	698,009	177,491	1,151,246	59,044	1,515,033	440,565	2,876,597	798,350	529,049
2032	3,476,866	697,667	177,404	1,150,680	59,012	1,514,320	440,325	2,874,385	797,769	528,745
2033	3,475,030	697,337	177,321	1,150,136	58,982	1,513,631	440,094	2,872,229	797,204	528,451
2034	3,474,408	697,225	177,293	1,149,952	58,971	1,513,399	440,016	2,871,729	797,066	528,367
2035	3,466,477	695,799	176,933	1,147,600	58,838	1,510,427	439,020	2,865,353	795,311	527,292

TOTAL WATER CHARGE FOR EACH CONTRACTOR(a

(in dollars)

Sheet 4 of 4

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR, South Bay	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	County of Butte	Plumas County FC & WCD	Total		
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	72,287
1963	681,454	0	0	758,234	0	0	0	0	52,628	1,518,756
1964	1,399,565	22,656	10,719	1,742,838	0	0	0	0	83,564	2,806,061
1965	2,363,365	41,256	19,432	2,902,360	0	0	361	361	143,606	4,799,404
1966	4,027,902	74,229	34,660	4,945,433	0	0	508	508	164,929	7,233,976
1967	7,428,865	142,595	65,939	9,094,749	0	0	509	509	218,102	12,220,096
1968	14,459,766	293,307	134,929	17,438,648	0	1,059	1,402	2,461	284,816	23,649,678
1969	22,362,181	452,905	208,397	26,945,769	0	1,225	3,859	5,084	349,182	35,448,499
1970	32,532,521	632,283	287,795	39,481,486	0	3,848	15,621	19,469	421,929	51,317,061
1971	44,383,091	811,545	348,890	53,486,683	0	4,329	17,661	21,990	423,766	66,055,070
1972	56,303,232	925,522	380,514	70,028,319	0	4,810	17,950	22,760	423,261	84,211,026
1973	59,372,446	961,867	381,940	73,598,545	0	5,771	18,239	24,010	423,373	88,687,045
1974	61,841,505	1,014,123	385,671	76,465,332	0	6,733	18,527	25,260	425,177	92,324,335
1975	65,113,528	1,060,763	387,013	80,269,659	0	10,100	18,816	28,916	422,269	96,946,190
1976	66,135,440	1,081,301	388,924	82,118,480	0	13,467	19,104	32,571	426,270	100,244,111
1977	68,708,253	1,132,115	390,052	84,862,736	0	17,314	19,393	36,707	426,801	104,212,325
1978	71,071,981	1,181,242	391,012	87,598,643	0	21,162	19,681	40,843	427,211	108,207,428
1979	73,256,131	1,226,698	391,572	90,254,234	0	25,010	19,970	44,980	427,061	112,827,956
1980	75,117,723	1,275,082	411,731	92,916,184	0	38,476	20,259	58,735	427,704	118,588,376
1981	77,542,761	1,322,581	432,987	95,885,345	40,400	52,424	20,547	113,371	427,778	122,639,008
1982	79,450,547	1,366,020	452,605	98,253,511	44,248	66,372	20,836	131,456	428,001	126,497,144
1983	82,770,634	1,429,871	475,437	102,204,335	48,577	80,320	21,124	150,021	428,216	131,628,727
1984	82,748,097	1,438,682	489,714	102,428,339	52,905	94,267	21,413	168,585	428,223	133,285,657
1985	86,194,616	1,498,133	514,458	106,327,647	57,234	117,834	21,701	196,769	428,223	138,527,752
1986	86,293,550	1,506,171	547,045	106,715,475	63,486	141,401	21,990	226,877	427,813	139,746,666
1987	89,015,290	1,576,297	592,073	109,885,444	70,220	164,968	22,279	257,467	427,733	144,152,678
1988	91,643,620	1,627,024	654,602	113,362,043	76,953	198,154	22,663	297,770	427,733	149,084,483
1989	93,662,263	1,668,756	716,119	115,832,067	84,648	231,340	23,048	339,036	427,733	152,906,524
1990	94,967,051	1,712,026	796,054	117,634,311	92,344	264,526	23,433	380,303	427,733	155,998,938
1991	95,239,447	1,723,374	801,514	118,190,582	92,344	264,526	23,818	380,688	427,733	156,644,749
1992	95,300,111	1,719,440	799,616	118,247,409	92,344	264,526	24,202	381,072	427,733	156,744,938
1993	95,296,879	1,719,372	799,584	118,243,395	92,344	264,526	24,587	381,457	427,733	156,776,846
1994	95,294,181	1,719,317	799,557	118,240,046	92,344	264,526	24,972	381,842	427,733	156,802,935
1995	95,293,010	1,719,293	799,546	118,238,591	92,344	264,526	25,653	382,323	427,733	156,822,950
1996	95,291,839	1,719,269	799,533	118,237,138	92,344	264,526	25,934	382,804	427,733	156,842,962
1997	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	26,415	383,285	427,733	156,902,494
1998	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	26,896	383,766	427,733	156,902,975
1999	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	27,377	384,247	427,733	156,903,456
2000	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	27,954	384,824	427,733	156,904,033
2001	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	28,531	385,401	427,733	156,904,610
2002	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	29,108	385,978	427,733	156,905,187
2003	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	29,685	386,555	427,733	156,905,764
2004	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	30,262	387,132	427,733	156,906,341
2005	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	30,840	387,710	427,733	156,906,919
2006	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	31,513	388,383	427,733	156,907,592
2007	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	32,186	389,056	427,733	156,908,265
2008	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	32,860	389,730	427,733	156,908,939
2009	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	33,533	390,403	427,733	156,909,612
2010	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	34,206	391,076	427,733	156,910,285
2011	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	34,976	391,846	427,733	156,911,055
2012	95,328,587	1,720,326	800,043	118,275,207	92,344	264,526	35,745	392,615	427,733	156,911,824
2013	94,647,132	1,720,326	800,043	117,486,052	92,344	264,526	36,611	393,481	386,085	155,561,666
2014	93,929,022	1,697,671	789,324	116,564,534	92,344	264,526	37,477	394,347	356,047	154,344,843
2015	92,965,221	1,679,070	780,612	115,372,848	92,344	264,526	38,078	394,948	311,254	152,581,164
2016	91,300,685	1,646,097	765,383	113,329,776	92,344	264,526	38,893	395,763	291,979	150,228,730
2017	87,899,721	1,577,731	734,104	109,180,458	92,344	264,526	38,892	395,762	253,807	145,727,220
2018	81,845,324	1,446,817	674,656	102,051,403	92,344	264,526	38,881	395,751	179,566	138,149,522
2019	74,868,086	1,305,800	610,144	93,693,200	92,344	264,526	36,487	393,357	118,794	129,480,397
2020	65,022,201	1,132,828	533,830	81,559,161	92,344	264,526	26,866	383,736	107,499	117,216,196
2021	56,403,030	1,023,301	485,099	71,139,137	92,344	264,526	26,172	383,042	104,841	106,730,800
2022	53,211,182	1,005,419	477,488	67,292,707	92,344	264,526	26,172	383,042	104,301	102,863,157
2023	51,908,750	1,000,262	476,630	65,853,544	92,344	264,526	26,172	383,042	104,290	101,411,644
2024	51,262,999	988,541	473,587	65,109,005	92,344	264,526	26,172	383,042	101,819	100,626,629
2025	50,860,949	983,530	471,567	64,623,307	92,344	264,526	26,172	383,042	100,735	100,117,902
2026	50,368,116	978,749	469,294	63,998,818	92,344	264,526	26,172	383,042	96,667	99,143,090
2027	50,182,203	975,342	467,728	63,766,481	92,344	264,526	26,172	383,042	95,428	98,805,693
2028	50,077,977	972,970	466,711	63,610,128	92,344	264,526	26,172	383,042	95,428	98,447,054
2029	50,025,798	971,625	466,205	63,535,591	92,344	264,526	26,172	383,042	95,426	97,420,643
2030	49,963,748	970,570	465,697	63,248,425	92,344	264,526	26,172	383,042	95,406	95,978,340
2031	49,876,802	969,075	464,976	63,035,009	92,344	264,526	26,172	383,042	95,332	95,732,090
2032	49,838,180	968,496	464,698	62,988,547	92,344	264,526	26,172	383,042	95,109	95,659,960
2033	49,800,596	967,940	464,430	62,943,381	92,344	264,526	26,172	383,042	94,894	95,607,456
2034	49,791,302	967,752	464,339	62,931,819	92,344	264,526	26,172	383,042	94,887	95,586,418
2035	49,672,751	965,349	463,180	62,784,330	92,344	264,526	26,172	383,042	94,887	95,425,581

TABLE B-23

EQUIVALENT UNIT CHARGES FOR WATER SUPPLY FOR EACH CONTRACTOR[a]

(in dollars per acre-foot of entitlement)

Project Service Area and Water Supply Contractor	Transportation Charge			Total	Delta Water Charge	Total Equivalent Unit Charge
	Capital Cost Component	Minimum OMP&R Component	Variable OMP&R Component			
	(1)	(2)	(3)	(4)	(5)	(6)
FEATHER RIVER AREA						
City of Yuba City	0.00	0.00	0.00	0.00	9.62	9.62
County of Butte	0.00	0.00	0.00	0.00	9.61	9.61
Plumas County Flood Control and Water Conservation District	10.73	0.17	0.00	10.90	9.50	20.40
Total, Upper Feather Area	0.59	0.01	0.00	0.60	9.57	10.17
NORTH BAY AREA						
Napa County Flood Control and Water Conservation District	17.80	8.57	3.44	29.81	8.12	37.93
Solano County Flood Control and Water Conservation District	7.96	3.62	0.23	11.81	9.62	21.43
Total, North Bay Area	12.41	5.86	1.68	19.95	8.95	28.90
SOUTH BAY AREA						
Alameda County Flood Control and Water Conservation District, Zone 7	9.85	4.71	4.45	19.01	9.24	28.25
Alameda County Water District	9.61	3.83	4.60	18.04	8.31	26.35
Santa Clara County Flood Control and Water District	14.53	3.79	4.98	23.30	8.81	32.11
Total, South Bay Area	12.58	3.97	4.80	21.35	8.78	30.13
SAN JOAQUIN VALLEY AREA						
Devil's Den Water District	7.43	3.21	3.59	14.23	9.42	23.65
Dudley Ridge Water District	4.36	1.48	1.95	7.79	9.43	17.22
Empire West Side Irrigation District	2.98	1.02	2.02	6.02	9.38	15.40
Hacienda Water District	4.49	1.52	1.90	7.91	9.53	17.44
Kern County Water Agency	6.96	2.33	2.43	11.72	9.57	21.29
Kings County	3.20	1.09	1.91	6.20	9.43	15.63
Oak Flat Water District	1.48	0.72	1.33	3.53	9.35	12.88
Tulare Lake Basin Water Storage District	4.30	1.46	1.93	7.69	9.44	17.13
Total, San Joaquin Valley Area	6.55	2.20	2.37	11.12	9.55	20.67
CENTRAL COASTAL AREA						
San Luis Obispo County Flood Control and Water Conservation District	42.30	7.86	8.69	58.85	9.62	68.47
Santa Barbara County Flood Control and Water Conservation District	48.38	8.59	8.67	65.64	9.62	75.26
Total, Central Coastal Area	46.55	8.37	8.68	63.60	9.62	73.22
SOUTHERN CALIFORNIA AREA						
Antelope Valley-East Kern Water Agency	20.44	4.04	13.17	37.65	9.62	47.27
Coachella Valley County Water District	29.22	7.63	15.80	52.65	9.62	62.27
Crestline-Lake Arrowhead Water Agency	35.52	8.31	15.74	59.57	9.62	69.19
Desert Water Agency	29.68	7.75	15.78	53.21	9.62	62.83
Littlerock Creek Irrigation District	20.40	4.84	13.13	38.37	9.62	47.99
Mojave Water Agency	25.84	6.98	15.81	48.63	9.62	58.25
Palmdale Irrigation District	18.26	4.25	13.23	35.74	9.62	45.36
San Bernardino Valley Municipal Water District	36.82	8.76	11.96	57.54	9.62	67.16
San Gabriel Valley Municipal Water District	34.60	8.61	11.92	55.13	9.62	64.75
San Gorgonio Pass Water Agency	41.78	9.56	15.37	66.71	9.62	76.33
The Metropolitan Water District of Southern California	32.39	6.03	10.82	49.24	9.62	58.86
Upper Santa Clara Valley Water Agency	27.17	4.51	10.56	42.24	9.62	51.86
Ventura County Flood Control District	33.52	5.79	10.58	49.89	9.62	59.51
Total, Southern California Area	31.63	6.13	11.29	49.05	9.62	58.67
TOTAL, ALL AREAS	21.54	4.60	7.57	33.71	9.39	43.10

a) Hypothetical charges which, if received for each acre-foot of contractor entitlement during the project repayment period, would produce a sum at the end of the period equivalent to those total charges required under a water supply contract, with interest accounted for at the project interest rate.

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