

STATE OF CALIFORNIA

The Resources Agency

Department of Water Resources

BULLETIN No. 132-75

THE
CALIFORNIA
STATE WATER PROJECT
IN 1975

**save
water**

JUNE 1975

CLAIRE T. DEDRICK
Secretary for Resources
The Resources Agency

EDMUND G. BROWN JR.
Governor
State of California

RONALD B. ROBIE
Director
Department of Water Resources

CONVERSION FACTORS

English to Metric System of Measurement

Quantity	English unit	Multiply by	To get metric equivalent
Length	inches	2.54	centimeters
	feet	30.48	centimeters
		0.3048	meters
	yards	0.0003048	kilometers
		0.9144	meters
		1,609.3	meters
miles	1.6093	kilometers	
Area	square inches	6.4516	square centimeters
	square feet	929.03	square centimeters
	square yards	0.83613	square meters
	acres	0.40469	hectares
		4,046.9	square meters
	square miles	0.0040469	square kilometers
Volume	gallons	3,785.4	cubic centimeters
		0.0037854	cubic meters
		3.7854	liters
	acre-feet	1,233.5	cubic meters
		1,233,500.0	liters
	cubic inches	16.387	cubic centimeters
	cubic feet	0.028317	cubic meters
	cubic yards	0.76455	cubic meters
		764.55	liters
Velocity	feet per second	0.3048	meters per second
	miles per hour	1.6093	kilometers per hour
Discharge	cubic feet per second	0.028317	cubic meters per second
	or second-feet		
Weight	pounds	0.45359	kilograms
	tons (2,000 pounds)	0.90718	tons (metric)
Power	horsepower	0.7460	kilowatts

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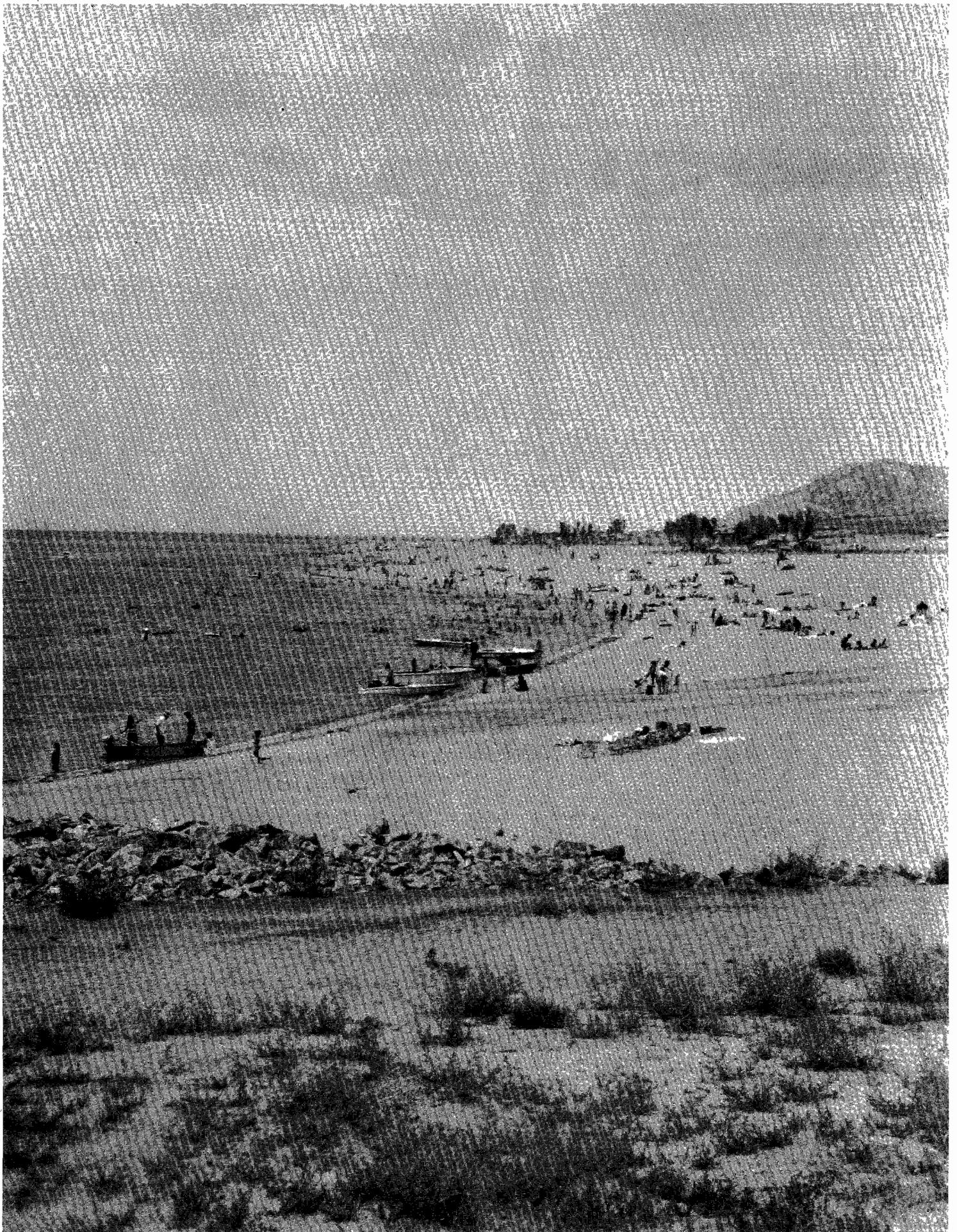


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Recreation at Lake Perris

FOREWORD

1974 was the first full year of operation along the entire 444-mile California Aqueduct. Throughout the year the Project achieved its objectives of delivering water needed for agriculture, municipalities, and industry, as well as providing recreation and flood control benefits for the people of California. Two major steps were taken in 1974 which will affect completion of the Project to its full potential and assure that all of California's existing water developments will be used to the maximum extent practicable. These were the issuance of the Draft Environmental Impact Report (EIR) for the Peripheral Canal and Bulletin No. 160-74, "The California Water Plan—Outlook in 1974". These documents are key building blocks in the continuing studies to assure that future water management decisions will meet the needs of the people.

The next building block to be shaped by the Department will be a revision of the water management element of the California Water Plan which will result in a report entitled "The California Water Plan 2000—Design for the Future". This document will be an action water plan for the next 25 years. The new planning program will incorporate the basic data developed for Bulletin No. 160-74 and other publications into a specific "road map" for the future.

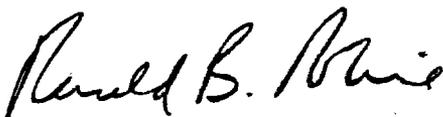
The new planning process will explore new directions and challenge old assumptions, including previous estimates of water demands and allocations of water supplies. It will reexamine the need for specific projects and place those necessary in a time frame consistent with California's needs. The planning process will be an open one, involving government agencies, water supply agencies, environmentalists, and anyone concerned, so that a broad spectrum of interests can be considered. The water management policy for the Department will be incorporated into both the planning program and management activities for the Project. The major points of the policy are:

1. Water resources already developed shall be used to the maximum extent before new sources are developed.
2. All alternative sources of supply, including water exchanges, shall be considered. Conjunctive use of surface and ground water supplies and storage capacity, including planned temporary overdrafting of ground water, shall be utilized to maximize yield and improve water quality.
3. To maximize beneficial use, optimum application techniques and processes for water conservation shall be implemented and waste shall be avoided.
4. Water shall be reused to the maximum extent feasible.
5. Instream uses for recreation, fish and wildlife, and related purposes shall be balanced with other uses.

Concurrent with the planning program, the Department will be actively pursuing solutions to two major concerns directly affecting the State Water Project.

The most serious is our need for power. A program has been initiated to take a creative approach in considering all possible alternative sources of power for the Project. The program will range from jointly participating in thermal plants to state development of geothermal resources. Consideration will also be given to solar and wind energy sources.

Also of great importance is the need to transport conserved water across the Delta in a manner which will enable the full protection of the Delta environment as required by California Law and Water Rights Decision 1379 of the State Water Resources Control Board. A detailed review of alternatives to Delta facilities is being made. Establishment of revised dry year operating criteria and development of a conjunctive use ground water storage program for state water project supplies are part of this comprehensive review.



Ronald B. Robie, Director
Department of Water Resources
The Resources Agency
State of California

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The Resources Agency
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CHAPTER I. CONTINUING HISTORY OF THE PROJECT

The year 1974 marked another year of national concern about our natural resources, primarily those pertaining to the production of energy. The development of realistic solutions to the "energy crunch" is still being hampered by unresolved problems involved with the safety and siting of nuclear power plants, federal vs. state water rights, adequate water supply for thermal power plants, development of alternative sources of energy, protection of the environment, reuse and disposal of waste water, etc. Further complicating the solutions to these problems is the unique economic situation in the Nation, where inflation continues to spiral upwards in a period of recession.

Although all the initial facilities of the State Water Project are completed (see Bulletin 132-74), the interrelationships of future water supply and power costs will have a significant effect on completion of the Project to its full capacity and on its operation. With this in mind, the Department is continuing its efforts to efficiently manage the Project with the present resources available and to participate in discussions with local, state, and federal, as well as pri-

vate agencies, concerning the development and conservation of sources of water and power. Significant actions taken by the Department in 1974 are highlighted in this chapter along with a status of litigation involving the Project.

The status of construction activities is presented in Chapter II, and the Department's management of the Project's water and power utility is described in Chapter III.

Water deliveries and production of power, as well as recreation use, all increased in 1974. Details of these activities are described in Chapter IV.

As expected, the national economic situation and the energy problems are affecting the financial aspects of the Project. These financial considerations are discussed in Chapter V, together with an updated assessment of future construction costs.

A noteworthy item pertaining to the history of the Project is the Department's release of Volume I of Bulletin 200, "California State Water Project". This bulletin will consist of six volumes when completed and will provide a technical record of the Project. Completion of the bulletin is expected in 1975.

Actions Concerning Project Power

In 1974, the Project consumed nearly 3.0 billion kilowatthours of energy for pumping and produced 4.7 billion kilowatthours of energy from project power plants (see Table 6 in Chapter IV for details). The energy required for pumping will continue to increase as entitlement water deliveries increase. Delivery of maximum entitlements will require ap-

proximately 13 billion kilowatthours of energy annually. Presently constructed project power plants are expected to produce 5.6 billion kilowatthours of energy annually.

The following paragraphs highlight some of the activities performed by the Department in 1974 concerning the energy needs of the Project.

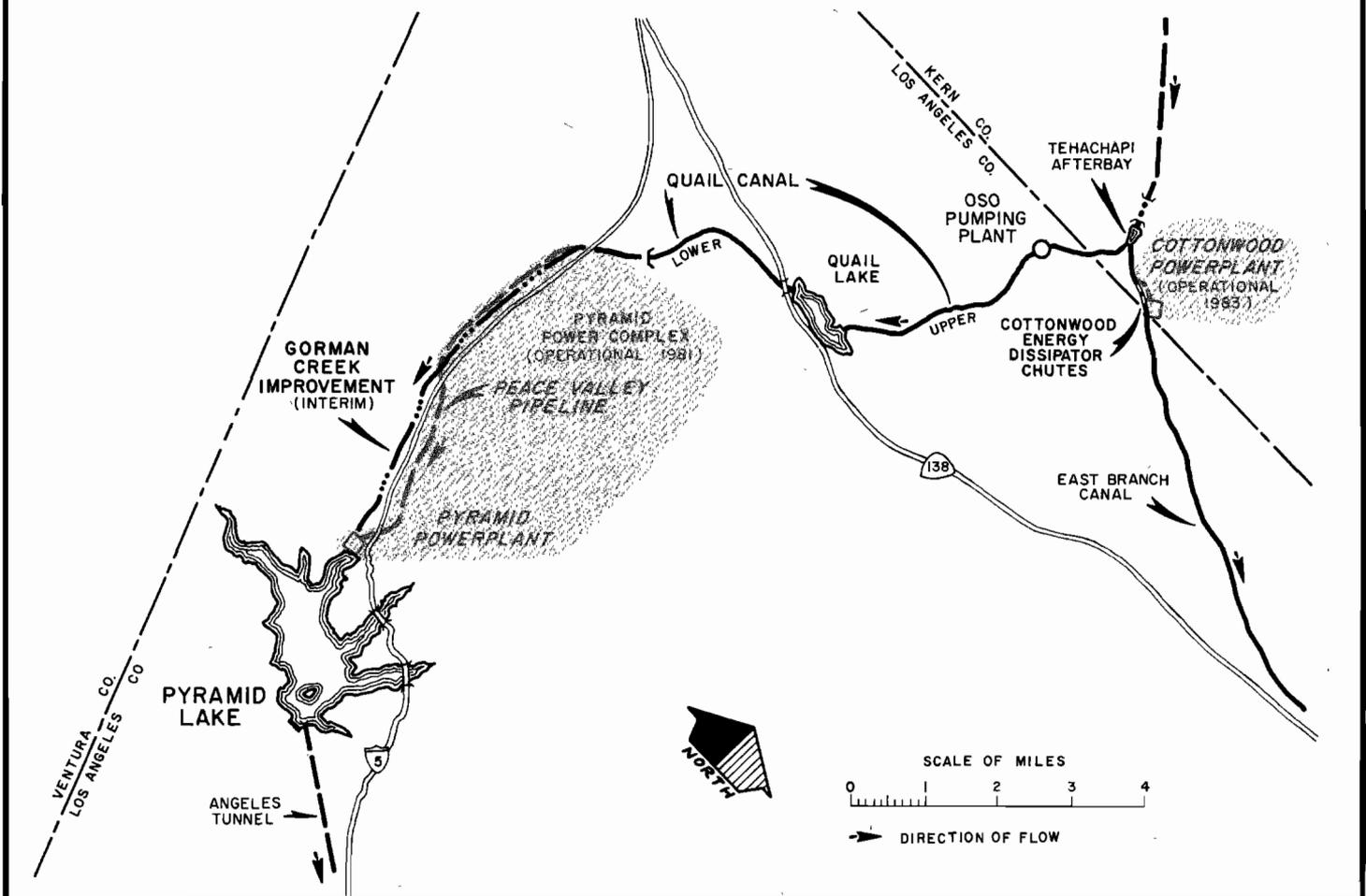
Future Southern California Recovery Plants

The location of the proposed power plants, which have the potential to generate 1.1 billion kilowatt-hours of energy, are shown in Figure 1. Design activities for the Pyramid Power Complex (see page 2 of Bulletin 132-74) resumed in 1974 with the initial oper-

ation of Pyramid Powerplant now scheduled for 1981, a year sooner than was reported in last year's bulletin.

The schedule for initial operation of the Cottonwood Powerplant remains as 1983.

Figure 1: FUTURE SOUTHERN CALIFORNIA RECOVERY PLANTS



Long-Range Power Program

The Department is vigorously pursuing a program to develop all possible alternative energy sources for the operation of the Project. Studies of participation in proposed nuclear power plants and of all possible resources in the Pacific Northwest and California continued throughout 1974.

San Joaquin Nuclear Project (Wasco). The feasibility study for the San Joaquin Nuclear Project (see page 4 of Bulletin 132-74) was completed by the City of Los Angeles Department of Water and Power (LADWP).

On May 31, 1974, LADWP entered into a contract with the Atomic Energy Commission (AEC) for uranium enrichment services for the first unit of the

project. This contract is necessary to establish a priority to receive enrichment services since our country's enrichment capabilities are now fully subscribed to enrich fuel for generating units to be in operation by 1982. The contract does not provide for the fuel or fabrication of the fuel; both of these items will be covered in separate contracts.

The AEC's Advisory Committee on Reactor Safeguards, which was established for the San Joaquin Nuclear Project, is still considering the suitability of the proposed site and establishing for the AEC the seismic design criteria. The recommendations of this advisory committee are very important in determin-

ing both the estimated cost of building on the site and whether the project can be licensed.

The Participation Agreement between all the parties who will share in the project is in substantially final form and will be receiving management review by all of the participating agencies. In accordance with the California Environmental Quality Act of 1970, no agreement can be signed until the environmental impact report (EIR) is approved.

Preparation of the EIR began in 1974 by LADWP and a final draft is expected to be completed by mid-1975. The review process will then take several months.

Desert Plants (Southern California). As reported in last year's bulletin, The Metropolitan Water District of Southern California (MWD) approved in principle the allocation of 100,000 acre-feet per year of Colorado River water for power plant cooling and related purposes in the eastern Mojave Desert area. Forty thousand acre-feet per year of this water was allocated in 1973 to Southern California Edison Company for its proposed high desert nuclear plant. In 1974, draft Letters of Intent were approved in principle for the allocation of the remaining annual quantity of 60,000 acre-feet as follows: an additional 10,000 acre-feet each year to Edison; 33,000 acre-feet per year to LADWP; and 17,000 acre-feet per year to San Diego Gas and Electric Company. Each of the draft Letters of Intent essentially provides the Department an option to participate as a tenant-in-common owner of up to 10 percent of the capacity of each nuclear plant that will use MWD water for cooling purposes.

MWD also approved in principle an allocation of 60,000 acre-feet per year of California Aqueduct water for cooling purposes at the San Joaquin Nuclear Project. The proposed Letter of Intent is between MWD and LADWP and recognizes that agricultural waste water should be used for power plant cooling to the extent practicable.

Hydroelectric Power. In another power-related matter in 1974, the Department issued Bulletin 194, "Hydroelectric Energy Potential in California". This bulletin contains a statewide inventory of potential hydroelectric projects which have been studied in the past by governmental agencies and utilities, but which were not built for economic or other reasons. Those projects which seem to warrant reevaluation and which have near-term potential have been identified.

As a follow-up to this investigation, the Department initiated a further study over the next year and a half to evaluate the economic, financial, environmental, and other aspects of the most promising of these projects, and to determine their capability for meeting a part of both the energy needs of the State Water Project and the general energy requirements of the State. These studies will be limited to those projects which are not being actively considered by federal or local agencies or utility districts as part of their own near-future system development. Emphasis will be placed on the possible installation of power plants at existing dams. In addition to the projects considered in Bulletin 194, potential pumped storage systems will also be considered.

Actions Concerning Project Water Supply

Several significant actions concerning the Project's water supply occurred in 1974. One was the issuance of the Draft Environmental Impact Report (EIR) for the Peripheral Canal; another the issuance of Bulletin 160-74, "The California Water Plan—Outlook in 1974"; and finally, a breakthrough in the research program at Firebaugh in the treatment of agriculture waste water.

Peripheral Canal. The Department issued the draft EIR for the proposed Peripheral Canal in September. Public hearings were held in Oakland, Los Angeles, Stockton, Bakersfield, Sacramento, and Brentwood in Contra Costa County. An indication of the interest in this project is that the volume of written comments on the project exceeded the volume of the Draft EIR.

The California Legislature also expressed an interest in the project. The Senate Committee on Natural Resources and Wildlife, chaired by Senator John Nejedly, held a public hearing in December to receive testimony on the Draft EIR. One of the major items discussed at the hearing was the question of federal participation in the project.

No decision on specific Delta Facilities can be made until the environmental impact process and a review process initiated by the Department in 1975 are completed. For planning purposes, the Department has assumed that initial operation of the Delta Facilities will begin in 1982.

Bulletin 160-74, The California Water Plan—Outlook in 1974. This publication is the third update since the California Water Plan was originally issued in 1957.

The Bulletin reassesses the California water outlook based on the events and trends that have occurred during the past four years. Some of these events and trends have already affected the water picture in definable ways, while the effect of others are yet to mature. Some major examples are the establishment of stringent goals for water quality improvement and waste management, the possible new demands for cooling water for thermal power plants, the reservation of the major North Coast rivers in a State Wild and Scenic River System, the increasing demand for agricultural products, reevaluation of traditional water development programs, and the escalating costs of energy.

The 1974 edition of the Bulletin 160 series differs from earlier editions in that a discussion of key water policy issues is included, along with a range of predictions for the State, depicting four future scenarios for California in 1990 and 2020, rather than describing one set of circumstances as in the past. This Bulletin will provide the basic data for a more specific revision of the water management element of the California Water Plan, to be released in 1977 in a report entitled "The California Water Plan 2000—Design for the Future".

Breakthrough at Firebaugh. The Department, in conjunction with the University of California, has supported a program of applied research using reverse osmosis to desalt brackish agricultural waste water. These studies, which began in 1971, were directed primarily to solving the problem of the disposal of increasing amounts of brackish water accumulating in the San Joaquin Valley.

The Department's goal to increase the product water recovery by attaining an efficiency of 90 percent recovery was achieved in 1974. This compares to past efforts of about 70 percent. The increased efficiency was accomplished by adding an ion exchange water softening unit in series with the reverse osmosis desalters. Using this combination, with a feed containing about 5,900 total dissolved solids (TDS), a 90 percent recovery has been consistently achieved since May 28, 1974. To the Department's knowledge, it is the first time that a pilot plant has been operated with an ion exchange pretreatment for feed to a reverse osmosis desalter and the first time that a recovery rate as high as 90 percent has been consistently achieved with feed TDS approaching the 6,000 range. This achievement, which is important in itself for its technological ramifications, enhances the prospect of alleviating agricultural disposal problems.

As a result of the success of these processes, the Department began the second phase of the program, which will provide data to establish design criteria and cost estimates for a full-size plant. Information obtained from the first phase of the study programs will also be useful in new studies of the use of agriculture waste water for power plant cooling, which are being studied by the Department and other agencies.

Another action by the Department related to agricultural waste waters was the reactivation of studies of the San Joaquin Valley Drainage and salt management problems. Bulletin 127-74, "Status of San Joaquin Valley Drainage Problems", was issued to provide a base for these studies.

Distribution Works

Project facilities have been completed as originally contemplated in order to make all contractual deliveries. Distribution works necessary to take delivery of project water from project facilities and deliver it to the user are the responsibility of the water contractors. Contractors' investments in distribution works have been and will be considerable. Current estimates are that long-term contractor expenditures will ultimately total \$3.9 billion, with \$2.2 billion of that amount having been expended as of the end of 1974.

In order to reduce or delay expenditures, some contractors have developed water exchanges (see page 4, Bulletin 132-74). Also, several contractors have jointly constructed portions of their local conveyance facilities with the capability of handling their combined project water, resulting in mutual savings.

In December 1974, San Gabriel Valley Municipal Water District essentially completed a distribution system to convey project water from the Devil Canyon Powerplant to the San Gabriel spreading grounds, which enabled the District to take initial delivery of project water.

Financing of Distribution Works

Project water contracts require each agency to pay all of the charges except the variable OMP&R component of the Transportation Charge whether or not the Table A amounts are utilized. If the water is needed but cannot be utilized because necessary distribution systems are not available, a financial hardship can result.

Local Bond Issue. As a result of Senate Bill 1002 (see page 4, Bulletin 132-74), Antelope Valley-East Kern Water Agency obtained authorization in the June 1974 primary election for the sale of a \$71-million general obligation bond issue to fund the construction of distribution facilities needed to utilize the project water it has contracted for. To date, the Agency has been able to utilize only a fraction of its annual entitlement.

Loan Commitment and Construction Loan Program. The Legislature made \$8 million available to assist specified agencies in financing works needed to distribute project water (see Bulletin 132-74, page 5). Two forms of assistance were made available:

1. Loan commitments to help guarantee payment of service on general obligation bonds sold by the agency to provide funds for the construction of works needed to distribute project water.
2. Construction loans to supplement funds needed for the construction of works needed to distribute project water.

As of December 31, 1974, construction loans totaling \$5,568,000 had been made to four agencies; one construction loan application for \$1,500,000 had received Department approval, with disbursement

awaiting completion of other processing; and three construction loan applications were being processed by the Department as shown below:

Applicants (All Member Units of Kern County Water Agency)	Construction Loan Disbursements	Construction Loans Approved by Department -- Disbursement Pending	Construction Loan Applications Being Processed by the Department
Berrenda Mesa Water District		\$1,500,000	\$ 350,000
Cawelo Water District	\$1,800,000		
Lost Hills Water District			500,000
Rosedale-Rio Bravo Water Storage District	550,000		
Semitropic Water Storage District:			
Buttonwillow Improvement District	2,450,000		
Pond Poso Improvement District	768,000		432,000
TOTAL	\$5,568,000	\$1,500,000	\$1,282,000

Studies to Expand Project Benefits

Mid-Valley Canal. The Department continued its participation during 1974 in a joint study with the Bureau of Reclamation to evaluate alternative canal alignments for delivering water from the California Aqueduct to the eastside of the San Joaquin Valley (see Cross Valley Canal, page 6, Bulletin 132-74). The Department's role in the project, beyond the planning stage, appears to be limited to determining the feasibility of utilizing the California Aqueduct to wheel federal water between Clifton Court Forebay and O'Neill Forebay. The Mid-Valley Canal should not be confused with Kern County Water Agency's Cross Valley Canal, which begins on the California Aqueduct in the vicinity of Tupman and provides a distribution facility to the vicinity of Bakersfield.

The status of the study in 1974, indicated that a feasibility report and a draft Environmental Impact Report would be completed by the U. S. Bureau of Reclamation and be available for review late in 1975. Based on information developed for the study it appears that the least costly method of obtaining additional state capacity in the San Luis Division would be to raise the lining in that reach of the California

Aqueduct, rather than use the Mid-Valley Canal with exchanges or construction of additional facilities.

Ground Water Storage of Project Water

The Department completed an initial study which evaluated the possible recharging of ground water in Southern California basins with available resources of the State Water Project (see page 6, Bulletin 132-74). The results of the study are contained in a District report issued by the Southern District in June 1974.

The District report essentially covers the preliminary feasibility determinations for transporting large volumes of water and recharging ground water basins where space for storage exists. Considerations such as volume of export water available in the Delta, conveyance capability of the Project, availability of power, etc., necessary for actual implementation of a feasible plan have been initiated. A study is being made to determine the feasibility of establishing a prototype system in the San Fernando Valley. The ultimate object of such activities is to develop a program to operate the State Water Project on a permanent basis utilizing both surface and ground water storage.

Actions Concerning Project Recreation and Fish and Wildlife Enhancement

Recreation facilities are now available on all the Project's existing major reservoirs. In April 1974, the Department of Parks and Recreation held ceremonies for the opening of Lake Perris for recreation use. In August, the U. S. Forest Service opened facilities

at Pyramid Lake for recreation use. Also during 1974, actions were taken to increase the utilization of the California Aqueduct by recreationists. Figure 2 indicates the status of aqueduct recreation developments at the end of 1974.

Figure 2: AQUEDUCT RECREATION DEVELOPMENTS

Fishing Access Site Program

Under legislation enacted in 1968, the Wildlife Conservation Board has the responsibility for planning and developing a fishing access program on aqueducts of the Project (see page 2, Bulletin 132-69). In 1969, the Board and the Department embarked on a program of development at certain sites along the California Aqueduct under which the Department agreed to:

Permit use of some existing roads.

Furnish and install necessary safety devices prior to public use.

Provide necessary access to land upon which to develop the sites.

Other basic requirements by the Board included that (1) a fishery be established prior to development of a site, (2) site operation and maintenance be provided by local government, and (3) site facilities should be adequate but not elaborate.

During 1974, another fishing access site was opened to the public, bringing to 12 the total number on the California Aqueduct in the San Joaquin Valley. The new site, the Huron Fishing Access Site, is located in Fresno County adjacent to Highway 198 approximately three miles north of the community of Huron.

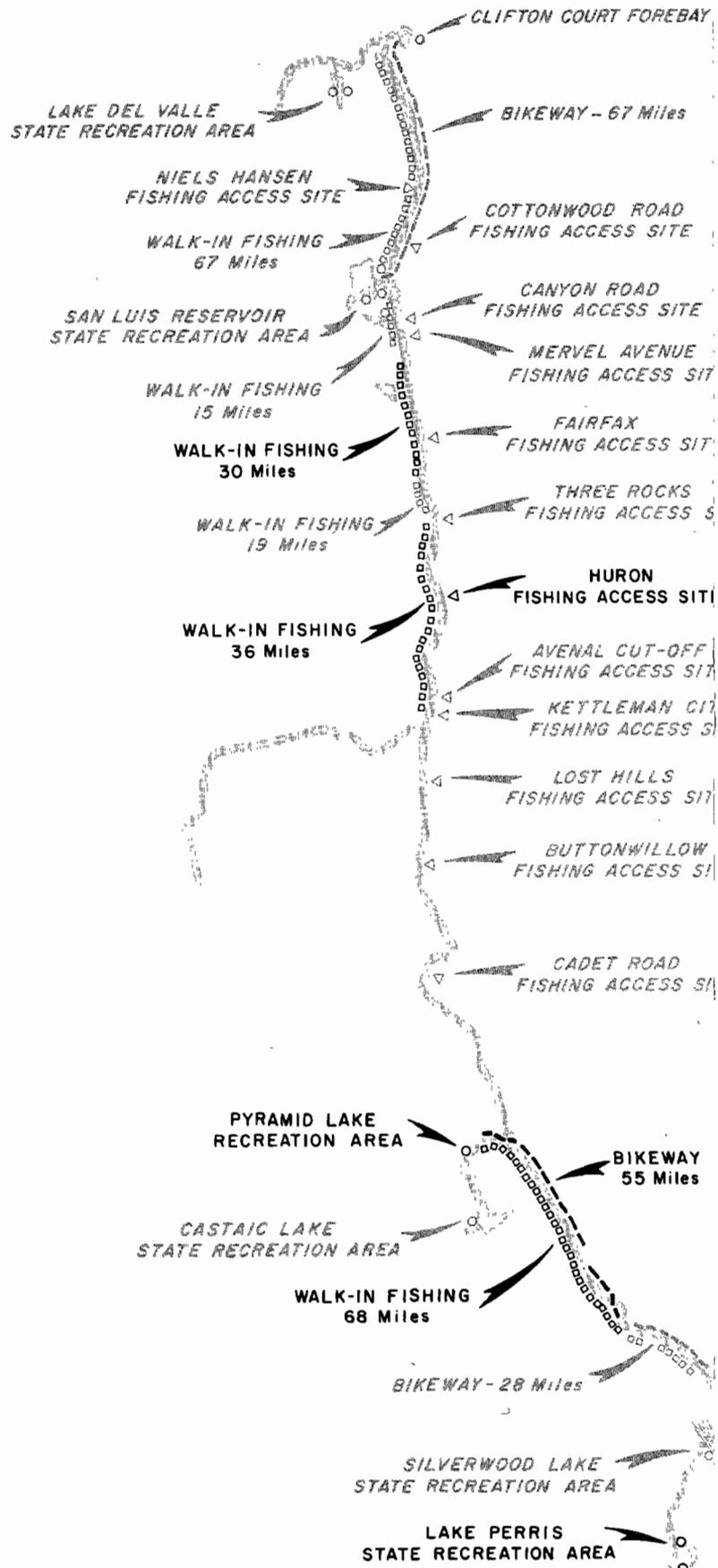
Considerable use has been made of the sites in the San Joaquin Valley. The Aqueduct is the largest flowing body of water in the semi-arid Valley, and a substantial fishery has become established. All sites are open and free to the public and have been well used.

The Wildlife Conservation Board has approved funding to develop three more fishing access sites along the California Aqueduct. An interagency agreement between the Board and the Department was being processed for the development of these sites. Two are located in the Antelope Valley in Los Angeles County, and the third is located approximately six miles west of the community of Newman in Stanislaus County.

California Aqueduct Bikeway

A new concept for expanding recreation use of the Project was introduced in 1972—the California Aqueduct Bikeway (see page 8, Bulletin 132-73).

In 1974 the San Joaquin Valley section of the bikeway received national recognition by being named a National Recreation Trail by the United States Bureau of Outdoor Recreation. Also in 1974, another section of the Southern California portion of the Aqueduct Bikeway was opened. The length of bikeway open to the public at the end of 1974 was approximately 67 miles in the San Joaquin Valley and 83 miles in Southern California.



RECREATION DEVELOPMENTS OPENED IN 1974
DEVELOPMENTS OPENED PRIOR TO 1974



Bikeway near Oso Pumping Plant



Litigation

The following are summaries of significant litigation which involved the State Water Project in 1974:

Zurn Engineering, Inc., (Pascal and Ludwig) v. State, Superior Court Los Angeles, County No. 978331. The contractor for the construction of Grizzly Valley Dam (Lake Davis) contends the Department still owes approximately \$1.4 million for work done because of changes in the work, forced acceleration, and added quantities of excavation and fill. Trial is expected to begin in 1975.

McNamara-Fuller v. State, Superior Court, San Francisco #595815. This suit, filed in September 1968, arose from the initial construction contract for the Oroville Powerplant. The plaintiff is seeking \$15,000,000 on theories of breach of contract, changed conditions, breach of warranty, and misrepresentation as to subsurface conditions.

The trial on the merits has been in progress since June 1974. A judgment awarding the plaintiff \$11,732,000 plus interest was handed down on June 5, 1975. The Department will appeal.

State v. Moloney, Sacramento County Superior Court, involves the purchase of transformers for the Oroville Powerplant. Three of the transformers failed after a short period of use, and upon examination it was found that they did not meet original contract specifications. All six transformers have now been repaired or rebuilt and the State is seeking to recover

the costs of approximately \$2,000,000.

Pretrial discovery is in progress but a trial date has not yet been set.

San Bernardino Valley Municipal Water District v. Department of Water Resources and The Metropolitan Water District of Southern California, Sacramento County Superior Court, No. 22837 filed in 1972. The plaintiff water supply contractor alleges the Department breached a provision of its water supply contract with plaintiff, which requires all of the Department's long-term water supply contracts to be substantially uniform as to their basic provisions. Plaintiff alleged its contract was breached when the Department executed Amendment No. 12 to the water supply contract with The Metropolitan Water District of Southern California, prohibiting the Department from serving water to any other agency within the Metropolitan Water District's service area.

The Metropolitan Water District filed answers to interrogatories of plaintiff in April 1974. The Municipal Water District of Orange County has successfully intervened in the case and a motion to disallow the intervention was denied.

Bowker v. Morton, U. S. District Court, San Francisco, No. C-701274-OJC, filed in 1970. This is a class action brought against both the State and Federal Governments. Among other things, plaintiffs seek an injunction and declaratory judgment requiring application of the federal reclamation laws, including

the 160-acre limitation to land within the state service areas of the State Water Project. The State's position is that the federal law has no application to land receiving water solely from the State.

The plaintiffs filed an amended complaint in February 1974 after the Court ordered counsel to show cause why the case should not be dismissed for lack of prosecution. The State filed an answer to the amended complaint in April 1974. On April 24, 1974, the Court dismissed without prejudice to refile part of the cause of action relating to the National Environmental Policy Act of 1969.

On May 2, 1975, the Federal District Court accepted the appeal to the 9th Circuit Court of Appeals. Trial dates have not yet been set.

Sierra Club v. Morton, U. S. District Court, San Francisco, filed in 1971. The plaintiffs seek to enjoin federal and state defendants, including the Director of the Department of Water Resources, from constructing or continuing construction or operation of the Delta Pumping Plant, the Peripheral Canal, the San Luis Drain, the East Side Canal, and the Tracy Pumping Plant because of an alleged failure to meet environmental requirements. The principal statutes involved are the National Environmental Policy Act of 1969, the California Environmental Quality Act of 1970, and the Rivers and Harbors Act of 1899.

The trial has been divided into two parts. The first phase, on whether or not the defendants violated any statutes, was tried and briefs filed in 1974, but no opinion was issued. The second phase, if necessary, will consider what relief, if any, the plaintiffs are entitled to receive. In any event, the second phase will not begin until after the issuance of a final EIR on the Delta facilities.

Litigation Concerning State Water Resources Control Board Jurisdiction Over the Central Valley Project. The issue of the State Water Resources Control Board's (SWRCB) jurisdiction over operation of the Central Valley Project (CVP) by the Federal Government is involved in five cases pending before the U. S. District Court in Sacramento. They are:

Kern County Water Agency v. SWRCB and Central Valley East Side Project Association v. SWRCB (to set aside Delta Water Rights Decision 1379);

San Joaquin County Flood Control and Water Conservation District v. SWRCB (to set aside Lower American River Water Rights Decision 1400);

People ex rel. SWRCB v. Morton (to compel CVP compliance with SWRCB water rights permits);

USA v. State of California (to declare that U. S. Bureau of Reclamation is not subject to SWRCB water rights regulation and to set aside portions of New Melones Decision 1422).

The issue is being litigated in *USA v. California* while the other cases are held in abeyance. A hearing on the SWRCB's motion for summary judgment was held on November 26, 1974. In 1975 the Department

advised the Attorney General of its support of the State Water Resources Control Board position in this litigation.

Environmental Defense Fund v. Morton, U. S. District Court, Sacramento, filed in 1971. This lawsuit seeks to enjoin the Bureau of Reclamation from executing the CVP-SWP coordination agreement until an Environmental Impact Statement (EIS) is prepared pursuant to the National Environmental Policy Act of 1969.

The United States has stipulated that it will prepare an Environmental Impact Statement (EIS) and the case is off calendar until the EIS is completed.

Friends of the Earth v. Coleman (Brinegar), U. S. District Court, San Francisco, No. C-73-2184 RHS filed in 1973.

In 1968, the California Departments of Water Resources and Transportation signed an agreement to coordinate the construction of the Peripheral Canal and the Interstate 5 highway by using material excavated from the Peripheral Canal alignment as highway fill material. In November 1973, Friends of the Earth, Save the Delta Association, and others, sued the U. S. Secretary of Transportation in the Federal District Court in Washington, D. C., to enjoin the construction of Interstate 5 between Sacramento and Stockton, alleging that construction under this agreement would allow the Department of Transportation to start construction of the Peripheral Canal without an Environmental Impact Statement on the Canal. The California Department of Transportation intervened in the suit in April 1974 after the case was moved from Washington, D. C., to San Francisco.

In May 1974, the Federal District Court in San Francisco granted the defendants' motion for summary judgment on the basis that the Environmental Impact Statement was adequate and that the connection between the Peripheral Canal and the Interstate 5 freeway was too remote to require the highway EIS to cover the canal project. The plaintiffs appealed to the Ninth Circuit Court of Appeals and a hearing was set for early 1975. On March 11, 1975, the Court of Appeals affirmed the District Court's summary judgment.

Friends of the Earth v. Walton, California Superior Court, San Francisco, filed in 1973. This case was filed by the same plaintiffs as in *Friends of the Earth v. Coleman (Brinegar)*, supra, and for the same reasons, it is against California defendants, including the Director of the Department of Water Resources. This suit alleges violations of the California Environmental Quality Act which violations are basically identical to the alleged violations of the National Environmental Policy Act in the *Coleman* case.

The plaintiffs' motions for a Temporary Restraining Order and preliminary injunction against the award of bids for the Interstate 5 highway were denied by the Superior Court. The court decision in the *Coleman* case has resolved all the issues of this case.

CHAPTER II. PROJECT CONSTRUCTION

Seventy-six percent of the State Water Project facilities scheduled for completion by the end of 1985 were under construction or completed by December 31, 1974. These facilities include 23 dams and reservoirs, 8 power plants, 22 pumping plants, and 684 miles of aqueducts. The location and statistics for all the project facilities are shown on the map at the back of this bulletin.

During 1974, Phase II construction on the Mojave and Santa Ana Divisions of the California Aqueduct, construction of the visitors centers at Castaic and Perris Dams, and modifications to existing project facilities were significant items in the overall construction program.

Plans and Specifications

During 1974, the Department completed plans and specifications for 68 construction and procurement contracts, 61 of which were awarded by the year's

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

Castaic Dam Visitors Center.

Completion of Devil Canyon Powerplant, Unit No. 2.

Operating Road and Slope Protection Phase II, Tehachapi Afterbay to Silverwood Lake and Quail Lake.

Radial Gates, Hoists, and Stoplogs for Tehachapi Division, Mojave Division, and West Branch of California Aqueduct.

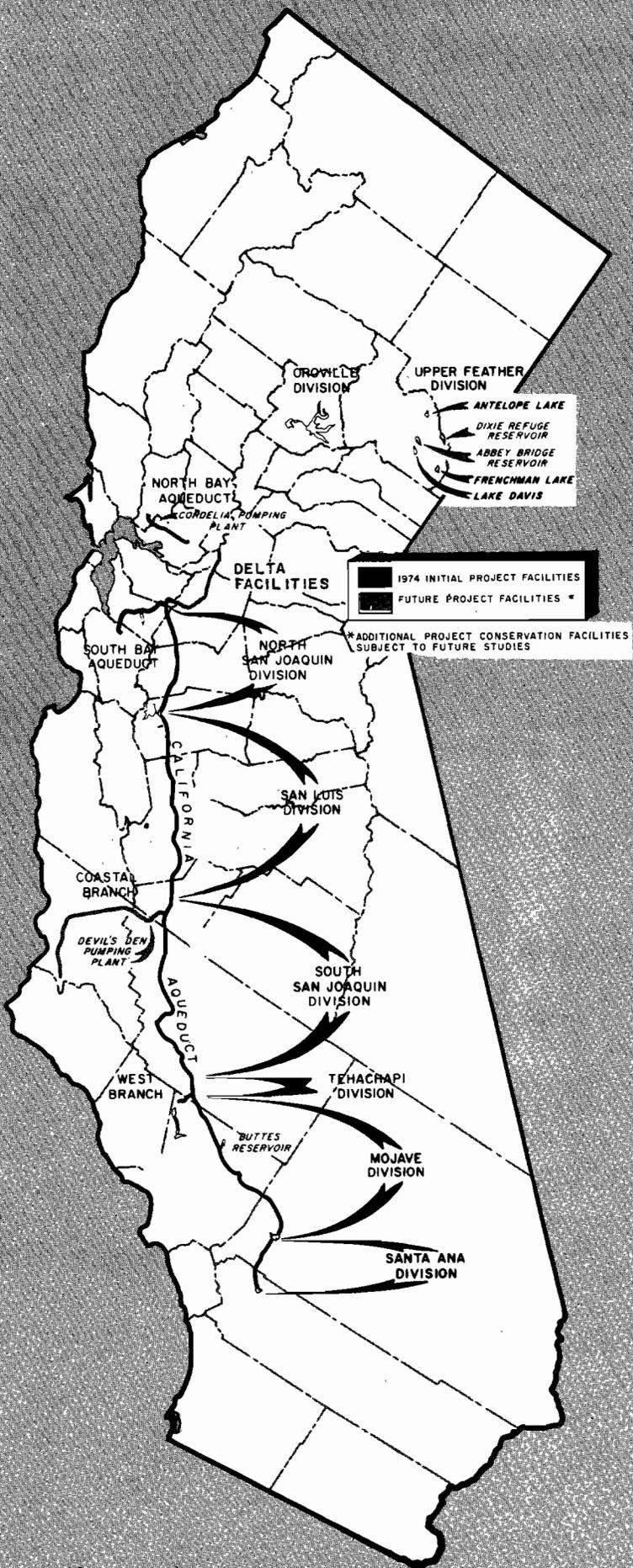
Antelope Siphon, Second Barrel.

Mile 374 Check Structure and Control Buildings, Tehachapi and Mojave Divisions.

Pyramid Dam Completion.

Perris Dam Outlet Works Release Facility.

Figure 3: PROJECT FACILITIES AND CONSTRUCTION DIVISIONS



Land Acquisition

The current land acquisition program includes land and right of way required for the initial facilities, together with that required for (1) portions of Phase II of the North Bay Aqueduct (to minimize paying for excessive escalation of land prices), (2) certain reaches of the Delta Facilities (to realize joint savings where canal excavation can be used in constructing a nearby portion of Interstate 5), and (3) recreation developments associated with project facilities.

During 1974, approximately \$0.5 million was expended for land acquisition in excess of credits for sales of surplus property and returns of condemnation deposits. This brings the total net expenditure through 1974 to \$109.6 million, which is approximately 83 percent of the \$132.5 million estimated total cost of the current program.

Acquisition was completed for 67 parcels (739.56 acres). To obtain land required for project construction, the Department presented to the California Water Commission one condemnation resolution covering eight ownerships. In addition, condemnation proceedings were concluded on eight parcels. One hundred-fifty-three parcels of excess lands (402.75 acres) were sold, bringing the total of such excess lands sold through 1974 to 555 parcels (3,921.08 acres). The total number of land parcels required under the current land acquisition program is shown for each facility or construction division of the Project in the tabulation below, together with the total number of parcels acquired through 1974. Construction divisions are delineated on Figure 3.

Relocations

The Department executed 16 agreements covering six relocations during the past year. These agreements raised the total outlay under all such agreements through 1974 to \$41.5 million —approximately 75 percent of the \$54.7 million estimated total relocation cost of the current program. In addition, 85 land exchange agreements were concluded during the past year.

Facility or Construction Division	Current Acquisition Program		
	Parcels Acquired in 1974	Total Parcels Acquired	Total Parcels Required
Feather River Facilities			
Upper Feather Division	0	22	29
Oroville Division	6	931	946
Delta Facilities			
North Bay Aqueduct	1	13	194
South Bay Aqueduct	5	21	94
South Bay Aqueduct	0	202	202
California Aqueduct:			
North San Joaquin Division	2	207	207
San Luis Division	0	22	22
South San Joaquin Division	6	569	570
Tehachapi Division	0	1	1
Mojave Division	5	1,609	1,645
Santa Ana Division	8	659	683
West Branch	2	263	289
Coastal Branch (Phase I)	0	48	48
TOTAL	35	4,567	4,930



Aerial View of Aqueduct-Wheeler Ridge Pumping in Foreground

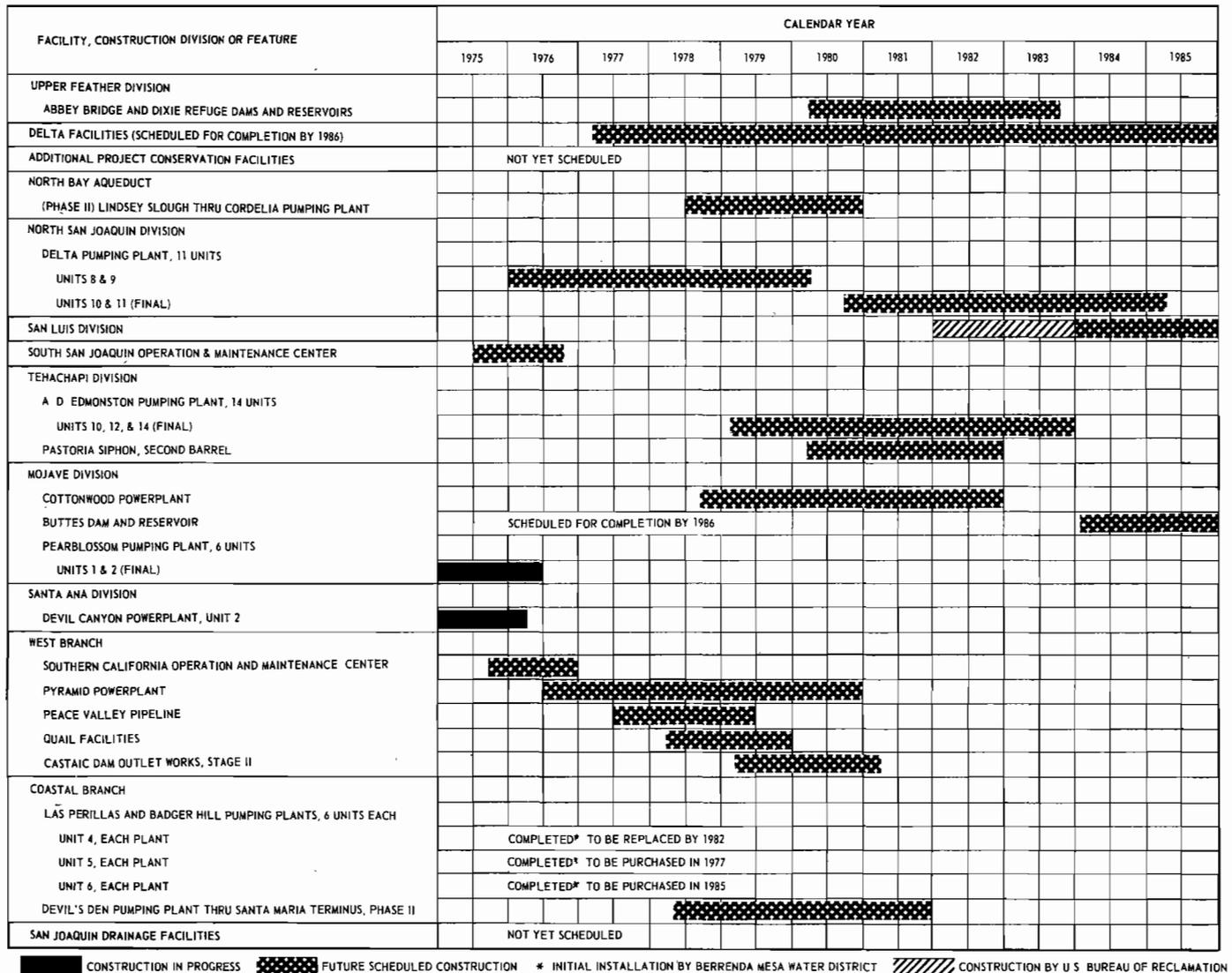
Construction Progress

A generalized construction schedule for the contracts in progress and future contracts is shown on Figure 4.

During 1974, the major construction effort was on the Mojave and Santa Ana Divisions, California Aqueduct, Phase II contracts. At the same time,

along with modifications to existing facilities of the Project, a concerted effort was made to complete the pumps and/or motors contracts at Buena Vista, Wheeler Ridge, Wind Gap, Edmonston (Tehachapi), and Pearblossom Pumping Plants.

Figure 4: GENERALIZED CONSTRUCTION SCHEDULE



Feather River Facilities

At Oroville, a contract for installation of multipath acoustic velocity flowmeters and two contracts providing for the installation of replacement trashracks and trashrack stabilizers all at Edward Hyatt (Oroville) Powerplant were completed. Several modifications contracts, such as a motorized valve operator in the Palermo Outlet Works and miscellaneous air conditioning at equipment locations were also completed.

Construction was initiated on contracts to complete the corrective work on the trashracks and for rebuilding transformer heat exchanger coils at Edward Hyatt (Oroville) Powerplant, for modification of radial gate seals at Oroville Dam Spillway, and for extending boat ramps at Loafer Creek and Lime Saddle recreation areas. The cost of extending the boat ramps will be paid by the Department of Navigation and Ocean Development.

North Bay Aqueduct

Phase I of the North Bay Aqueduct is complete and operational.

South Bay Aqueduct

All of the South Bay Aqueduct is complete and operational. At South Bay Pumping Plant, a contract to repair and recondition pump motors was completed.

California Aqueduct

During 1974, the Buena Vista and Wheeler Ridge Pumping Plants Control System was completed, and by the end of the year, only minor retrofit activities remained to be done on the California Aqueduct Control System, in the Southern California area.

North San Joaquin Division. All facilities in this division are operational. Construction of acoustic velocity flowmeter vaults in the Delta Pumping Plant Discharge Lines was completed, as were minor modifications contracts, such as the furnishing and installing of platforms and ladders in the valve chambers in the Delta Pumping Plant.

San Luis Division. This division is complete and operational. The contracts for completion of Romero Overlook were completed.

South San Joaquin Division. All modifications to the pumps at the three pumping plants in this division were completed during 1974, and all facilities are operational.

Automatic backfilling systems were installed at Buena Vista, Wheeler Ridge, and Wind Gap Pumping Plants to eliminate the uplift problems that had occurred during starting of the pumps. Additionally, modifications were made to the impeller blades of the pumps at Wheeler Ridge to meet efficiency requirements and at Wind Gap to eliminate cavitation.

Minor modifications to existing facilities in this division were accomplished under Facilities Modifications Contract No. 1, which is essentially a time and materials contract.

Tehachapi Division. The initial 11 units at A. D. Edmondston (Tehachapi) Pumping Plant were installed and operational at the year's end. An extensive modification program to minimize noise and cavitation in the west wing pumps was completed during 1974. Cavitation was reduced by the injection of air into the pump inlet tube and the modification of the pump bend elbow. The Department accepted the pumps after the manufacturer agreed to a lump sum adjustment estimated by the Department to be the cost of installation of a permanent air injection system. Modifications to overcome high pressures in the motor bearing oil lubrication systems for the 11 units were also completed during the year. The contract for the plant control system was partially completed, with completion expected late in 1975.

Mojave Division. California Aqueduct Phase II construction in this division is progressing on schedule, with one or two exceptions. The contractors installing pumps and motors for Units Nos. 1 and 2 at Pearblossom Pumping Plant probably will not have these units operational before July 1976. The target date was January 1, 1976. However, all related mechanical-electrical contracts, the second discharge line at Pearblossom Pumping Plant, the second barrel at Antelope Siphon, the Mile 374 Check Structure, remaining radial gates, and control houses are expected to be completed late in 1975. All modifications to Pearblossom Pumping Plant mechanical and electrical equipment are completed, leaving the control system as the only initial facility contract still in progress. This contract is expected to be completed by the fall of 1975.

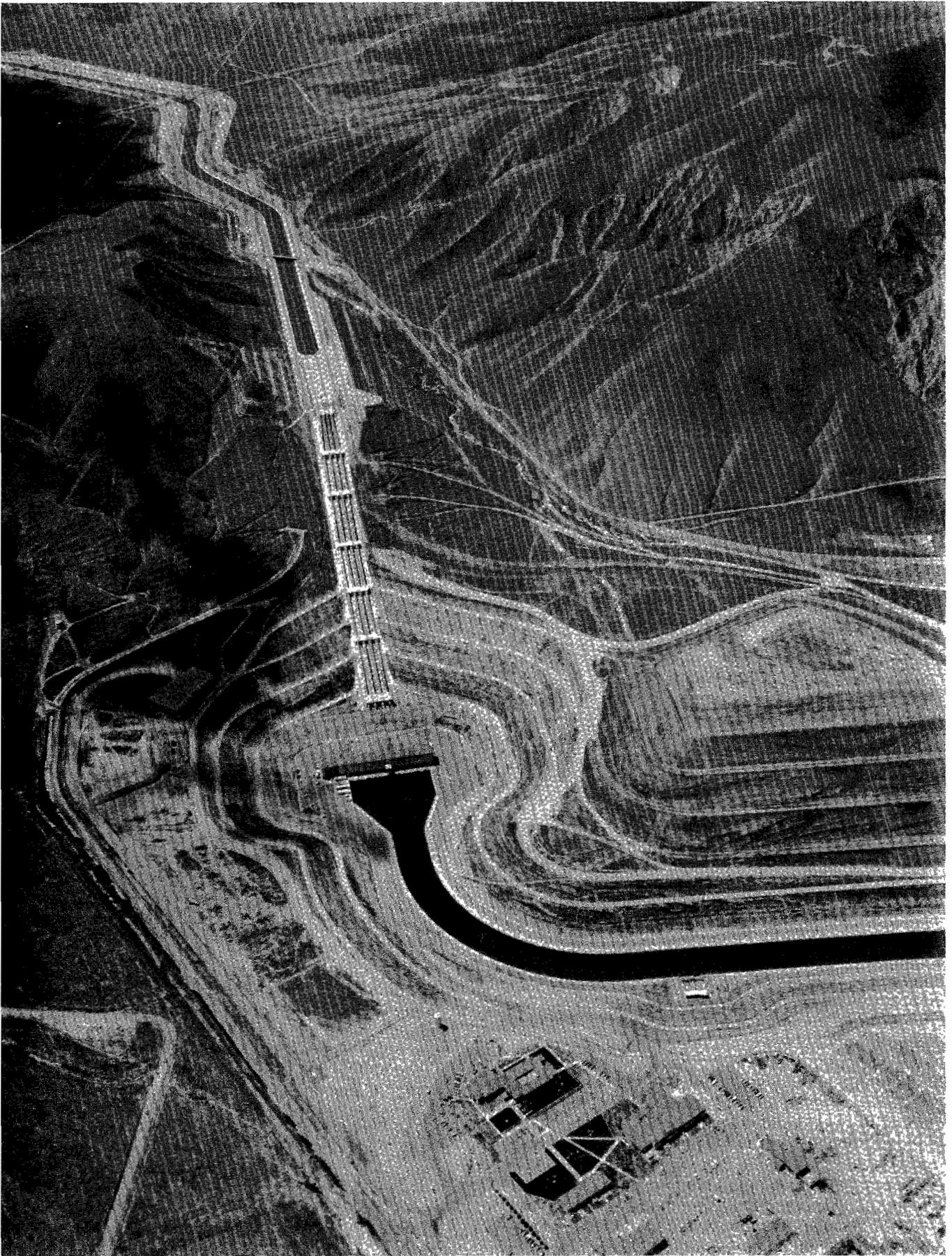
Minor modifications to existing facilities in this division were accomplished under Facilities Modifications Contract No. 2, which is essentially a time and materials contract.

Santa Ana Division. As with the Mojave Division, the initial facilities are operational and all Phase II contracts are generally on schedule, with the exception of the one for furnishing and installing the turbine, governor, and valve for Unit No. 2 generator at Devil Canyon Powerplant. This second unit, originally scheduled for operation by January 1, 1976, is now expected to be in operation about May 1976. The remaining Phase II work related to the power plant is on schedule. Contracts for Perris Dam Visitors Center and Perris Dam Outlet Works-Release Facility were partially completed. Completion is expected in 1975. Minor modifications were accomplished under Facilities Modification Contract No. 2.

West Branch. During 1974, construction was completed on Pyramid Dam, Oso Canal Lining Repair, Angeles Tunnel Intake Works and Pyramid Dam Outlet Works, Castaic Ridge Recreation Facilities, Castaic Dam Completion, and several other minor contracts. Construction continued on contracts for Castaic Dam Visitors Center, Quail Lake Outlet Structure-Instrument Vault, Pyramid Dam Completion, with completion expected in early 1975. Minor modifications were accomplished under Facilities Modification Contract No. 2.

The City of Los Angeles Department of Water and Power completed its contract for construction of Elderberry Forebay Dam.

Coastal Branch. This branch is operational from the California Aqueduct to the site of the proposed Devil's Den Pumping Plant, about 14 miles west of Avenal Gap. A contract for surfacing the Coastal Branch operating road was completed during 1974.



Wind Gap Pumping Plant

CHAPTER III. PROJECT UTILITY MANAGEMENT

This is a progress report on management of the Project's water and power utility during 1974, covering arrangements for (1) securing water rights and

pumping power and (2) marketing developed water supplies and project power generation.

Water Rights Management

During 1974, water rights management activities by the Department included the following:

Export Project Requirements

Decision 1379 of the State Water Resources Control Board sets interim Delta water quality criteria requiring state and federal projects to either reduce the level of exports from the Sacramento-San Joaquin Delta or increase the releases from upstream storage reservoirs. It also orders an extensive Delta water quality monitoring program and declares the Board's intent to reconsider the standards by July 1, 1978, based on experience to be gained from working with interim criteria.

While the terms and conditions of Decision 1379 have been stayed by Court order (see page 17, Bulletin 132-72), the Department indicated in a letter to the State Water Resources Control Board that the State Water Project would continue its voluntary compliance with the Decision. Each year the Department complies with the portions of the Decision pertaining to monitoring and reporting of conditions. If dry or critical years occur prior to reconsideration by the Board, the Department will work with the Board to arrive at acceptable operating criteria for such situations.

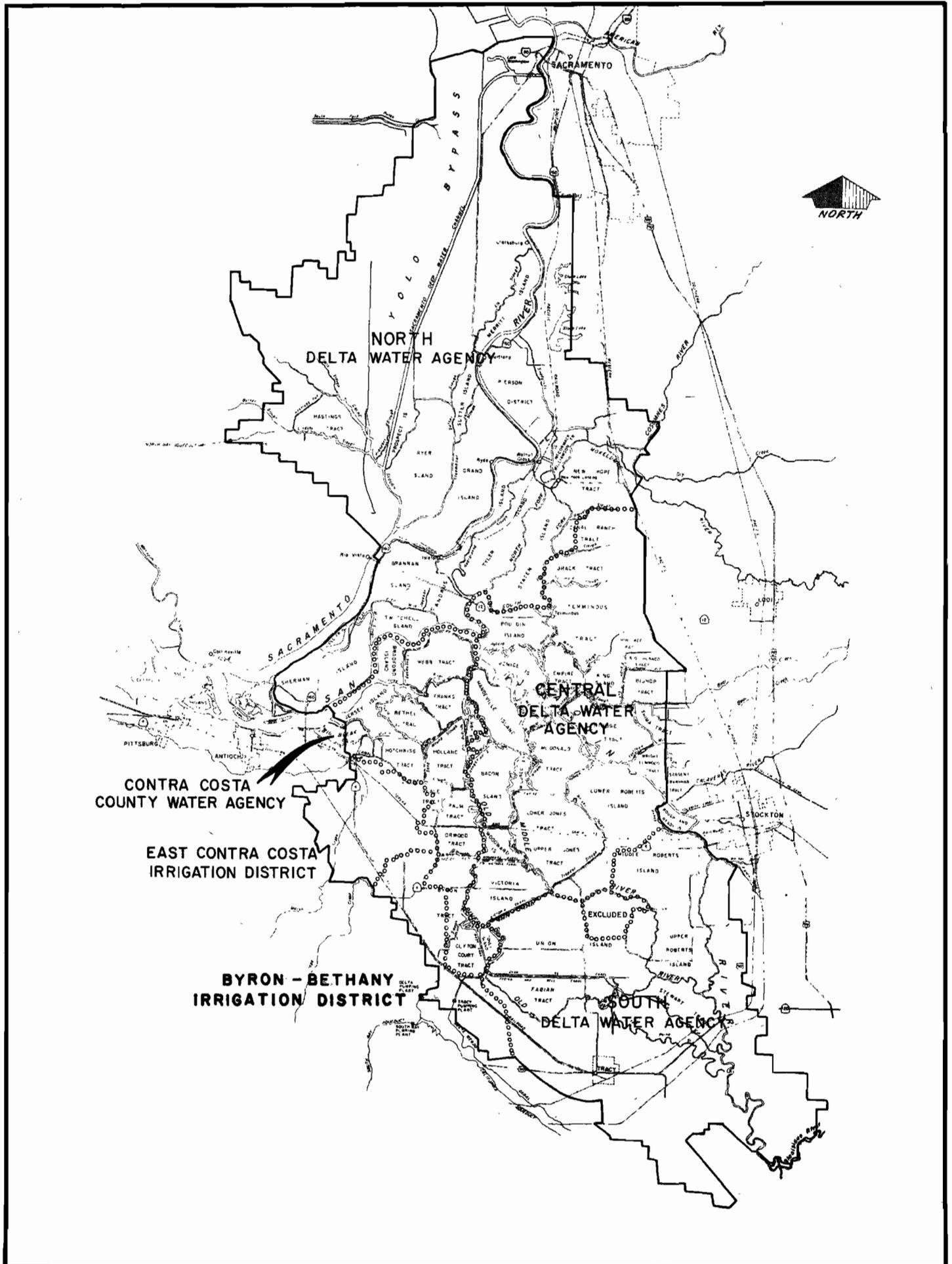
Water quality information and data reports on continuing studies by the Department on Delta water conditions were transmitted to the Board during 1974. The Department continued to implement activities for monitoring Delta water quality as specified in Decision 1379. Work continued on evaluating on-shore monitoring sites, and development data handling and reporting procedures. A contract has been awarded for a new water quality sampling craft.

During 1974, the monitoring program was temporarily modified to include a special intensive sampling effort in the mid-Delta. Data for an average of 25 water quality parameters were collected at each of 40 sites throughout the estuary on a biweekly basis.

Feather River Water Entitlement Negotiations

During 1974, negotiations were completed and agreements executed with five riparian water users concerning Feather River water right entitlements. Negotiations continued with four appropriative water users and nine riparian water users along the Feather River. (These totals are subject to change as water users initiate or discontinue diversions from the River.)

Figur 5: SACRAMENTO-SAN JOAQUIN DELTA AGENCIES



Delta Water Entitlement Negotiations

Municipal Water Use. Previous reports have referred to the administration of completed agreements with municipal water users in the western Delta—the Contra Costa County Water District and the City of Antioch. Both agencies had above-average water supplies during the 1974 water year as defined in the contracts. The District had a credit of 94 days and the City a credit of 126 days. Including the credits accumulated in previous years, the District and the City now have total credits of 129 and 408 days, respectively.

Industrial Water Use. As discussed in Bulletin 132-74, negotiations with the industrial water users in the western Delta have been delayed pending development of a basis acceptable to the Bureau. The Department is interested in reaching agreement with the industries to provide them with a replacement water supply (via the Contra Costa Canal) to compensate for any possible loss of offshore water of adequate quality due to joint operation of the State Water Project and the federal Central Valley Project. The Bureau has been reluctant to agree to any responsibility due to the operation of the federal project. This has been the major obstruction to negotiations since the industries desire a total solution to the reduced offshore water supply problem.

Agricultural Negotiations

Beginning in 1974, six agencies representing agricultural water interests in the Delta succeeded to the overall interest of the Delta Water Agency, which terminated December 1973 (see page 20, Bulletin 132-74). These are the North Delta, Central Delta, South Delta, and Contra Costa County Water Agencies; and East Contra Costa and Byron-Bethany Irriga-

tion Districts. The boundaries of these agencies and districts are shown in Figure 5. Negotiations have been initiated with four of these agencies.

East Contra Costa Irrigation District. Negotiations with ECCID have been held in abeyance at the request of the District's staff pending more progress with one of the "big three agencies" to assure contracts with common terms if at all possible.

North Delta Water Agency. Department representatives met with representatives of the Agency and the U. S. Bureau of Reclamation several times during 1974 to exchange data and concepts of a Delta contract. During the year, the Agency has tended to favor a contract with the CVP on a basis similar to the Sacramento River Water Users Contracts. The Agency's requested quality criteria are as specified in the SWRCB's Decision 1379. The Agency would also like to include the question of overland facilities for its area in its contract.

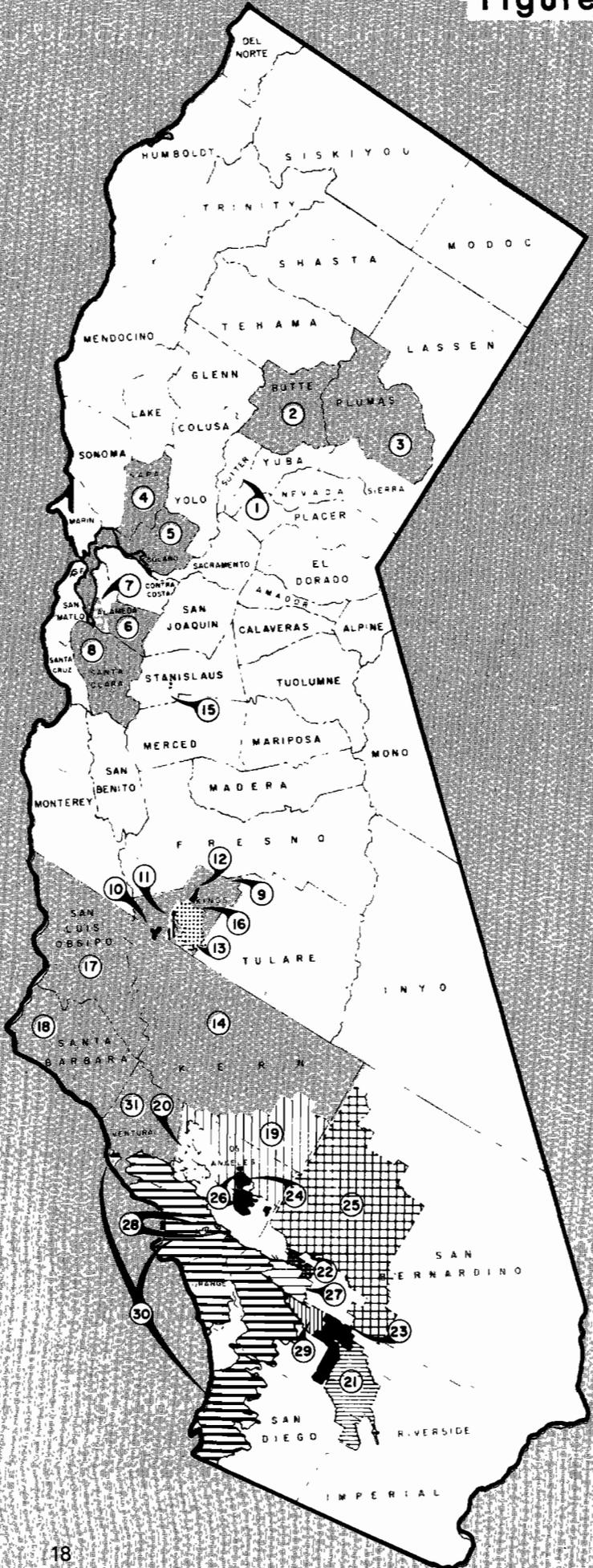
South Delta Water Agency. Representatives of the Department, the USBR, and the Agency have met several times during the year. The Agency submitted a draft contract which specifies water quality, water level, and water flow control criteria throughout the southeast Delta. The exact manner of meeting such criteria would be up to the operating agencies. Three possible ways to accomplish the goals are described in the Draft Environmental Impact Report—Peripheral Canal.

Central Delta Water Agency. Representatives of the USBR and the Agency have held several meetings to explore solutions to the several problems which the Agency feels will require Congressional action. By request of the Agency, the Department has not participated in these discussions which have been limited to items peculiar to the Agency's relationship to the United States.



Sacramento River in Delta Area

Figure 6: LONG-TERM WATER SUPPLY



Location No.	Contracting Agency	Total Cumulative Deliveries through Dec. 31, 1974 (acre-feet)	Maximum Annual Entitlement (acre-feet)
UPPER FEATHER AREA			
1	City of Yuba City	0	9,600
2	County of Butte	558	27,500
3	Plumas County Flood Control and Water Conservation District	1,966	2,700
	Subtotal	2,524	39,800
NORTH BAY AREA			
4	Napa County Flood Control and Water Conservation District	22,349	25,000
5	Solano County Flood Control and Water Conservation District		42,000
	Subtotal	22,349	67,000
SOUTH BAY AREA			
6	Alameda County Flood Control and Water Conservation Dist., Zone 7	95,860	46,000
7	Alameda County Water District	183,730	42,000
8	Santa Clara Valley Water District	671,220	100,000
	Subtotal	950,810	188,000
SAN JOAQUIN VALLEY AREA			
9	County of Kings	9,100	4,000
10	Devil's Den Water District	82,836	12,700
11	Dudley Ridge Water District	283,668	57,700
12	Empire West Side Irrigation District	28,114	3,000
13	Hacienda Water District	38,702	8,500
14	Kern County Water Agency	2,475,891	1,153,400
15	Oak Flat Water District	38,558	5,700
16	Tulare Lake Basin Water Storage District	650,079	110,000
	Subtotal	3,606,948	1,355,000
CENTRAL COASTAL AREA			
17	San Luis Obispo County Flood Control and Water Conservation District	0	25,000
18	Santa Barbara County Flood Control and Water Conservation District	0	57,700
	Subtotal	0	82,700
SOUTHERN CALIFORNIA AREA			
19	Antelope Valley-East Kern Water Agency	1,332	138,400
20	Castaic Lake Water Agency	0	41,500
21	Coachella Valley County Water Agency	12,200	23,100
22	Crestline-Lake Arrowhead Water Agency	1,552	5,800
23	Desert Water Agency	19,000	38,100
24	Littlerock Creek Irrigation District	1,175	2,300
25	Mojave Water Agency	69	50,800
26	Palmdale Water District	0	17,300
27	San Bernardino Valley Municipal Water District	50,306	102,600
28	San Gabriel Valley Municipal Water District	612	28,800
29	San Geronio Pass Water Agency	0	17,300
30	The Metropolitan Water District of Southern California	509,536	2,011,500
31	Ventura County Flood Control District	0	20,000
	Subtotal	595,782	2,497,500
TOTAL STATE WATER PROJECT		5,178,413	4,230,000

NET TOTALS, STATE WATER PROJECT SERVICE AREA
 TOTAL, STATE OF CALIFORNIA
 PERCENT, STATE WATER PROJECT OF TOTAL

a) Total for Plumas County, including Last Chance Creek Water District.
 b) 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.
 c) Total for Kern County, including about 60% of Devil's Den Water District, and about 50% of Antelope Valley-East Kern Water Agency.

CONTRACTING AGENCIES

Total Payments through Dec. 31, 1974 (dollars)	Gross Area as of July 1, 1974 (acres)	Assessed Valuation 1974-75 (dollars)	Estimated Population (July 1, 1974)	Location No.
0	2,700	39,000,000	15,700	1
180,000	1,064,000	385,352,000	115,000	2
<u>108,000</u>	<u>1,644,000 (a)</u>	<u>133,870,000 (a)</u>	<u>13,100 (a)</u>	3
<u>288,000</u>	<u>2,710,700</u>	<u>558,222,000</u>	<u>143,800</u>	
1,684,000	508,000	323,692,135	87,100	4
62,000	528,400	517,474,000	181,900	5
<u>1,746,000</u>	<u>1,036,400</u>	<u>841,166,135</u>	<u>269,000</u>	
5,099,000	272,000	361,339,538	98,000	6
6,748,000	61,700	573,684,711	162,000	7
24,898,000	849,000	3,795,696,971	1,170,000	8
<u>36,745,000</u>	<u>1,182,700</u>	<u>4,730,721,220</u>	<u>1,430,000</u>	
158,000	893,000 (b)	201,242,000 (b)	69,500 (b)	9
1,392,000	8,500	1,258,700	50	10
2,624,000	29,900	6,528,100	50	11
260,000	7,500	754,000	50	12
330,000	15,300	165,155	50	13
42,404,000	5,057,200 (c)	1,600,231,000 (c)	341,000 (c)	14
261,000	4,000	275,000	50	15
<u>5,620,000</u>	<u>193,000</u>	<u>9,628,000</u>	<u>50</u>	16
<u>53,049,000</u>	<u>6,208,400</u>	<u>1,820,081,955</u>	<u>410,800</u>	
935,000	2,131,300	458,258,042	123,300	17
2,205,000	1,756,900	891,972,537	279,800	18
<u>3,140,000</u>	<u>3,888,200</u>	<u>1,350,230,579</u>	<u>403,100</u>	
12,861,000	1,524,900	492,637,589	93,800	19
5,671,000	125,000	221,724,111	58,100	20
3,374,000	637,100	297,451,361	68,700	21
932,000	53,700	63,670,255	11,100	22
5,564,000	209,300	238,053,710	40,700	23
263,000	43,300	6,817,980	1,400	24
6,398,000	3,160,400	354,440,955	67,400	25
1,707,000	73,800	64,083,522	23,400	26
19,829,000	209,100	724,226,315	321,200	27
5,075,000	16,200	430,788,720	146,500	28
2,954,000	140,600	64,064,565	27,700	29
335,273,000	3,128,700	35,941,961,265	10,850,900	30
<u>2,469,000</u>	<u>1,179,500 (e)</u>	<u>1,498,573,939 (e)</u>	<u>426,000 (e)</u>	31
<u>402,370,000</u>	<u>10,501,600</u>	<u>40,398,494,287</u>	<u>12,136,900</u>	
<u>497,338,000</u>	<u>25,528,000 (d)</u>	<u>49,698,916,176 (d)</u>	<u>14,793,600 (d)</u>	
24,165,000 (f)	48,667,768,400 (f)	14,502,600 (f)		
100,314,000	74,299,000,000	20,933,000		
24.1	65.9	69.3		

d) Includes duplicate values for overlapping agency areas.

e) Total for Ventura County, including about 8,400 acres in Antelope Valley-East Kern Water Agency, 209,500 acres in The Metropolitan Water District of Southern California, and about 8,400 acres in Castaic Lake Water Agency.

f) Excludes all overlapping areas.

Water Contracts Management

Thirty-one agencies have contracted for a long-term water supply from the State Water Project. The agencies encompass about one-quarter of the State's land area containing about 66 percent of the State's assessed valuation and 69 percent of the population. The names and locations of these agencies together with other pertinent information are shown in Figure 6.

The combined maximum annual entitlements of all agencies total 4,230,000 acre-feet—the amount established as the maximum which the State could contract to deliver. The annual amount of project water to which each agency is entitled is shown in Table A of its contract. Generally, the initial annual entitlement is small, increasing each year thereafter until the maximum annual entitlement is reached. Annual entitlements for each of the 31 agencies are shown in Table B-4, Appendix B. Table B-5 shows the historical and projected annual deliveries for each agency.

Columns 1 through 6 of Table 1 present a summary of annual entitlement totals within major service areas served by the Project. Column 7 shows the total of all agencies' annual entitlements and Column 8 actual and estimated entitlement water deliveries. Column 7 values represent estimated water needs at the time the contracts were negotiated. Values in Column 8 are lower because past needs and presently estimated future needs of several contractors, mainly in Southern California, are less than original contract amounts. Most contractors requiring less project water are primarily municipal and industrial contractors who have experienced a decrease in originally projected population growth.

Agencies utilizing project water primarily for agricultural purposes are expected to continue to want to use project water in amounts exceeding their annual entitlements. These agencies, located in the San Joaquin Valley, anticipate continued use of surplus water, as long as available, to reduce overall water costs.

Surplus water is made available first to the 31 long-term contractors and the balance to other, or non-contractor, customers. Past and projected surplus water deliveries are summarized in Column 9 of Table 1 together with miscellaneous deliveries (see footnote (a) of Table 1).

In addition to total water deliveries to contracting agencies summarized in Column 10, Table 1 shows past and projected water requirements associated with operation of the Project in Columns 11 and 12, and deliveries required for the maintenance of project recreation developments in Column 13. Overall total annual quantities are shown in Column 14.

TABLE 1: ANNUAL

(in acre-

Calendar Year	Annual Entitlements Under Long-term Water Supply Contracts						
	Feather River Area	North Bay Area	South Bay Area	San Joaquin Valley Area	Central Coastal Area	Southern California Area	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1962	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0
1967	0	0	11,538	0	0	0	11,538
1968	550	0	109,900	81,050	0	0	191,500
1969	620	0	98,700	168,075	0	0	267,395
1970	700	0	114,200	207,700	0	0	322,600
1971	890	0	116,200	258,500	0	0	375,590
1972	970	0	118,300	420,766	0	201,723	741,759
1973	1,100	0	120,400	392,352	0	472,400	986,252
1974	1,230	0	122,400	470,350	0	588,220	1,182,200
Subtotal for 13 years 1962-1974	6,060	0	811,638	1,998,793	0	1,262,343	4,078,834
1975	1,610	0	124,500	526,150	0	704,250	1,356,510
1976	1,990	0	126,500	535,600	0	824,780	1,488,870
1977	2,420	0	128,600	594,100	0	942,201	1,667,321
1978	2,850	0	130,700	651,600	0	1,060,722	1,845,872
1979	3,280	0	132,700	707,700	0	1,177,873	2,021,553
1980	4,710	19,250	134,800	765,000	2,200	1,304,914	2,230,874
1981	10,390	21,750	137,000	828,500	3,300	1,425,865	2,426,805
1982	12,270	24,400	139,200	889,200	6,600	1,546,806	2,618,476
1983	14,200	27,050	141,400	955,500	9,900	1,668,557	2,816,607
1984	16,130	29,600	143,600	1,017,900	14,900	1,790,398	3,012,528
1985	19,060	32,750	145,800	1,079,100	24,800	1,912,549	3,214,059
10 years, 1976-1985	87,300	154,800	1,360,300	8,024,200	61,700	13,654,665	23,342,965
10 years, 1986-1995	340,420	587,500	1,650,200	13,032,300	688,000	23,869,646	40,168,066
10 years, 1996-2005	386,460	670,000	1,878,000	13,550,000	827,000	24,975,000	42,286,460
10 years, 2006-2015	393,170	670,000	1,880,000	13,550,000	827,000	24,975,000	42,295,170
10 years, 2016-2025	398,000	670,000	1,880,000	13,550,000	827,000	24,975,000	42,300,000
10 years, 2026-2035	398,000	670,000	1,880,000	13,550,000	827,000	24,975,000	42,300,000

a) Amounts shown for 1962 thru 1974 include regulated delivery of local supply (429,279 acre-feet), surplus water (1,761,030 acre-feet), and repayment of preconsolidation water (80,788 acre-feet). Amounts shown for 1975 thru 1985 are based on studies as to the availability and cost of surplus water.

WATER REQUIREMENTS

feet)

Estimated Annual Water Demands							Calendar Year
Deliveries to Contracting Agencies			Initial Fill	Operational Losses and Storage Changes	Recreation Water	Total	
Entitlement Water	Surplus and Nonproject Water(a)	Total					
(8)	(9)	(10)	(11)	(12)	(13)	(14)	
0	18,289	18,289	9	272	0	18,570	1962
0	22,456	22,456	71	185	0	22,712	1963
0	32,507	32,507	171	152	0	32,830	1964
0	44,105	44,105	93	729	0	44,927	1965
0	67,928	67,928	00	1,746	0	69,674	1966
11,538	53,605	65,143	8,328	4,212	0	77,683	1967
171,709	136,311	308,020	498,926	117,906	0	924,852	1968
193,020	91,226	284,246	510,614	72,196	0	867,056	1969
233,993	171,104	405,097	23,947	2,435	0	431,479	1970
357,340	340,138	697,478	7,853	5,812	8	711,151	1971
611,801	490,602	1,102,403	100,274	53,010	6,541	1,262,228	1972
694,460	338,927	1,033,387	204,638	54,953	1,083	1,294,061	1973
874,075	463,900	1,337,975	246,620	13,046	2,118	1,599,759	1974
3,147,936	2,271,098	5,419,034	1,601,544	326,654	9,750	7,356,982	13 years, 1962-1974
1,287,960	572,551	1,860,511	71,327	58,773	7,284	1,997,895	1975
1,415,252	848,011	2,263,263	109,381	231,030	6,221	2,609,895	1976
1,616,572	926,610	2,543,182	4,360	-29,037	10,251	2,528,756	1977
1,794,222	908,011	2,702,233	4,360	24,843	10,286	2,741,722	1978
1,925,483	873,656	2,799,139	0	246,328	10,312	3,055,779	1979
2,022,548	832,246	2,854,794	0	160,125	42,662	3,057,581	1980
2,112,261	799,346	2,911,607	0	220,920	42,674	3,175,201	1981
2,256,043	747,726	3,003,769	0	184,278	42,684	3,230,731	1982
2,400,842	720,039	3,120,881	0	135,227	44,645	3,300,753	1983
2,511,127	681,883	3,193,010	0	201,866	44,755	3,439,631	1984
2,637,997	647,359	3,285,356	0	100,841	44,875	3,431,072	1985
20,692,347	7,984,887	28,677,234	118,101	1,476,421	299,365	30,571,121	10 years, 1976-1985
34,171,422	0	34,171,422	0	1,757,789	453,650	36,382,861	10 years, 1986-1995
39,860,080	0	39,860,080	0	1,753,487	455,000	42,068,567	10 years, 1996-2005
41,953,670	0	41,953,670	0	1,848,236	455,000	44,256,906	10 years, 2006-2015
42,237,200	0	42,237,200	0	1,841,431	455,000	44,533,631	10 years, 2016-2025
42,300,000	0	42,300,000	0	1,842,860	455,000	44,597,860	10 years, 2026-2035

Water Deliveries in 1974

The contracts of 24 long-term contracting agencies called for deliveries of 1,146,650 acre-feet of entitlement water in 1974. Table 2 lists these agencies together with their 1974 entitlement, the amount of entitlement and surplus water scheduled for delivery in 1974, as well as the amounts actually delivered. Project water deliveries to long-term contractors, entitlement plus surplus water, totaled 1,289,999 acre-feet in 1974.

Project water service involving the delivery of 1,337,975 acre-feet of water was provided to a total of 29 customers in 1974 including six noncontractors.

Monthly deliveries to each project customer during the year are shown in Table 3 and include:

- 874,075 acre-feet of entitlement water to 22 long-term contractors. (Napa County FC&WCD received only regulated delivery of local water supply.)
- 415,924 acre-feet of surplus water to nine long-term contractors.
- 35,884 acre-feet of local water to three long-term contractors and two noncontractors.
- 10,340 acre-feet of repayment water to the two

TABLE 2: SUMMARY OF 1974 ENTITLEMENT AND SURPLUS WATER SERVICE TO LONG-TERM CONTRACTORS

Long-term Contractor	Entitlement Water (acre-feet)			Surplus Water (acre-feet)	
	1974 Entitlement as of 1/1/74	Scheduled as of 1/1/74	Delivered	Scheduled 10/1/73 and 5/1/74	Delivered
UPPER FEATHER AREA					
Butte County	700	700	127	0	0
Plumas County FC&WCD	530	530	648	0	0
SOUTH BAY AREA					
Alameda County FC&WCD, Zone 7	14,800	14,800	1,314	0	0
Alameda County WD	19,600	19,600	4	0	0
Santa Clara Valley WD	88,000	88,000	88,000	12,000	2,934
SAN JOAQUIN VALLEY AREA					
County of Kings	1,500	1,500	1,500	0	0
Devil's Den Water District	9,700	9,700	9,700	3,935	4,128
Dudley Ridge Water District	24,100	24,100	33,390 ^(a)	34,792	33,391
Empire West Side ID	3,000	3,000	3,000	1,600	1,539
Hacienda Water District	3,300	3,300	3,300	3,313	1,972
Kern County Water Agency	347,000 ^(a)	347,000	347,000	331,586	299,433
Oak Flat Water District	3,200	3,200	3,471 ^(a)	2,500	3,471
Tulare Lake Basin WSD	43,000	43,000	68,989 ^(a)	141,477	68,989
SOUTHERN CALIFORNIA AREA					
Antelope Valley-East Kern WA	30,000	45	1,259	0	0
Castaic Lake WA	5,700	0	0	0	0
Coachella Valley County WD	6,400	6,400	6,400	0	0
Crestline-Lake Arrowhead WA	1,160	1,160	627	0	0
Desert Water Agency	10,000	10,000	10,000	0	0
Littlerock Creek ID	400	400	400	165	67
Mojave Water Agency	13,100	0	14	0	0
Palmdale WD	4,260	0	0	0	0
San Bernardino Valley MWD	50,000	50,000	16,605	0	0
San Gabriel Valley MWD	12,300	12,300	612	0	0
The Metropolitan WD of So. Cal.	454,900	320,600	277,715	0	0
TOTALS	1,146,650	959,335	874,075	531,368	415,924

a) Table A amount for 1974 increased at year's end in compliance with the surplus water contract because of the amount of project water received.

noncontractors, Buena Vista Water Storage District and J. G. Boswell Company, having agreements calling for this form of compensation.

1,752 acre-feet of surplus water to two noncontractors.

Other 1974 deliveries involving project facilities included 1,121,747 acre-feet to federal customers from the joint-use San Luis Facilities and 887,483 acre-feet from the Oroville Facilities to canal systems originally connected to the Feather River.

Entitlement Water Deliveries. Initially approved 1974 water delivery schedules called for delivery of full annual entitlements to 19 long-term contractors. Nine of these received the scheduled amounts while four received more than originally scheduled and six received less (see Table 2). Three contractors were originally scheduled to receive no project water during the year although one of these, Mojave Water Agency, subsequently requested and received a small amount, and two contractors were scheduled to receive water in an amount less than their annual entitlements. Overall, 874,075 acre-feet of entitlement water was delivered during the year while the remaining 272,575 acre-feet of Table A entitlements was paid for as required by the water contracts but not delivered. In all cases, nondelivery was due to reduced demands or inability of the water contractor to distribute the water within the contractor's service area.

Pursuant to the 1974 surplus water contracts and the recently executed surplus water amendment to their long-term contracts, the State was required to increase the 1974 entitlements of three contractors to an amount equal to one-half the total project water received during the year. Dudley Ridge Water District's entitlement was increased by 9,290 acre-feet, Oak Flat Water District's by 271 acre-feet, and Tulare Lake Basin Water Storage District's by 25,989 acre-feet. Each of these three contractors received project water during the year in amounts more than twice as large as their annual entitlements.

Plumas County Flood Control and Water Conservation District also received 118 acre-feet of entitlement water during 1974 in excess of its 1974 entitlement. The treatment of this excess delivery is under review.

Deferred Deliveries. As noted in the previous section, several contractors were unable to take delivery of their full 1974 entitlements. Table 3 shows for each contractor the amount of entitlement water not delivered in 1974 and cumulative undelivered amounts through 1974.

Alameda County Flood Control and Water Conservation District, Zone 7, and Alameda County Water District have special "wet weather" provisions in their contracts whereby the State is obligated to make up entitlement deliveries, if nondelivery was a

result of above-normal local water supplies. Having determined that nondelivery was a result of above-normal local water supplies, the State is obligated to deliver at some time in the future those portions of the two contractors' 1974 entitlement water which was not delivered in 1974. Total undelivered entitlement water to which contractors have acquired later delivery rights pursuant to the "wet weather" provisions is shown in the "Deferred Delivery" column of Table 3.

Table 3 shows that one other contractor, Santa Clara Valley Water District, has a deferred delivery credit under the "wet weather" provisions. During 1974 the District took delivery of project water in an amount exceeding its 1974 entitlement. By mutual agreement the additional water was delivered under the surplus water provisions, and the District's deferred delivery credit was reduced by the amount so taken—2,934 acre-feet.

The "wet weather" provisions also provide that in a year of below-average local water supply the contractor may increase its annual entitlement and in a later year or years of above-average water supply may decrease its annual entitlement by an equal amount. Two contractors, Oak Flat Water District and Tulare Lake Basin Water Storage District, have made such increases (see pages 29 and 30, Bulletin 132-73). As shown in the "Future Reductions" column of Table 3 they have thus acquired the right to future entitlement reductions of 2,466 acre-feet and 74,852 acre-feet, respectively.

Eight contractors which did not take delivery of their full annual entitlements in 1974 do not have the "wet weather" provisions in their contract, and the State is therefore not obligated to make later deliveries of the undelivered portion of their 1974 entitlement. As discussed in a following section, entitled "Contract Amendments", the Department is working with contractors to develop an amendment which would provide that undelivered entitlement water, regardless of the reason for nondelivery, would either be delivered later or result in a monetary credit to a contractor in lieu of later delivery.

Surplus Water Service. Contracts providing for 1974 surplus service were executed by nine long-term contractors and two noncontractors. The contracts were similar to those used for surplus service during the last eight months of 1973. The major change involved limitations placed on the quantity of surplus water which could be obtained without increasing the annual entitlement. This change was made to conform with the proposed surplus water amendment, then in the final negotiation stage.

The two-step scheduling procedure, initiated in 1973, was continued. Initially approved surplus water delivery schedules for the period January 1 through April 30, 1974, based on requests made prior to October 1, 1973, called for deliveries totaling 145,226 acre-

TABLE 3: WATER

(in acre-

Line No.	Contracting Agency and Type of Service	Month							
		Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.
FEATHER RIVER SERVICE AREA									
County of Butte:									
1.	Entitlement Water	15	2	36	1	36	0	6	15
Last Chance Creek Water District:									
2.	Regulated Delivery of Local Supply	0	0	0	0	454	5,262	4,542	3,612
Plumas County Flood Control & Water Cons. District:									
3.	Entitlement Water	39	43	45	40	78	70	82	95
Thermalito Irrigation District:									
4.	Regulated Delivery of Local Supply	0	0	0	0	0	35	112	101
5.	AREA TOTAL	54	45	81	41	568	5,367	4,742	3,823
NORTH BAY SERVICE AREA									
6.	Napa County Flood Control & Water Cons. District: Regulated Delivery of Local Supply	646	375	541	670	476	94	0	0
SOUTH BAY SERVICE AREA									
Alameda County Flood Control & Water Cons. Dist. Zone 7:									
7.	Entitlement Water	0	0	13	13	181	272	357	208
8.	Regulated Delivery of Local Supply	191	549	677	440	1,273	1,117	1,342	1,971
9.	Agency Total	191	549	690	453	1,454	1,389	1,699	2,179
Alameda County Water District:									
10.	Entitlement Water	0	0	0	0	0	0	0	3
11.	Regulated Delivery of Local Supply	0	0	0	0	0	0	0	252
12.	Agency Total	0	0	0	0	0	0	0	255
Santa Clara Valley Water District:									
13.	Entitlement Water	3,079	3,023	3,767	3,819	8,818	9,762	10,564	11,022
14.	Surplus Water	0	0	0	0	0	0	0	0
15.	Agency Total	3,079	3,023	3,767	3,819	8,818	9,762	10,564	11,022
16.	AREA TOTAL	3,270	3,572	4,457	4,272	10,272	11,151	12,263	13,456
SAN JOAQUIN VALLEY SERVICE AREA									
J. G. Boswell Company:									
17.	Repayment of Preconsolidation Water	998	499	290	713	0	0	0	0
Buena Vista Water Storage District:									
18.	Repayment of Preconsolidation Water	0	25	494	776	1,445	1,032	1,529	1,757
County of Kings:									
19.	Entitlement Water	165	165	165	15	0	165	165	165
Devil's Den Water District:									
20.	Entitlement Water	873	582	776	776	611	1,369	1,746	1,691
21.	Surplus Water	274	324	1,474	837	0	0	439	588
22.	Agency Total	1,147	906	2,250	1,613	611	1,369	2,185	2,279
Dudley Ridge Water District:									
23.	Entitlement Water	683	1,417	1,600	2,900	3,000	4,300	4,300	6,200
24.	Surplus Water	0	1,068	3,377	1,689	2,980	6,619	7,805	5,951
25.	Agency Total	683	2,485	4,977	4,589	5,980	10,919	12,105	12,151
Empire West Side Irrigation District:									
26.	Entitlement Water	0	40	200	400	0	171	540	540
27.	Surplus Water	0	0	379	25	0	0	551	321
28.	Agency Total	0	40	579	425	0	171	1,091	861
Green Valley Water District:									
29.	Surplus Water	0	0	0	0	150	390	526	675
Hacienda Water District:									
30.	Entitlement Water	0	350	250	74	0	0	595	355
31.	Surplus Water	0	500	205	0	0	0	149	0
32.	Agency Total	0	850	455	74	0	0	744	355
Kern County Water Agency:									
33.	Entitlement Water	5,886	29,296	26,371	21,836	36,943	53,992	64,619	65,780
34.	Surplus Water	4,455	15,026	28,502	18,127	26,595	53,789	66,896	50,311
35.	Agency Total	10,341	44,322	54,873	39,963	63,538	107,781	131,515	116,091
Oak Flat Water District:									
36.	Entitlement Water	0	0	250	575	500	575	575	668
37.	Surplus Water	0	395	249	176	801	733	552	463
38.	Agency Total	0	395	499	751	1,301	1,308	1,127	1,131
Tracy Golf and Country Club:									
39.	Surplus Water	0	0	0	0	0	0	0	0
Tulare Lake Basin Water Storage District:									
40.	Entitlement Water	3,297	4,503	2,077	1,927	7	2,250	11,600	13,000
41.	Surplus Water	0	3,321	0	0	0	0	7,209	13,052
42.	Agency Total	3,297	7,824	2,077	1,927	7	2,250	18,809	26,052
43.	AREA TOTAL	16,631	57,511	66,659	50,846	73,032	125,385	169,796	161,517
SOUTHERN CALIFORNIA SERVICE AREA									
Antelope Valley-East Kern Water Agency:									
44.	Entitlement Water	0	0	0	0	0	0	91	457
45.	Castaic Lake Water Agency	0	0	0	0	0	0	0	0
46.	Coachella Valley County Water District: Entitlement Water	544	492	505	564	544	525	544	544
47.	Crestline-Lake Arrowhead Water Agency: Entitlement Water	62	43	33	21	43	52	81	78
48.	Desert Water Agency: Entitlement Water	1,110	1,110	1,025	1,195	1,110	1,110	1,110	1,110
Littlerock Creek Irrigation District:									
49.	Entitlement Water	0	0	0	0	0	0	133	267
50.	Surplus Water	0	0	0	0	0	0	6	4
51.	Agency Total	0	0	0	0	0	0	139	271
52.	Mojave Water Agency	0	0	0	0	0	0	0	0
53.	Palmdale Water District	0	0	0	0	0	0	0	0
San Bernardino Valley Municipal Water District:									
54.	Entitlement Water	3,532	4,233	3,617	1,077	22	669	736	740
55.	San Gabriel Valley Municipal Water District Entitlement Water	0	0	0	0	0	0	0	0
56.	The Metropolitan Water District of Southern California: Entitlement Water	10,491	17,028	10,640	13,357	19,842	21,765	27,597	27,802
57.	AREA TOTAL	15,739	22,906	15,820	16,214	21,561	24,119	30,298	31,002
ALL AGENCIES:									
58.	Entitlement Water	29,776	62,327	51,370	48,590	71,735	97,045	125,441	130,740
59.	Surplus Water	4,729	20,634	34,186	20,854	30,526	61,531	84,133	71,365
60.	Total, Project Water	34,505	82,961	85,556	69,444	102,261	158,576	209,574	202,105
61.	Regulated Delivery of Local Supply	837	924	1,218	1,110	2,203	6,508	5,996	5,936
62.	Repayment of Preconsolidation Water	998	524	784	1,489	1,445	1,032	1,529	1,757
63.	TOTAL WATER	36,340	84,409	87,558	72,043	105,909	166,116	217,099	209,798

a) Repayment of Preconsolidation water.

DELIVERIES IN 1974

feet)

Month					1974 Contract Entitlement	1974 Entitlement Not Delivered	Net Cumulative Entitlement Not Delivered thru		Net Entitlement Credits Under "Wet Weather" Provisions As of January 1, 1975		Line No.	
Sep.	Oct.	Nov.	Dec.	Total			1973	1974	Deferred Delivery	Future Reductions		
	3	5	0	8	127	700	573	2,169	2,742	-	-	1.
	1,693	199	232	96	16,090	-	-	-	-	-	-	2.
	72	43	22	19	648	530	0	912	794	-	-	3.
	89	56	0	0	393	-	-	-	-	-	-	4.
	1,857	303	254	123	17,258	1,230	573	3,081	3,536	-	-	5.
	48	713	662	645	4,870	-	-	-	-	-	-	6.
	63	70	108	29	1,314	14,800	13,486	21,802	35,288	33,992	0	7.
	1,635	1,670	914	1,323	13,102							8.
	1,698	1,740	1,022	1,352	14,416							9.
	0	0	0	1	4	19,600	19,596	58,388	77,984	62,856	0	10.
	62	240	350	525	1,429							11.
	62	240	350	526	1,433							12.
	10,701	10,786	8,152	4,507	88,000	88,000	0	38,714	38,714	2,455	0	13.
	0	0	0	2,934	2,934							14.
	10,701	10,786	8,152	7,441	90,934							15.
	12,461	12,766	9,524	9,319	106,783	122,400	33,082	118,904	151,986	99,303	0	16.
	0	0	0	0	2,500	-	-	-	-	92,087 ^(a)	-	17.
	782	0	0	0	7,840	-	-	-	-	66,724 ^(a)	-	18.
	165	165	0	165	1,500	1,500	0	0	0	0	0	19.
	243	300	0	733	9,700	9,700	0	0	0	-	-	20.
	0	0	0	192	4,128							21.
	243	300	0	925	13,828							22.
	4,620	1,600	1,686	1,084	33,390	33,390	0	0	0	-	-	23.
	496	1,469	853	1,084	33,391							24.
	5,116	3,069	2,539	2,168	66,781							25.
	131	101	649	228	3,000	3,000	0	0	0	0	0	26.
	0	0	0	263	1,539							27.
	131	101	649	491	4,539							28.
	0	0	0	0	1,741	-	-	-	-	-	-	29.
	590	1,086	0	0	3,300	3,300	0	0	0	0	0	30.
	410	708	0	0	1,972							31.
	1,000	1,794	0	0	5,272							32.
	23,088	9,544	7,312	2,333	347,000	347,000	0	0	0	-	-	33.
	14,001	4,102	6,784	10,845	299,433							34.
	37,089	13,646	14,096	13,178	646,433							35.
	247	30	40	11	3,471	3,471	0	0	0	0	2,466	36.
	21	30	41	10	3,471							37.
	268	60	81	21	6,942							38.
	5	6	0	0	11	-	-	-	-	-	-	39.
	4,339	12,200	3,000	10,789	68,989	68,989	0	0	0	0	74,852	40.
	13,915	9,415	9,920	12,157	68,989							41.
	18,254	21,615	12,920	22,946	137,978							42.
	63,053	40,756	30,285	39,894	895,365	470,350	0	0	0	0	77,318	43.
	373	116	189	33	1,259	30,000	28,741	44,927	73,668	-	-	44.
	0	9	0	0	0	5,700	5,700	4,936	10,636	-	-	45.
	525	544	525	544	6,400	6,400	0	5,200	5,200	-	-	46.
	80	50	42	42	627	1,160	533	471	1,004	-	-	47.
	1,110	10	0	0	10,000	10,000	0	8,000	8,000	-	-	48.
	0	0	0	0	400	400	0	0	0	-	-	49.
	0	36	21	0	67							50.
	0	36	21	0	467							51.
	4	10	0	0	14	13,100	13,086	19,045	32,131	-	-	52.
	0	0	0	0	0	4,260	4,260	4,560	8,820	-	-	53.
	673	303	359	644	16,605	50,000	33,395	15,976	49,371	-	-	54.
	0	0	0	612	612	12,300	11,688	11,622	23,310	-	-	55.
	22,027	41,415	40,440	25,313	277,715	454,900	177,185	277,551	454,736	-	-	56.
	24,792	42,484	41,576	27,188	313,699	588,220	274,588	392,288	666,876	-	-	57.
	69,054	78,378	62,524	47,095	874,075	1,182,200	308,243	514,273	822,398	99,303	0	58.
	28,848	15,766	17,619	27,485	417,676							59.
	97,902	94,144	80,143	74,580	1,291,751							60.
	3,527	2,878	2,158	2,589	35,884							61.
	782	0	0	0	10,340					158,811		62.
	102,211	97,022	82,301	77,169	1,337,975	1,182,200	308,243	514,273	822,398	258,114	77,318	63.

feet. Due to above-normal precipitation during this period, only about 55 percent of the initially scheduled surplus water was delivered to seven long-term contractors. Approved surplus water delivery schedules for the last eight months of 1974, issued on about May 1, 1974, called for total deliveries of 388,760 acre-feet. During the eight-month period, 337,273 acre-feet of surplus water were delivered, about 87 percent of the initially scheduled total, to nine long-term contractors and two noncontractors.

Project Water Delivery Plans

On about October 1, 1974, long-term contractors submitted projections of water needs during the seven-year period of 1975 through 1981. The seven-year projections resulted from a change in past procedure wherein projections covered a six-year period. Contractor comments on the change in procedure indicated there were no serious objections to providing the seventh year of data since it would be beneficial to the Department's power studies. Shown below is a comparison of the latest projected entitlement water requirements with those submitted in previous years:

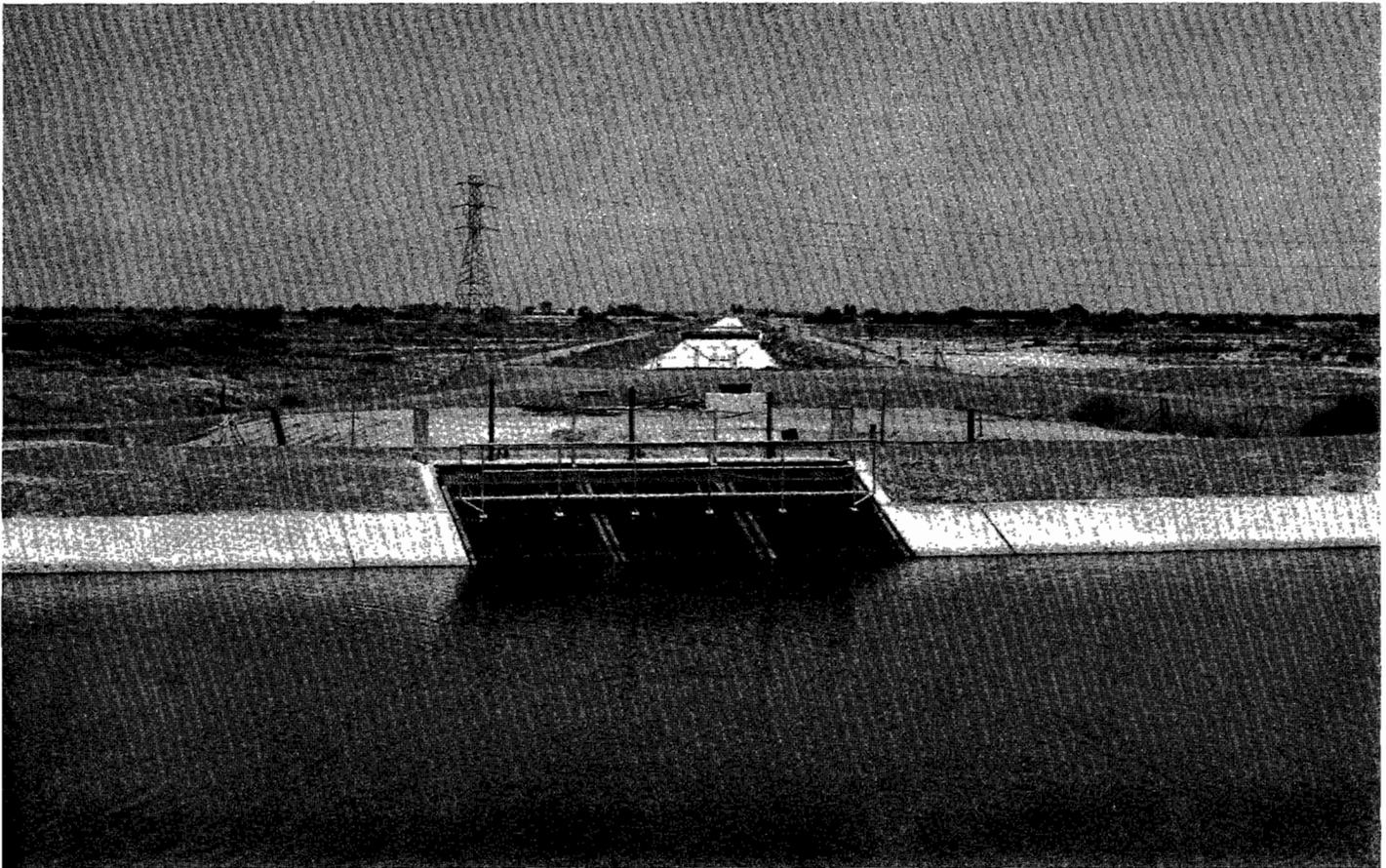
Approved schedules issued December 1, 1974, included surplus water deliveries totaling 163,422 acre-feet to eight of the long-term contractors during the first four months of 1975. Schedules issued to nine long-term contractors also showed tentative approval of surplus water deliveries during the last eight months of the year, totaling 408,346 acre-feet. The tentative surplus water schedules are subject to review and revision during April, and approved schedules for the eight-month period will be issued May 1, 1975. No surplus water schedules were issued to noncontractors, although two agencies indicated they expected to contract with the State for surplus water in 1975.

Surplus water service during 1975 will be provided under the same provisions as 1974 service. Rather than issue new contracts, the nine long-term contractors scheduled to receive surplus water in 1975 were asked to approve a one-year extension of their 1974 surplus water contracts. Agreements to the extension were received from the nine contractors prior to the issuance of the approved 1975 monthly delivery schedules on about December 1, 1974.

Projections Submitted October 1 of:	For Delivery of Entitlement Water During:						
	1975	1976	1977	1978	1979	1980	1981
	(acre-feet)						
1974	1,242,710	1,415,252	1,616,572	1,794,222	1,925,483	2,022,548	2,112,251(a)
1973	1,218,975	1,457,615	1,692,725	1,776,735	1,864,075		
1972	1,283,915	1,459,955	1,576,936	1,683,016			
1971	1,160,750	1,321,730	1,480,251				
1970	1,010,630	1,128,815					
1969	1,112,320						
Contracts							
Amount	1,311,260	1,488,870	1,667,321	1,845,872	2,021,553	2,230,874	2,426,805

a) Seven-year requests were submitted October 1, 1974, for the first time.

The comparison shows projected requirements submitted October 1, 1974, although still less than the total contract amounts, are greater than initially projected requirements for each of the years 1975 through 1979. On about December 1, 1974, approved schedules calling for 1975 entitlement water deliveries totaling 1,287,960 acre-feet were sent to 21 long-term contractors.



Greater Bakersfield Turnout near Tupman

The 1973 and the extended 1974 surplus water contracts as well as the surplus water amendment, now executed by all long-term contractors utilizing surplus water, provide that a contractor may commit itself to guarantee payment of the cost of power capacity ordered to pump surplus water deliveries beyond the current year. The obligation becomes effective at the time the Department makes a commitment for such power. In 1973 and 1974 the following contractors committed themselves to pay the cost of power capacity required to pump the amounts of surplus water indicated below:

After consultation with contractors requesting surplus water, the State made commitments to purchase power estimated to be needed to deliver 637,237 acre-feet of surplus water in 1979 and 814,700 acre-feet in 1980 to the agencies shown in the above tabulation. Commitment to pay costs of such power does not result in any greater right or priority to receive surplus water in the event there is not sufficient water available to meet requests for surplus water from all contractors.

Contracting Agency	Year of Obligation:					
	1975	1976	1977	1978	1979	1980
	(acre-feet)					
Dudley Ridge WD					23,100	39,100
Hacienda WD	3,600	3,900	4,200	4,600	4,900 ^a	5,200
Kern County WA	404,152	469,902	438,837	469,087	462,137	554,900
Santa Clara Valley WD	12,000	12,000	12,000	12,000	12,000	12,000
Tulare Lake Basin WSD					140,000	203,500
TOTAL	419,752	485,802	455,037	485,687	642,137	814,700

a) Commitment not made for power to pump this amount.

Contract Amendments

As of December 31, 1974, a total of 281 amendments to the long-term contracts had been executed. The amendments to each contract are summarized in Figure 7 by subject and amendment number. The following 21 amendments were executed during 1974:

An amendment which increased the 1973 entitlement for Tulare Lake Basin Water Storage District from 39,100 acre-feet to 40,652 acre-feet (see page 31, Bulletin 132-74).

An amendment, submitted to all contractors which realigns and simplifies the surplus water provisions (see pages 31-32, Bulletin 132-74) executed by the following 20 contractors: Alameda County Flood Control and Water Conservation District, Zone 7, Antelope Valley-East Kern Water Agency, Castaic Lake Water Agency, Coachella Valley County Water District, County of Kings, Crestline-Lake Arrowhead Water Agency, Desert Water Agency, Devil's Den Water District, Dudley Ridge Water District, Empire West Side Irrigation District, Hacienda Water District, Kern County Water Agency, Littlerock Creek Irrigation District, Oak Flat Water District, Palmdale Water District, Plumas County Flood Control and Water Conservation District, Santa Barbara County Flood Control and Water Conservation District, Santa Clara Valley Water District, Solano County Flood Control and Water Conservation District, and Tulare Lake Basin Water Storage District.

Amendments pending as of December 31, 1974, included the following:

An amendment to contracts with City of Yuba City and County of Butte concerning the calculation of the Delta Water Charge and the project interest rate.

An amendment to the contract with Solano County Flood Control and Water Conservation District concerning the calculation of the Delta Water Charge.

An amendment to contracts with City of Yuba City and Solano County Flood Control and Water Conservation District which deletes the surcharge, surcharge credit, and power credit provisions.

Amendments to 11 contracts to realign and simplify the surplus water provisions: Alameda County Water District, City of Yuba City, County of Butte, Mojave Water Agency, Napa County Flood Control and Water Conservation District, San Bernardino Valley Municipal Water District, San Gabriel Valley Municipal Water District, San Geronimo Pass Water Agency, San Luis Obispo

County Flood Control and Water Conservation District, The Metropolitan Water District of Southern California, and Ventura County Flood Control District.

Deferred Delivery Amendment. The deferred delivery amendment would provide contractors with the right to later delivery of entitlement water paid for but not received. Eight contractors have a provision in their contracts which gives them such a right, if delivery is deferred because of above-average local water supplies. The proposed amendment, which would be available to all contractors, would give the right to later delivery or an option of obtaining a monetary rather than delivery credit no matter what the reason for deferral. During 1974, discussions continued regarding the content and application of this proposed amendment.

Negotiation of Water Charge Settlements

The task force consisting of representatives of the State Water Contractors Audit Committee, The Metropolitan Water District of Southern California, and the Department's Water Service Contract Cost Negotiation Committee continued its discussions and negotiations during 1974.

During 1973, a proposed settlement of the protested 1969 and 1970 capital costs was negotiated (see page 32, Bulletin 132-74). A letter setting forth the proposed settlement was sent to each of the long-term contractors on June 26, 1974, for approval. By year's end the settlement letter had been approved by all but two of the contractors; namely, City of Yuba City and Mojave Water Agency.

A number of issues regarding water service charges have not yet been resolved. By Water Service Contractors Council Memo No. 917, September 23, 1974, contractors were notified that they will have until December 21, 1975, to file notices of contests and to pursue all remedies available to them on statements of charges submitted prior to such date excepting charge settlements negotiated by the task force which are covered in the eight settlement letters and the concurrence letter previously issued.

The task force continues to consider two of the issues: the allocation of power costs and rights to obtain deferred deliveries or credits for undelivered entitlement water. Most of the work on these issues is being carried out by technical subcommittees; therefore, meetings of the entire task force have been infrequent.

Figure 7: WATER SUPPLY CONTRACT AMENDMENTS AS OF DECEMBER 31, 1974

Contracting Agency	Minimum Project Yield Increased	Delta Water Charge, "Eel" Costs Delayed			Project Interest Rate Modified	Surcharge and Surcharge Credit Provisions					"Wet Weather" Provisions Added	"A & R" Surplus Water Provisions		Turnout Construction by Agency	Peaking Service		Annual Entitlements Revised	Excess Capacity Purchased	Article 28 Revised	Special Conditions	
		1970	1971	1972 till construction		Added	Revised	Moratorium Declared				Deleted	Added		Revised	Increased					Decreased
								Thru 1969	1970	1971											
FEATHER RIVER AREA																					
City of Yuba City	1	2P	2P	2P	2P	1					3P		1				1		NA		
County of Butte	1	3P	3P	3P	3P	1	2		4	5			1						NA		
Plumas County Flood Control and Water Conservation District	1	3	5	6	3	1	2	4	7	8			10						9		
NORTH BAY AREA																					
Napa County Flood Control and Water Conservation District	1	3	4	5	3	1					6		1							1,2	
Solano County Flood Control and Water Conservation District	1	2	3P	3P	2	1					4P		1,5	1							
SOUTH BAY AREA																					
Alameda County Flood Control and Water Conservation District, Zone 7	2	6	8	9	6	2	5	7	10	11		1	2,12	3			1,4			1	
Alameda County Water District	1	4	5	7	4	1	3		8	9		S	1	2					10	1,6	
Santa Clara Valley Water District	2	6	8	10	6	2	5	7	11	12		1	1 2,14	3			1,4		13	1,9	
SAN JOAQUIN VALLEY AREA																					
County of Kings		2	3	4	2		1		5	6		S	S 8							7	
Devil's Den Water District	1	5	7	8	5		4	6	9	10			1,12				1,3		11	2	
Dudley Ridge Water District	1	6	8	9	6		5	7	10	11			1,13				1,2 3,4		12		
Empire West Side Irrigation District	1	4	6	7	4		3	5	8	9		S	1,11				2		10		
Hacienda Water District	1	4	6	7	4		3	5	8	9		S	1,11				2		10	7	
Kern County Water Agency	1	4	6	8	4		3	5	9	10			1,12				1,2		11	7	
Oak Flat Water District		3	5	6	3		2	4	7	9		S	S 11	1			8		10		
Tulare Lake Basin Water Storage District	2	5	6	7	5		4		8	10		S	2,13				1,3,9 12		11		
CENTRAL COASTAL AREA																					
San Luis Obispo County Flood Control and Water Conservation District	2	3	4	5	3	1	2				6		1 2							7	
Santa Barbara County Flood Control and Water Conservation District	2	3	4	5	3	1	2				6		1 2,7				2				
SOUTHERN CALIFORNIA AREA																					
Antelope Valley-East Kern Water Agency	1	5	6	7	5	1					8		1 10	3	2	1	4		9	2,3 4	
Castaic Lake Water Agency	2	4	5	6	4	1	2				7		1 2,10	2		2,3 9			8		
Coachella Valley County Water District	2	3	4	5	3	1	2				6		1 2,8			2			7		
Crestline-Lake Arrowhead Water Agency	2	5	6	7	5	1	2				8		1 2,11	4	3	2,10			9		
Desert Water Agency	2	3	4	5	3	1	2				6		1 2,8			2			7		
Littlerock Creek Irrigation District	2	3	4	5	3	1	2				6		1 2,7			2					
Mojave Water Agency	2	4	5	6	4	1	2				7		1 2		3	2			8	3	
Palmdale Water District	2	3	4	5	3	1	2				6		1 2,8			2			7		
San Bernardino Valley Municipal Water District	2	4	5	6	4	1	2				7		1 2			1,2 3,9			8		
San Gabriel Valley Municipal Water District	2	4	5	6	4	1	2				7		1 2	2		2,9	3		8		
San Geronimo Pass Water Agency	2	4	5	6	4	1	2				7		1 2	2						2,3	
The Metropolitan Water District of Southern California	1	9	10	11	9	1					13		1			1,3 8V,15	2,6 7		14	(a	
Ventura County Flood Control District	1	2	3	4	2	1					5		1						6		

P = Pending as of December 31, 1974
S = Special provisions of basic contract.

V = Amendment voided by subsequent actions.
a) Amendment Numbers 2, 3, 4, 5, 7, 8V, 12.

1975-76 Budget Review

The Department's proposed 1975-76 State Water Project expenditures were presented to the contractors through the California Water Commission for review and comment. This is done annually in accordance with procedures established in 1968 for the purpose of reducing the number of cost items which might be contested by the contractors (see pages 27-28, Bulletin 132-69).

Questions raised by the contractors concerning the proposed 1975-76 budget involved relatively small amounts of money within the total budget of the State Water Project. The questions essentially concerned the chargeability of certain budget items to the water contractors. The Commission attributed many of the questions to confusion in understanding the complexities of the Department's Budget System and urged the Department to continue its efforts to clarify these questions. The Metropolitan Water District of Southern California stated that any remaining questions it might have will be pursued through regular channels.

The California Water Commission Budget Review Committee recommended that the Department continue with a Middle Fork Eel River planning program. It recommended a program of sufficient scope that alternative water developments will have been evaluated at the end of the 12-year period established in the Wild Rivers legislation.

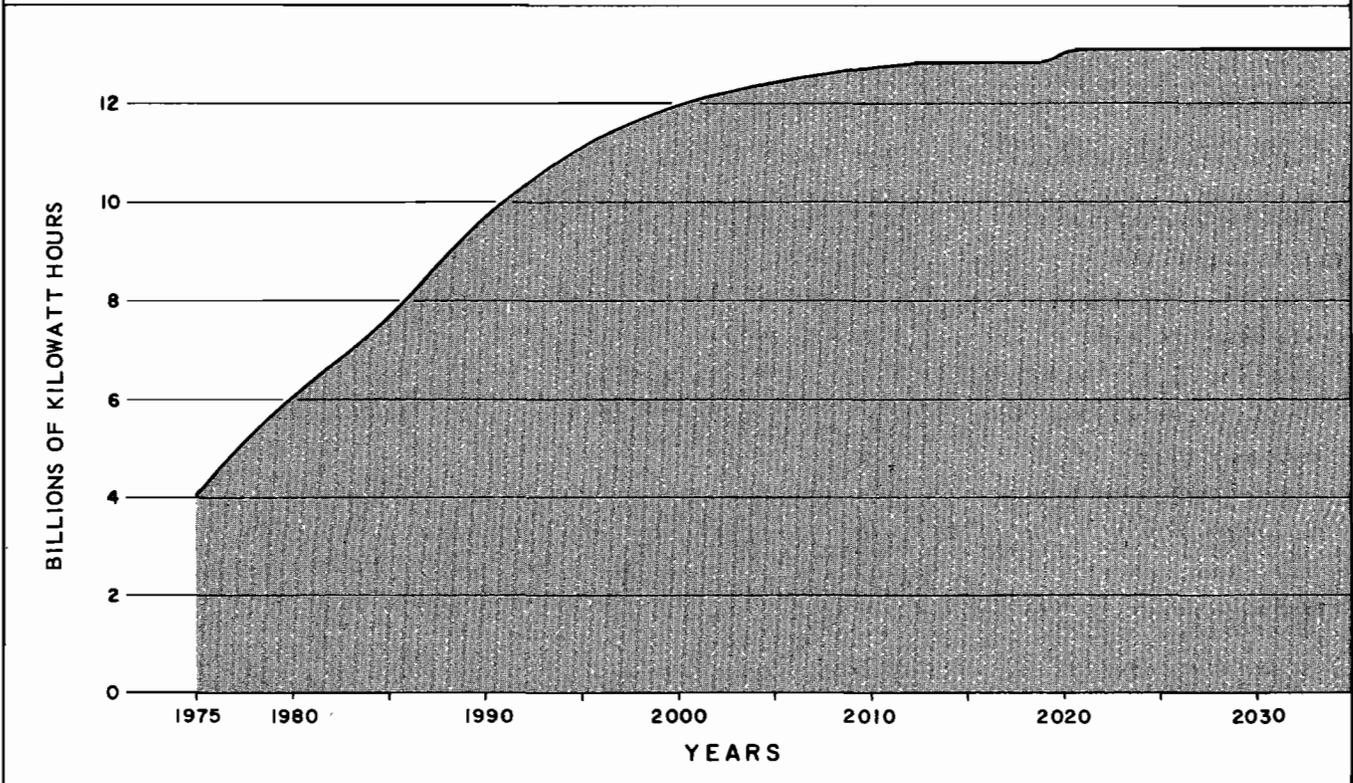
Power Contracts Management

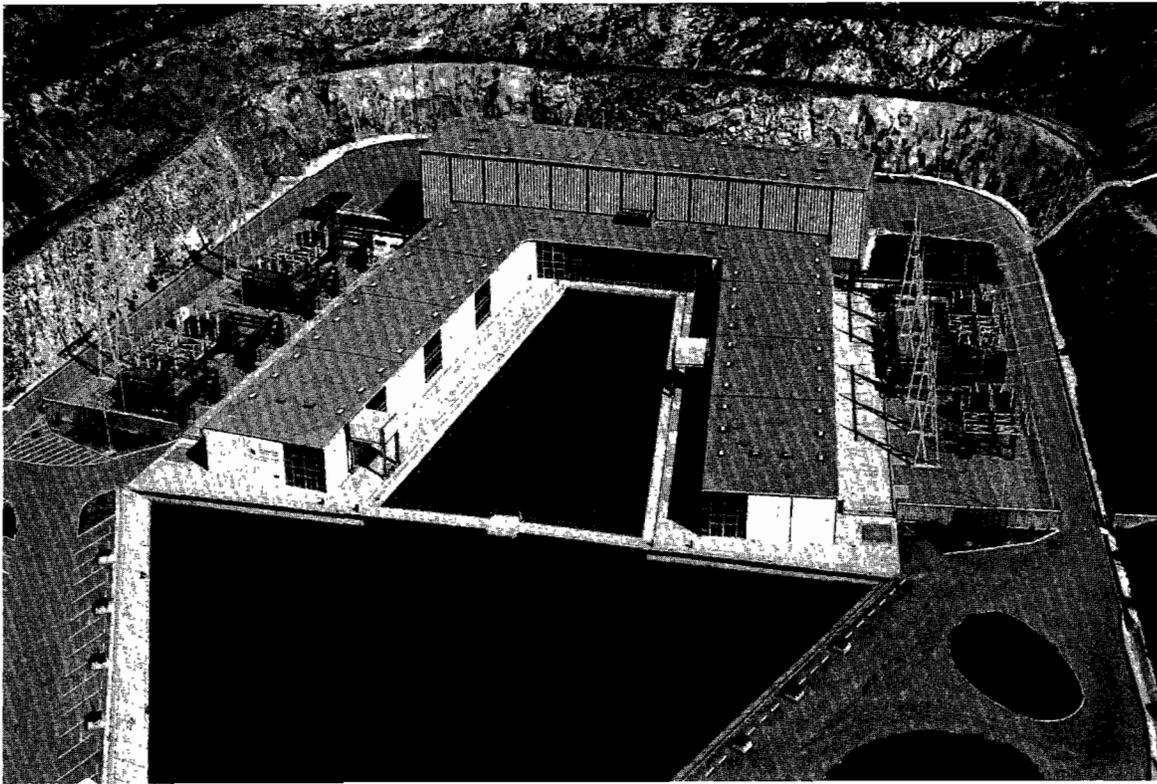
Actual and projected annual energy requirements by project pumping plants and generation by project recovery plants (excluding Hyatt (Oroville)-Thermalito power production) are shown in Table 4. Quantities for the 1975 through 1980 period are based on entitlement water delivery requests submitted by the water contractors on October 1, 1974. Quantities beyond 1980 reflect the buildup in entitlement water deliveries anticipated by water contractors. Table 4 does not include power ordered for surplus water; however, a commitment to purchase power for this purpose has been made (see section entitled "Project Water Delivery Plans").

Table 4 indicates that the total annual energy requirements will be about 13 billion kilowatthours when ultimate project water deliveries are made. Approximately 29 percent of the energy requirements will be met from project recovery generation. The remaining energy requirements must be obtained from other sources.

Figure 8 indicates the projected annual pumping energy requirements of the Project. Project operation during off-peak periods will be maximized to the extent possible to minimize power costs while recovery plant generation will be operated during on-peak periods to maximize power benefits. Off-peak periods are between 10 p.m. to 7 a.m. on weekdays, between 10 p.m. Friday and 1 p.m. Saturday, and from

Figure 8: PROJECTED PUMPING ENERGY REQUIREMENTS





A. D. Edmonston
Pumping Plant

10 p.m. Saturday to 7 a.m. Monday. The remaining periods are on-peak.

During 1974 work continued under the long-range power program to assess alternative future power sources for the operation of the State Water Project. The major objective of this program is to assure that adequate economic sources of power are available to meet project pumping requirements.

About nine years ago the Department completed the negotiation of the basic power supply and transmission service contracts which provide power resources for the operation of the State Water Project. However, the rates under which the California Suppliers—Pacific Gas and Electric Company (PG&E), Southern California Edison Company (SCE), San Diego Gas & Electric Company (SDG&E), and the Los Angeles Department of Water and Power (LADWP)—provide capacity and energy for the Project must be renegotiated by 1978 to become effective in 1983.

In addition, the 300 megawatts of Canadian Entitlement power purchased by the Department decreases to 150 MW in 1978 and to zero in 1983. However, since the Department's rights to use up to 300 MW of transmission capacity on the extra high voltage intertie extends to 2005, major efforts were made during 1974 to investigate other possible resources in the Pacific Northwest. Meetings were held with representatives of the Bonneville Power Administration, Grant County Public Utility District, and the Washington Public Power Supply System to discuss possible arrangements to obtain power from thermal and other developments in the Pacific Northwest.

Some of the possible sources of electric energy for the State Water Project beginning in 1983 which are being investigated under the Department's Long-Range Power Program include:

- Project Recovery Plants: San Luis, Devil Canyon, Castaic, Pyramid, Cottonwood.
- Hyatt-Thermalito (Oroville) Power.
- Bonneville Power Administration Surplus Energy.
- Future hydroelectric plants in California.
- Power from Pacific Northwest.
- Installation of additional units at existing dams in California.
- Geothermal plants in California.
- Purchases from California Suppliers (PG&E, SCE, SDG&E, LADWP).
- Coal-fired plants in neighboring states.
- Thermal plants in California (a) nuclear (b) oil and gas (c) other.
- New generating methods to develop solar, wind, etc., energy potential.

In 1974 the Department continued its assessment of the San Joaquin Nuclear Project as an alternate source of power. The project manager is Los Angeles Department of Water and Power. A draft of a participation agreement has been developed which would provide for sharing the costs and output of the Project. Additionally, discussions began with Sacramento Municipal Utility District for possible participation in a proposed second unit at their Rancho

TABLE 4: ANNUAL PROJECT ENERGY

(in millions of

Calendar Year	Energy											
	North Bay Aqueduct Pumping Plants		Peripheral Canal Pumping Plant	South Bay Aqueduct Pumping Plants (b)	California Aqueduct							
	Calhoun and Travis	Cor-delia (a)			Delta	San Luis	Dos Amigos	Buena Vista	Wheeler Ridge	Wind Gap	A. D. Edmon-ston (Teha-chapi)	Pear-blossom
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Subtotal, Actual for 13 years, 1962-1974 ^(d)	0	12	0	722	2,097	800	666	457	372	771	2,702	262
1975	0	3	0	109	473	34	188	230	245	503	1,808	203
1976	0	1	0	115	544	77	228	265	286	592	2,119	319
1977	0	1	0	117	520	123	238	270	289	597	2,135	414
1978	0	1	0	119	625	113	268	312	335	693	2,470	504
1979	0	2	0	120	629	101	279	319	341	705	2,509	526
1980	2	2	0	122	691	171	304	345	368	760	2,707	556
1981	2	2	0	124	715	101	313	349	371	765	2,707	560
1982	2	2	0	126	756	166	335	375	398	819	2,897	579
1983	2	2	0	128	802	242	355	397	420	863	3,048	587
1984	2	2	0	130	807	155	370	413	434	892	3,132	598
1985	2	2	48	132	872	232	388	429	451	924	3,239	575
10 years, 1976-1985	12	17	48	1,233	6,961	1,481	3,078	3,474	3,693	7,610	26,963	5,218
10 years, 1986-1995	57	25	592	1,465	10,964	2,480	4,925	5,666	5,971	12,269	42,876	6,137
10 years, 1996-2005	70	35	670	1,630	12,668	2,676	5,731	6,908	7,367	15,208	53,398	6,233
10 years, 2006-2015	77	53	703	1,675	13,343	2,818	6,023	7,378	7,907	16,344	57,521	6,257
10 years, 2016-2025	81	112	811	1,680	13,494	3,002	6,060	7,442	7,962	17,140	58,638	6,390
10 years, 2026-2035	80	140	880	1,680	13,550	3,130	6,070	7,460	7,970	17,610	59,160	6,470

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.

REQUIREMENTS FOR PUMPING

kilowatthours)

Requirements				Energy Generation							Net Energy Requirements	Calendar Year
Pumping Plants				California Aqueduct Power Plants								
Oso	Las Perillas and Badger Hill	Devil's Den, Sawtooth, and Polonio	Total	San Luis	Devil Canyon	Castaic (c)	San Luis Obispo	Cottonwood	Pyramid	Total	Col. (16) minus Col. (23)	
(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	
228	192	0	9,281	296	342	517	0	0	0	1,155	8,126	13 years, 1962-1974
148	24	0	3,968	1	316	463	0	0	0	780	3,188	1975
140	27	0	4,713	82	494	458	0	0	0	1,034	3,679	1976
93	23	0	4,820	123	676	301	0	0	0	1,100	3,720	1977
97	25	0	5,562	150	812	315	0	0	0	1,277	4,285	1978
92	25	0	5,648	152	834	296	0	0	0	1,282	4,366	1979
104	27	0	6,159	165	887	337	0	0	0	1,389	4,770	1980
101	29	0	6,139	171	885	327	0	0	72	1,455	4,684	1981
117	31	10	6,613	140	914	380	1	0	234	1,669	4,944	1982
132	32	12	7,022	152	918	429	1	100	265	1,865	5,157	1983
137	33	15	7,120	141	926	447	1	102	276	1,893	5,227	1984
158	39	55	7,546	166	895	518	10	99	320	2,008	5,538	1985
1,171	291	92	61,342	1,442	8,241	3,908	13	301	1,167	14,972	46,370	10 years, 1976-1985
2,711	472	975	97,585	1,575	9,325	8,891	180	1,076	5,546	26,593	70,992	10 years 1986-1995
3,949	556	1,594	118,693	1,492	9,417	12,852	291	1,127	8,112	33,291	85,402	10 years, 1995-2005
4,463	600	1,930	127,092	1,527	9,082	14,443	350	1,133	9,184	35,719	91,373	10 years, 2006-2015
4,475	696	1,930	129,913	1,638	9,514	14,566	386	1,143	9,711	36,958	92,955	10 years, 2016-2025
4,460	760	1,930	131,350	1,700	10,030	14,570	410	1,150	10,010	37,870	93,480	10 years, 2026-2035

c) 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.

d) 1974 and thereafter -- entitlement deliveries only.

Seco Nuclear Plant and with San Diego Gas and Electric Company for participation in their proposed Sun Desert Nuclear Project.

The Department is in the final stages of negotiating contracts for a cooperative program to study the feasibility of using agricultural waste water for power plant cooling. The University of California, under a Department-University agreement, will conduct development studies and will construct and assemble the test equipment. The field test program will be conducted by staff members of the Department in consultation with the University. The costs and benefits of the test program are expected to be shared equally by the Pacific Gas and Electric Company, Southern California Edison Company, the Los Angeles Department of Water and Power, the Electric Power Research Institute, and the Department.

The Department continues to participate in the Western Systems Coordinating Council. This activity provides information on the coordinated operation of over 40 electric utility systems in western United States and Canada. Information is also obtained concerning the utilities' long-range construction programs in order to meet future electrical load growth in their service areas. This participation provides an important source of information in respect to future power sources and transmission facilities.

The Department continues to negotiate with the California Suppliers for a supplemental power supply to meet the short-term needs of the Project, including power for pumping surplus water. In addition, the Department is engaged in discussions with California utilities concerning energy conservation and mutual cooperation to maximize the project power potential.

During 1974 a letter agreement was completed with the California Power Pool Companies on a procedure to draw down Lake Oroville because of the need to repair the intake trashracks at Hyatt (Oroville) Powerplant and to modify the computer study

determination of gross energy generation to reflect the drawdown and refill operation. In addition, agreement was reached with the companies on equipment performance factors to be used in the computer energy studies.

The Edward Hyatt (Oroville) and Thermalito Powerplants have a combined capacity of approximately 900,000 kilowatts and energy generation has averaged 2.9 billion kilowatthours annually for the first five years of operation (1970-1974). 1974 was a record year with over 4 billion kilowatthours generated because of record water inflows to Lake Oroville and because the Lake was drawn down to permit work on the intake structure.

All of the power is presently sold under a contract to three electric utility companies (PG&E SCE SDG&E) to support the issuance of \$245,000,000 of revenue bonds, for a guaranteed payment of \$16,150,000 per year plus a credit or debit adjustment to an energy account determined by an annual theoretical computer program energy study based on Lake Oroville inflows. The energy adjustment is the amount by which the theoretical energy is more or less than 2.1 billion kilowatthours. In 1974 this additional amount was 2.76 billion kilowatthours, of which 1.27 billion kilowatthours was paid for by the companies for \$3.3 million and the balance of 1.49 billion kilowatthours entered into the energy account which as of December 31, 1974, contained 4.9 billion kilowatthours worth \$12.6 million. The State provides the companies with schedules of mandatory water releases from Lake Oroville and of additional water available for scheduling by the companies to produce power.

The contract for Hyatt (Oroville)-Thermalito power provides that the power can be withdrawn by the Department on five years' advance notice. It is presently envisioned that commencing in 1983 the power will be either withdrawn to meet a portion of the project pumping requirements or sold at renegotiated higher rates.

CHAPTER IV. PROJECT OPERATIONS, PROJECT VISITOR USE, AND RECREATION AND FISH AND WILDLIFE ACTIVITIES

Project Operations

Water Conditions

The 1973-74 water year (October 1, 1973 thru September 30, 1974) can be classed as above normal for most of California. Precipitation averaged 130 percent of normal over the State, compared with 115 percent of normal the year before. Only the southern portion of California, south of the Tehachapis, received less than normal amounts. Heavy tropical storms in January and late March brought floods to the Eel River, Upper Sacramento, and Russian River areas. Spring and summer snowmelt runoff into the Central Valley ranged from 115 percent of normal on the Tule River to 150 percent of normal in the Sacramento River headwater areas.

Because of the above-normal precipitation and runoff and the fact that the carryover storage in California reservoirs was 120 percent of normal (10 percent higher than the previous year), the Project entered the 1974-75 water year with excellent prospects for meeting statewide water commitments in the coming year. Details of water supply conditions

during the 1973-74 water year are available in DWR Bulletin 120-74, "Summary of Water Conditions in California".

Water Deliveries

Despite above-normal water conditions during 1974, water deliveries to state water contractors totaled 1,337,975 acre-feet. This is a 30 percent increase over deliveries made in 1973, which also had above-normal water conditions. The year 1974 was the third consecutive year that state water contractors have received over one million acre-feet from the Project.

Water deliveries to U. S. Bureau of Reclamation customers from the joint facilities exceeded one million acre-feet for the first time in project history. Bureau's 1974 water deliveries were 1,121,747 acre-feet, up 33 percent from 1973 deliveries.

Except for the San Francisco Bay area, water deliveries to project water contractors in all service areas during 1974 were above those made in 1973.

The quantitative benefits of project operations through 1974 are summarized in the tabulation below:

State Water Project Benefits Through 1974

Year	Water Delivered (acre-feet) ^(a)			Recreation Supported (Recreation days) ^(b)	Electrical Energy Generated (megawatt-hours)
	Municipal and Industrial Use	Agricultural Use	Total		
1962	4,594	13,695	18,289	30,000	--
1963	6,686	15,770	22,456	105,000	--
1964	11,293	21,214	32,507	331,600	--
1965	17,642	26,463	44,105	499,800	--
1966	27,529	40,399	67,928	482,700	--
1967	28,736	36,407	65,143	455,200	--
1968	52,686	255,334	308,020	931,300	628,000
1969	40,123	244,123	284,246	1,554,800	2,614,000
1970	61,915	343,182	405,097	1,804,800	2,679,000
1971	103,550	593,928	697,478	2,085,900	3,302,000
1972	207,702	894,701	1,102,403	1,971,200	1,922,000
1973	309,144	724,243	1,033,387	2,502,000	3,298,000
1974	440,700	897,275	1,337,975	3,990,600	4,672,000
TOTAL^(c)	1,312,300	4,106,734	5,419,034	16,744,900	19,115,000

a) An acre-foot of water (325,851 gallons) will cover one acre of land to a depth of one foot.

b) A recreation day is the visit of one person to a recreation area for any part of one day.

c) In addition, dams of the State Water Project have prevented millions of dollars worth of flood damage, the most notable to date being an estimated \$30,000,000 by operation of partially completed Oroville Dam during the storm of December 1964 and January 1965.

Table 5 shows summary data on the quality of water delivered during 1974 as measured at selective stations. Also shown at the bottom of Table 5, are the corresponding monthly average objectives for maximum concentrations of constituents as set forth in long-term water supply contracts. (Note that the mineral analyses are based on a laboratory determination from one "grab" sample each month, while the objectives are stated in terms of average conditions within a month.)

Figure 9 presents a pictorial summary of project water operations during 1974. Also shown on Figure 9 is the areal extent of each of the Project's five field

divisions which have the responsibility for operations and maintenance activities. Selective activities during 1974 within each field division, are described in the following sections, together with maps of project facilities and water contracting agencies.

Table 3 (Chapter III) presents the monthly amounts delivered during 1974 to each contracting agency.

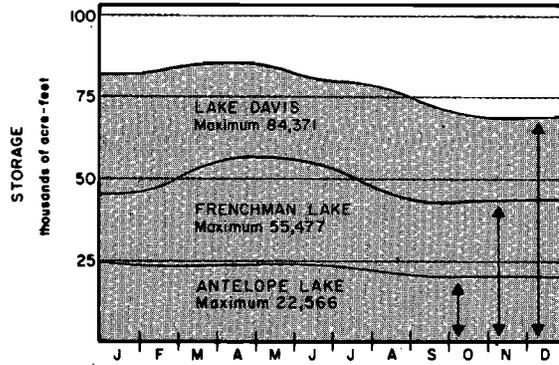
Project power operations for each generating plant, aqueduct pumping plant, and other energy sources during each month of 1974 are summarized in Table 6.

TABLE 5: WATER QUALITY MEASUREMENTS AT SELECTIVE STATIONS

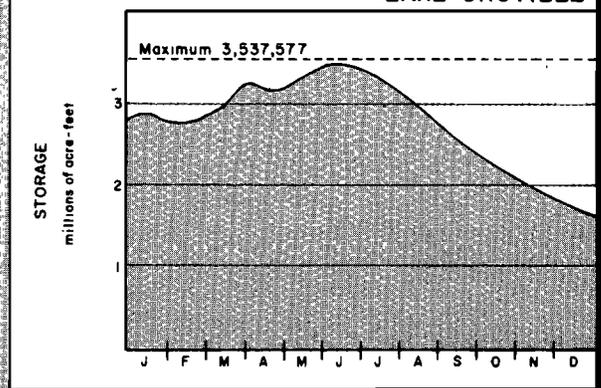
Station	Monthly Samples	Concentrations (in parts per million unless otherwise noted)					
		Total Dissolved Solids	Total Hardness	Chlorides	Sulfates	Sodium (%)	Boron
Thermalito Afterbay, Outlet to Feather River	Minimum	38	28	0	0	16	0.0
	Average	50	31	0	2	15	0.0
	Maximum	70	36	1	4	22	0.1
Sacramento-San Joaquin Delta, Delta Pumping Plant	Minimum	112	55	17	12	37	0.0
	Average	188	83	39	34	45	0.2
	Maximum	281	128	64	67	52	0.3
California Aqueduct:							
Entrance to O'Neill Forebay	Minimum	111	54	16	12	36	0.0
	Average	184	79	39	33	45	0.1
	Maximum	256	98	56	61	52	0.3
Outlet from O'Neill Forebay	Minimum	131	64	23	17	41	0.0
	Average	197	85	43	35	47	0.2
	Maximum	272	103	57	57	50	0.3
Near Kettleman City	Minimum	130	64	22	18	39	0.0
	Average	201	86	43	35	47	0.2
	Maximum	282	104	61	52	52	0.3
Coastal Branch near Devil's Den	Minimum	128	62	21	17	37	0.0
	Average	202	86	44	34	46	0.2
	Maximum	271	104	59	49	52	0.3
Near Buena Vista Pumping Plant	Minimum	114	57	16	14	35	0.0
	Average	197	86	43	34	46	0.2
	Maximum	274	103	57	50	51	0.2
At Tehachapi Afterbay	Minimum	124	59	18	20	38	0.0
	Average	199	86	43	36	46	0.2
	Maximum	241	109	57	51	51	0.2
At Pearblossom Pumping Plant	Minimum	133	71	25	18	40	0.0
	Average	199	85	45	32	47	0.1
	Maximum	247	107	58	54	50	0.2
Silverwood Lake Outlet to San Bernardino Tunnel	Minimum	149	83	41	31	45	0.0
	Average	194	94	47	38	46	0.2
	Maximum	226	101	52	44	48	0.2
Lake Perris, at outlet from Santa Ana Pipeline	Minimum	198	100	54	33	46	0.1
	Average	226	108	57	39	47	0.2
	Maximum	258	115	60	47	48	0.2
Pyramid Lake at entrance to Angeles Tunnel	Minimum	114	71	25	23	40	0.1
	Average	204	99	43	44	43	0.2
	Maximum	278	129	54	66	46	0.3
Castaic Lake, at Outlet Tower	Minimum	249	131	48	73	39	0.1
	Average	299	154	55	84	40	0.2
	Maximum	356	173	61	99	43	0.3
Monthly Average Quality Objectives		440	180	110	110	50	0.6

Figure 9: SUMMARY OF PROJECT

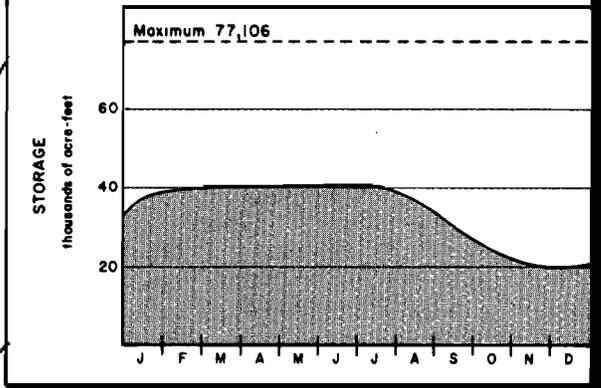
UPPER FEATHER LAKES



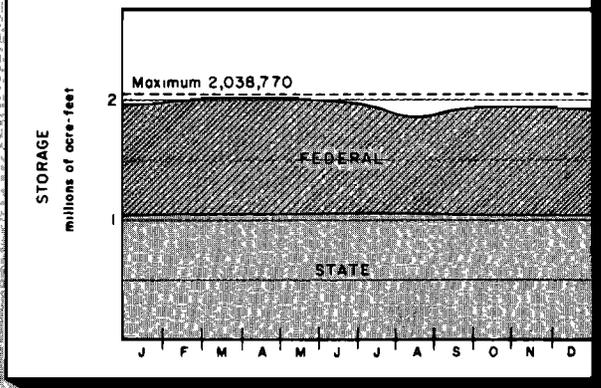
LAKE OROVILLE



LAKE DEL VALLE



SAN LUIS RESERVOIR



OROVILLE FIELD DIVISION

REDDING

SAN LUIS FIELD DIVISION

DELTA FIELD DIVISION

SACRAMENTO

TRACY PUMPING PLANT (FEDERAL)

DELTA PUMPING PLANT

SAN LUIS RESERVOIR

1974 DELIVERIES (in acre-feet) FROM PROJECT FACILITIES

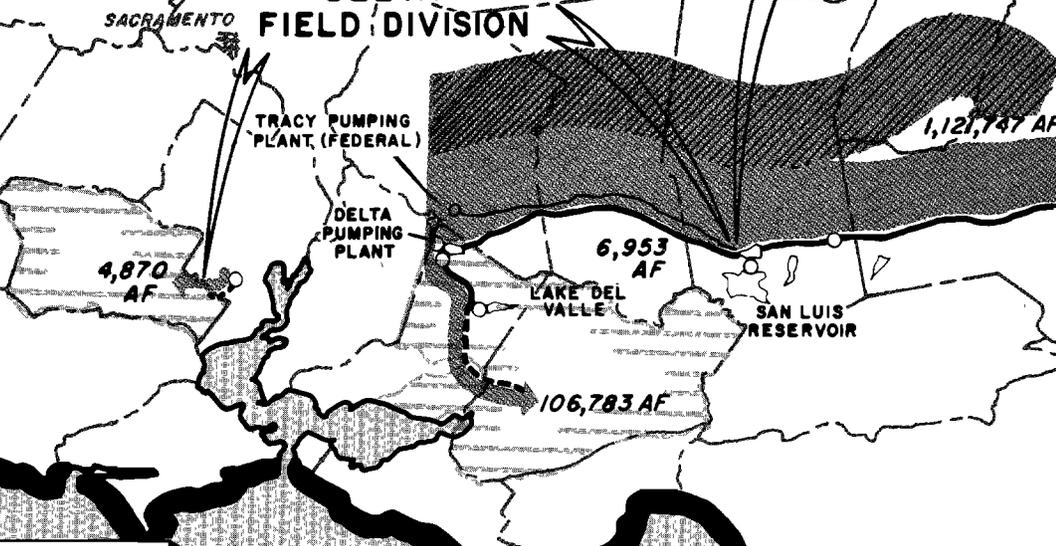
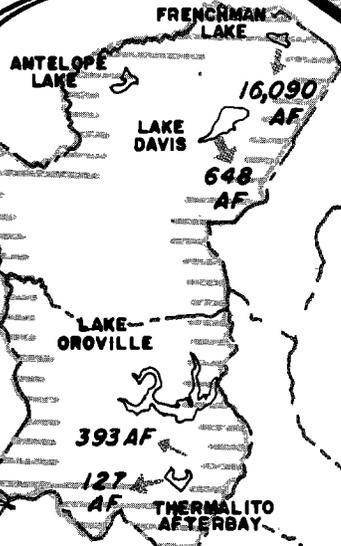
- To State Water Project Customers →
- To Federal Central Valley Project Customers (San Luis) →
- Boundaries of Contracting Agencies Receiving Water in 1974

4,870 AF

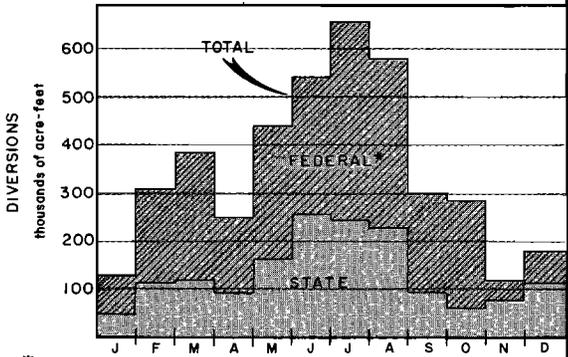
6,953 AF

106,783 AF

1,121,747 AF



DIVERSIONS FROM THE SACRAMENTO-JOQUIN DELTA



* INCLUDES DIVERSIONS FOR DELTA MENDOTA CANAL AND CONTRA COSTA CANAL

WATER OPERATIONS, 1974

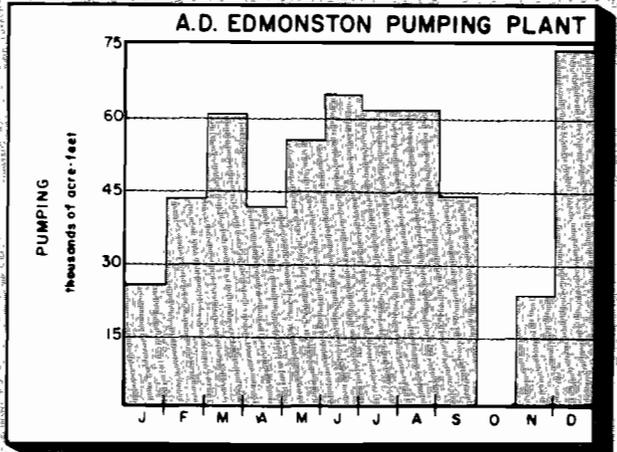
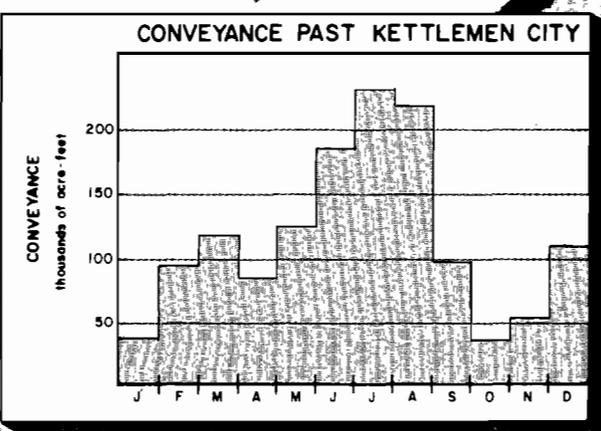
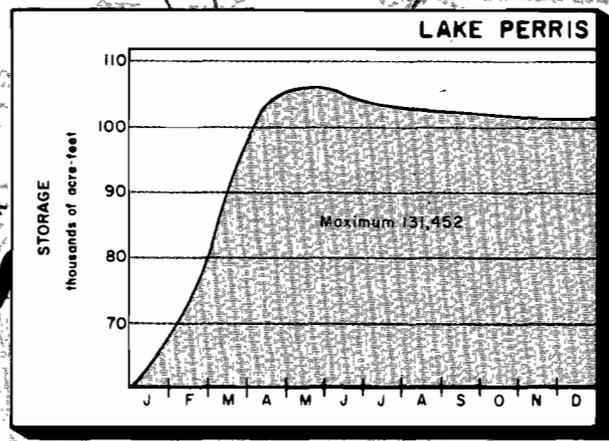
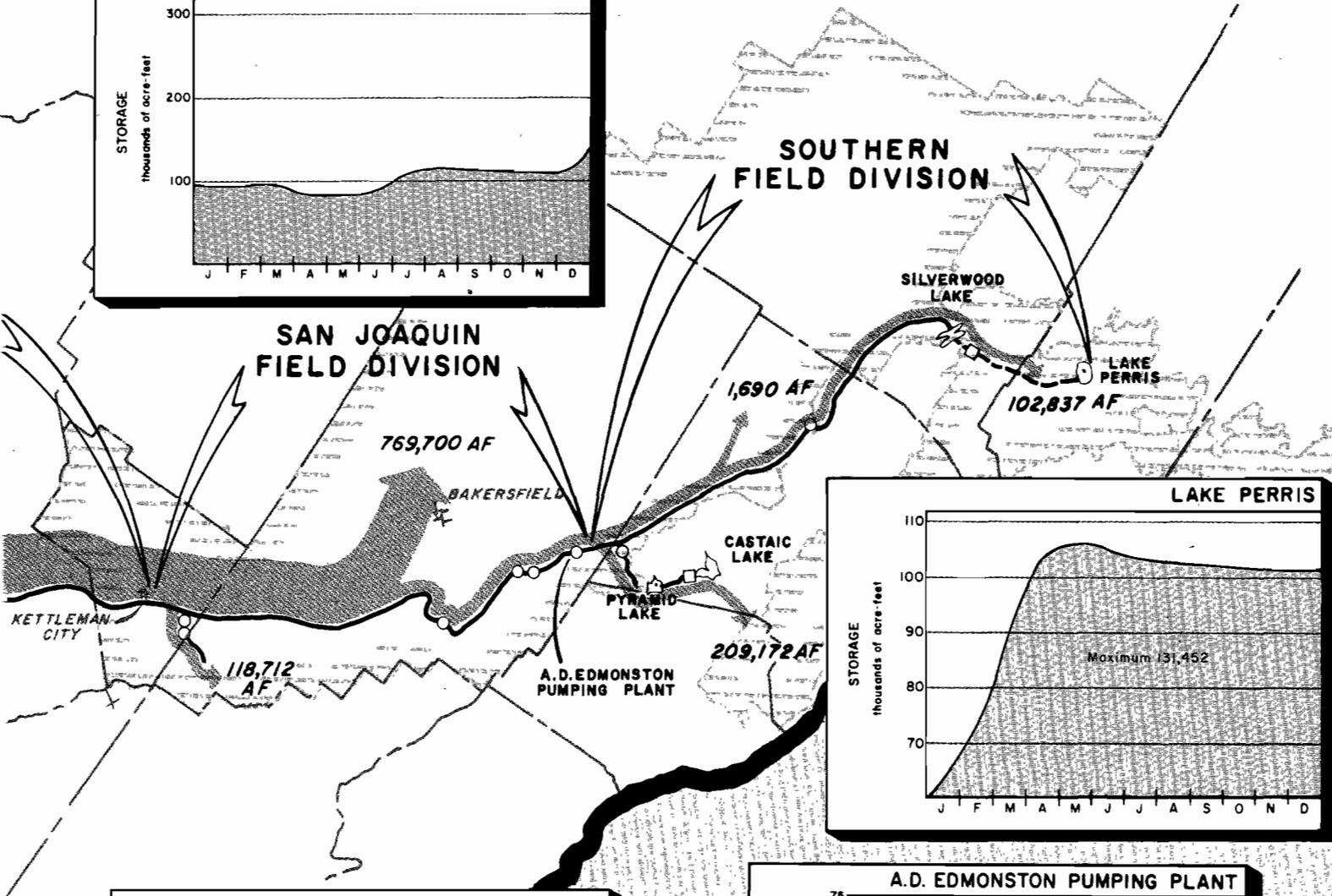
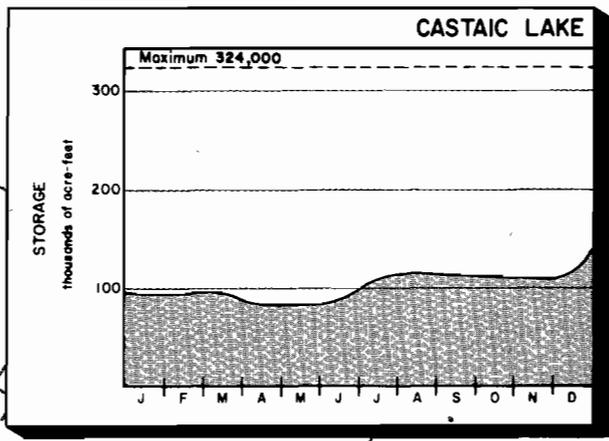
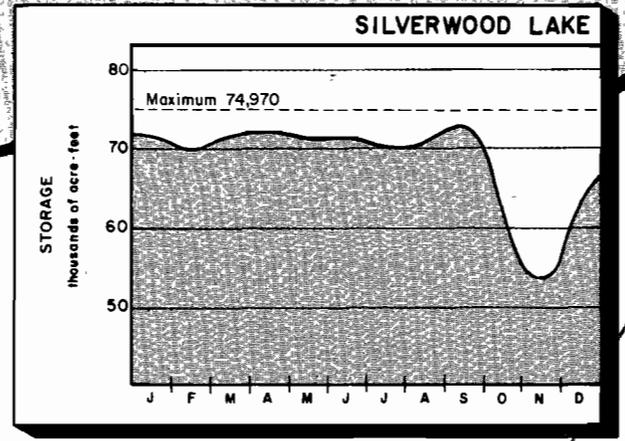
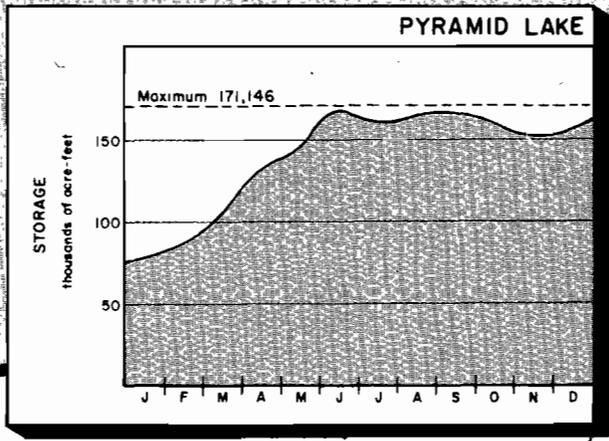


TABLE 6: MONTHLY POWER

(in millions of

Operations	Month						
	January	February	March	April	May	June	July
ENERGY GENERATED BY EDWARD HYATT (OROVILLE) AND THERMALITO POWERPLANTS ^(a)							
Gross Generation	520.05	263.43	501.83	488.96	357.22	239.79	385.72
Powerplant Use and Pumpback Requirements	.42	1.49	.07	.03	.33	.43	.27
Delivered to California Power Pool Companies	519.63	261.94	501.76	488.93	356.89	239.36	385.45
ENERGY USED BY PROJECT PUMPING PLANTS 1974							
Cordelia (Interim)	.33	.19	.27	.35	.24	.05	.01
South Bay	1.24	1.82	.56	2.29	8.16	9.24	10.40
Del Valle	.01	.01	.01	.01	.01	.01	.01
Tracy (State Share)	0	0	0	0	0	0	0
Delta	13.99	33.91	35.56	27.59	48.26	75.19	71.86
San Luis (State Share)	1.87	4.21	.54	0	5.79	0	0
Dos Amigos (State Share)	5.14	13.21	16.29	12.21	17.28	25.61	30.53
Las Perillas	.14	.44	.83	.67	1.06	1.45	2.02
Badger Hill	.33	1.16	2.24	1.78	2.88	3.79	5.42
Buena Vista	8.03	15.63	19.35	13.18	18.20	23.60	23.95
Wheeler Ridge	7.64	12.80	17.89	12.82	17.38	20.09	19.26
Wind Gap	16.26	27.47	38.36	26.97	35.83	41.43	39.72
A. D. Edmonston (Tehachapi)	57.33	97.81	136.05	94.64	126.76	145.63	138.42
Oso	.56	4.07	9.48	7.12	12.20	14.01	13.39
Pearblossom	16.73	19.88	17.54	11.00	8.30	8.39	8.39
Total	129.60	232.61	294.97	210.63	302.35	368.49	363.38
SOURCES OF ENERGY FOR PROJECT							
San Luis Pumping-Generating Plant (State Share)	.04	.02	.07	.01	0	.05	.02
Castaic Generating Plant (State Share)	3.82	8.62	15.24	.84	26.95	26.45	65.47
Devil Canyon Generating Plant	28.70	36.08	30.60	18.32	14.53	11.53	15.52
Canadian Entitlement Power	15.70	14.19	15.76	15.25	15.78	15.28	15.80
Bonneville Power Administration	5.40	33.62	33.09	42.49	61.05	35.97	36.97
California "Suppliers"	75.94	140.08	200.21	133.72	184.04	279.21	229.60
Total	129.60	232.61	294.97	210.63	302.35	368.49	363.38

a) Sold under terms of the Oroville-Thermalito Power Sale Contract, November 29, 1967.

OPERATIONS IN 1974

kilowatthours)

Month						Operations
August	September	October	November	December	Total	
						ENERGY GENERATED BY EDWARD HYATT (OROVILLE) AND THERMALITO POWERPLANTS ^(a)
404.04	312.42	266.27	245.52	182.06	4,167.31	Gross Generation
1.00	1.02	2.00	2.10	2.60	11.76	Powerplant Use and Pumpback Requirements
403.04	311.40	264.27	243.42	179.46	4,155.55	Delivered to California Power Pool Companies
						ENERGY USED BY PROJECT PUMPING PLANTS 1974
.01	.03	.37	.33	.32	2.50	Cordelia (Interim)
6.10	5.29	6.82	7.04	7.77	66.73	South Bay
.02	.01	.13	.07	.01	.31	Del Valle
0	0	0	0	0	0	Tracy (State Share)
67.16	28.13	17.60	23.26	32.79	475.30	Delta
.01	0	0	0	0	12.42	San Luis (State Share)
30.50	13.52	5.99	7.85	15.06	193.19	Dos Amigos (State Share)
1.67	.42	.16	.22	.18	9.26	Las Perillas
4.56	1.00	.38	.52	.40	24.46	Badger Hill
22.84	13.42	1.52	6.32	18.76	184.80	Buena Vista
19.39	13.70	.72	6.82	21.11	169.62	Wheeler Ridge
39.72	28.63	.03	14.81	46.69	355.92	Wind Gap
138.71	99.75	.14	52.07	165.65	1,252.96	A. D. Edmonston (Tehachapi)
12.55	9.27	0	5.00	14.91	102.56	Oso
10.21	6.87	.14	3.04	13.48	123.97	Pearblossom
353.45	220.04	34.00	127.35	337.13	2,974.00	Total
						SOURCES OF ENERGY FOR PROJECT
.18	0	0	0	0	.39	San Luis Pumping-Generating Plant (State Share)
50.50	28.35	0	14.90	46.22	287.36	Castaic Generating Plant (State Share)
16.22	9.28	13.30	12.26	10.82	217.16	Devil Canyon Generating Plant
15.79	15.28	15.81	15.27	15.74	185.65	Canadian Entitlement Power
5.41	1.01	0	0	0	255.01	Bonneville Power Administration
265.35	166.12	4.89	84.92	264.35	2,028.43	California "Suppliers"
353.45	220.04	34.00	127.35	337.13	2,974.00	Total



Thermalito Afterbay

Oroville Field Division

All three Upper Feather Lakes filled in excess of operating capacity and spilled during the spring of 1974.

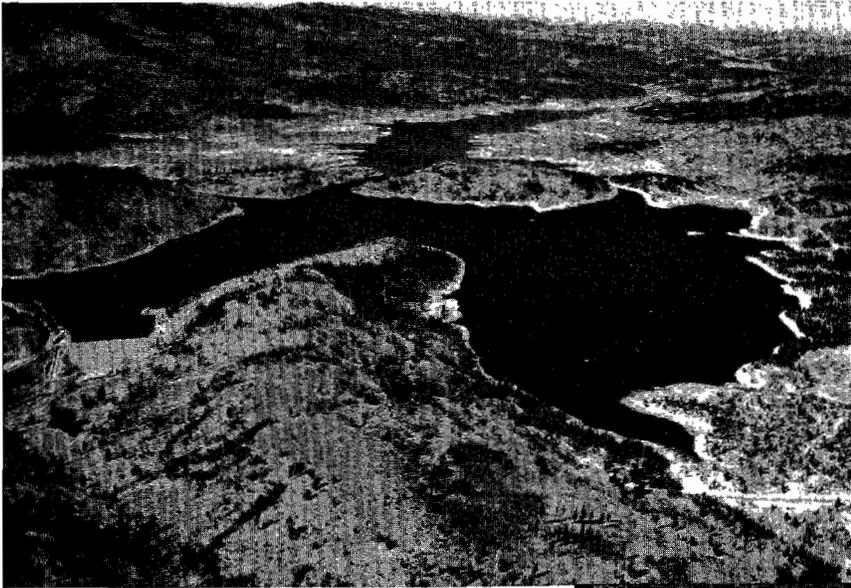
Lake Oroville reached its maximum capacity of 3.5 million acre-feet on June 17 for the third time since storage began in 1967. The spring reservoir filling operation was constantly reviewed in light of short-term forecasts of runoff and water supply based on snow surveys to provide maximum utilization of inflow while maintaining flood control requirements. As a result, flow over the spillway was held to 1,045,000 acre-feet and generation at the Hyatt-Thermalito (Oroville) complex during 1974, exceeded the total for the previous best year of record, 1971, by 27 percent. The maximum by-hourly rate of inflow was 121,000 cubic feet per second on March 30, 1974.

Minimum storage in Lake Oroville was 1,667,129 acre-feet at elevation 748.88 on December 31, or 1.0 million acre-feet lower than the minimum storage in

1973. This year's additional drawdown was required to facilitate repairs to the Hyatt (Oroville) Powerplant Intake trashracks. At the same time boat ramps were extended at several locations around the reservoir.

Releases under prior rights to Sutter Butte Canal, Pacific Gas and Electric Lateral, Western Canal, Richvale Canal, and Palermo Canal totaled 887,483 acre-feet and reached a peak of 3,443 cubic feet per second on May 16. Releases to the Feather River totaled 6,992,252 acre-feet and reached a peak of 54,700 cubic feet per second on April 3, 1974.

The surface water in Lake Oroville warmed to a high of 81 degrees Fahrenheit on July 26, 1974. However, the Department made releases that met the water temperature requirements of the Feather River Fish Hatchery and downstream irrigation by utilizing the multi-level Oroville Powerplant Intake Structure.



Frenchman Lake

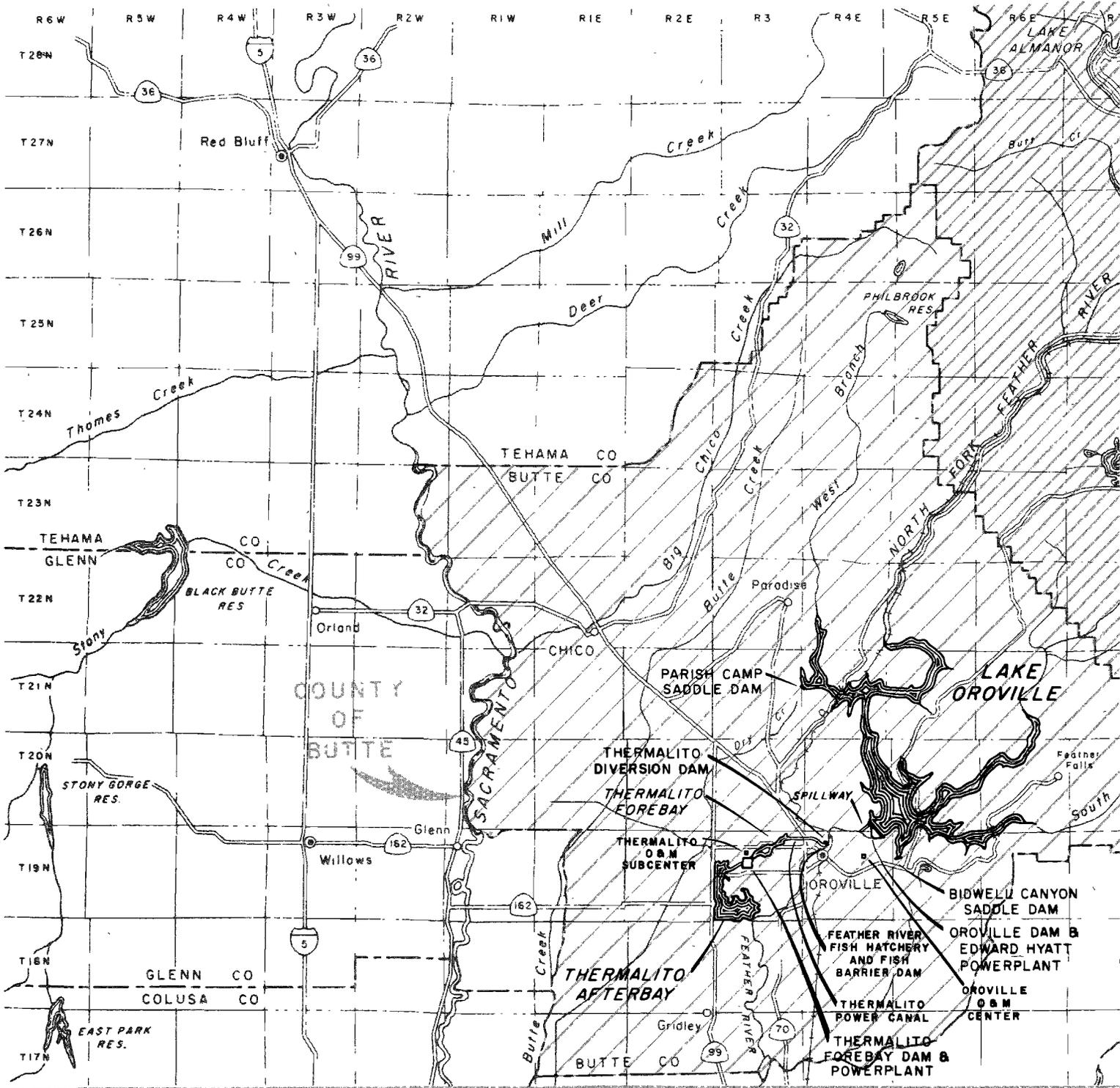


Antelope Lake



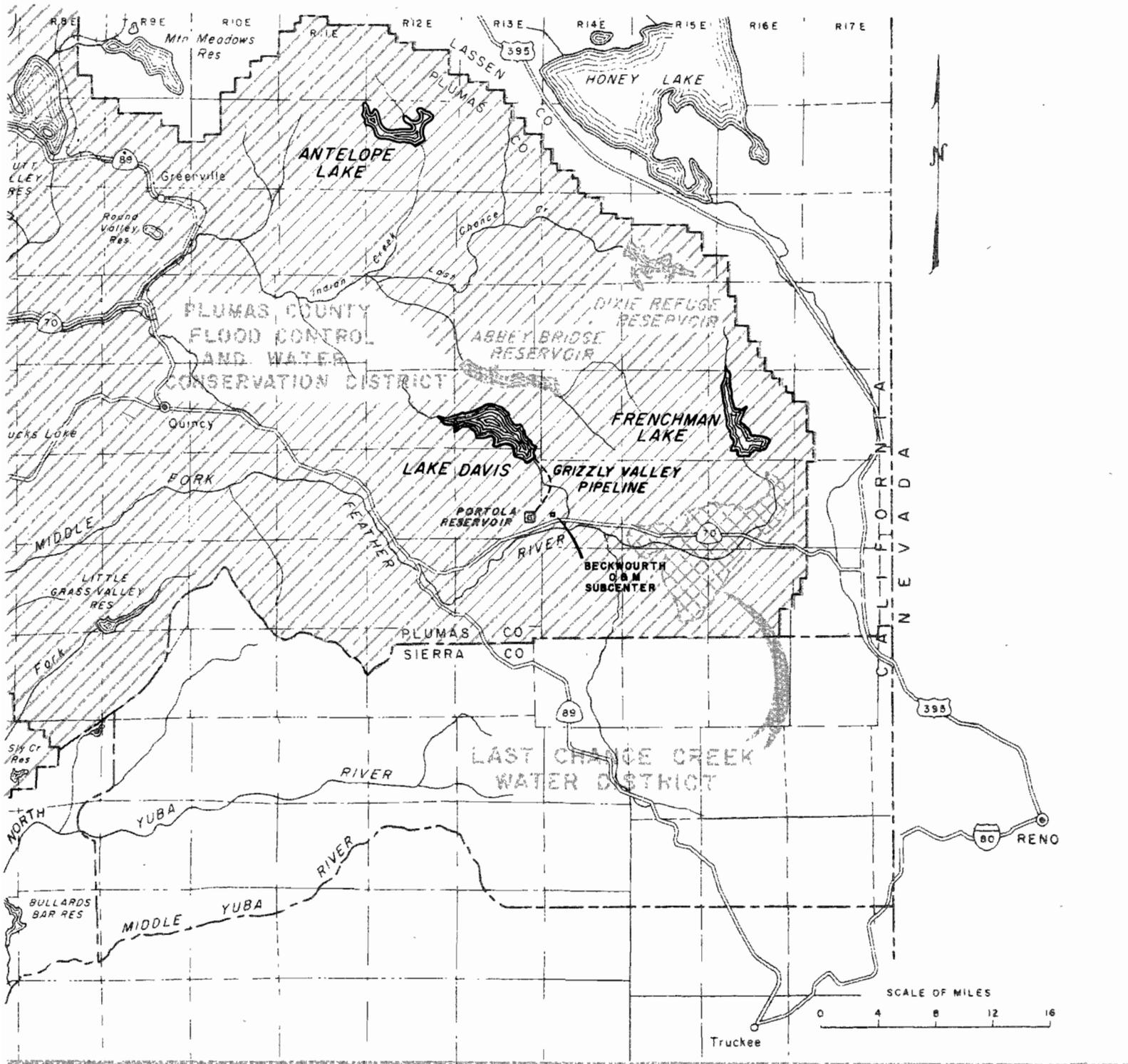
Lake Davis

Figure 10: OROVILLE

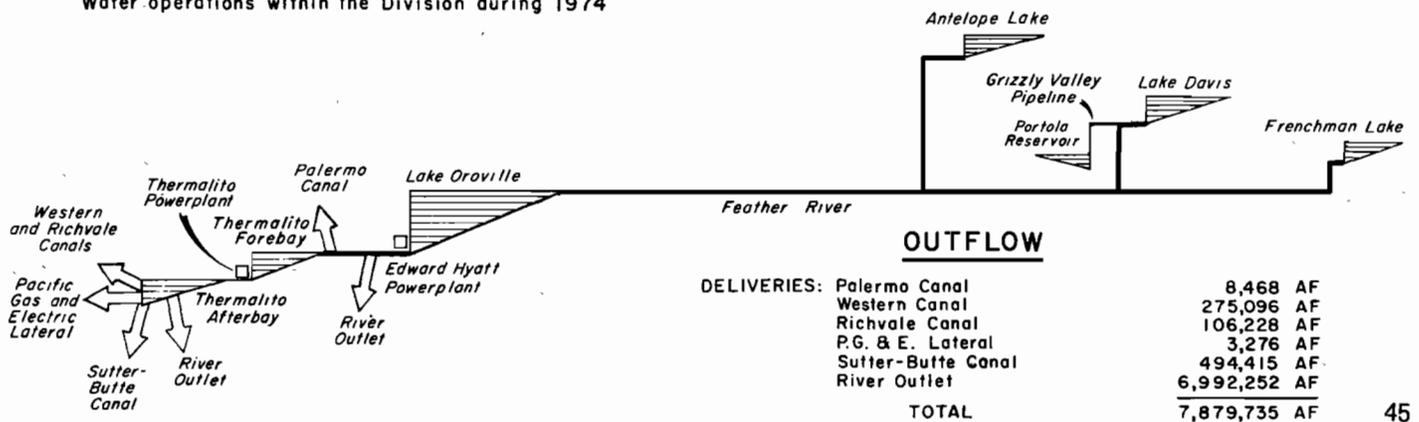


Panoramic View of Lake Oroville

FIELD DIVISION



Water operations within the Division during 1974





Clifton Court Forebay

Delta Field Division

Water storage in Lake Del Valle on the South Bay Aqueduct on January 1, 1974, was 32,996 acre-feet. Local inflow raised the storage level to a maximum of 42,449 acre-feet on April 2. Storage above 40,000 acre-feet is flood water and was released gradually through June 11. The annual drawdown was started August 1, a month earlier than normal, to facilitate construction of recreation facilities by the Department of Parks and Recreation. The low elevation work was completed by year's end and the normal operating plan was resumed. Minimum storage for the year was 20,335 acre-feet on November 25, 26, and 30, and again on December 1 through 3. Local inflow during December raised the storage level to 20,578 acre-feet by the end of the month.

During the year, 299,542 acre-feet of U. S. Bureau of Reclamation water was pumped through the Delta Pumping Plant. In July the Bureau met a portion of its water needs by utilizing the Delta Pumping Plant and capacity in Reaches 1, 2A, and 2B of the Aque-

duct, rather than drawing on a storage from San Luis Reservoir. In November and December, when the Bureau's Delta Mendota Canal was down for maintenance, 98,205 acre-feet of Bureau water was delivered through the State's facilities. The Bureau furnished the power for pumping at the Delta Pumping Plant and is discussing with the Department alternative methods of compensation for the use of the project facilities during such joint operations.

During the period May 15 through 26, the pumping rates at the Delta and Tracy Pumping Plants were scheduled in a manner which would provide data for a drawdown test on water levels in the southern Delta. The test was to study the effect of state water export through Clifton Court Forebay on tide levels in the southern Delta with pumping rates equal to projected 1979 rates. The test supplements two earlier tests made in 1968, prior to the operation of the Clifton Court Forebay.

Delta Operation and Maintenance Center

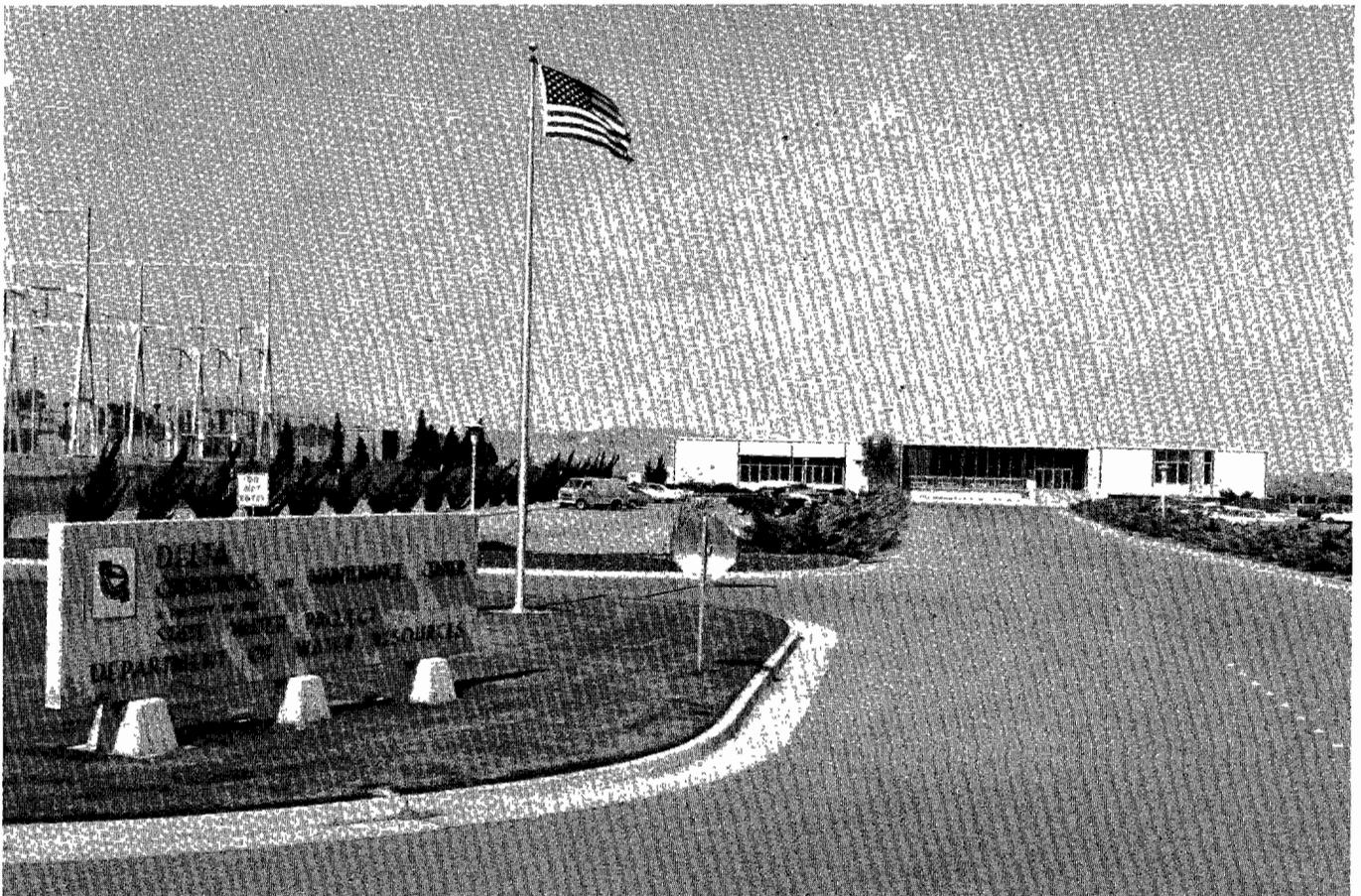
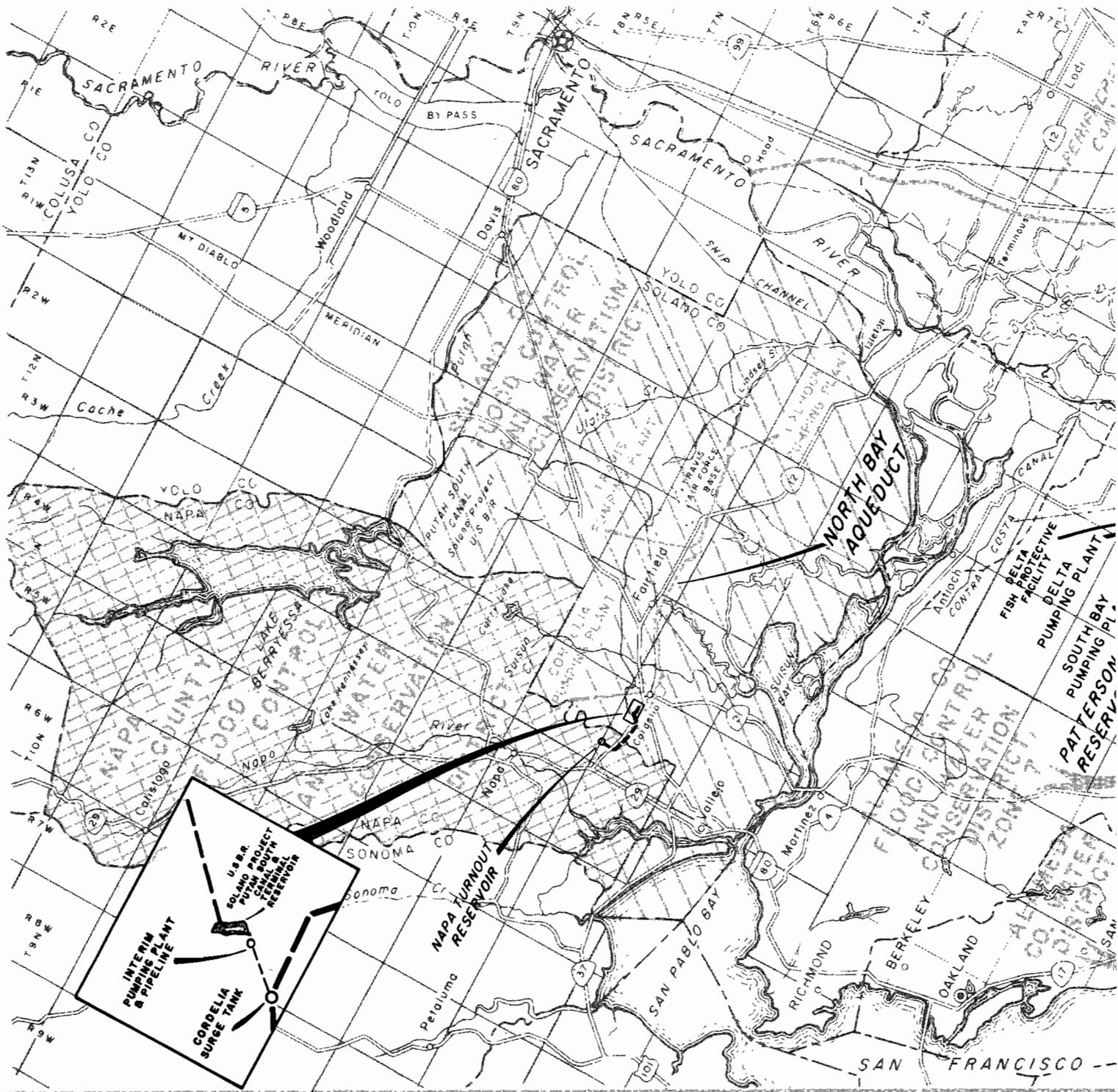
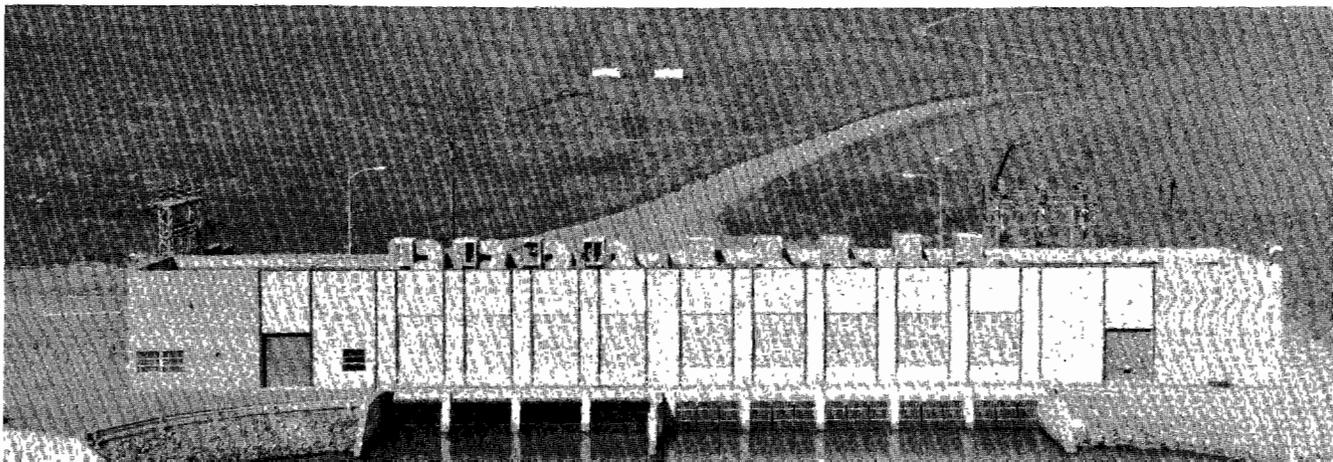


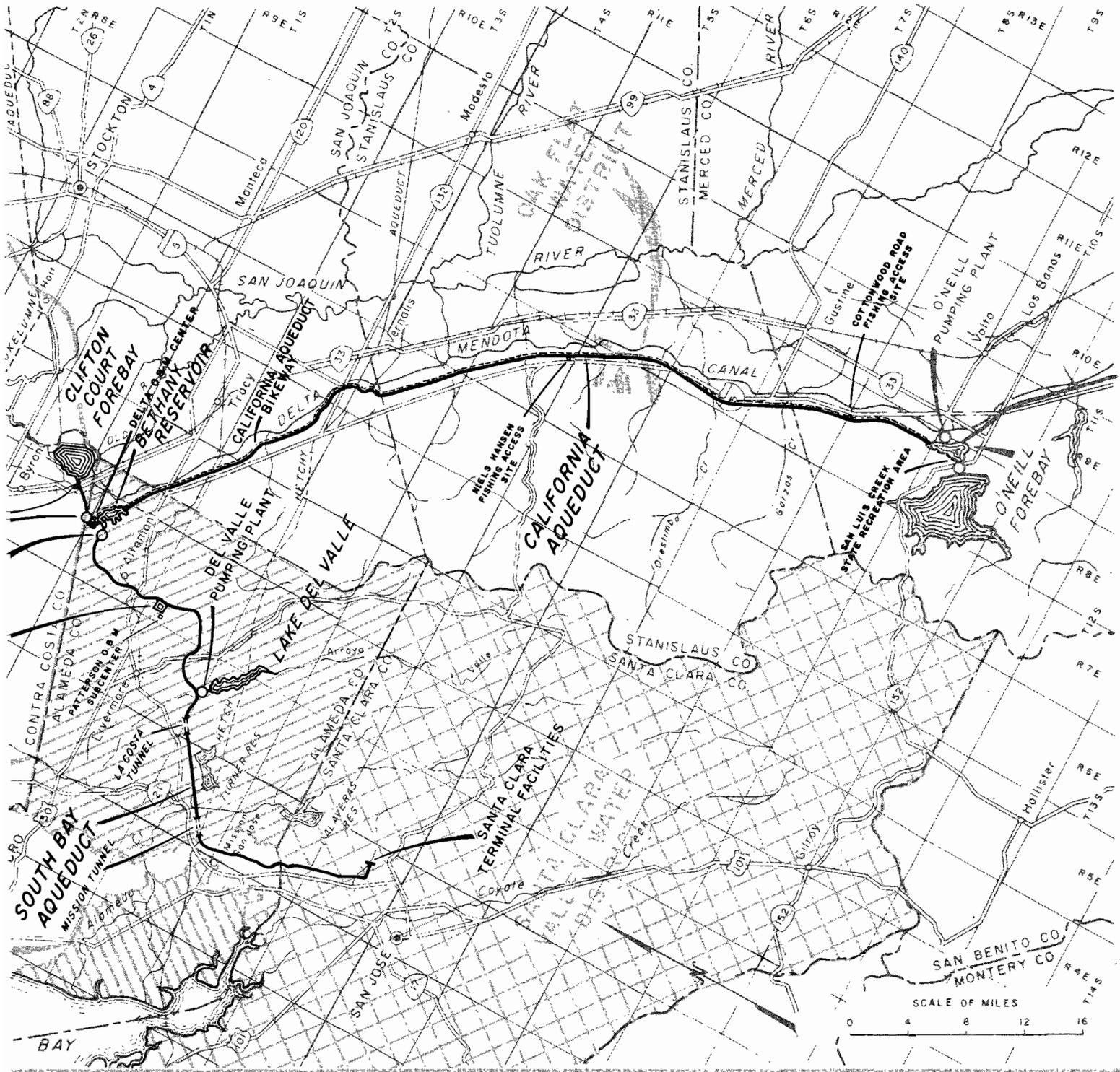
Figure 11: DELTA



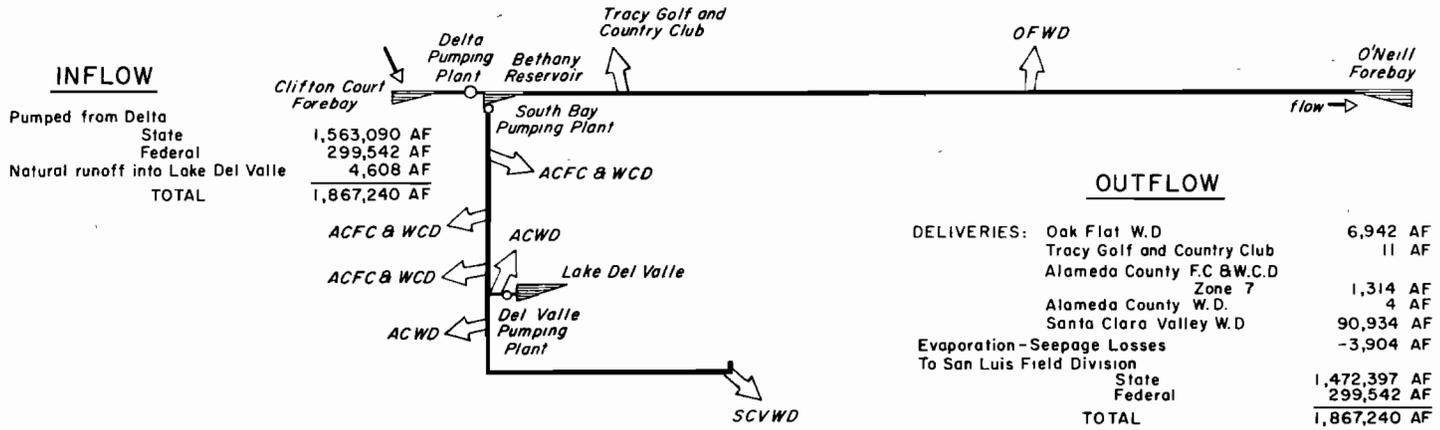
South Bay Pumping Plant



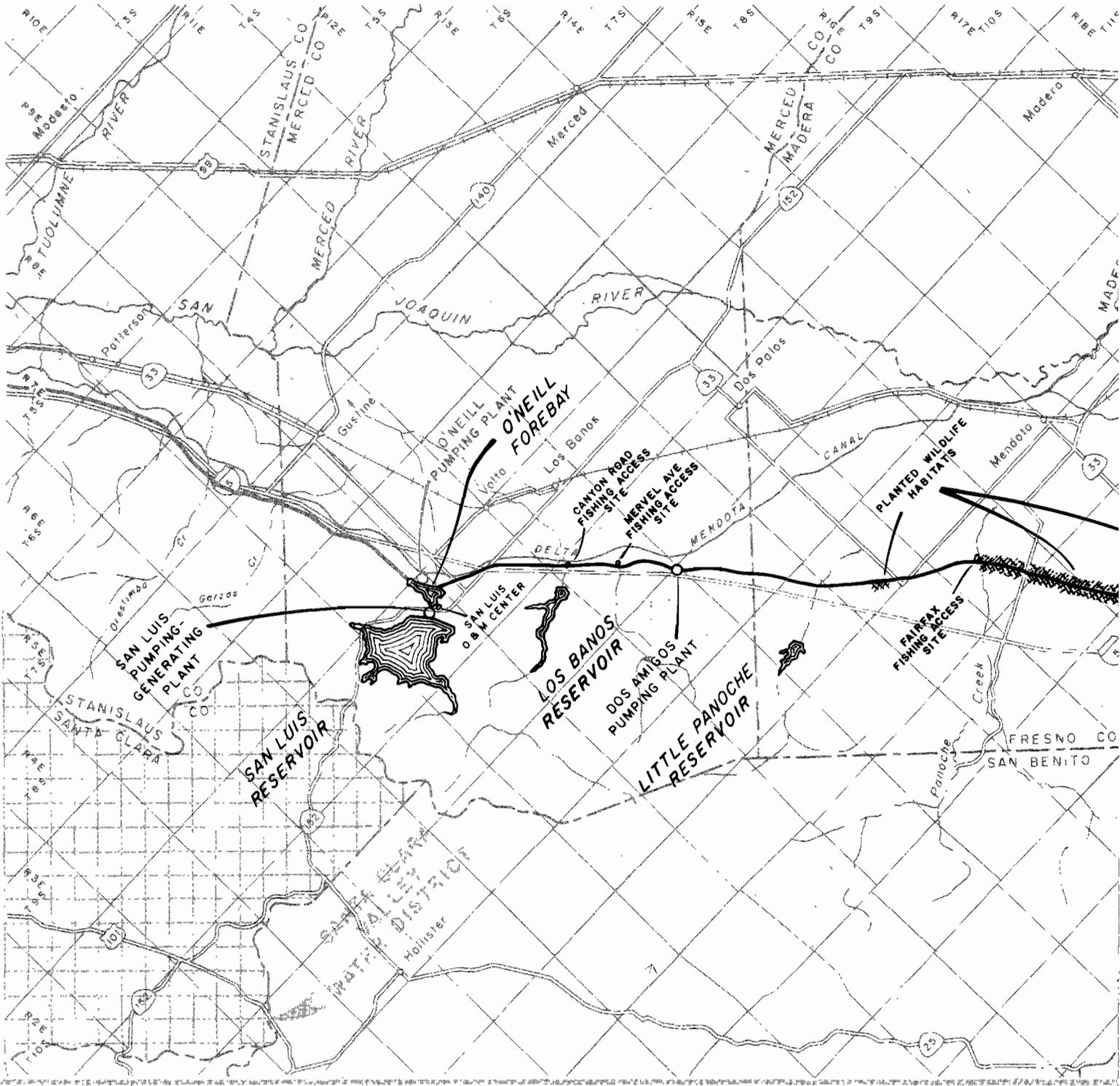
FIELD DIVISION



Water operations within the Division during 1974



Figur 12: SAN LUIS

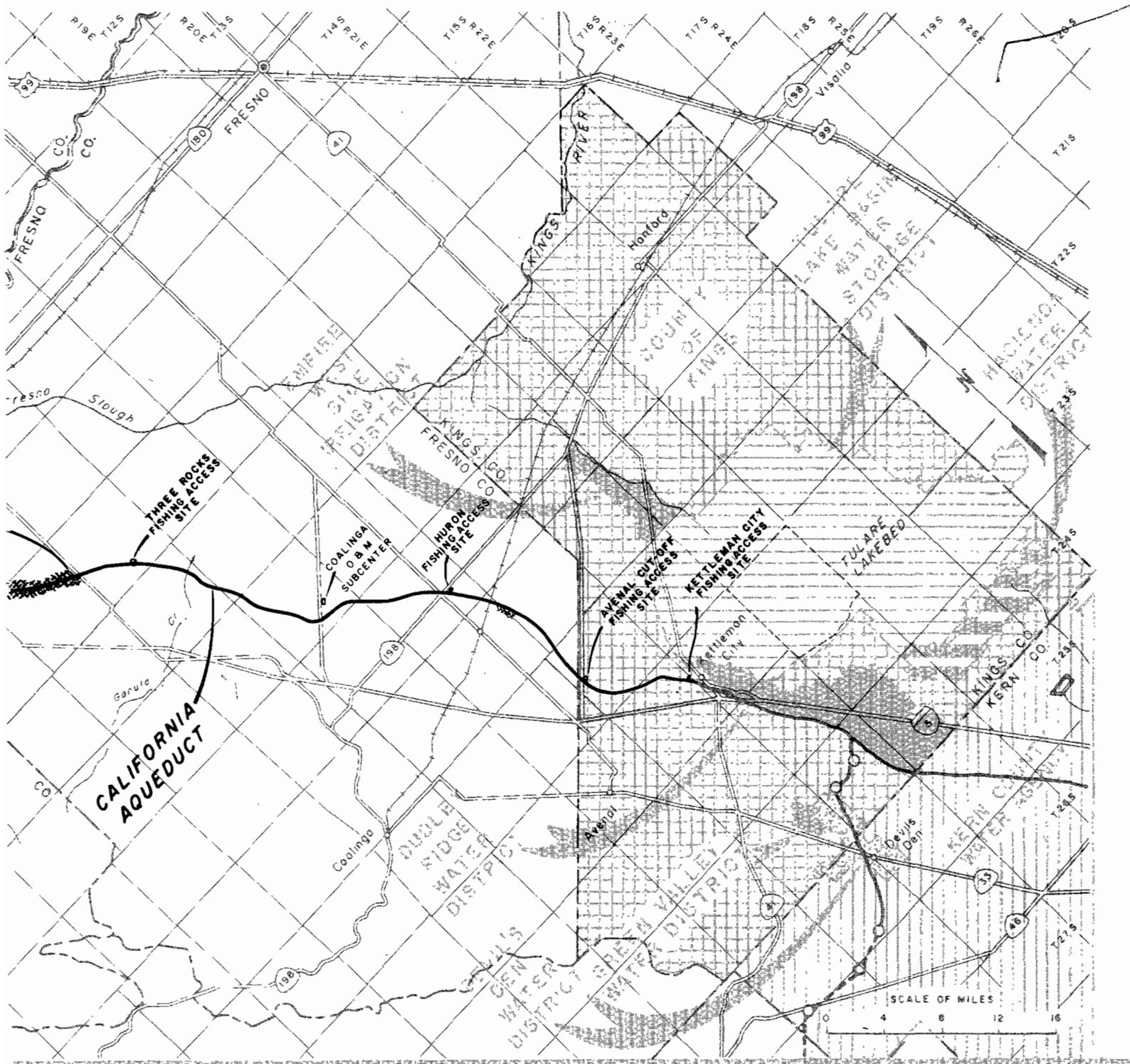


San Luis Field Division

On January 1, 1974, storage in San Luis Reservoir was 1,984,287 acre-feet. Water pumped into the reservoir during 1974 totaled 200,493 acre-feet; water released to O'Neill Forebay amounted to 188,966 acre-feet. Computed evaporation, seepage, and other losses totaled 57,762 acre-feet. On December 31, 1974, storage in the reservoir was 1,938,052 acre-

feet—1,065,783 acre-feet of which was state project water—the remainder, federal project water. Total storage in San Luis was maintained near the 2,038,771 acre-foot full capacity level for most of the year. Maximum and minimum storage levels during the year were 2,027,707 acre-feet on May 26 and 1,849,686 acre-feet on September 27, respectively.

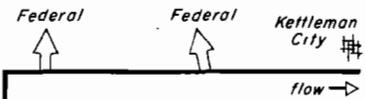
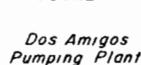
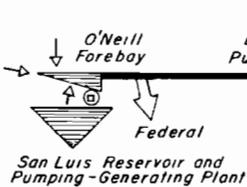
FIELD DIVISION



Water operations within the Division during 1974

INFLOW

From Delta Field Division		
State	1,472,397	AF
Federal	299,542	AF
From Federal O'Neill Pumping Plant	817,263	AF
Net decrease of San Luis Reservoir storage	46,235	AF
TOTAL	2,635,437	AF



OUTFLOW

Deliveries:	Federal Customers	1,121,747	AF
	Recreation Areas	10	AF
Evaporation-Seepage Losses		94,033	AF
Released thru Federal O'Neill Pumping Plant		27,123	AF
To San Joaquin Field Division		1,392,524	AF
TOTAL		2,635,437	AF

On January 1, 1974, storage in Los Banos and Little Panoche Reservoirs was 20,750 and 291 acre-feet, respectively. On December 31, 1974, storage was 19,001 acre-feet and 306 acre-feet, respectively.

During 1974, 1,121,747 acre-feet were delivered to customers of the federal Central Valley Project from the San Luis Division. Deliveries to federal customers were made from 165 turnouts (39 permanent and 126 temporary).

An energy-saving operation utilized again this year was the exchange of water between San Luis Reser-

voir and O'Neill Forebay. This saving was accomplished whenever one party had excess water in O'Neill Forebay which it was planning to pump into San Luis to replenish evaporation losses, and the other party was scheduled to release water from San Luis to meet demands. By exchanging water instead of simultaneous pumping and generating, an overall energy saving was accomplished and both parties' operational goals were satisfied. This operation reduced project water costs and allowed conservation of electrical energy.

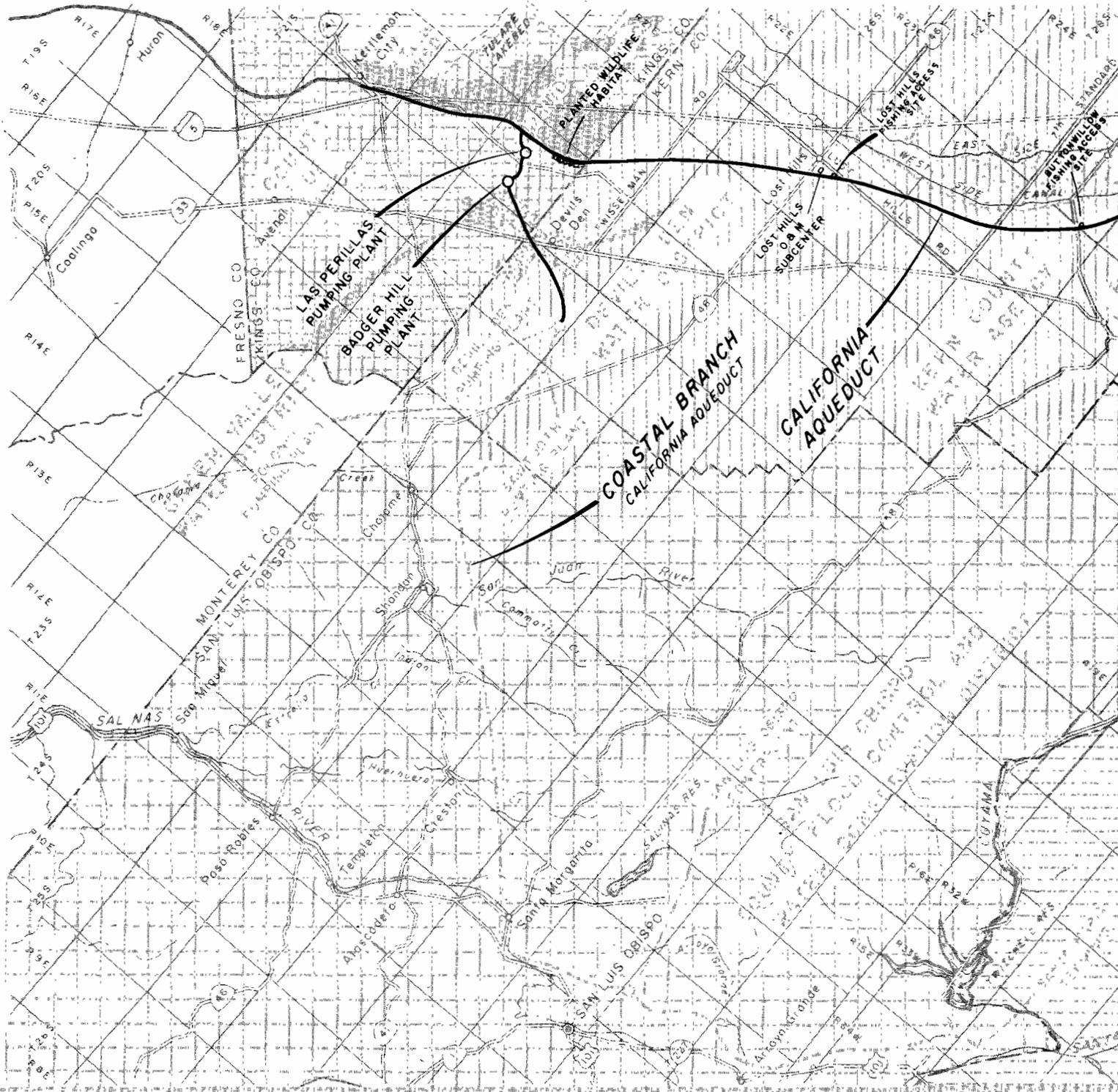


Dos Amigos Pumping Plant



Wheeler Ridge Pumping Plant

Figure 13: SAN JOAQUIN



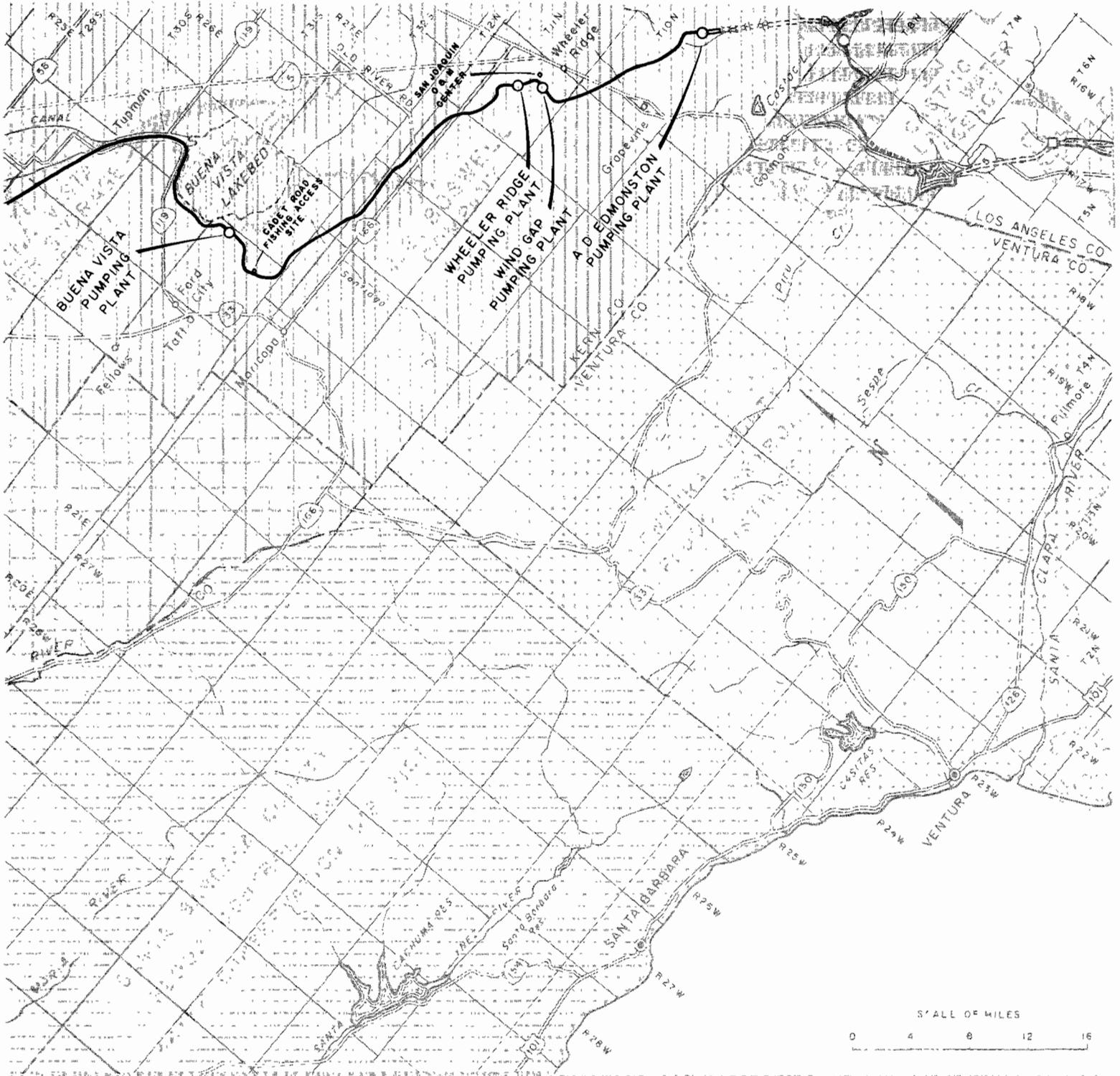
San Joaquin Field Division

Equipment modifications to allow control at the San Joaquin Area Control Center for the Coastal Branch and the main aqueduct from Check 21 to Buena Vista Pumping Plant were completed in March. These reaches were formerly controlled from the San Luis Area Control Center.

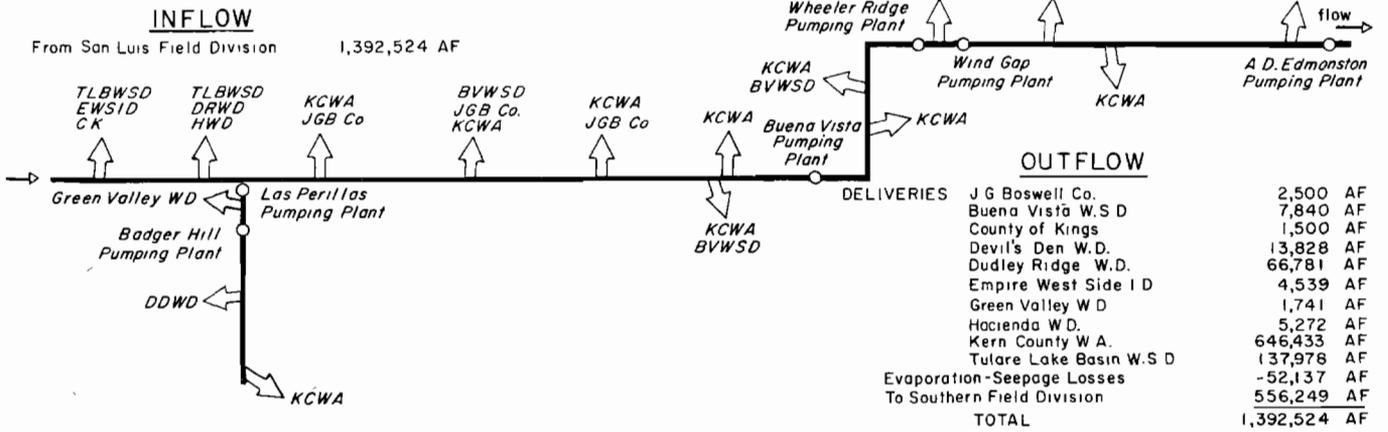
The water level in Pool 28 was lowered between October 1 and November 15 to construct the Greater

Bakersfield Turnout. This turnout will supply water to the Cross Valley Canal being constructed by Kern County Water Agency. During construction, 200 cubic feet per second passed through Pool 28 and was lifted by dewatering pumps to the operating level of Pool 29 to meet scheduled water deliveries between Pool 29 and A. D. Edmonston (Tehachapi) Pumping Plant.

FIELD DIVISION



Water operations within the Division during 1974



Southern Field Division

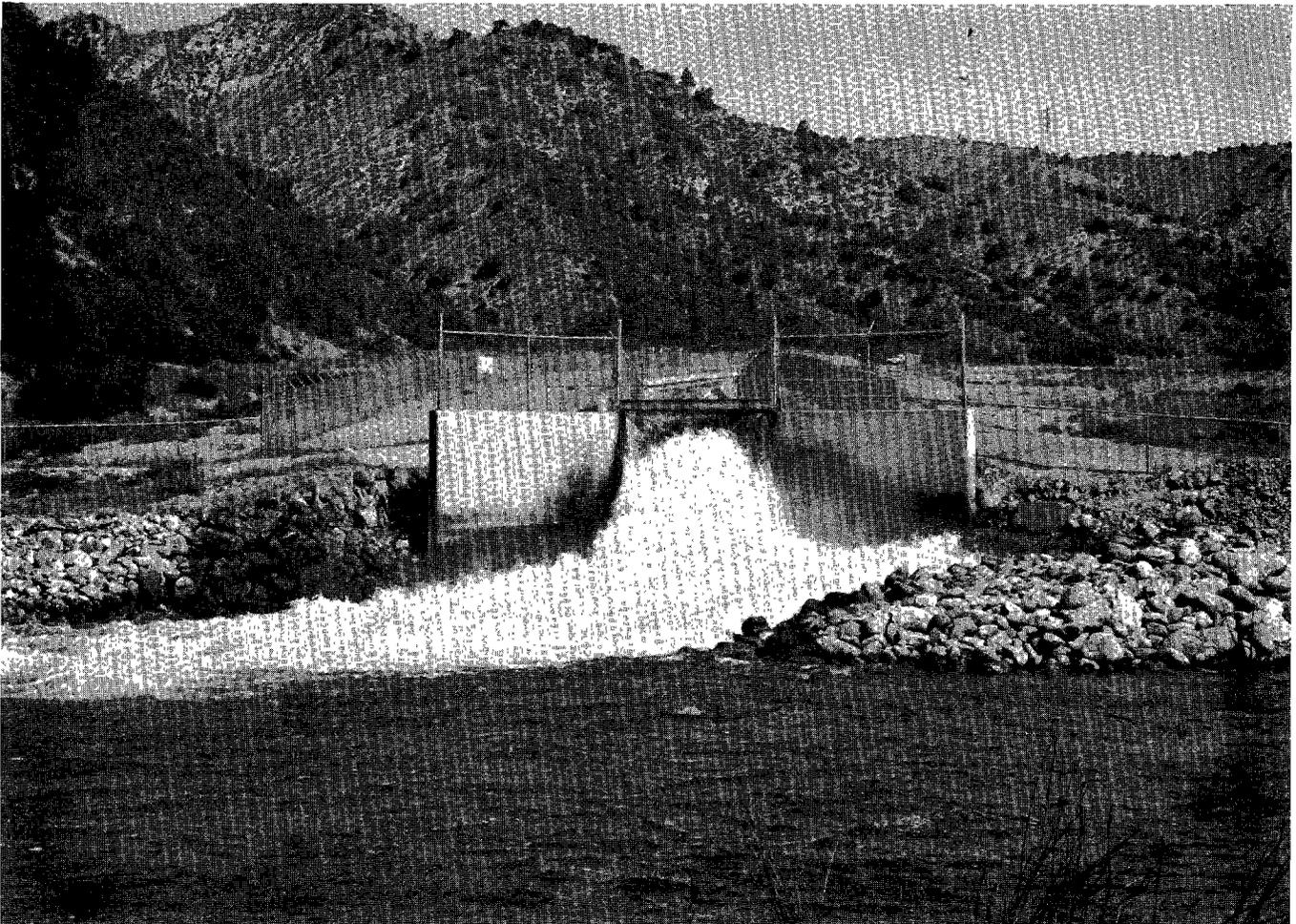
By the end of 1974, all major facilities in the Southern Field Division were operational except Peace Valley Pipeline and Pyramid Powerplant on the West Branch, and Cottonwood Powerplant and Buttes Reservoir on the East Branch (all scheduled to be completed in the 1980s). At the end of the year, reservoir storage at Pyramid, Castaic, Silverwood, and Perris was 157,925; 144,374; 63,397; and 100,385 acre-feet, respectively.

On the West Branch, filling of Pyramid Lake was delayed temporarily in January for repair of the canal lining just upstream from the Oso Pumping Plant and to complete the installation of instruments at Pyramid Dam. The filling was resumed on February 23 and the Lake reached its operating capacity of 169,902 acre-feet on June 24, 1974. Although the Project has realized generation credits from water passing through Los Angeles Department of Water and Power's Castaic Powerplant since January 1972, the filling of Pyramid Lake now allows realization of the full potential for recovery generation from the Castaic

Powerplant, which provides a significant credit to the costs of downstream water contractors.

Only partial filling of Castaic Lake occurred in 1974 because of construction restraints. Angeles Tunnel was shut down between March 22 and May 6 to allow the Los Angeles Department of Water and Power to complete construction of the outlet works at Elderberry Forebay. During this outage, the Tunnel was drained and inspected by department maintenance personnel.

Silverwood Lake was held near the 70,000-acre-foot operating level for most of the year. The California Aqueduct was taken out of service for 45 days between October 1 and November 15 for modifications to the Tehachapi Afterbay Control Structure, Quail Lake inlet, and Antelope Siphon, and construction of a new check structure at Mile Point 374. During this 45-day outage, storage at Silverwood was used to supply downstream needs, and storage dropped to its minimum for the year of 53,254 acre-feet on November 27, 28 and 29.



Energy Dissipator at Pyramid Lake



Lake Perris

The initial filling of Lake Perris to the 105,000-acre-foot level was completed on June 1. Storage was maintained near that level for the remainder of the year to permit the installation of a temporary seepage collection and discharge system. There are no immediate plans to fill the lake to its full 126,841-acre-foot operational level. In the interim, the unfilled storage capacity will be used to provide operational flexibility for generation of power from Devil Canyon Powerplant.

As expected, seepage appeared at the toe of Perris Dam and the temporary system for measuring the amount of seepage and pumping it back to the reservoir was placed in operation. Based on data from the temporary system and observations of the area, the magnitude of future seepage was determined and permanent facilities for handling the seepage will be constructed in 1975.

Perris Lake developed a large algae bloom in the spring of 1974. Application of copper sulfate to control the bloom was not performed because of possible damage to Alabama Spotted Bass spawning in the lake at the time. A water circulation system using

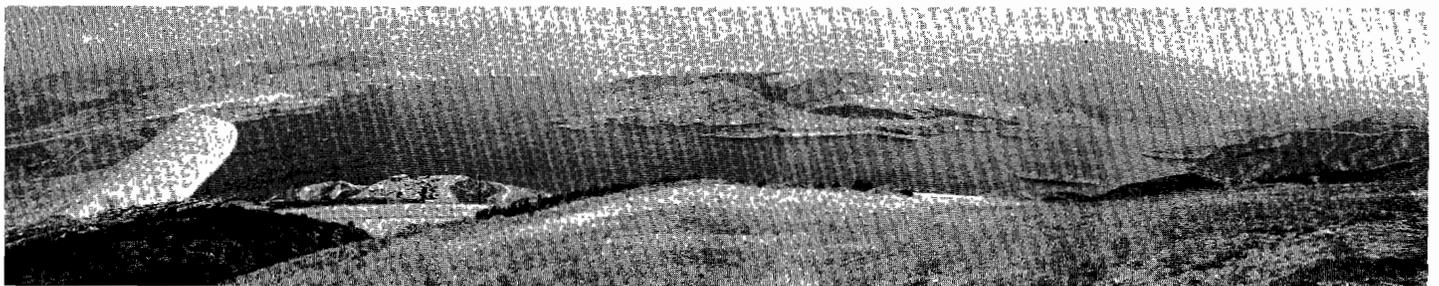
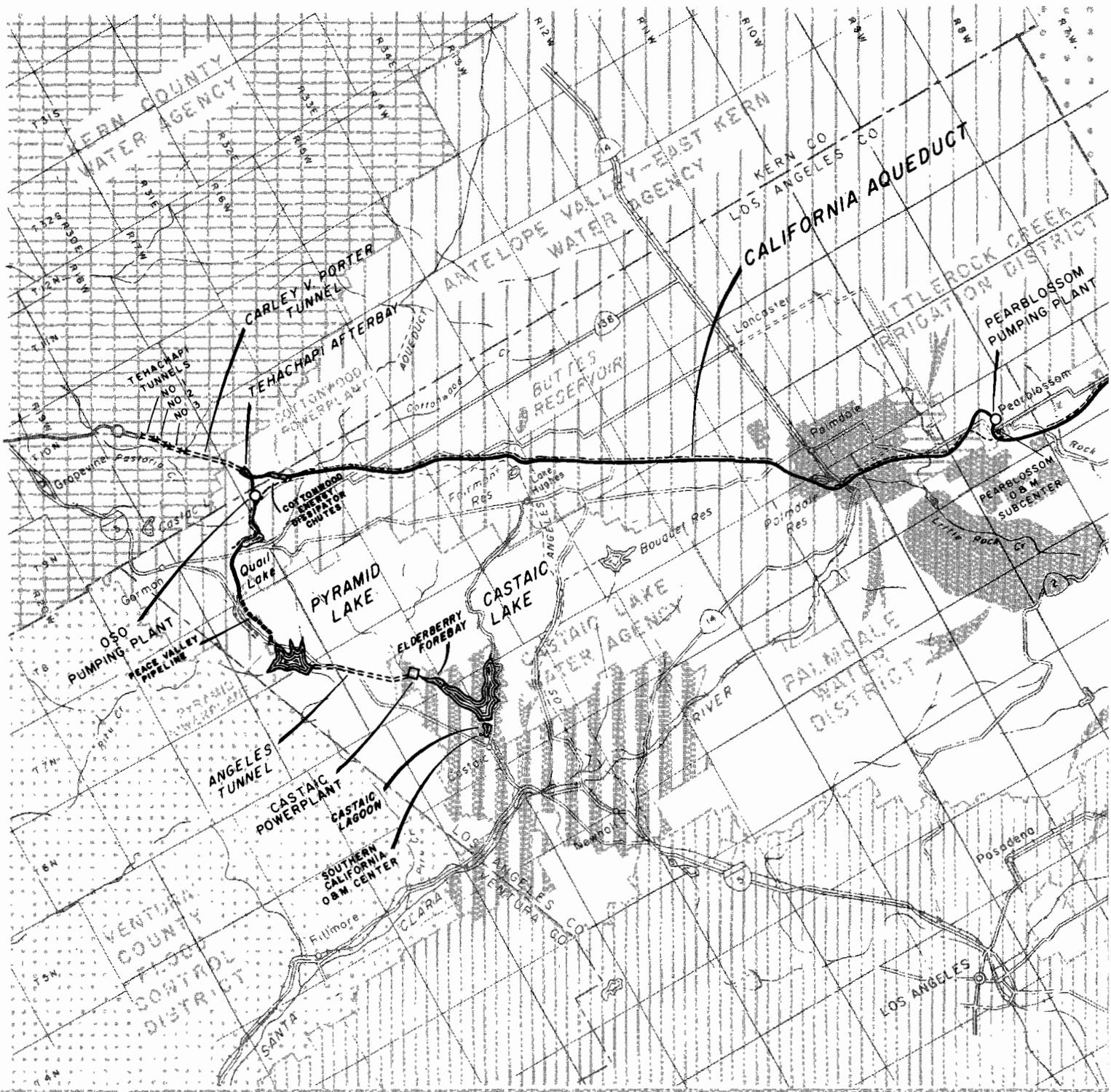
pumps to disperse and control the algae was tested in the vicinity of Allesandro Island. Also, a compressed air diffusion system near the outlet tower was tested to induce circulation. The compressed air system of inducing circulation was more efficient than the pumping system. By June, the spring algal growth had died and the lake was clear.

Installation of permanent aeration facilities to combat future algal growths at both Castaic Lake and Lake Perris was completed in September 1974.

A 66-foot-long section of canal lining upstream from the Oso Pumping Plant failed on January 4, because of high ground water conditions and water level fluctuations in the canal. Repairs were completed by department personnel on January 28 and the West Branch was returned to normal service.

In November, a truck accident on Interstate 5 at the West Branch Aqueduct crossing resulted in an oil spill into Gorman Creek Channel. Fortunately, the accident occurred during an outage when the channel was empty. The oil was contained and removed before reaching Pyramid Lake.

Figure 14: SOUTHERN



Panoramic View of Castaic Lake

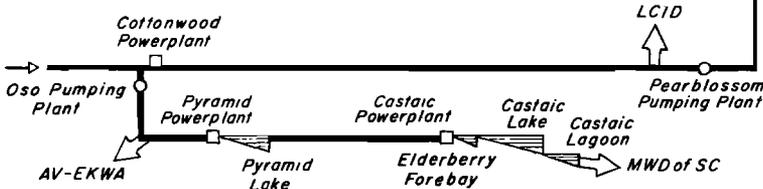
FIELD DIVISION



Water operations within the Division during 1974

INFLOW

From San Joaquin Field Division	556,249 AF
Natural runoff into Pyramid Lake	17,082 AF
Natural runoff into Castaic Lake	9,665 AF
Natural runoff into Silverwood Lake	10,385 AF
TOTAL	593,381 AF



OUTFLOW

DELIVERIES:	Antelope Valley-East Kern W.A.	1,259 AF
	Coachella Valley County W.D.	6,400 AF
	Crestline-Lake Arrowhead W.A.	627 AF
	Desert W.A.	10,000 AF
	Littlerock Creek I.D.	467 AF
	Mojave W.A.	14 AF
	San Bernardino Valley M.W.D.	16,605 AF
	San Gabriel Valley M.W.D.	612 AF
	The Metropolitan W.D. of S.C.	277,715 AF
	Recreation Areas	2,108 AF
	Water Rights Entitlement	36,629 AF
	Evaporation-Seepage Losses	38,169 AF
	Net Increase of Reservoir Storage	202,776 AF
TOTAL		593,381 AF

Project Visitor Use

Approximately 1.7 million people visited project facilities in 1974, down 19 percent from the 2.1 million visitors reported in 1973. Visitors include people entering or pausing near visitor centers and overlooks, and those participating in guided tours of the project facilities.

The Oroville Visitor Center on Kelly Ridge, operated jointly by the Department of Parks and Recreation and the Department of Water Resources, was dedicated on May 25.

Recreation and Fish and Wildlife Activities

About 4.0 million people used the State Water Project for recreation during 1974, approximately a 60 percent increase from the 2.5 million recreationists reported in 1973. The recreation total includes those people observed camping, boating, swimming, fishing (lake or aqueduct), bicycling, etc., on facilities provided by the Project.

The Huron Fishing Access Site was opened during the year, bringing the total number of fishing access sites on the California Aqueduct in the San Joaquin Valley to 12. These sites were developed as part of a cooperative program with the Wildlife Conservation Board. The Board has recently approved funding for three more sites: Orestimba, in the San Joaquin Valley; and Tejon and Littlerock, on the East Branch of the Aqueduct. Interagency agreements are being processed to schedule their construction with department forces.

About 5,800 cyclists used the California Aqueduct Bikeway facilities in 1974; 1,600 along the Aqueduct from Bethany to O'Neill, and 4,200 in the Antelope Valley. This total represents a 60 percent increase from the 3,600 cyclists reported in 1973. During 1974, an additional 55 miles of bikeway was opened to the public, bringing the total length of bikeway in operation to nearly 150 miles.

During the drawdown of Lake Oroville for repair of trashracks, boat ramps at several locations were extended. This work included widening and extending the ramps at Lime Saddle and Loafer Creek by the Department of Navigation and Ocean Development. The Department of Parks and Recreation, under a separate contract, extended the Bidwell Canyon boat ramp.

Activities to upgrade recreational facilities at project reservoirs were also in progress at Lake Del Valle by the Department of Parks and Recreation and at Castaic Lagoon by the Los Angeles County Parks and Recreation Department. During the construction work at Castaic Lagoon, the facilities were closed except on weekends.

Additional details on recreation and fish and wildlife activities within each field division are presented in the following paragraphs:

Oroville Field Division

Recreation use during 1974, within the Oroville Field Division, totaled 1,081,800 recreation days (up 15 percent over recreation use during 1973): 144,800 recreation days at Frenchman Lake; 252,900 recreation days at Lake Davis; 177,800 recreation days at Antelope Lake; and 506,300 recreation days at Lake Oroville and the Thermalito Facilities.

During 1974, the Department of Fish and Game planted 169,000 rainbow trout in Frenchman Lake; 776,900 rainbow trout in Lake Davis; and 307,000 rainbow trout in Antelope Lake. Oroville Lake was planted with 15,000 brown trout, 37,500 silver salmon and 40,700 Eagle Lake trout.

During the 1974 season, a total of 5,908 adult king salmon and 715 adult steelhead entered Feather River Hatchery. The adult king salmon included 198 spring run fish, 5,522 fall run, and 188 winter run. From these fish, approximately 14,200,000 salmon eggs and approximately 1,130,000 steelhead eggs were taken. In addition, 225,000 steelhead eggs were taken from brood fish held at the hatchery, which appeared to be resistant to Shasta parasite.

The 1974 production from Feather River Hatchery consisted of 7,087,551 fingerling salmon weighing 75,-835 pounds, 916,410 yearling salmon weighing 83,650 pounds, 207,300 steelhead fingerlings weighing 4,400 pounds and 207,600 yearling steelhead weighing 36,-000 pounds. Grand total of fish production at Feather River Hatchery in 1974 amounted to 8,419,261 fish weighing 199,885 pounds.

The Oroville Wildlife Area provided an estimated 67,500 use days during 1974. River and pond fishing provided 36,000 days of this use while hunting for doves, quail, waterfowl, pheasants, squirrels and deer accounted for 3,400 days. Other uses such as picnicking, nature study, sightseeing, trailbike riding, etc., provided 28,100 days. Wildlife habitat planting and pond construction were continued. Development and maintenance of roads, parking areas and signs were performed.

A total of 1,400 hunter use days were recorded on the Thermalito Afterbay in 1974. Up to 40 fishermen per day were recorded during periodic checks.

Waterfowl depredation control work to reduce bird damage on adjacent agricultural areas was carried out at the Afterbay in the early fall through the use of an air-boat and pyrotechnic devices. These activities moved the waterfowl south to more suitable locations such as Gray Lodge Wildlife Area.

Delta Field Division

Facilities within the Delta Field Division received a total recreation use of 190,300 recreation days in 1974 (down 17 percent from recreation use during 1973): 162,200 recreation days at Lake Del Valle; 3,200 recreation days at Clifton Court Forebay; 1,000 recreation days at Cottonwood Road Fishing Access Site; 900 recreation days at Niels Hansen Fishing Access Site; 1,600 recreation days on the California Aqueduct Bikeway; and 21,400 recreation days for walk-in fishing along the California Aqueduct.

Waterfowl hunters at Clifton Court Public Shooting Area experienced their best season since 1971. Approximately 548 hunters took 896 birds for 1.6 birds per hunter. Scull boaters took 794 birds (89%) and averaged 2.6 birds per hunter.

The Department of Fish and Game submitted a wildlife habitat plan to the Department of Water Resources for the development of wildlife cover in the vacant areas around the perimeter of the forebay. Quail Brush will be planted to provide nesting and escape cover for game and nongame species. Final approval of the plan is pending.

During 1974, the Delta Fish Protective Facility removed a total of 30,614,544 fish from the water being exported south and returned them to the Delta. This is the largest number of fish salvaged since the facility has been in operation. The three most abundant species salvaged were striped bass—23,923,342 (78%), American shad—2,219,252 (7%) and white catfish—1,330,359 (4%).

During the latter part of April and May of 1974 pumping at the Delta Pumping Plant was not minimized as required by our water rights permits from the Water Resources Control Board. The conditions requiring minimized pumping were modified by the Board at the request of the Departments of Fish and Game and Water Resources in order to continue studies on the impact of export pumping on survival of young striped bass. These studies were undertaken by the four agencies—(1) California Department of Fish and Game, (2) California Department of Water Resources, (3) U. S. Fish and Wildlife Service, and (4) U. S. Bureau of Reclamation.

Gill net sampling in Bethany Reservoir yielded 42 white catfish, 8 striped bass, 3 channel catfish, and 1 tule perch. Most fish were under 12 inches in length except for striped bass, which were up to 21 inches. During 1974, 59,944 catchable-sized rainbow trout were planted in Del Valle Reservoir, Alameda County, by the Department of Fish and Game.

In accordance with the March 10, 1969 Memorandum of Understanding between the U. S. Bureau of Reclamation, U. S. Fish and Wildlife Service, Department of Water Resources, and the Department of Fish and Game to maintain and rebuild salmon stocks in the San Joaquin River drainage area, the rock barrier was reinstalled on September 17 at the head of Old River to aid the 1974 fall migration of salmon to spawning areas upstream of Stockton. Salmon will not migrate through areas with dissolved oxygen levels below 5.0 ppm.

Just prior to installation of the barrier, dissolved oxygen levels were below 5.0 ppm in a number of areas of the San Joaquin River near Stockton. By late September all but one station was above 5.0 ppm and by October 10, all stations were above 5.0 ppm. The barrier was removed on November 1.

San Luis Field Division

Facilities in the San Luis Field Division received 399,500 recreation days of use during 1974 (up 9 percent from the 1973 level): 378,800 recreation days at San Luis Reservoir, O'Neill Forebay, and Los Banos Reservoir; 900 recreation days at Canyon Road Fishing Access Site; 800 recreation days at Mervel Avenue Fishing Site; 1,000 recreation days at Fairfax; 400 recreation days at Avenal Cutoff Fishing Access Site; and 16,000 recreation days for "walk-in" fishing along the Aqueduct.

The Department of Fish and Game carried out an angler creel census program at O'Neill Forebay and San Luis Reservoir. Creel censuses were conducted two to four weekend days per month to gather angler catch data at each reservoir. Estimates for 1974 are as follows: 98,000 striped bass and 39,300 fish of other species, mostly white catfish, lesser numbers of channel catfish and a few other species were caught at O'Neill Forebay. At San Luis Reservoir, it was estimated that anglers caught 146,000 striped bass and 2,900 fish of other species, mostly white catfish.

Planting of wildlife habitat along the California Aqueduct between Los Banos and Kettleman City continued. Approximately 24 miles of right of way were planted to honey mesquite with a scattering of other shrubbery. Plantings made in former years have shown excellent wildlife response. Pheasants, doves, rabbits and songbirds, which were scarce in these areas prior to the plantings, are now abundant. Trial plantings continue in the test area near Buttonwillow. Several plants are now being used which show promise of being suitable for this harsh, dry environment.

San Joaquin Field Division

During 1974, fishing access sites in the San Joaquin Field Division received 15,500 recreation days of use (down 62 percent from 1973 use): 3,500 recreation days at Lost Hills; 7,900 recreation days at Buttonwillow; 2,900 recreation days at Cadet Road; and 1,200 recreation days at Kettleman City.

Fish sampling activities on the California Aqueduct were carried out by the Department of Fish and Game. A total of 12 samples were taken from Bethany Forebay to just beyond Buena Vista Pumping Plant. Results indicate that there is a good population of fish from Bethany up to and including O'Neill but South of O'Neill populations are very sparse. Populations consist mostly of white catfish with much smaller numbers of striped bass. Pond smelt are quite abundant in certain locations. Small numbers of channel catfish, threadfin shad, and a variety of other species are also present.

Most of the fish species present at the intake of A. D. Edmonston (Tehachapi) Pumping Plant have succeeded in surviving the lift over the Tehachapi Mountains. Fish sampling at the end of the Carley V. Porter Tunnel by Department of Fish and Game indicated the presence of bluegill, striped bass, and white catfish, threadfin shad, green sunfish, and sculpin.

Southern Field Division

Recreation use at facilities within the Southern Field Division totaled 2,319,000 recreation days during 1974 (up 215 percent over 1973 use): 1,056,300 recreation days at Castaic Lake; 426,100 recreation days at Silverwood Lake; 4,300 recreation days along the bikeway; 119,400 recreation days at Pyramid Lake; and 712,900 at Lake Perris.

Routine stocking of catchable-size trout was carried out at the four project reservoirs. A total of 338,000 rainbow trout were planted. Also during 1974, each lake received a planting of channel catfish. Slightly over 227,000 catfish were stocked.

Pyramid Lake. On August 24, the U. S. Forest Service opened day-use facilities at Pyramid Lake, including a launching ramp, picnic units, a swimming beach, and parking for 300 cars and trailers. These facilities were developed by the Department of Navigation and Ocean Development. During the first month of operation, the development received more than 15,000 recreationists and over 1,300 boats were launched.

The lake was planted with nearly 700 adult largemouth bass to serve as a nucleus for establishment of a bass fishery. Bass spawning was confirmed when young-of-year were found during August. Pyramid opened for fishing in late August with a capacity crowd. Fishing was good for catfish and panfish; however, trout fishing was poor. The trout planted in the fall of 1973 did not make a showing.

Lake Perris. More than 50,000 people visited Lake Perris during the first two weeks after the opening to recreation on April 6, 1974. Some 11,000 persons jammed the facilities on July 1, the first day of fishing on the lake, forcing officials to turn away additional visitors two and one-half hours after it opened.

Establishment of the warmwater fishery began with the stocking of 100 adult spotted bass imported from Alabama. Spawning was verified in July when young-of-year bass were found along the dam. The lake opened to fishing on July 1, 1974. During the first week, approximately 17,000 rainbow trout, weighing about 2 pounds each, were caught.

Approximately 50 acres of wildlife habitat were developed by planting trees and shrubs. In addition, two and a half miles of shoreline will be upgraded for waterfowl by planting alkali bullrush this spring. Portions of the Lake Perris area were opened for waterfowl and upland game hunting in 1974 with marginal waterfowl and excellent upland game success recorded.

California Aqueduct. During 1974 the second phase of a five-year wildlife enhancement program was completed along the Mojave Division of the California Aqueduct. Over 400 acres of wildlife habitat were developed by planting trees and shrubs that are of known value as food and cover sources. Over 20,000 trees and shrubs were planted this past year on the north side of the Aqueduct between the Tehachapi Afterbay and Munz Rock Road. Several hundred dove and quail hunters hunted the area developed in 1973, with good success recorded in the area between the Tehachapis and Three Points.

During dewatering operations in the Aqueduct, approximately 1,700 striped bass and 100 channel catfish were rescued by the Department of Fish and Game. Fifteen hundred striped bass were released in Pyramid Lake. The rest of the bass and the channel catfish were returned to sections of the Aqueduct not involved in the dewatering.

CHAPTER V. PROJECT FINANCING

As of December 31, 1974, more than \$2.24 billion had been expended by the Department for constructing the facilities of the State Water Project. These expenditures include costs of planning, design, financing, relocations, land acquisition, and operations during the construction period of each facility.

Although the initial project facilities were completed in 1973, continuing construction will be required to satisfy growing demands under existing obligations. The Department's current assumptions concerning costs of future facilities indicate that project construction expenditures will eventually total almost \$4.0 billion, culminating in 1997 with completion of additional project conservation facilities. (The \$4.0 billion does not include the expected construction cost of approximately \$1.1 billion for the additional project conservation facilities that have been assumed for financial analysis purposes, and which would be financed and constructed by the Federal Government.) This estimate does not include any potential financial costs to the Department for possible supplemental sources of pumping power now being studied—such as for participating in proposed power plants (see Chapter I). Under current expectations, any such obligations in excess of other available funds would be financed by the sale of revenue bonds.

Also excluded from the above estimate are the costs of project-associated works which, though essential for realizing full project benefits, are financed and constructed by local and state public agencies other than the Department. Such associated works include:

Distribution systems required to convey water from project aqueducts to users, financed and constructed by water contractors and their member units. The costs of such works are estimated to total \$3.9 billion, \$2.2 billion of which had been incurred as of the end of 1974.

Onshore recreation developments at project facilities, financed and constructed by a variety of state and local agencies. Almost \$100,000,000 had been expended for such developments through 1974, with a like amount expected in the future.

On the other hand, the Department's capital expenditures for the Project include requirements other than those for construction, such as:

- Disbursements under the Davis-Grunsky Act Program.
- Special capital requirements under revenue bond financing.
- Annual principal and interest payments for additional water conservation storage capacity assumed to be eventually constructed by the United States. Such additional storage would be required to satisfy water delivery commitments after 1990 under current assumptions.

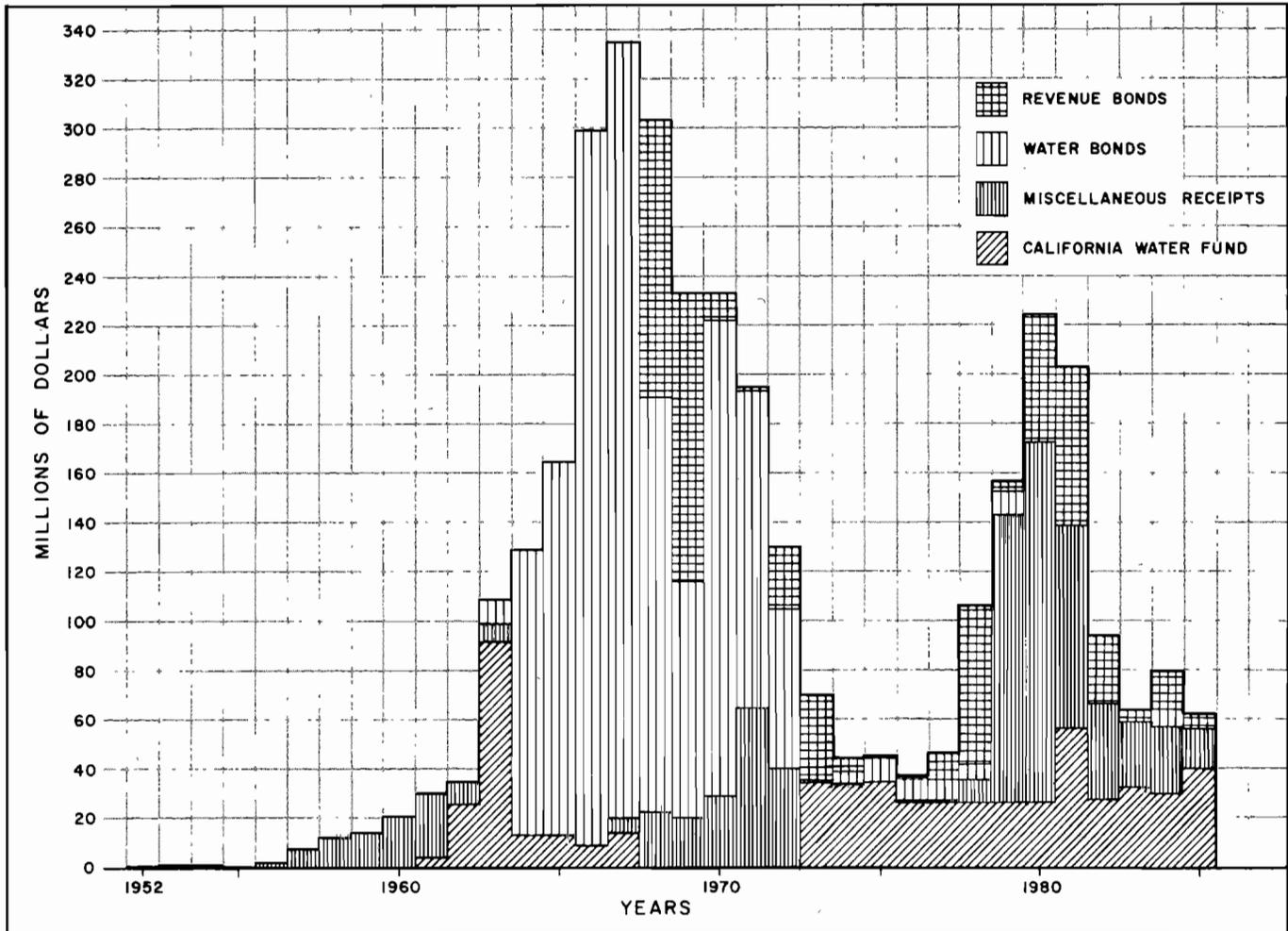
This chapter presents a detailed analysis showing a financially viable State Water Project, producing revenues which are sufficient to pay all annual costs of operations and maintenance, to meet all repayment obligations on funds used to finance construction and, eventually, to produce financing for additions to the Project that may be authorized in the future.

The financial analysis is shown in Table 7, in two spreads. Actual and projected capital expenditures and sources of financing are shown in Spread 1 and, graphically, in Figure 15. Actual and anticipated revenues and the application thereof to pay project operating expenses and to repay capital financing are shown in Spread 2 and, graphically, in Figure 16.

The financial analysis is based on the major assumption that the Department would sell revenue bonds in connection with the construction of certain future project facilities—with proceeds sufficient to fulfill currently estimated need for supplemental financing. (Supplemental financing refers to funds in excess of those (1) on hand; (2) anticipated under current agreements, legislative enactments, and authorized bond issues; and (3) assumed to be provided under future agreements with the United States in connection with the Delta facilities and additional project conservation facilities.)

The analysis indicates a total need for supplemental construction funds of \$153 million (\$167 million including bond interest, operating costs, and bond

**Figure 15: FINANCING OF CONSTRUCTION EXPENDITURES
1952-1985**



discount) occurring during the five-year period 1980 through 1984.

The Department now expects that additional funds covering the above need for supplemental construction funds would be supplied by future sale of revenue bonds associated with Pyramid Powerplant on the West Branch and Cottonwood Powerplant on the East Branch, California Aqueduct. Preliminary estimates are that the generation from the proposed powerplants could support an issue providing the needed additional construction funds. Although the need for such additional moneys is still several years in the future, the Department is currently studying several alternative bases for such bonds to determine the optimum approach—not only to provide funds for construction of Pyramid and Cottonwood Powerplants but also for participation in any cooperative power developments.

Future conditions undoubtedly will cause changes in the financial analysis set forth in Table 7. For this reason, basic assumptions are comprehensively re-

viewed and the financial analysis updated periodically. Notable contingencies not reflected in the financial analysis include:

- A delay beyond the current 1978 target date for financial participation by the United States in the construction of joint-use Delta Facilities. The United States' share of the cost, including interest, is estimated to be \$297 million.
- A reduction of the scope of future flood control developments in Northern California by the United States with less possibilities of the State contracting for conservation storage therein as currently assumed for required additional project conservation facilities.
- Deviation from estimates of available energy and its costs.
- Deviation of actual rates of future construction price inflation from those currently assumed for cost estimates.

Changes in annual state tideland oil and gas revenues to be available to the Project from amounts now provided for by statutes.

Rescheduling of currently planned construction for future facilities.

Possible development of alternative sources of additional water not included in present plans.

Need to expand the Project to serve areas not now contemplated.

Changes in contractors' entitlements due to changing needs.

Construction contractors' claims.

Furthermore, the outcome of certain lawsuits now pending before the courts (see Chapter I) could impose requirements noticeably affecting project capital expenditures or anticipated project revenues.

The first contingency listed above undoubtedly

Figure 16: APPLICATION OF PROJECT OPERATING REVENUES

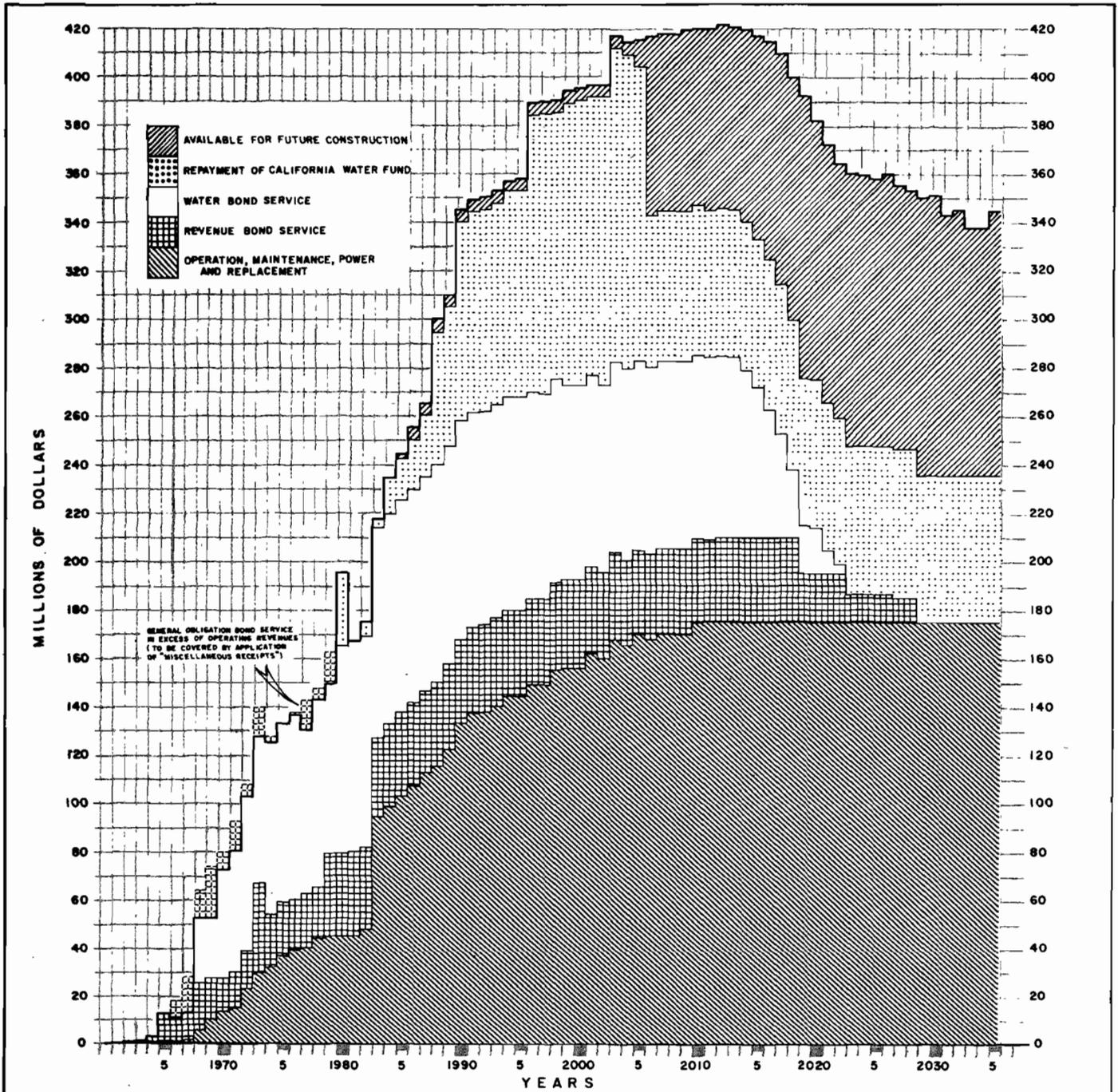


TABLE 7: PROJECT FINANCIAL

(IN THOUSANDS)

LINE NO.	LINE ITEM	CALENDAR						
		1952-1974	1975	1976	1977	1978	1979	1980
								<u>CAPITAL</u>
	PROJECT CONSTRUCTION EXPENDITURES							
1.	INITIAL PROJECT FACILITIES	2,163,826	0	0	0	0	0	0
2.	ABBEY BRIDGE AND DIXIE REFUGE DAMS AND RESERVOIRS	743	0	0	117	328	1,050	6,208
3.	PHASE II OF THE NORTH BAY AQUEDUCT	163	325	945	1,541	7,222	12,282	626
4.	DELTA FACILITIES	24,428	6,642	9,938	15,980	37,504	77,003	130,409
	CALIFORNIA AQUEDUCT.							
5.	FINAL FOUR UNITS AT DELTA PUMPING PLANT	8	271	943	1,883	2,543	2,647	1,318
6.	SAN LUIS CANAL MODIFICATIONS	0	150	0	0	0	0	0
7.	FINAL THREE UNITS AT A. D. EDMONSTON PUMPING PLANT	0	0	0	0	87	1,059	3,451
8.	STAGED UNITS AND PIPE LINES SOUTH OF A. D. EDMONSTON	5,945	9,055	1,728	35	88	123	1,670
9.	BUTTES DAM AND RESERVOIR	50	0	0	0	0	0	0
10.	FINAL THREE UNITS AT LAS PERILLAS AND BADGER HILL	0	0	0	749	21	138	425
11.	PEACE VALLEY PIPELINE AND PYRAMID POWERPLANT	1,784	1,031	2,626	11,298	31,792	35,341	22,833
12.	COTTONWOOD POWERPLANT	2,365	0	6	71	314	2,207	2,962
13.	PHASE II OF THE COASTAL BRANCH	0	0	0	1,932	3,295	12,970	46,215
14.	GENERAL COSTS	28,233	18,406	10,082	4,464	936	2,703	4,389
15.	SUBTOTAL, CALIFORNIA AQUEDUCT	38,385	28,913	15,385	20,432	39,076	57,188	83,263
16.	MISCELLANEOUS PROJECT COSTS	1,383	2,873	2,113	1,016	439	381	309
17.	ADDITIONAL CONSERVATION FACILITIES, CONVEYANCE WORKS	8,241	193	215	227	236	244	339
18.	SAN JOAQUIN DRAINAGE FACILITIES	6,778	273	292	291	287	241	191
19.	TOTAL PROJECT CONSTRUCTION EXPENDITURES	2,243,947	39,219	28,888	39,604	85,092	148,389	221,345
	OTHER CAPITAL REQUIREMENTS							
20.	DAVIS-GRUNSKY ACT PROGRAM	89,856	7,826	7,340	7,330	7,320	7,310	3,018
21.	ADDITIONAL CONSERVATION FACILITIES, STORAGE WORKS	0	0	0	0	0	0	0
22.	SPECIAL CAPITAL REQUIREMENTS UNDER REVENUE BOND FINANCING	39,122	0	0	0	14,520	0	0
23.	TOTAL OTHER CAPITAL REQUIREMENTS	128,978	7,826	7,340	7,330	21,840	7,310	3,018
24.	TOTAL CAPITAL REQUIREMENTS	2,372,925	47,045	36,228	46,934	106,932	155,699	224,363
								<u>FINANCING OF</u>
25.	APPLICATION OF CALIFORNIA WATER FUND MONEYS	243,621	36,363	27,939	26,701	25,750	25,750	25,750
	APPLICATION OF PROCEEDS FROM SALE OF BONDS.							
26.	OROVILLE REVENUE BONDS	244,995	0	0	0	0	0	0
27.	DEVIL CANYON-CASTAIC REVENUE BONDS	57,282	2,663	734	12,676	50,950	4,000	5,000
28.	SUPPLEMENTAL REVENUE BONDS	0	0	0	0	14,520	0	41,514
29.	WATER BONDS, DAVIS-GRUNSKY PROGRAM	89,856	7,826	7,340	7,330	7,320	7,310	3,018
30.	WATER BONDS, ADDITIONAL FACILITIES	8,241	193	215	227	236	244	339
31.	WATER BONDS, INITIAL PROJECT FACILITIES	1,443,758	0	0	0	0	0	0
32.	TOTAL, APPLICATION OF PROCEEDS FROM SALE OF BONDS	1,844,132	10,682	8,289	20,233	73,026	11,554	49,871
33.	APPLICATION OF MISCELLANEOUS RECEIPTS TO CONSTRUCTION	285,172	0	0	0	8,156	118,395	148,742
34.	TOTAL FINANCING OF CAPITAL REQUIREMENTS	2,372,925	47,045	36,228	46,934	106,932	155,699	224,363

ANALYSIS, DECEMBER 31, 1974

OF DOLLARS)

YEAR										GRAND TOTAL	LINE NO.
1981	1982	1983	1984	1985	1986- 1995	1996- 2005	2006- 2015	2016- 2025	2026- 2035		
<u>EXPENDITURES</u>											
0	0	0	0	0	0	0	0	0	0	2,163,826	1
6,425	5,776	6,305	0	0	0	0	0	0	0	26,952	2
95	25	20	1	0	0	0	0	0	0	23,245	3
135,237	59,976	38,390	45,469	24,205	0	0	0	0	0	605,181	4
1,182	2,411	3,275	3,373	1,324	0	0	0	0	0	21,178	5
500	1,500	3,682	9,148	10,440	0	0	0	0	0	25,420	6
6,558	9,162	7,845	2,971	0	0	0	0	0	0	31,133	7
2,538	2,155	342	0	0	0	0	0	0	0	23,679	8
0	467	1,157	10,757	12,739	0	0	0	0	0	25,170	9
552	154	0	0	254	0	0	0	0	0	2,293	10
2,945	0	0	0	0	0	0	0	0	0	109,650	11
3,632	3,007	395	0	0	0	0	0	0	0	14,959	12
39,757	6,798	1,487	456	12	0	0	0	0	0	112,922	13
2,229	974	121	48	247	0	0	0	0	0	72,832	14
59,893	26,628	18,304	26,753	25,016	0	0	0	0	0	439,236	15
323	334	262	184	139	0	0	0	0	0	9,756	16
605	887	987	6,760	6,435	571,830	116,029	0	0	0	713,228	17
199	206	211	211	211	1,030	0	0	0	0	10,421	18
202,777	93,832	64,479	79,378	56,006	572,860	116,029	0	0	0	3,991,845	19
0	0	0	0	0	0	0	0	0	0	130,000	20
0	0	0	0	0	125,030	510,770	605,200	605,200	605,200	2,451,400	21
0	0	0	0	5,832	0	0	0	0	0	59,474	22
0	0	0	0	5,832	125,030	510,770	605,200	605,200	605,200	2,640,874	23
202,777	93,832	64,479	79,378	61,838	697,890	626,799	605,200	605,200	605,200	6,632,719	24
<u>CAPITAL EXPENDITURES</u>											
57,110	27,280	31,768	29,615	40,397	697,890	626,799	605,200	605,200	605,200	3,738,333	25
0	0	0	0	0	0	0	0	0	0	244,995	26
8	8	3	0	5,841	0	0	0	0	0	139,165	27
64,542	26,232	5,875	14,594	0	0	0	0	0	0	167,277	28
0	0	0	0	0	0	0	0	0	0	130,000	29
605	887	987	6,760	0	0	0	0	0	0	18,934	30
0	0	0	0	0	0	0	0	0	0	1,443,758	31
65,155	27,127	6,865	21,354	5,841	0	0	0	0	0	2,144,129	32
80,512	39,425	25,846	28,409	15,600	0	0	0	0	0	750,257	33
202,777	93,832	64,479	79,378	61,838	697,890	626,799	605,200	605,200	605,200	6,632,719	34

TABLE 7: PROJECT FINANCIAL

(IN THOUSANDS)

LINE NO	LINE ITEM	CALENDAR						
		1952-1974	1975	1976	1977	1978	1979	1980
	MISCELLANEOUS RECEIPTS							
35.	FEDERAL PAYMENTS FOR PROJECT CAPITAL EXPENDITURES	74,666	708	115	117	27,277	46,983	73,649
36.	APPROPRIATIONS PRIOR TO THE BURNS-PORTER ACT	98,975	0	0	0	0	0	0
37.	APPROPRIATIONS FOR CAPITAL COSTS ALLOCATION TO RECREATION	45,000	5,000	5,000	5,000	5,000	5,000	5,000
38.	APPROPRIATIONS UNDER SB 261 1968	82,661	0	0	0	0	0	0
39.	CITY OF LOS ANGELES PAYMENTS FOR CASTAIC POWER DEVELOPMENT	37,427	0	0	0	0	0	0
40.	WATER CONTRACTOR ADVANCES FOR CONSTRUCTION REQUESTED WORKS	71,007	1,320	34	18	47	28	12
41.	INVESTMENT EARNINGS ON UNEXPENDED MISCELLANEOUS RECEIPTS	52,176	10,300	10,900	12,200	14,700	16,200	11,900
42.	TOTAL MISCELLANEOUS RECEIPTS	461,912	17,328	16,049	17,335	47,024	68,211	90,561
	PROJECT OPERATING REVENUES							
43.	PAYMENTS UNDER OROVILLE POWER SALE CONTRACT	93,287	16,150	17,057	19,175	16,228	16,331	16,562
44.	PAYMENTS UNDER DEVIL CANYON-CASTAIC CONTRACT	16,489	8,311	7,336	8,337	8,337	8,337	8,337
45.	PAYMENTS ASSUMED FOR SUPPLEMENTAL REVENUE BONDS	0	0	0	0	0	11,919	11,919
46.	PAYMENTS UNDER LONG-TERM WATER SUPPLY CONTRACTS	407,773	95,931	104,348	100,107	112,291	105,740	153,324
47.	FEDERAL PAYMENTS FOR PROJECT OPERATING COSTS	9,717	2,744	2,113	2,175	2,172	2,168	2,167
48.	APPROPRIATIONS FOR OPERATING COSTS ALLOCATED TO RECREATION	3,563	4,278	1,805	1,822	1,831	1,803	2,004
49.	PAYMENTS UNDER DAVIS-GRUNSKY LOAN REPAYMENT CONTRACTS	1,336	224	250	282	431	517	636
50.	MISCELLANEOUS REVENUES	99,132	2,030	2,030	2,030	2,030	16,550	2,030
51.	TOTAL PROJECT OPERATING REVENUES	631,297	129,668	134,939	133,928	143,320	163,365	196,979
52.	TOTAL MISCELLANEOUS RECEIPTS AND PROJECT OPERATING REVENUES	1,093,209	146,996	150,988	151,263	190,344	231,576	287,540
	APPLICATION OF MISCELLANEOUS RECEIPTS							
53.	CARRYOVER (+) AND APPLICATION (-) OF RECEIPTS AND REVENUES HELD TEMPORARILY IN RESERVE	52,588	18,720	12,138	5,135	33,934	-64,334	-58,181
54.	PROJECT OPERATING COSTS	131,133	37,425	38,837	40,555	43,617	44,624	45,341
55.	DEPOSITS TO SPECIAL RESERVES UNDER REVENUE BOND FINANCING	47,076	285	1,197	3,313	366	14,996	706
	PAYMENT OF BOND SERVICE							
	BONDS SOLD THROUGH DECEMBER 31, 1974							
56.	INTEREST PAYMENTS	569,050	84,091	89,652	89,208	88,629	87,913	87,090
57.	PRINCIPAL REPAYMENTS	8,190	6,475	8,555	11,835	14,425	15,465	17,965
	ASSUMED FUTURE BOND SALES							
58.	INTEREST PAYMENTS	0	0	609	1,217	1,217	14,517	14,517
59.	PRINCIPAL REPAYMENTS	0	0	0	0	0	0	0
60.	TOTAL BOND INTEREST PAYMENTS	569,050	84,091	90,261	90,425	89,846	102,430	101,607
61.	TOTAL BOND PRINCIPAL REPAYMENTS	8,190	6,475	8,555	11,835	14,425	15,465	17,965
62.	REPAYMENT OF THE CALIFORNIA WATER FUND	0	0	0	0	0	0	31,360
63.	APPLICATION OF MISCELLANEOUS RECEIPTS TO CONSTRUCTION	285,172	0	0	0	8,156	118,395	148,742
64.	SUBTOTAL, REPAYMENT OF CAPITAL FINANCING	293,362	6,475	8,555	11,835	22,581	133,860	198,067
65.	RESERVATION FOR FUTURE CONSTRUCTION	0	0	0	0	0	0	0
66.	TOTAL APPLICATION OF MISCELLANEOUS RECEIPTS AND PROJECT OPERATING REVENUES	1,093,209	146,996	150,988	151,263	190,344	231,576	287,540

ANALYSIS, DECEMBER 31, 1974

OF DOLLARS)

YEAR										GRAND TOTAL	LINE NO
1981	1982	1983	1984	1985	1986- 1995	1996- 2005	2006- 2015	2016- 2025	2026- 2035		
<u>PROJECT OPERATING REVENUES</u>											
66,832	29,311	18,536	22,088	12,102	0	0	0	0	0	372,384	35
0	0	0	0	0	0	0	0	0	0	98,975	36
5,000	5,000	5,000	5,000	5,000	50,000	50,000	50,000	50,000	50,000	350,000	37
0	0	0	0	0	0	0	0	0	0	82,661	38
0	0	0	0	0	0	0	0	0	0	37,427	39
80	14	10	21	29	0	0	0	0	0	72,620	40
8,600	5,100	2,300	1,300	500	0	0	0	0	0	146,176	41
80,512	39,425	25,846	28,409	17,631	50,000	50,000	50,000	50,000	50,000	1,160,243	42
16,492	16,150	16,150	31,001	19,750	183,530	164,761	161,500	161,782	191,800	1,157,706	43
8,337	8,337	9,237	9,231	9,222	91,722	91,144	93,061	67,499	0	453,274	44
12,999	12,999	12,999	12,999	12,999	137,159	136,985	131,920	127,499	37,059	659,455	45
123,723	129,787	170,925	186,804	193,496	2,712,749	3,470,098	3,665,769	3,316,181	3,126,612	18,175,658	46
2,169	2,587	2,577	2,574	3,225	32,052	31,915	31,906	31,906	31,906	196,073	47
2,029	2,171	2,880	3,049	3,334	34,860	35,807	37,415	37,733	37,730	214,114	48
1,094	1,320	1,900	2,318	2,552	28,015	27,104	24,742	17,321	5,569	115,611	49
2,030	2,030	2,030	2,030	2,030	300	300	300	300	300	137,482	50
168,873	175,381	218,698	250,006	246,608	3,220,387	3,958,114	4,146,613	3,760,221	3,430,976	21,109,373	51
249,385	214,806	244,544	278,415	264,239	3,270,387	4,008,114	4,196,613	3,810,221	3,480,976	22,269,616	52
<u>AND PROJECT OPERATING REVENUES</u>											
0	0	0	0	0	0	0	0	0	0	0	53
45,994	48,103	92,416	97,912	102,682	1,295,866	1,594,358	1,729,208	1,752,288	1,754,410	8,894,769	54
638	299	304	15,154	3,903	25,308	7,155	4,948	1,785	0	127,433	55
86,124	85,064	83,931	82,671	81,351	730,900	547,016	286,988	32,002	0	3,111,680	56
20,070	21,380	23,665	25,105	26,050	329,270	478,660	682,450	244,600	0	1,934,160	57
14,517	14,517	14,517	14,517	14,517	135,485	105,631	82,980	48,120	4,124	481,002	58
0	0	0	0	510	41,819	31,230	38,140	68,575	29,695	209,969	59
100,641	99,581	98,448	97,188	95,868	866,385	652,647	369,968	80,122	4,124	3,592,682	60
20,070	21,380	23,665	25,105	26,560	371,089	509,890	720,590	313,175	29,695	2,144,129	61
1,530	6,018	3,865	14,647	17,595	661,739	1,185,979	605,200	605,200	605,200	3,738,333	62
80,512	39,425	25,846	28,409	15,600	0	0	0	0	0	750,257	63
102,112	66,823	53,376	68,161	59,755	1,032,828	1,695,869	1,325,790	918,375	634,895	6,632,719	64
0	0	0	0	2,031	50,000	58,085	766,699	1,057,651	1,087,547	3,022,013	65
249,385	214,806	244,544	278,415	264,239	3,270,387	4,008,114	4,196,613	3,810,221	3,480,976	22,269,616	66

would have the most significant impact on the indicated need for supplemental construction funds during the 1980 through 1984 period. If federal participation in financing the Delta Facilities does not commence by the 1978 target date—and should no federal construction funds be forthcoming for the Facilities as assumed in the analysis—the indicated need for supplemental funds would increase during

the 1978 through 1985 period. This need would be more than the estimated funding capability of Pyramid Revenue Bonds, but would not occur prior to 1980. In that eventuality, the Department anticipates that other means of financing would be pursued.

The following sections describe the individual line items of Table 7 and current assumptions related thereto.

Project Construction Expenditures

Actual projected construction expenditures for each construction division of the Project are shown in Table 8—together with a preliminary allocation of such total expenditures among project purposes.

Estimates of future construction expenditures are based on prices and salaries prevailing on December 31, 1974, with the following percentages applied to allow for inflation:

Year	Percent Increase Per Annum	
	State Salaries	Construction Prices
1975	8	10
1976	6	8
1977	5	6
1978 thru 1980	4	5
1981 and 1982	4	5
After 1982	0	0

Land acquisition costs are assumed to escalate 7.25 percent per annum.

The estimates for future construction expenditures shown in last year's bulletin contained an allowance for inflation (see page 66, Bulletin 132-74). However, 1974 construction costs alone increased nearly 25 percent over 1973 costs. This increase has a significant impact on cost of the Project's future facilities, particularly the Delta Facilities, Pyramid Power Complex, and the additional conservation facilities. It appears that the majority of last year's increase was a catch-up in costs from government-controlled levels since November 1971. Consequently, the Department believes the 10 percent inflation rate used for 1975 construction costs (and the others shown above for subsequent years) in this chapter are adequate for analysis purposes.

Described in the following sections are the Department's current assumptions concerning the costs of each facility of the future construction program as set forth in Table 7. As to any project not yet constructed, a decision to proceed will be made only after completion of a final environmental impact report and other review processes.

Line 1: Initial Project Facilities. This is the current cost of the facilities included in the initial construction program concluded in 1973 (see Chapter II, Bulletin 132-74). Estimated costs of remaining work on the initial project facilities are included in Lines 14 and 16, "California Aqueduct, General Costs" and "Miscellaneous Project Costs".

Line 2: Abbey Bridge and Dixie Refuge Dams and Reservoirs. For current purposes of cost analysis, the Department assumes that the remaining recreation reservoirs to be constructed in the Upper Feather Area would be completed in 1981 and 1983, respectively. However, actual construction depends on the future growth of demands for water-oriented recreation in the area. Additional studies concerning potential impact of Abbey Bridge continued during 1974. The studies were initiated by the Department in 1972 at the request of the Plumas County Board of Supervisors (see page 3, Bulletin 132-73). The county held a public hearing on the project on March 17, 1974. The report on the potential impact of Abbey Bridge (Bulletin 139A) is expected to be completed in mid-1975.

In March 1975 the County Board of Supervisors recommended that Abbey Bridge be postponed until all reservoir areas in the county are brought up to standard for camping, sanitary facilities, and full capacity use. The Department is not planning on performing any activities on Abbey Bridge in 1975, other than completing the potential impact report.

Line 3: Phase II of the North Bay Aqueduct. Special provisions of the water supply contracts with Solano and Napa County Flood Control and Water Conservation District include the following:

"The State shall not commence construction of any portion of the North Bay Aqueduct east of Cordelia (Phase II) until 1975 or such earlier date as may hereafter be agreed upon by the State, the Agency, and all other contractors taking water from the North Bay Aqueduct."

Article 6(a) of these contracts also specifies 1980 as the estimated initial year of water delivery from the Delta. (Under the present arrangements, Napa County purchases Putah South Canal water from Solano County which is transported from Cordelia through Phase I of the North Bay Aqueduct to Napa.)

The current schedule for Phase II is to initiate final design during fiscal year 1975-76, construction during 1978, and deliveries in 1980.

Line 4: Delta Facilities. For current purposes of cost analysis, the Delta Facilities (including the fish protection works) are assumed to be operational in 1982 to convey water from the Sacramento River to the existing State Water Project and Central Valley Project pumping plants for export and to 12 release facilities to distribute water to Delta channels to maintain water quality within prescribed criteria. A

canal of sufficient capacity to supply local Delta needs and to convey waters of both the federal Central Valley Project and the State Water Project is assumed. A low-lift pumping plant near the Canal Intake would be installed so as to be operational by 1985. Amounts shown in Line 4 include estimated total annual expenditures for the entire joint-use facility, exclusive of any federal planning costs.

Of the \$581 million total future costs shown for the Delta Facilities (1975 and thereafter), \$561 million represents design, right-of-way, and construction costs of a Peripheral Canal, pumping plant, and fish protection works. The remaining \$20 million includes \$16 million for the costs of completing Delta planning and environmental studies and \$4 million for operating and allocated general project costs to be incurred during the construction period. (Delta water

TABLE 8: PROJECT CONSTRUCTION EXPENDITURES

(in thousands of dollars)

FACILITIES AND CONSTRUCTION DIVISIONS	INCURRED 1974	FUTURE CONSTRUC- TION PROGRAM	TOTAL	PRELIMINARY ALLOCATIONS AMONG PROJECT PURPOSES			
				Water Supply and Power Generation	Flood Control (a)	Recreation and Fish and Wildlife Enhancement	Other ^(b)
Feather River Facilities:							
Upper Feather Division	14,250	26,262	40,512	1,279	0	39,233	0
Oroville Division	505,368	4,366	509,734	429,624	68,461	11,649	0
North Bay Aqueduct	4,141	23,082	27,223	27,223	0	0	0
Delta Facilities	24,428	580,753	605,181	270,530	0	44,012	290,639
South Bay Aqueduct	69,958	127	70,085	49,411	7,170	13,480	24
California Aqueduct:							
North San Joaquin Division	154,540	23,867	178,407	172,213	0	6,194	0
San Luis Division	177,395	25,999	203,394	195,905	0	7,266	223
South San Joaquin Division	259,504	5,399	264,903	256,951	0	7,952	0
Tehachapi Division	259,912	44,368	304,280	295,160	0	9,120	0
Mojave Division	205,928	51,451	257,379	249,102	0	8,277	0
Santa Ana Division	177,082	8,969	186,051	175,734	0	10,317	0
West Branch	354,692	124,141	478,833	461,788	0	16,834	211
Coastal Branch	14,568	116,657	131,225	131,120	0	0	105
Subtotal	1,603,621	400,851	2,004,472	1,937,973	0	65,960	539
Additional Conservation Facilities	8,241	704,987	713,228	708,564	0	525	4,139
San Joaquin Drainage Facilities	6,778	3,643	10,421	0	0	0	10,421
Unassigned	7,162	3,827	10,989	0	0	0	10,989
TOTAL	2,243,947	1,747,898	3,991,845	3,424,604	75,631	174,859	316,751

a) Reflects Department's allocation to this purpose, irrespective of federal payments.

b) Includes costs currently unassigned to purpose, planning costs of deleted features of project facilities, initial costs of inventoried items, and joint costs assigned to the Federal Government.

quality monitoring costs are included in Line 54 as annual operating costs.) These costs do not include construction of western Delta or Suisun Marsh facilities, which may or may not be needed.

Line 5: California Aqueduct, Final Four Units at Delta Pumping Plant. Two of these 1,067-cubic-foot-per-second units would be operational in 1980 (schedule under review) and the remaining two in 1985.

Line 6: California Aqueduct, San Luis Canal Modifications. These modifications would be required to maintain and, eventually, to augment the present conveyance capacity between Dos Amigos Pumping Plant and Kettleman City. Measures to compensate for subsidence along the Canal would cost about \$9 million (state share) during the period 1975 through 1983. Allowance is included for a total expenditure of about \$16 million during the period 1984 through 1985 for increasing the State's share of conveyance capacity by about 1,000 cubic feet per second. This increase would be required to accommodate greater projected deliveries than estimated in 1959 when design capacities were established for the Canal.

Line 7: California Aqueduct, Final Three Units at A. D. Edmonston (Tehachapi) Pumping Plant. These 315-cubic-foot-per-second units would be operational in 1984.

Line 8: California Aqueduct, Staged Units and Pipelines South of A. D. Edmonston (Tehachapi) Pumping Plant. Additional capacity would be installed as needed to convey growing project water deliveries through staged features, including the second barrels of Pastoria Creek Siphon (to be completed in 1982) and Antelope Siphon (to be completed in 1975); the final two pumping units and discharge line at Pearblossom Pumping Plant and the final generating unit and penstock at Devil Canyon Powerplant (to be operational in 1976); and Castaic Dam and Outlet Works, Second Stage (to be completed in 1980).

Line 9: California Aqueduct, Buttes Dam and Reservoir. Current assumptions are that this off-aqueduct reservoir would be operational by 1986 to regulate project water deliveries to Antelope Valley-East Kern Water Agency. Under the Agency's water supply contract, construction of the facility by the State is conditioned on engineering and financial feasibility.

Line 10: California Aqueduct, Final Three Units at Both Las Perillas and Badger Hill Pumping Plants. These 112-cubic-foot-per-second units have already been installed by the Berranda Mesa Water District, at the District's expense, under special agreements with the Department. Current assumptions are that the Department would replace Unit No. 4 by December 1981 and would purchase, at depreciated values, Unit No. 5 (together with the second discharge line at Badger Hill Pumping Plant, also constructed by the District) in January 1977, and Unit No. 6 in January 1985.

Line 11: California Aqueduct, Peace Valley Pipeline and Pyramid Powerplant. A description of the permanent facilities which the Department plans for conveying water deliveries through the West Branch when project flows grow to exceed the capacity of the Gorman Creek Improvement in the early 1980s is presented in Chapter I of Bulletin 132-74. These facilities are now scheduled to be operational in 1981.

Costs shown in Line 11 for the Powerplant and Peace Valley Pipeline are not representative of either (1) the total project costs which could be allocated to the purpose of power generation at Pyramid or (2) the magnitude of revenue bonds which could be supported by such generation.

Line 12: California Aqueduct, Cottonwood Powerplant. This proposed power recovery plant on the East Branch is scheduled for operation in 1983. Since Cottonwood Energy Dissipator Chutes are already constructed, the powerplant is not essential for conveying water deliveries. However, the plant could generate an amount of energy equivalent to burning nearly 200,000 barrels of oil a year in an oil-fired thermal plant. Therefore, the possibility of accelerating the schedule for this plant is being investigated.

Line 13: California Aqueduct, Phase II of the Coastal Branch. Phase II construction of the Coastal Branch would include and extend from the proposed Devil's Den Pumping Plant to a terminus on the Santa Maria River for water service to San Luis Obispo and Santa Barbara County Flood Control and Water Conservation Districts. Both Santa Barbara and San Luis Obispo requested a two-year delay of initial project water deliveries, which resulted in the construction schedule for Phase II of the Coastal Branch being delayed two years; the initial year of project water deliveries is now estimated to be 1982. While actual deliveries will be delayed, provisions of the water supply contracts require payments of the Delta Water Charge by the two districts beginning in 1980.

Line 14: California Aqueduct, General Costs. These expenditures cover such items as general design and construction costs, completion of aqueduct monitor and control systems and operation and maintenance facilities, and other costs associated with aqueduct operations as a whole. Portions of these costs would be allocated to the aqueduct units described in the preceding paragraphs.

Line 15: Subtotal, California Aqueduct. The total of Lines 5 through 14.

Line 16: Miscellaneous Project Costs. These expenditures cover such items as the completion of monitor and control systems and other completion activities for initial project facilities other than the California Aqueduct.

Line 17: Additional Conservation Facilities, Conveyance Works. The water supply provided by Oroville and San Luis Reservoirs and the Delta Facilities will eventually be insufficient to satisfy growing water delivery obligations under executed contracts.

The financial analyses in recent editions of Bulletin 132 have been based on meeting needs for additional water supply which would have begun in 1996 and reached a maximum of 700,000 acre-feet per year.

Bulletin 160-74, "The California Water Plan, Outlook in 1974", dated November 1974, re-analyzed the need for additional project water supply and presented four projections, based on alternative levels of growth. All but the lowest growth projection result in approximately the same need for additional project water supply; demands would begin about 1988 and reach a maximum of about 1,100,000 acre-feet per year.

At present, the Department has not determined a final plan for obtaining additional water supplies to meet ultimate project needs. It is considering a number of possible actions, but a decision is not expected for several years. However, for purposes of the financial analysis, it is assumed that needs for additional water would be met by contracting for use of about 200,000 acre-feet per year of temporarily available but unused conserved water in the Delta from 1988 through 1995; obtaining 200,000 acre-feet per year beginning in 1990 from the authorized federal Cottonwood Creek Project, with the State contracting for storage under the Water Supply Act of 1958; and, finally in 1996, an unspecified development to meet the remaining 900,000 acre-feet of project water needs.

Some form of an Eel River Development has been the Department's basis for estimating costs of additional conservation facilities shown in the Bulletin 132 series. The Upper Eel River Development was officially designated by the Department in 1964. Beginning with Bulletin 132-68, the cost basis has been a Corps-constructed Middle Fork Eel River Development (with the State repaying conservation storage costs under a contract to be developed under the federal Water Supply Act of 1958) in conjunction with a state-constructed Dos Rios-Grindstone Tunnel.

The Corps has no present plans for constructing this project and a prohibition has been imposed on construction on the Eel River by the California Wild and Scenic Rivers Act (California Statutes of 1972, Chapter 1259). However, this basis has been retained, for financing purposes only, as being representative of the eventual costs of meeting the remaining project water needs. Shown in Line 17 are the estimated costs of State construction of a Dos Rios-Grindstone Tunnel. Companion payments for storage in Corps-constructed reservoirs are included in Line 21. (See pages 6-7, Bulletin 132-73, for a more complete description of previous actions concerning Eel River Development.)

Although work on engineering aspects of any Eel River Development has been suspended by the Department, some studies are continuing so as to provide additional information on environmental effects and enhancement possibilities as required by the California Wild and Scenic Rivers Act for a 1985 report to the Legislature.

Line 18: San Joaquin Drainage Facilities. Included are the costs for (1) monitoring the quality of subsurface agricultural waste waters in the San Joaquin Valley, (2) completing joint studies at Firebaugh concerning the feasibility of agricultural waste water treatment, and (3) reactivating studies of San Joaquin Valley drainage and salt management problems. Bulletin 127-74, "Status of San Joaquin Valley Drainage Problems", dated December 1974, provides a base for the reactivated studies.

Costs and revenues for the San Joaquin Drainage Facilities, included in Bulletin 132-74, are not included in this analysis because the conclusions reached in Bulletin 127-74 indicate:

- a San Joaquin Valley salt management system needs to be developed.
- a financing and repayment plan must be determined.

Line 19: Total Project Construction Expenditures. The total of Lines 1 through 18.

Figure 17: LOCAL PROJECTS UNDER THE DAVIS-GRUNSKY ACT PROGRAM

Other Capital Requirements

In addition to construction expenditures, capital requirements of the Project include the items discussed in the following paragraphs:

Line 20: Davis-Grunsky Act Program. This state financial assistance program for water developments constructed by local public agencies is associated with the State Water Project to the extent of \$130 million in capital expenditures. Such expenditures include disbursements under approved loans and grants and the Department's administrative costs incurred while the respective developments are under construction. (Administrative costs following construction are funded by project revenues.)

As of December 31, 1974, the Department and the California Water Commission had approved more than \$94.8 million in grants and loans for 73 local agencies located throughout the State as indicated on Figure 17. New loan applications were approved during 1974 for the following agencies:

- \$2,050,000 construction loan to American Canyon County Water District, Napa County.
- \$100,000 construction loan to Humboldt Bay Municipal Water District, Improvement District "A", Humboldt County.
- \$1,067,000 construction loan to Westwood Community Services District, Lassen County.

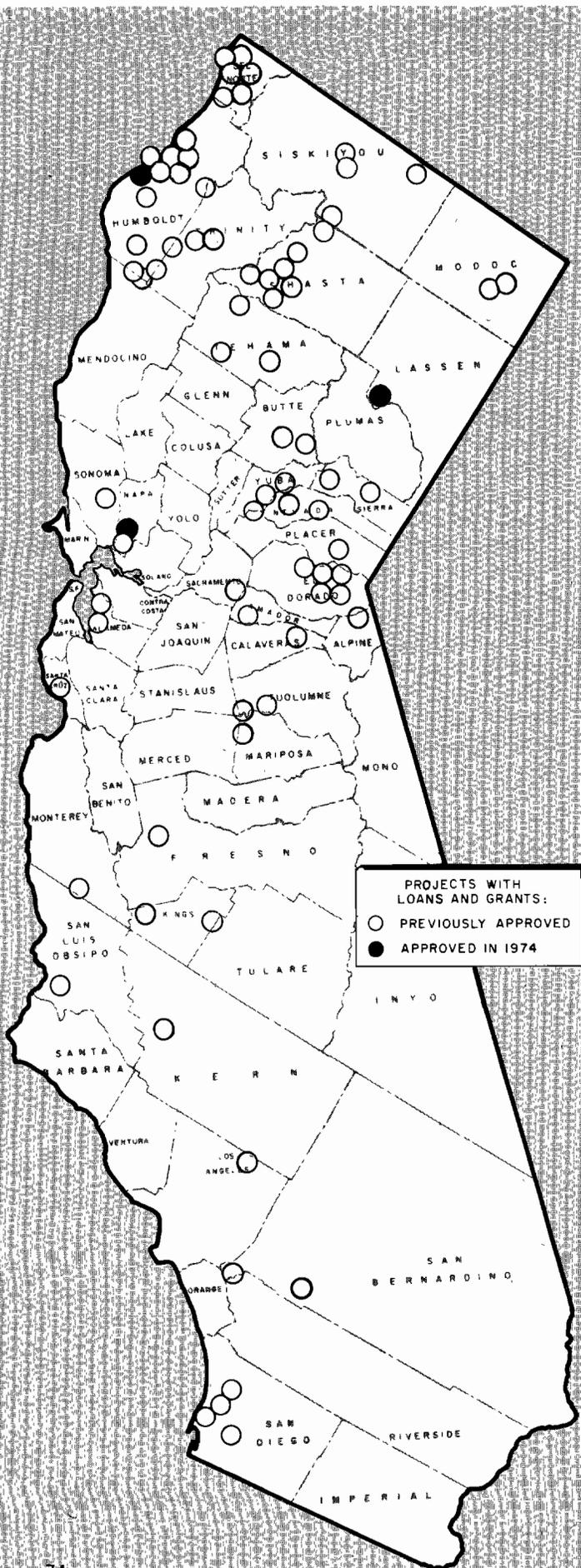
Two reductions in previously approved grants were made in 1974 as follows:

- -\$3,947,400 San Bernardino Valley Municipal Water District.
- -\$944,000 Oroville-Wyandotte Irrigation District.

Of the total approved applications, over \$35.1 million (37 percent) were for loans and the remaining \$59.7 million (63 percent) were for grants.

The Department estimates that funds presently authorized for the Program would be disbursed by about 1980.

Line 21: Additional Conservation Facilities, Storage Works. As indicated for Line 17, the Department's illustrative costs assume construction of reservoir storage by the Corps of Engineers, with costs allocated to water conservation repaid by the State under a federal Water Supply Act of 1958 contract. Line 21 includes an estimate of such annual repayments and includes costs for interim purchase of temporarily available unused conserved water in the Delta during the period 1988 through 1995.



Line 22: Special Capital Requirements Under Revenue Bond Financing. In addition to construction expenditures, the authority under which revenue bonds have been sold requires that proceeds shall also fund interest and operation of the financed facilities through one year following completion of construction. Application of proceeds to these requirements are shown below for actual and assumed revenue bond sales.

The \$6 million shown for 1985 in Line 22 is the portion of Devil Canyon-Castaic Revenue Bond proceeds reserved for future construction (see the description of Line 27).

Line 23: Total, Other Capital Requirements. The total of Lines 20 through 22.

Line 24: Total Capital Requirements. The total of Lines 19 and 23.

Application of Revenue Bond Proceeds	Oroville (actual)	Devil Canyon- Castaic (actual)	Supplemental (assumed)
	(in millions)		
Construction expenditures	\$218.0	\$127.1	\$155
Plus, Other capital requirements:			
Reimbursement of General Fund	\$ 2.6	\$ 0.0	\$ 0.0
Bond interest through one year following completion of construction	19.9	10.0	12.6
Operating costs for one year following completion of construction	1.5	0.7	0.7
Bond discount	3.0	1.4	1.7
Subtotal	\$ 27.0	\$ 12.1	\$ 15.0
TOTAL, Principal amount of bonds	\$245.0	\$139.2	\$170

Financing of Capital Expenditures

Three general types of financing have been used for the Project:

Burns-Porter financing, derived from the sale of *California Water Resources Development Bonds* (Water Bonds) and a portion of the State's tideland oil and gas revenues that are deposited in the *California Water Fund* as authorized by the Burns-Porter Act (California Water Code Sections 12930-12944), approved by the Electorate in 1960.

Revenue Bond financing, derived from the sale of revenue bonds as authorized by the Central Valley Project Act (California Water Code Sections 11100-11925). The Department's authority to issue revenue bonds was confirmed by a decision of the Supreme Court of California in 1963 (*Warne v. Harkness*, 60 Cal, 2d 579).

Miscellaneous Receipts, derived from payments and appropriations (including certain additional tideland oil and gas revenues) as authorized by a variety of special contracts, cost-sharing agreements, and legislative actions concerning the State Water Project.

To date, Water Bonds have financed most of the construction costs of the Project. The Burns-Porter Act authorized an issue of \$1.75 billion of general

obligation bonds of the State, which are made self-supporting by revenues under the water supply contract. This authorization includes a reservation of \$130 million specifically for the Davis-Grunsky Act Program. Proceeds from the sale of Water Bonds are deposited in the California Water Resources Development Bond Fund-Bond Proceeds Account, from which moneys may be expended only for the construction of project facilities and for the Davis-Grunsky Act Program.

Moneys deposited in the California Water Fund are appropriated for purposes of the Burns-Porter Act. Such deposits are derived from a portion of the State's tideland oil and gas revenues under a continuing authorization. In the past, the Legislature has acted both to decrease and increase the level of deposits. Money may be expended from the Fund only for the construction of project facilities and for the Davis-Grunsky Act Program.

Almost \$384.2 million of revenue bonds had been sold by the Department as of December 31, 1974—no additional bonds were sold during 1974. Future issues of revenue bonds are planned to supplement project financing. Proceeds from the sale of revenue bonds are deposited in the *Central Valley Water Project Construction Fund*, from which money is expended

only for purposes specified in the resolution authorizing such sale. These purposes in addition to construction costs include the payment of (1) bond interest during the construction period, and for one year following completion of construction, and (2) operating costs during a period of one year after completion of construction.

Miscellaneous receipts are deposited in the Central Valley Water Project Construction Fund and may be expended for (1) Water Bond interest and (2) construction of project facilities. Under the Department's financial management, miscellaneous receipts are first used during the early years of the Project to the extent needed for coverage of any Water Bond interest which exceeds available revenues.

Described below is the application of funds to capital expenditures under the financial analysis.

Line 25: Application of California Water Fund Moneys. The Burns-Porter Act provides that any available money in the California Water Fund shall be used in lieu of proceeds from the sale of Water Bonds. When the Act became effective in late 1960, approximately \$97 million had been accumulated in the Fund. This balance and continuing annual appropriations to the Fund through June 28, 1968 financed a total of \$176 million of project construction costs. On June 28, 1968, SB 261 became effective (California Statutes of 1968, Chapter 411) which transferred the remaining balance to the Central Valley Water Project Construction Fund and deferred accruals to the California Water Fund until July 1, 1972. Since the latter date, appropriations again are being deposited in the California Water Fund in annual amounts of \$25 million.

The projected use of appropriations to the California Water Fund is shown in the financial analysis only to the extent required under current estimates of future construction expenditures. However, the Department expects that appropriations to the Fund would continue indefinitely in the full annual amounts now provided for by law. The Department also expects that repayments to the California Water Fund, to be derived from project revenues in excess of operating costs and Water Bond service, would be available for financing future capital expenditures — particularly, the long-range costs of additional conservation facilities and San Joaquin Drainage Facilities.

Under present California law, the State's annual tideland revenues are allocated in the following manner: approximately \$4 million to the General Fund; \$25 million to the California Water Fund; \$5 million to the Central Valley Water Project Construction Fund; and the remainder to capital outlay for higher education.

The financial analysis indicates that full annual appropriations of tideland revenues to the California Water Fund (and short-term interest earnings there-

on, amounting to an estimated \$0.75 million annually) would be required for financing construction expenditures through 1991. While the Department expects that full annual appropriations would continue to be available to the Fund, the financial analysis indicates that required expenditures from the Fund would be less than \$25 million annually after 1990. Commencing in 1980, annual project repayments to the Fund (see Line 63, Spread 2) would supplement annual appropriations. After about 1992, all future financing could be provided by such repayments.

Finally, it is emphasized that the projected use of the California Water Fund is based on current estimates and assumptions as to the timing and magnitude of future capital costs. Such costs could change significantly with future events especially in regard to the nature and timing of additional conservation facilities and San Joaquin Drainage Facilities.

Line 26: Application of Proceeds from Sale of Oroville Revenue Bonds. All proceeds from sale of Oroville Revenue Bonds in April 1968 (Series A) and in April 1969 (Series B), had been applied as of December 31, 1973.

Line 27: Application of Proceeds from Sale of Devil Canyon-Castaic Revenue Bonds. Construction funds provided by the sale of Devil Canyon-Castaic Revenue Bonds, in August 1972, include (1) \$98.9 million, which reimbursed other project funds used to finance construction of the Devil Canyon and Castaic Facilities prior to the delivery of the bonds; and (2) \$28.2 million, which was reserved to complete construction of the Facilities. Shown in Line 27 is the projected use of funds so reimbursed for construction of works other than the Facilities and of funds reserved for future completion of the Facilities. Current estimates of future completion costs of the Facilities are less than funds reserved by about \$6 million. Such costs include the installation of the second generating unit in the Devil Canyon Powerplant.

Line 28: Application of Proceeds from Sale of Supplemental Revenue Bonds. As previously indicated, a future revenue bond issue is assumed to provide \$153 million for application to the construction expenditures shown in this analysis. This amount is, in effect, a balancing item to complete the State Water Project as now contemplated. Future developments could reduce or increase this amount.

Line 29: Application of Proceeds from Sale of Water Bonds, Davis-Grunsky Act Program. For simplification, the \$130 million of capital expenditures authorized for the Davis-Grunsky Act Program under the Burns-Porter Act are shown to be funded solely by proceeds from the sale of Water Bonds. Actually \$28.0 million of the California Water Fund was used for the Program in lieu of bond proceeds prior to 1969. This simplification does not in any way affect the validity of the analysis.

Line 30: Application of Proceeds from Sale of Water Bonds, Additional Conservation Facilities. The Burns-Porter Act provides that to the extent California Water Fund moneys are expended, an equal amount of proceeds from the sale of Water Bonds is reserved ("offset") for financing the construction of certain additional conservation facilities to be located in either or both the North Coastal area and the Sacramento Valley. In mid-1972, the maximum reservation of "offset" bonds was effectively limited to \$176 million—the total amount of California Water Fund moneys which had been expended up to that time. By mid-1972, all remaining Water Bond proceeds from the Burns-Porter authorization had either been "offset" or reserved for the Davis-Grunsky Act Program.

Under the analysis, \$157 million of the \$176 million reservation would not be required for financing additional conservation facilities on the assumption that associated storage would, in fact, be constructed by the United States and capital provided by the Congress. The remaining costs of the facilities could be financed by available funds other than "offset" bonds. However, the timing required for such construction, or use of some alternative development in lieu of the one assumed for this analysis, would have a significant bearing on the projected use of "offset" bonds.

Line 31: Application of Proceeds from Sale of Water Bonds, Initial Project Facilities. This application, completed in mid-1972, was limited to \$1.444 billion—i.e., the total \$1.75 billion Burns-Porter authorization less \$130 million reserved for the Davis-Grunsky Act Program and \$176 million "offset" for additional conservation facilities.

Line 32: Total Application of Proceeds from Sale of Bonds. The total of Lines 26 through 31. (See Table 9 for a summary of actual and projected bond sales, together with information concerning interest costs and principal maturities.)

Line 33: Application of Miscellaneous Receipts to Construction. Since the first call on miscellaneous receipts is to insure coverage of Water Bond interest, the estimated portion of receipts remaining for application to capital expenditures depends on an analysis, shown on Spread 2 of Table 7, of total available receipts and revenues in relation to operating costs and bond service requirements.

Line 34: Total Financing of Capital Requirements. This line—the total of Lines 25, 32, and 33—matches Line 24 and confirms that all capital expenditures would be funded under the analysis.

Miscellaneous Receipts

Sources of miscellaneous receipts are described in the following paragraphs:

Line 35: Federal Payments for Project Capital Expenditures. The federal share of the State's Capital expenditures include payments for (1) "open-space" grants at certain project reservoirs, (2) costs of Lakes Oroville and Del Valle allocated to flood control under existing agreements, and, under current expectations, (3) a share of the State's construction costs of the Delta Facilities under a future agreement. In the analysis, only the State's share of costs is included for works constructed by the United States, such as the San Luis joint-use facilities.

About \$1.5 million in federal payments had been received in previous years for the acquisition costs of project and recreation lands reserved for open space at Lakes Perris and Del Valle and Castaic Lake.

Federal payments received through December 31, 1974 for project costs allocated to flood control totaled \$73.1 million—\$68.2 million for Lake Oroville and \$4.9 million for Lake Del Valle. Line 35 includes an allowance for an additional \$0.9 million of payments for Lake Oroville. This additional amount is subject to revision after the Corps completes its final audit of the Department's records of joint costs.

Payments for Lake Del Valle are complete under the present agreement. While not included in Line 35, there is a possibility of an additional payment under

a supplemental agreement (see page 5, Bulletin 132-72). The South Pacific Division, Corps of Engineers, released a public notice on February 9, 1973, on its review of the Del Valle flood control payments. The District Engineer found that modification of the Del Valle cost allocation was justified because of a substantial increase of costs and because economic patterns of development in the flood plain had changed from the original projection shown in Senate Document No. 128. As a result, the District Engineer recommended that the federal payment be increased by \$0.57 million. At the end of 1974, the District's report was under review by the Secretary of the Army. The Secretary's office is expected to send it to the Office of Management and Budgets early in 1975.

The amounts shown in Line 35 for 1978 and thereafter are for assumed federal financial participation in the Delta Facilities. In accordance with the Bureau of Reclamation's feasibility report on the Peripheral Canal as an addition to the federal Central Valley Project (approved by the Secretary of the Interior), construction costs of the joint-use Delta Facilities would be shared with the State on a 50-50 basis. The amounts shown in Line 35 are based on the assumption that Congressional Authorization for federal participation would be secured so that payments to the State would commence in 1978, based on a concur-

TABLE 9: BOND SALES AND PROJECT INTEREST RATES

Bond Sales	Date of Sale	Dollar-years (^a)	Interest Cost (^b)	Percent Interest Cost (^c)	Project Interest Rate (^d)
	(1)	(2)	(3)	(4)	(5)
<u>Actual Issues</u>					
\$50,000,000 Bond Anticipation Notes	11/21/63	26,944	531	1.970	1.970
\$100,000,000 Series "A" Water Bonds	2/18/64	3,402,000	119,750	3.520	3.508
\$50,000,000 Series "B" Water Bonds	5/ 5/64	1,726,000	60,986	3.533	3.516
\$100,000,000 Series "C" Water Bonds	10/ 7/64	3,452,000	123,764	3.585	3.544
\$100,000,000 Series "D" Water Bonds	2/16/65	3,497,900	122,403	3.499	3.531
\$100,000,000 Series "E" Water Bonds	11/23/65	3,497,900	130,029	3.717	3.573
\$100,000,000 Series "F" Water Bonds	6/ 8/66	3,497,900	137,359	3.927	3.638
\$100,000,000 Series "G" Water Bonds	11/22/66	3,497,900	143,788	4.111	3.711
\$100,000,000 Series "H" Water Bonds	3/21/67	3,497,900	129,261	3.695	3.709
\$100,000,000 Series "J" Water Bonds	7/18/67	3,497,900	143,199	4.094	3.754
\$100,000,000 Series "K" Water Bonds	11/14/67	3,497,900	163,887	4.685	3.853
\$150,000,000 Revenue Bonds, Oroville Division, Series "A"	4/ 3/68	5,228,700	270,289	5.197	-
\$100,000,000 Series "L" Water Bonds	7/11/68	3,497,900	166,918	4.772	3.941
\$100,000,000 Series "M" Water Bonds	10/22/68	3,497,900	169,989	4.860	4.021
\$94,995,000 Revenue Bonds, Oroville Division, Series "B"	4/ 1/69	3,423,460	195,902	5.767	-
\$46,761,000 Cumulative 1970 General Fund Borrowing; repaid 7/10/70	-	4,938	346	7.007	4.021
\$200,000,000 Series "N" and "P" Bond Anticipation Notes	6/16/70	200,000	11,660	5.830	4.030
\$100,000,000 Series "N" Water Bonds	2/ 2/71	3,447,900	190,292	5.519	4.148
\$100,000,000 Series "Q" Bond Anticipation Notes	3/10/71	100,000	2,349	2.350	4.143
\$100,000,000 Series "P" Water Bonds	4/21/71	3,397,900	193,377	5.691	4.255
\$150,000,000 Series "Q" and "R" Water Bonds	11/ 9/71	5,171,850	265,734	5.138	4.342
\$40,000,000 Series "S" Water Bonds	3/28/72	1,399,160	76,509	5.468	4.371
\$139,165,000 Devil Canyon-Castaic Revenue Bonds ^e	8/ 8/72	4,776,204	258,839	5.419	4.457
\$10,000,000 Series "T" Water Bonds	3/20/73	185,265	9,491	5.122	4.459
<u>Projected Issues</u>					
\$10,000,000 Series "U" Water Bonds	11/ 1/75	158,750	9,525	6.0	4.463
\$10,000,000 Series "V" Water Bonds	11/ 1/76	158,750	9,525	6.0	4.467
\$22,692,000 Series "W" Water Bonds	7/ 1/78	360,235	21,615	6.0	4.476
\$167,277,000 Supplemental Revenue Bonds	7/ 1/78	5,818,527	407,389	7.0	4.701

a) A unit equivalent to one dollar of principal amount outstanding for one year, in thousands.

b) In thousands of dollars.

c) The total interest cost (without regard to premiums received) divided by the total dollar-years, expressed as a percent.

d) Determined by dividing cumulative interest costs by cumulative dollar-years, expressed as a percent. Excluding Central Valley Project Revenue Bonds, Oroville Division, which do not affect the calculation of the "project interest rate".

e) Bonds sold at a net interest cost of 5.446 percent. Net proceeds for financing construction costs plus bond discount amounting to \$126,893,000 are used for purposes of the project interest rate.

f) Net proceeds for financing construction costs plus bond discount amounting to \$154,757,000 are used for purposes of the project interest rate.

rent 50 percent share of the State's annual construction expenditures. "Catch-up" payments for joint costs incurred prior to 1978, together with accrued interest at the State's project interest rate, are assumed to be equally distributed during the three-year period 1978 through 1980. Such "catch-up" payments to the State would total about \$28 million.

In the event that Congressional Authorization is delayed beyond the time required, the Department expects that the Bureau of Reclamation by formal agreement would contract for the conveyance of federal Central Valley Project water through State Delta Facilities. It is possible that the contract could form the basis to support the issuance of revenue bonds to finance the federal portion of the costs.

Line 36: Appropriations Prior to the Burns-Porter Act. Year-to-year appropriations by the Legislature financed all capital expenditures prior to the effective date of the Burns-Porter Act, November 8, 1960. Expenditures so financed substantially ended in 1963 and totaled about \$11 million from the General Fund and \$88 million from the Investment Fund (succeeded by the California Water Fund in 1959). These amounts exclude \$1.3 million from the Local Projects Assistance Fund which financed the Davis-Grunsky Act Program prior to \$130 million authorization of the Burns-Porter Act. While these special appropriations do not fit the general definition of "miscellaneous receipts" in that they were not deposited in the Central Valley Water Project Construction Fund, they are so classified herein for simplifying the presentation of the financial analysis.

Line 37: Appropriations for Capital Costs Allocated to Recreation and Fish and Wildlife Enhancement. By enactment of AB 12 (California Statutes of 1966, First Extraordinary Session, Chapter 27), \$5 million of the State's tideland oil and gas revenues is deposited annually in the Central Valley Water Project Construction Fund for repayment of (1) costs of constructing multiple-purpose project facilities that are allocated to recreation and fish and wildlife enhancement and (2) costs of acquiring land for recreation developments associated with project facilities. As indicated in Table 7, such costs are now estimated to eventually total about \$175 million. The \$5 million annual appropriation would extend through about 2040 in order to reimburse the Project with interest—assuming that 55 percent of such costs would be financed by Water Bonds bearing an average interest cost of 4.4 percent.

Release of the \$5 million annual appropriation to the Department for expenditure is dependent on legislative enactment approving the costs reported annually by the Department. In 1974, the Department reported costs totaling over \$63.2 million, including \$8.9 million of accrued interest (Appendix D, "Costs of Recreation and Fish and Wildlife Enhancement", Bulletin 132-74, April 1974). This was an increase of about \$6.2 million over the previous report (see

pages 8-9, Bulletin 132-74). Most of this increase was due to the reclassification of certain land originally purchased for the potential enlargement of Lake Perris as recreation land—see page 6, Bulletin 132-72. By enactment of SB 1588 (California Statutes of 1974, Chapter 536), the Legislature approved the total increased amount, which will cover annual releases through the fiscal year 1977-78 appropriation.

Recreation and fish and wildlife costs which have not as yet been reported to the Legislature include those for the California Aqueduct system south of Dos Amigos Pumping Plant, Delta Facilities, Abbey Bridge and Dixie Refuge Reservoirs, and additional conservation facilities. The costs for the California Aqueduct system south of Dos Amigos Pumping Plant are scheduled to be reported in 1976. The costs for the other facilities will be reported after construction is completed.

(By Appendix D to Bulletin 132-75, April 1975, the Department reported an additional \$1.4 million—raising the total costs reported to the Legislature to over \$64.6 million. Most of this increase was due to costs incurred in 1974 and interest accrued during 1974.)

Line 38: Appropriations Under SB 261 (1968). By enactment of SB 261, the June 28, 1968 balance in the California Water Fund was transferred to the Central Valley Water Project Construction Fund, together with appropriations of tideland oil and gas revenues in the annual amounts of \$11 million through June 30, 1970 and \$25 million thereafter until June 30, 1972.

Line 39: City of Los Angeles Payments for Castaic Power Development. Under a 70-year contract executed September 2, 1966 (see page 12, Bulletin 132-67), the State constructed the Angeles Tunnel with a 30-foot diameter instead of with a 17-foot diameter as originally planned. In return, the City is constructing and will operate and maintain a 1,250-megawatt Castaic Powerplant and will supply the State, without charge, power equivalent in the value to that which the State would have produced in its originally planned 214-megawatt plant. The value of this substitute production is accounted for in a subsequent section as a credit to project operating costs in the same manner as other aqueduct power credits. In addition, the City has made certain payments, shown in Line 39, to ensure that the benefits of joint development are equally realized by both the State and the City. Neither the estimated capital expenditures for the Project nor the payments shown in Line 39 include amounts for the Castaic Surge Chamber—which was constructed by the State but directly financed by the City.

Line 40: Water Contractor Advances for Construction of Requested Works. In addition to the costs of local systems necessary for the distribution and use of project water, water supply contractors are required to finance, in advance, the construction costs of delivery structures (turnouts) and of any excess capacity the Department is requested to construct in

project facilities. Advance payments for State construction requested by the contractors are summarized below:

these particular costs are classified as basic project costs (see pages 22-23, Bulletin 132-67).

Line 41: Investment Earnings on Unexpended Mis-

(in millions)

Requested Excess Capacity:

• The Metropolitan Water District of Southern California:	
(a) for 188 cubic-foot per second excess capacity in reaches from Kettleman City to Junction of the West Branch	\$19.4
(b) for enlargement of Lake Perris above a basic capacity of 100,000 acre-feet	\$13.9
(c) for 787 cubic-foot per second excess capacity in the San Bernardino Tunnel	\$12.0
• San Gabriel Valley Municipal Water District:	
for 21 cubic-foot per second of excess capacity in the San Bernardino Tunnel	\$ 0.3
• Antelope Valley-East Kern Water Agency:	
for 19 cubic-foot per second excess capacity in the reaches of the West Branch from the Junction through Quail Facilities	\$ 0.3
Subtotal	\$45.9
Required advance payment of water charges by The Metropolitan Water District of Southern California for originally requested excess capacity in the West Branch, now classified as basic project capacity	\$16.3
Requested delivery structures constructed or to be constructed by the State	\$ 9.7
Total water supply contractor advances for state construction of requested works	\$71.9

Excess capacity may be requested for the purpose of increasing the instantaneous rates of water delivery over the "peaking" rates normally provided for by the contracts.

Advance payments for requested excess capacity are determined by contract formula so as to assure more than sufficient funds to cover the additional construction costs involved. A complete determination of the additional construction costs by the Department was pending as of December 31, 1974. For purposes of the financial analysis, the Department expects that such advance payments would exceed the additional construction costs involved, with interest, by about \$39 million. Credits for the assumed overpayments have been applied to reduce estimated project revenues which otherwise would be derived from water charges, described in a subsequent section.

The costs of requested excess capacity do not include expenditures incurred for strengthening the tunnel linings and siphons of the Tehachapi Crossing so as to accommodate a possible future 1,260-cubic-foot-per-second increase in capacity—or of constructing East Branch canals so as to accommodate a possible future 700-cubic-foot-per-second increase in capacity. By agreement with the contractors,

cellaneous Receipts. Normally, unexpended project funds are invested in the Surplus Money Investment Fund of the State Treasurer. Interest earnings of the Fund are computed and credited in six-month increments. Interest earnings during the last half of 1974 were at a rate of 10.35 percent per annum—a record high. For the financial analysis, the Department estimates that future interest earnings of the Fund will average 7.5 percent per annum.

However, Line 41 also includes the interest earnings on unexpended proceeds from the sale of Devil Canyon-Castaic Revenue Bonds and unexpended Supplemental Bond proceeds. In 1973, the Department obtained approval of the Department of Finance for the investment of unexpended Devil Canyon-Castaic Revenue Bond proceeds in a special fund. The proceeds will be held for a predictable number of years, generally longer than the normal investments covered by the Surplus Money Investment Fund, and can realize a greater rate of return than possible in the Fund. The special fund, managed by the State Treasurer, is expected to yield a return of about 7.1 percent per annum and is so reflected in the amounts shown in Line 41.

Line 42: Total Miscellaneous Receipts. The total of Lines 35 through 41.

Project Operating Revenues

Project operating revenues are deposited in two primary accounts: the *Central Valley Water Project Revenue Fund*, in which are placed all revenues pledged to revenue bonds, and the *California Water Resources Development Bond Fund-Revenue Account*, in which are placed all other project operating revenues, including interest earnings on any unexpended proceeds from the sale of Water Bonds.

Line 43: Power Pool Companies' Payments Under Oroville-Thermalito Power Sale Contract. The power from the Hyatt and Thermalito Powerplants was sold to the California Pool Companies under the Oroville-Thermalito Power Sale Contract of November 29, 1967. The Companies will pay \$8.075 million semiannually to the Department until contract termination, November 29, 2017, or until all of the Oroville Revenue Bonds have been retired. These payments are for the entire power capacity and for an annual theoretical net energy generation of 2.1 billion kilowatthours. Additional payment is available to the Department when the theoretical net energy amount is in excess of 2.1 billion kilowatthours. Such excess may be entered into Pacific (PG&E) and Edison-San Diego energy adjustment accounts, established by the Contract, which earn interest of 6 percent per annum.

Each year, theoretical net energy generation is determined by a computer study based on actual inflow to Lake Oroville. If theoretical net energy is in excess of 2.1 billion kilowatthours, the difference is entered as a positive amount in the energy accounts or the Department may elect to accept payment for the Pacific share (56.3 percent) of such excess at a rate of \$0.00259 per kilowatthour. If the theoretical net energy is less than 2.1 billion kilowatthours, the difference is entered as a negative amount in the energy accounts. The Department may reduce a negative energy account balance by payment to the Companies at the same rate per kilowatthour.

For the financial analysis the Department assumes that revenues from the sale or other disposal of Hyatt (Oroville)/Thermalito power will continue to be available to the Project after termination of the present contract under payment terms similar to the present contract. The project revenues shown in Line 43, pages 64 and 65 (Bulletin 132-74) include the fixed semiannual payments of \$8,075,000, revenues received for power used for project pumping prior to the "full operation" date, and estimated future net receipts under the operation of the energy adjustment accounts. It is possible that, commencing in 1983, the power will be either withdrawn to meet a portion of the project pumping requirements or sold at renegotiated higher rates. When a final course of action has been decided, prior to 1978, appropriate modification of the revenues will be made.

Line 44: Water Contractor Payments Under Devil Canyon-Castaic Contract. These payments by the six water contractors located below Devil Canyon and Castaic facilities are equal to (1) the annual service of Devil Canyon-Castaic Revenue Bonds and (2) annual operating costs of the facilities allocated to power generation (see page 2, Bulletin 132-73).

Line 45: Contractor Payments (assumed) for Supplemental Revenue Bonds. For this analysis, it is assumed that these payments would cover annual service on a future issue of revenue bonds which would provide construction funds for certain of the remaining aqueduct facilities, together with operating costs associated with such currently unspecified facilities.

Line 46: Water Contractor Payments Under Long-term Water Supply Contracts. Water supply contracts provide for payments of two general charges: (1) a Delta Water Charge and (2) a Transportation Charge.

The Delta Water Charge is assessed for each acre-foot of water the contractors are entitled to receive. The Charge is computed so as to return to the State during the contract term all appropriate costs of project conservation facilities, together with interest thereon. Project conservation facilities are defined as those facilities which conserve water, including Lake Oroville, Delta Facilities, additional conservation facilities, and San Luis Reservoir, together with a portion of the California Aqueduct leading to the Reservoir from the Delta. Current studies of operating ground water basins to provide for conservation of project water may result in an amendment of water supply contracts to include such facilities as conservation facilities. Costs allocated to flood control, recreation, and fish and wildlife enhancement are not paid under the water supply contracts. Both charges for power costs and credits for power revenues are included in the determination of the Delta Water Charge.

The Transportation Charge is computed so as to return to the State during the contract term the costs of the aqueducts necessary to deliver water to the respective contractors, together with interest thereon. Such costs also exclude those allocated to flood control, recreation, and fish and wildlife enhancement. In addition, costs of the Devil Canyon and Castaic Facilities allocable to power are excluded from the Transportation Charge and are paid under the Devil Canyon-Castaic Contract. Similarly, under the assumptions of this analysis, costs of certain aqueduct facilities to be financed by supplemental revenue bonds would not be paid under the water supply contracts but would be paid under agreements yet to be negotiated.

Each year's costs of each aqueduct reach are allocated among contractors whose deliveries are or will be conveyed through that reach. For contractors with predominantly municipal and industrial water use, the allocated amounts of each year's construction expenditures are required to be repaid, together with interest, in 50 equal annual installments. For contractors with predominantly agricultural water use, allocated construction costs are repaid by a uniform charge per acre-foot of water entitlement, computed so as to return to the State during the contract term such costs with interest.

Operating costs are paid currently under the Transportation Charge. Construction costs under the Transportation Charge and all construction and annual operating costs under the Delta Water Charge are to be repaid with interest at the "project interest rate".

The project interest rate is determined as the weighted average of the rates paid on securities is-

sued and loans obtained to finance project facilities, excluding Oroville Revenue Bonds. Under original contract provisions, the basis for determining the project interest rate was the weighted average of rates paid on Water Bond sales only. Under contract amendments executed in 1969, after issuance of Oroville Revenue Bonds, the basis was expanded to include rates on all other securities sold and loans obtained thereafter for financing project facilities, including revenue bonds (see page 28, Bulletin 132-70). However, not all proceeds from the sale of revenue bonds are melded in the calculation of the project interest rate—only those proceeds applied to construction costs (the only application of general obligation bonds permitted by law) and those consumed in the bond discount (a component of the total interest cost of a revenue bond issue). Shown below is the percent of total proceeds from revenue bond issues which affect the actual and projected calculation of the project interest rate:

Revenue Bond Proceeds	Devil Canyon-Castaic (actual)	Supplemental (assumed)
(in millions)		
Applied to construction costs	\$127.1	\$155
Less, portion of such proceeds derived from interest earnings prior to delivery of bonds	\$ 1.6	\$ 1.9
Plus, bond discount	\$ 1.4	\$ 1.7
Subtotal, proceeds included in calculating the Project Interest Rate	\$126.9	\$154.8
Principal amount of bonds	\$139.2	\$170
Percent total principal amount included in calculating the Project Interest Rate	91.0%	91.0%

Table 9 presents information basic to the calculation of actual and projected project interest rates.

A detailed development of water charges for each contractor is presented in Appendix B which is based on presently known conditions and supports the Department's determination of 1976 water charges—to be billed by July 1, 1975. However, there are the following significant differences between the projection of charges shown in Line 46 and the substantiation of 1976 charges shown in Appendix B:

Future capital costs shown in Appendix B are based on prices prevailing on December 31, 1974. Those shown in the financial analyses include allowances for future price escalation.

The project interest rate basic to charges shown in Appendix B include actual bond sales at the time this report was prepared (4.459 percent). The project interest rate basic to the charges shown in Line 46 also reflect the projected bond sales shown in Table 9.

- Pre-1976 charges shown in Appendix B represent what such charges should have been under presently known conditions. Pre-1976 charges shown in Line 46 are those actually paid under previously determined bills.
- Charges for 1976 and thereafter shown in Appendix B are unadjusted. Such charges shown in Line 46 include adjustments for any apparent overpayments or underpayments of pre-1976 charges and credits due to prepayments of the capital cost components which will result under various contract amendments involving excess aqueduct capacity.
- The charges shown in Appendix B are those which would apply in the absence of the Devil Canyon-Castaic contract or of any assumed arrangement permitting sale of supplemental revenue bonds. The charges shown in Line 46 exclude the costs covered by such actual and assumed agreements.

The charges shown in Appendix B represent billed amounts for the respective years. The amounts shown in Line 46 represent the payment of such charges, which lag billed amounts by one or more months. (For instance, certain payments or operating costs incurred during a particular year will actually accrue to the State during the early months of the following year.)

The Delta Water Charge in Appendix B does not include the cost for purchasing 200,000 acre-feet per year of unused conserved water in the Delta from 1988 through 1995, and the cost of the federal Cottonwood Creek Project.

Line 47: Federal Payments for Project Operating Costs. Under the December 31, 1961 Agreement between the State and the United States, the Department operates and maintains the San Luis joint-use facilities. Under the January 12, 1972 Supplement to the Agreement, the United States pays 45 percent of the costs incurred by the Department for these activities (excluding power costs); the percent is subject to review in 1975. The amounts shown in Line 47 are based on the assumption that the current percent federal share would be extended indefinitely.

Line 47 also includes an assumed 50 percent federal share of the joint operating costs of the Delta Facilities (also excluding power costs) as proposed in the Bureau's feasibility report on the Peripheral Canal.

Line 48: Appropriations for Operating Costs Allocated to Recreation. Under the Davis-Dolwig Act, the Legislature declared its intent that, except for funds provided pursuant to AB 12 (1966), the Depart-

ment's budget shall include appropriations from the General Fund of moneys necessary for enhancement of fish and wildlife and for recreation in connection with state water projects. The \$5 million annual AB 12 appropriation is for repayment of construction expenditures—annual operating costs allocated to recreation and fish and wildlife enhancement are paid by General Fund appropriations.

Line 49: Local Agency Payments Under Davis-Grunsky Loan Repayment Contracts. As pointed out in the description of Line 20, \$35.1 million in loan applications had been approved as of December 31, 1974. The amounts shown in Line 49 are based on the assumption that \$23.4 million in future contracts would be approved—bringing estimated total loans under the \$130 million authorization (which excludes an initial loan of about \$1.3 million) to \$57.2 million (44 percent). All future loans are assumed to be repaid in 50 years at 2.5 percent interest, with an initial five-year deferment of principal repayment.

Line 50: Miscellaneous Revenues. Miscellaneous revenues include annual payments by the City of Los Angeles for a share of the maintenance costs of the Angeles Tunnel, interest earnings on unexpended proceeds from sale of Water Bonds, and other short-term investment earnings on project revenues. Based on experience to date, an allowance of \$2 million annually through 1985 is included in Line 51 to approximate the latter earnings.

Line 51: Total Project Operating Revenues. The total of Lines 43 through 50.

Line 52: Total Miscellaneous Receipts and Project Operating Revenues. The total of Lines 42 and 51.

Application of Revenues and Miscellaneous Receipts

Revenues pledged to revenue bonds, deposited in the *Central Valley Water Project Revenue Fund*, are disbursed in accordance with resolutions authorizing the issuance of such bonds. All other operating revenues, deposited in the *California Water Resources Development Bond Fund-Revenue Account*, are disbursed in accordance with the following priorities of use as specified in the Burns-Porter Act:

- (1) Project operating costs.
- (2) Water Bond service.
- (3) Repayment of project expenditures from the California Water Fund.
- (4) Deposits to a reserve for future construction of the State Water Resources Development System—a system of facilities which may be added to under certain authorizations of the Legislature and designations by the Department as specified in the Burns-Porter Act, and which includes the State Water Project.

Line 53: Carryover (@) and Application (-) of Miscellaneous Receipts and Revenues Held Temporarily in Reserve. The only carryover of receipts and revenues from year to year concerns a temporary reserve to insure that future annual service on Water Bonds will be met. Portions of annual miscellaneous receipts accruing after 1984 and all such receipts accruing after 1985—not needed for either bond service or construction expenditures under this analysis—are included in Line 65 as being available for financing future construction of the State Water Resources Development System.

Line 54: Project Operating Costs. Historical and estimated project operating costs are presented in Table 10 by: (1) project facilities; (2) type of component cost; and (3) project purpose. Allowances for future long-term price escalation are not included in these estimates since operating costs do not substantially affect the overall results of the financial analysis. (For the most part, changes of operating

costs cause direct, offsetting changes of operating revenues.)

Project pumping energy requirements will continue to increase over the next 20 years at an average rate of about 380 million kilowatthours annually, ultimately reaching 13 billion kilowatthours by the year 2020. Presently, resources available for operation of the Project include Canadian Entitlement Power, the California Suppliers, the Bonneville Power Administration, and project recovery plants. Ultimately, approximately 30 percent of the energy requirement will be met from project recovery generation. Since the Bonneville Power Administration increased the rate for surplus energy as of December 20, 1974, such energy is no longer economical for off-peak pumpings. The rates for Canadian Entitlement and Suppliers' power sources are fixed until March 31, 1983, and will provide the Department with relatively inexpensive power through this date.

After March 31, 1983, project power costs are expected to increase dramatically. Canadian Entitlement Power will no longer be available. Suppliers and other sources of power are expected to be available at four to five times our present very low rates.

Bulletin 132-74 was the third step of a program initiated in Bulletin 132-72 to update power costs for the post-1982 years to reflect more realistic price levels. This price level, however, was estimated in 1972 and has since become outdated. Power costs have escalated at record rates since 1972, more than doubling in the intervening years. In order to provide more realistic project power cost estimates for planning purposes, the post-1982 power costs in this Bulletin have been updated to reflect the most current cost estimates available. This essentially doubles the post-1982 power costs reported in Bulletin 132-74. Under ultimate water delivery conditions power costs are now estimated to be about \$190 million annually, including costs of transmission service.

The Department continues to assume for financing purposes that the power used in addition to the Department's own generating plants will be obtained from one or more power plants developed and financed by the State with one or more of the California utilities, with only supplemental off-peak energy purchased from other sources. However, studies by the State will also consider projects which could be constructed by the State alone. The Department also assumes that the State's share of such power plant or plants will be financed with project revenue bonds. Substantial increases in power costs, even above those presently estimated, can be expected after 1982 if power is not available from cooperatively developed power projects.

No allowance has been made in this bulletin for any reductions in water use which may result from increases in the cost of water due to increased power costs.

Line 55: Deposits to Special Reserves Under Revenue Bond Financing. Only those deposits derived from project operating revenues and miscellaneous receipts are shown in this line.

In regard to Oroville Revenue Bonds, such deposits include the following:

- Payments to the Department for energy and generating capability prior to April 1, 1969, under terms of interim letter agreements, and all other power revenues for a period of one year following completion of construction.
- Payments to the Department from the energy adjustment account for net annual energy generation in excess of 2.1 billion kilowatthours.
- Federal flood control contributions in the amount of \$2.4 million for allocated operations and maintenance costs.

In regard to Devil Canyon-Castaic Revenue Bonds, such deposits consist of about \$9.2 million to provide a reserve approximating maximum annual bond service. For this analysis, a proportionately similar reserve is assumed for Supplemental Revenue Bonds.

The ultimate effect of these reserves, together with interest earnings thereon, is to accelerate the last year that operating revenues are applied to revenue bond service. For simplicity, the operation of these reserves is ignored in the financial analysis.

Lines 56-57: Payment of Service on Bonds Sold as of December 31, 1974. Tables 12 and 13 of Bulletin 132-72 show annual interest and principal payments on individual series sold prior to 1972—Oroville Revenue Bonds (Series A and B) and Water Bonds (Series A through R). Annual service on Devil Canyon-Castaic Revenue Bonds and Series S Water Bonds sold during 1972 is shown in Table 10 of Bulletin 132-73. Table 11 of Bulletin 132-74 provides a summary of annual service on Series T Water Bonds. As shown, principal repayments on Water Bonds commenced in 1973.

It should be noted that Line 56 also includes over \$0.3 million in interest payments to the General Fund for the temporary loan of \$46.8 million in 1970—repaid by proceeds from the sale of Series N Water Bonds.

Line 58-59: Assumed Payments of Service on Future Bond Sales. Table 11 shows the projected annual service on future Supplemental Revenue Bonds and Water Bonds (Series U through W) under the assumptions of this analysis.

Assumptions concerning the service on future Supplemental Revenue Bonds are as follows:

- The net interest cost would average 7.0 percent.
- The service pattern would provide for no maturities during the first ten years after issuance, with a final maturity 50 years after issuance.

Assumptions concerning the service on future Water Bonds are as follows:

The net interest cost would average 6.0 percent.

- The service pattern would provide for no maturities during the first nine years after issuance, with a final maturity 20 years after issuance.

Lines 60-61: Total Payments of Bond Service. The total of interest payments shown on Lines 56 and 58 and the total of principal payments shown on Lines 57 and 59, respectively.

Line 62: Repayment of the California Water Fund. The Burns-Porter Act requires the repayment of expenditures from the California Water Fund. Under the financial analysis, expenditures from the California Water Fund would be substantially repaid by 2005. Continuing annual repayments shown thereafter represent the replacement, with operating revenues, of expenditures from the Fund for annual principal and interest payments to the United States for additional conservation storage costs under the assumptions of this analysis.

Line 63: Application of Miscellaneous Receipts to Construction Expenditures. This line matches Line 33. All projected annual accruals of miscellaneous receipts would be totally applied to Water Bond service and construction expenditures through 1984 under the financial analysis. After 1985, all financing for future construction costs would be provided from the California Water Fund under current estimates and assumptions—which could change significantly with future events. After 1984, the portions of annual receipts not applied to Water Bond service would be reserved for financing future construction—shown in Line 65.

Line 64: Subtotal, Repayment of Capital Financing. This line is the subtotal of Lines 61, 62, and 63. Under the assumptions of this analysis, Line 64 demonstrates the schedule by which the Project would eventually repay, with project income, all funds required to finance capital expenditures as shown in Line 34.

Line 65: Reservation for Future Construction. In accordance with the Burns-Porter Act, all project revenues in excess of project operating costs, Water Bond service, and California Water Fund repayment shall be deposited in a reserve account for financing future construction of the State Water Resources Development System. Also included in the amounts shown in Line 65 are those miscellaneous receipts (primarily reimbursements of capital costs allocated to recreation and fish and wildlife enhancement) which accrue too late to be applied to construction expenditures under this analysis.

Within the constraints of timing, accruals to the reserve could be available for financing additional project costs in the event contingencies occur, such as referred to at the beginning of this chapter. However, if additional costs were to be incurred in annual amounts preceding or exceeding the annual amounts shown in Line 65, the required use of full appropriations to the California Water Fund could extend well beyond 1991 (the last year of such full use as indicated in the analysis) and the eventual need for supplemental construction funds could exceed the amount projected in this analysis.

Line 66: Total Application of Miscellaneous Receipts and Project Operating Revenues. This summary of the application of revenues and receipts matches the total accruals of such moneys as shown in Line 52.

TABLE 10: PROJECT

(in thousands)

FEATURE	Calendar						
	1962- 1974	1975	1976	1977	1978	1979	1980
BY PROJECT FACILITY:							
Feather River Facilities	23,929	5,661	5,683	5,687	5,670	5,652	5,646
North Bay Aqueduct	387	52	53	56	60	59	221
Delta Facilities	0	0	0	0	0	0	0
South Bay Aqueduct	10,321	1,465	1,483	1,533	1,629	1,612	1,700
California Aqueduct:							
Main Line - Delta to A. D. Edmonston	64,083	16,325	17,132	18,459	18,919	21,201	20,451
Main Line - A. D. Edmonston to Lake Perris	19,961	10,928	12,202	12,711	15,361	14,789	15,838
West Branch	6,450	1,797	1,034	843	679	12	135
Coastal Branch	4,932	644	667	673	716	703	747
Additional Conservation Facilities:							
Trans-Basin Works	0	0	0	0	0	0	0
Payments to Corps for Operating Costs	0	0	0	0	0	0	0
Water Quality Monitoring Program - Sacramento-San Joaquin Delta	779	453	473	473	453	453	453
Davis-Grunsky Act Program (continuing administrative costs)	291	100	110	120	130	140	150
TOTAL OPERATING COSTS	131,133	37,425	38,837	40,555	43,617	44,624	45,341
BY COMPOSITION:							
Salaries and Expenses of Headquarters Personnel	71,692	10,449	10,297	9,827	9,385	9,375	9,379
Salaries and Expenses of Field Personnel	83,155	18,718	18,959	19,077	19,077	19,077	19,216
Pumping Power:							
Used by Pumping Plants	35,480	13,501	16,857	17,940	22,802	25,064	25,894
Produced by Recovery Plants	-6,077	-3,962	-6,184	-6,401	-8,033	-9,225	-9,428
Deposits to Replacement Reserves	3,777	864	900	900	900	900	919
Other Costs ^(a)	1,578	370	370	370	370	370	370
<u>Less</u> , Portion of Costs Incurred During Construction	-58,472	-2,515	-2,362	-1,158	-884	-937	-1,009
TOTAL OPERATING COSTS	131,133	37,425	38,837	40,555	43,617	44,624	45,341
BY PROJECT PURPOSE:							
Water Supply and Power Generation	114,172	33,252	34,563	36,190	39,236	40,265	40,772
Recreation and Fish and Wildlife Enhancement	6,016	1,824	1,804	1,822	1,831	1,802	2,004
Flood Control	194	36	36	37	37	38	37
Miscellaneous Purposes:							
Federal Share, San Luis and Delta Facilities	10,456	2,005	2,113	2,175	21172	2,168	2,167
Other (Davis-Grunsky, Drainage, City of Los Angeles)	295	308	321	331	341	351	361
TOTAL OPERATING COSTS	131,133	37,425	38,837	40,555	43,617	44,624	45,341

a) Includes annual Oroville-Thermalito insurance premiums and payments to Corps for operating costs, Additional Conservation Facilities.

OPERATING COSTS

of dollars)

Year										
1981	1982	1983	1984	1985	1986-1995	1996-2005	2006-2015	2016-2025	2026-2035	TOTAL 1962-2035
5,653	5,726	5,732	5,748	5,752	57,583	57,353	57,329	57,329	57,329	373,462
217	217	303	317	317	3,805	4,438	4,910	6,336	7,210	28,958
0	1,080	999	979	4,149	41,425	37,964	38,138	38,173	38,113	201,020
1,708	1,682	3,592	3,837	3,771	36,428	35,848	35,512	35,614	35,670	213,405
20,743	21,707	45,656	46,299	49,166	644,267	794,083	873,405	885,773	884,479	4,442,148
16,445	17,076	43,175	48,192	46,376	636,677	788,924	861,530	873,137	875,226	4,308,548
-126	-1,062	-9,706	-10,278	-10,227	-171,838	-237,737	-272,642	-275,231	-274,877	-1,252,774
751	1,074	2,062	2,215	2,775	33,789	41,334	44,673	44,802	44,909	227,469
						24,390	30,487	30,487	30,487	115,851
					7,700	41,731	49,836	49,836	49,836	198,939
453	453	453	453	453	4,530	4,530	4,530	4,530	4,530	28,452
150	150	150	150	150	1,500	1,500	1,500	1,500	1,500	9,291
45,994	48,103	92,416	97,912	102,682	1,295,866	1,594,358	1,729,208	1,752,286	1,754,412	8,894,769
10,020	10,010	10,288	10,265	11,151	111,095	104,924	104,936	104,936	104,935	712,964
19,218	19,677	19,677	19,685	20,984	209,840	232,480	238,140	238,140	238,140	1,453,260
26,551	28,306	95,968	99,307	103,488	1,391,994	1,727,623	1,875,696	1,896,001	1,898,700	9,301,172
-10,108	-11,205	-34,823	-32,603	-34,215	-437,089	-526,781	-554,051	-551,278	-551,850	-2,793,313
1,000	1,020	1,037	1,082	1,095	10,951	10,951	10,951	10,951	10,951	69,149
370	370	370	370	370	11,400	45,431	53,536	53,536	53,536	223,087
-1,057	-75	-101	-194	-191	-2,325	-270	0	0	0	-71,550
45,994	48,103	92,416	97,912	102,682	1,295,866	1,594,358	1,729,208	1,752,286	1,754,412	8,894,769
41,397	42,947	86,544	91,874	95,707	1,224,828	1,523,321	1,655,525	1,678,282	1,680,444	8,458,289
2,029	2,171	2,880	3,049	3,335	34,863	35,806	37,416	37,735	731	214,118
38	37	54	54	54	510	486	477	479	477	3,081
2,169	2,587	2,577	2,574	3,225	32,052	31,915	31,906	31,906	31,906	196,073
361	361	361	361	361	3,613	3,830	3,884	3,884	3,884	23,208
45,994	48,103	92,416	97,912	102,682	1,295,866	1,594,358	1,729,208	1,752,286	1,754,412	8,894,769

TABLE 11: ANNUAL SERVICE ON BONDS SOLD AS OF DECEMBER 31, 1974

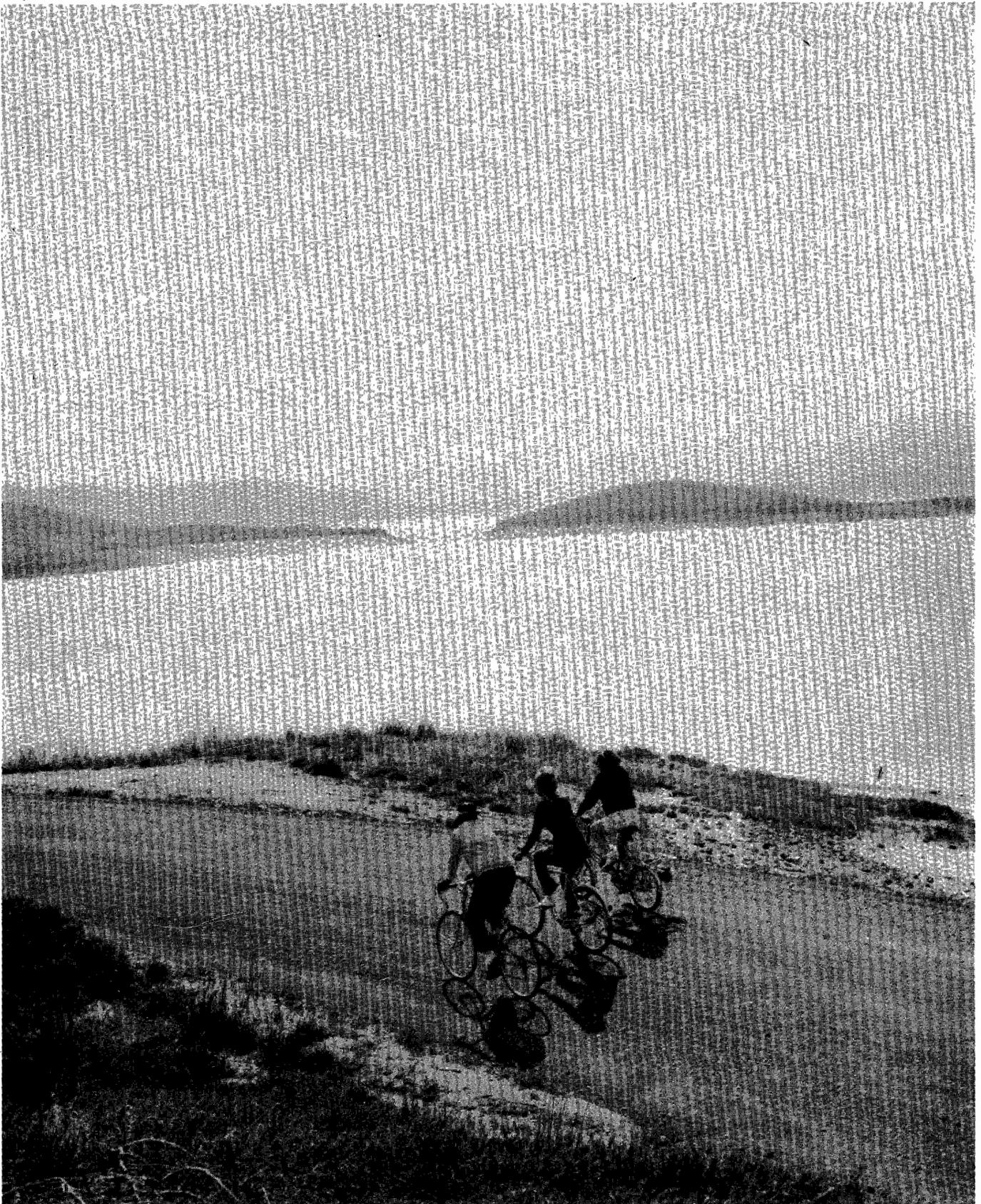
(in thousands of dollars)

Calendar Year	Bonds Sold as of December 31, 1974							
	Series A through T Water Bonds (a)		Oroville Revenue Bonds		Devil Canyon-Castaic Revenue Bonds		Total	
	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest
1964	0	3,333	0	0	0	0	0	3,333
1965	0	11,114	0	0	0	0	0	11,114
1966	0	16,742	0	0	0	0	0	16,742
1967	0	26,912	0	0	0	0	0	26,912
1968	0	37,760	0	3,876	0	0	0	41,636
1969	0	47,461	0	10,448	0	0	0	57,909
1970	0	53,291	0	13,145	0	0	0	66,436
1971	0	63,035	0	13,145	0	0	0	76,180
1972	0	69,148	1,260	13,112	0	0	1,260	82,260
1973	1,200	69,348	1,330	13,042	0	7,708	2,530	90,098
1974	3,000	69,533	1,400	12,969	0	7,708	4,400	90,210
1975	5,000	69,366	1,475	12,893	0	7,708	6,475	89,967
1976	7,000	69,133	1,555	12,811	0	7,708	8,555	89,652
1977	10,200	68,773	1,635	12,727	0	7,708	11,835	89,208
1978	12,700	68,284	1,725	12,637	0	7,708	14,425	88,629
1979	13,650	67,665	1,815	12,540	0	7,708	15,465	87,913
1980	16,050	66,941	1,915	12,441	0	7,708	17,965	87,090
1981	18,050	66,082	2,020	12,334	0	7,708	20,070	86,124
1982	19,250	65,135	2,130	12,221	0	7,708	21,380	85,064
1983	20,520	64,122	2,245	12,101	900	7,708	23,665	83,931
1984	21,785	63,042	2,365	11,982	955	7,647	25,105	82,671
1985	22,555	61,906	2,485	11,862	1,010	7,583	26,050	81,351
1986	23,320	60,728	2,605	11,737	1,070	7,515	26,995	79,980
1987	24,395	59,511	2,735	11,602	1,135	7,442	28,265	78,555
1988	25,510	58,240	2,870	11,464	1,205	7,366	29,585	77,070
1989	26,725	56,968	3,015	11,314	1,275	7,284	31,015	75,566
1990	27,805	55,692	3,175	11,152	1,355	7,198	32,335	74,042
1991	28,625	54,373	3,335	10,983	1,435	7,107	33,395	72,463
1992	29,395	53,034	3,510	10,806	1,520	7,010	34,425	70,850
1993	30,880	51,678	3,695	10,618	1,610	6,907	36,185	69,203
1994	32,305	50,262	3,885	10,421	1,705	6,799	37,895	67,482
1995	33,280	48,790	4,085	10,215	1,810	6,684	39,175	65,689
1996	34,370	47,279	4,300	9,996	1,920	6,561	40,590	63,836
1997	35,295	45,755	4,525	9,767	2,035	6,432	41,855	61,954
1998	36,675	44,226	4,760	9,524	2,155	6,295	43,590	60,045
1999	37,600	42,655	5,005	9,265	2,285	6,160	44,890	58,080
2000	38,890	41,033	5,280	8,987	2,420	6,040	46,590	56,060
2001	39,980	39,351	5,565	8,693	2,565	5,912	48,110	53,956
2002	41,120	37,620	5,865	8,384	2,720	5,773	49,705	51,777
2003	42,970	35,835	6,180	8,057	2,885	5,626	52,035	49,518
2004	45,160	33,957	6,520	7,714	3,055	5,470	54,735	47,141
2005	46,450	31,995	6,870	7,349	3,240	5,305	56,560	44,649
2006	47,740	29,971	7,245	6,968	3,435	5,130	58,420	42,069
2007	49,230	27,883	7,635	6,564	3,640	4,945	60,505	39,392
2008	51,220	25,727	8,050	6,138	3,860	4,749	63,130	36,614
2009	53,560	23,478	8,490	5,690	4,090	4,540	66,140	33,708
2010	55,250	21,134	8,950	5,216	4,335	4,319	68,535	30,669
2011	56,740	18,717	9,435	4,717	4,595	4,085	70,770	27,519
2012	58,530	16,216	9,945	4,192	4,875	3,837	73,350	24,245
2013	60,370	13,676	10,485	3,636	5,165	3,574	76,020	20,886
2014	57,900	11,244	11,055	3,051	5,475	3,303	74,430	17,598
2015	53,690	8,838	11,655	2,435	5,805	3,015	71,150	14,288
2016	46,130	6,626	12,290	1,782	6,150	2,710	64,570	11,118
2017	38,060	4,614	12,960	1,097	6,520	2,388	57,540	8,099
2018	25,350	2,980	13,665	371	6,910	2,045	45,925	5,396
2019	16,890	1,778	0	0	7,325	1,682	24,215	3,460
2020	17,320	934	0	0	7,765	1,298	25,085	2,232
2021	8,510	301	0	0	8,230	890	16,740	1,191
2022	1,800	48	0	0	8,725	458	10,525	506
2023	0	0	0	0	0	0	0	0
2024	0	0	0	0	0	0	0	0
2025	0	0	0	0	0	0	0	0
TOTAL	1,550,000	2,361,273	244,995	466,191	139,165	283,872	1,934,160	3,111,336

TABLE 12: ANNUAL SERVICE ON ASSUMED FUTURE BOND SALES

(in thousands of dollars)

Calendar Year	Series U through W Water Bonds		Supplemental Revenue Bonds		Total Future Bond Sales	
	Principal	Interest	Principal	Interest	Principal	Interest
1976	0	609	0	0	0	609
1977	0	1,217	0	0	0	1,217
1978	0	1,217	0	0	0	1,217
1979	0	2,598	0	11,919	0	14,517
1980	0	2,598	0	11,919	0	14,517
1981	0	2,598	0	11,919	0	14,517
1982	0	2,598	0	11,919	0	14,517
1983	0	2,598	0	11,919	0	14,517
1984	0	2,598	0	11,919	0	14,517
1985	510	2,598	0	11,919	510	14,517
1986	1,100	2,563	0	11,919	1,100	14,482
1987	1,260	2,486	0	11,920	1,260	14,406
1988	2,577	2,401	0	11,920	2,577	14,321
1989	2,920	2,226	1,087	11,920	4,007	14,146
1990	3,260	2,032	1,170	11,829	4,430	13,861
1991	3,600	1,823	1,255	11,732	4,855	13,555
1992	3,945	1,597	1,340	11,628	5,285	13,225
1993	4,285	1,354	1,340	11,517	5,625	12,871
1994	4,625	1,099	1,505	11,406	6,130	12,505
1995	4,960	828	1,590	11,285	6,550	12,113
1996	3,910	543	1,675	11,158	5,585	11,701
1997	2,790	320	1,755	11,024	4,545	11,344
1998	2,950	162	1,840	10,884	4,790	11,046
1999	0	0	1,925	10,736	1,925	10,736
2000	0	0	2,090	10,582	2,090	10,582
2001	0	0	2,175	10,415	2,175	10,415
2002	0	0	2,340	10,241	2,340	10,241
2003	0	0	2,425	10,054	2,425	10,054
2004	0	0	2,595	9,860	2,595	9,860
2005	0	0	2,760	9,652	2,760	9,652
2006	0	0	2,930	9,431	2,930	9,431
2007	0	0	3,010	9,197	3,010	9,197
2008	0	0	3,260	8,956	3,260	8,956
2009	0	0	3,430	8,702	3,430	8,702
2010	0	0	3,680	8,465	3,680	8,465
2011	0	0	3,845	8,211	3,845	8,211
2012	0	0	4,100	7,946	4,100	7,946
2013	0	0	4,350	7,663	4,350	7,663
2014	0	0	4,600	7,363	4,600	7,363
2015	0	0	4,935	7,046	4,935	7,046
2016	0	0	5,185	6,705	5,185	6,705
2017	0	0	5,520	6,347	5,520	6,347
2018	0	0	5,855	5,966	5,855	5,966
2019	0	0	6,190	5,562	6,190	5,562
2020	0	0	6,605	5,135	6,605	5,135
2021	0	0	6,940	4,682	6,940	4,682
2022	0	0	7,360	4,214	7,360	4,214
2023	0	0	7,860	3,714	7,860	3,714
2024	0	0	8,280	3,179	8,280	3,179
2025	0	0	8,780	2,616	8,780	2,616
2026	0	0	9,285	2,019	9,285	2,019
2027	0	0	9,870	1,388	9,870	1,388
2028	0	0	10,540	717	10,540	717
2029	0	0	0	0	0	0
2030	0	0	0	0	0	0
TOTAL	42,692	40,663	167,277	440,339	209,969	481,002



Bikeway at Quail Lake

APPENDIX B

**DATA AND COMPUTATIONS USED IN
DETERMINING WATER CHARGES FOR 1976**

APPENDIX B - DATA AND COMPUTATIONS USED
IN DETERMINING WATER CHARGES FOR 1975

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APPENDIX B

DATA AND COMPUTATIONS USED IN DETERMINING WATER CHARGES FOR 1976

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. This redetermination is provided for in Article 22(f), concerning the Delta Water Charge per acre-foot of future entitlements, and in Article 28, with regard to annual Transportation Charges for the entire project repayment period.

This appendix documents the redetermination for water charges to be paid by contractors during calendar year 1976 and is based on aspects of the State Water Project known January 1, 1975.

The Transportation Charges do not include certain credits from contractor payments under supplemental agreements including the following:

1. Payments for state construction of requested delivery structures which exceed actual construction costs of such structures.
2. Payments for state construction of requested excess capacity in project transportation facilities which exceed actual construction costs of such excess capacity.
3. Payments under the Devil Canyon-Castaic Contract.

Transportation Charges for prior years, through 1974, do not equal those amounts actually paid by contractors under statements previously furnished by the State. Overpayments or underpayments of charges (differences between the redetermined amounts and those under statements previously furnished) are accumulated, with interest credits or debits, and are deducted from or added to the redetermined amounts of the Transportation Charge to be paid by respective contractors during 1976 (except for the capital cost component associated with agricultural use of Kern County Water Agency). These adjustment computations are shown in the attachments accompanying each contractor's statement of charges and are reflected in revised copies of Tables C through G of the contract, also furnished with the statement of charges.

The formula for computing the Delta Water Rate, Article 22(f), provides that all adjustments for prior overpayments or underpayments of the Charge are accounted for in redetermination of the Rate. Since the redetermined Rate applies to all future entitlements, such adjustments are effectively amortized during the remainder of the project repayment period. This appendix includes a determination of the Delta Water Rate for 1976. However, projected annual Delta Water Charges are not shown herein since such a projection is not required by the contracts.

This redetermination excludes charges associated with project water service other than the Delta Water Charge and the Transportation Charge. Other charges (and the manner by which such charges are treated herein) are:

- Advances of funds pursuant to Article 24(d) of the Standard Provisions for excess capacity constructed by the State at the request of contractors. (Information on required advances is included herein because these charges are cov-

ered in the July 1 statements. However, any advances which are projected to exceed the additional capital costs for such excess capacity in completed aqueduct reaches have not been credited to future capital cost components of the Transportation Charges. Application of these credits are shown in the copies of revised Tables D and G which are furnished with the statements of charges.)

Advances of funds pursuant to Article 10(d) of the Standard Provisions for delivery structures (turnouts) constructed by the State at the request of contractors. (Partial information is included herein concerning actual and projected capital costs of such delivery structures. 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 for the sale and service of surplus project water to contractors pursuant to Article 21 of the Standard Provisions and so-called "Agricultural and Ground Water Replenishment" provisions.

Payments for the sale and service of surplus project water to entities other than contractors pursuant to Article 21 of the Standard Provisions. (Payments of such water are based on prices greater than the unit variable OMP&R costs involved. Net revenues resulting from "noncontractor" service are applied as described on page 24, Bulletin 132-71. Such prices are generally based on the unit rates shown in Table B-22.)

- Payments under the Devil Canyon-Castaic Contract for costs of the Devil Canyon and Castaic Facilities allocable to power generation. (Charges under the contract are billed separately from those under the Water Supply Contract. The treatment of such charges in relation to redetermined Transportation Charges are shown in special attachments to the bills of the affected six contractors.)

The computational procedure and relationships among tabulations of this redetermination are outlined on Figure B-1. All tables indicated thereon are found at the end of this appendix—all figures indicated thereon are interspersed among related narrative sections of this appendix.

Bases for Allocating Reimbursable Costs Among Contractors

This section concerns how reimbursable costs of aqueduct reaches of the project transportation facilities are allocated among contractors for determining the Transportation Charge. Reimbursable costs of the project conservation facilities are not allocated directly among contractors. Conceptually, the Delta Water Charge is a unit commodity charge rather than a use-of-facilities charge.

Allocation of reimbursable costs of aqueduct reaches among contractors is based on two specific applications of the Proportionate Use of Facilities Method:

Allocations of reimbursable capital costs and minimum OMP&R costs of each reach are based on the proportionate maximum use of that reach by respective contractors under planned conditions of full project development.

Allocations of reimbursable variable OMP&R costs of each reach are based on the proportionate actual annual use of that reach by the respective contractors.

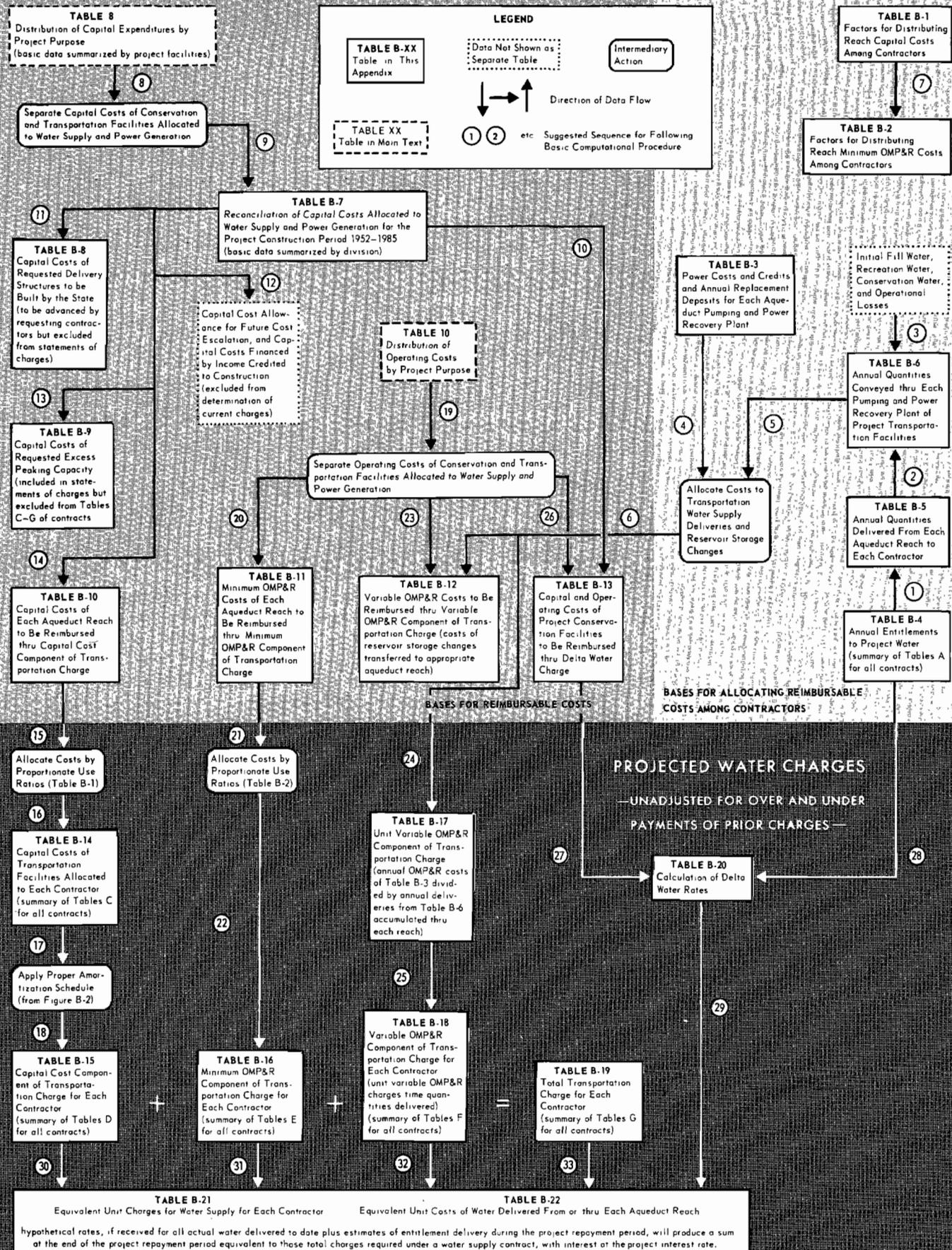
The chart at the end of this appendix shows reaches in which reimbursable costs of project transportation facilities are allocated among contractors.

Proportionate Maximum Use of Facilities

The derivation of ratios that represent the proportionate maximum use of each aqueduct reach by the respective contractors was last described in Bulletin 132-70. (See pages 103-106 for a description of the computational procedure; pages 116-117 for a summary of aqueduct reaches, reach delivery quantities, and reach capacities; and pages 118-173 for a detailed derivation of factors for each contractor and for each aqueduct reach.) Such factors are still valid—except for the first reach of the California Aqueduct and for reaches of the South Bay Aqueduct. Revised ratios for these reaches are described in Bulletin 132-72 (see pages 106-111) and account for certain contract amendments executed early in 1972 regarding South Bay Aqueduct use (see pages 33-34, Bulletin 132-73).

Table B-1 presents a summary of all reach ratios currently applicable to reimbursable capital costs. Table B-2 presents a corresponding summary applicable to reimbursable minimum OMP&R costs. Requested excess capacity is ignored in B-1 (since the associated capital costs are paid for on an incremental-cost basis and not a proportionate-use basis) but is accounted for in B-2.

Figure B-1: RELATIONSHIPS OF DATA USED TO SUBSTANTIATE STATEMENTS OF CHARGES



hypothetical rates, if received for all actual water delivered to date plus estimates of entitlement delivery during the project repayment period, will produce a sum at the end of the project repayment period equivalent to those total charges required under a water supply contract, with interest at the project interest rate.

Proportionate Annual Use of Facilities

Article 26(a) of the contract provides that the variable OMP&R component of the Transportation Charge shall return to the State those costs which are incurred in an amount which depends upon and varies with the amount of project water delivered to the contractor. (The minimum OMP&R component returns those operating costs which are incurred in an amount which does not vary with deliveries.) The Article goes on to explain that all such costs for a reach for a given year shall be allocated among contractors in proportion to the respective delivery quantities conveyed through the reach during the year.

Under the State's procedure, variable OMP&R costs originate with certain operating costs of project pumping and power recovery plants. These costs are incurred in amounts which generally vary with the total conveyance through the plants—not with the portion thereof enroute directly for contractor turnouts. In addition to direct deliveries, conveyance may include the following:

- a. Water applied in down-aqueduct onshore recreation developments;
- b. Water stored in the initial fill of down-aqueduct reservoirs;
- c. Water lost through evaporation and seepage from down-aqueduct reaches and reservoirs; and
- d. Water stored during a year in excess of storage withdrawals, subsequent to initial fill, in down-aqueduct reservoirs.

Under the State's procedure, certain operating costs for a plant for a given year are allocated among direct deliveries and (a) through (d) above in proportion to respective quantities conveyed through the plant during the year. Plant costs allocated to direct deliveries are designated as variable OMP&R costs to be repaid by contractors for the reach in which the plant is located. Remaining plant costs are allocated to the quantities (a) through (d) above and designated as follows:

- a. A portion of joint OMP&R costs of the reach containing the plant allocated to recreation.
- b. A portion of joint capital costs of respective down-aqueduct reservoirs.
- c. and (d) A portion of joint minimum OMP&R costs of respective down-aqueduct reaches and reservoirs.

Concerning (d) above, in years when storage in down-aqueduct reservoirs is decreased for the purpose of making deliveries, associated variable OMP&R costs are established for the respective reservoirs with an offsetting credit applied to the minimum OMP&R costs of each. Such variable OMP&R costs are calculated to be equivalent to the original plant costs of conveying the water placed in

storage. Under current procedures, the unit cost of conveying water to storage is assumed to be equivalent to the unit cost of conveying water to the storage site in years when such storage is released.

Special Treatment of Certain Plant Costs. As indicated in the preceding section, the State's procedure requires an initial apportionment of certain plant costs among capital cost, minimum OMP&R, and variable OMP&R components. This is based on annual quantities conveyed through respective plants for various down-aqueduct functions. Plant costs which are apportioned are summarized in Table B-3 and include the following items:

- Costs of capacity and energy used, exclusive of associated power transmission and station service charges. (Transmission and station service costs are classified as minimum OMP&R costs.)
- Credits for capacity and energy produced at aqueduct power recovery plants (treated as negative costs).
- Annual payments to sinking fund reserves to finance periodic replacement of plant machinery components having economic lives shorter than the project repayment period.

Excluded from the above, are costs for salaries of plant operations and maintenance personnel—classified as minimum OMP&R costs.

Also excluded from B-3, are plant capacity and energy costs associated with surplus water service after May 1, 1973. Prior to May 1, 1973, surplus water service was charged the same unit variable OMP&R component as entitlement water service. Until that date, surplus water deliveries are included in the "Deliveries—Water Supply" described in the following section. Beginning May 1, 1973, the rate structure for surplus water service was significantly changed (see "Contract Amendments, Water Contracts Management", Chapter III). Capacity and energy costs of pumping plants assigned directly to surplus water service for 1974 are as follows: Delta, \$376,202; South Bay, \$29,334; Dos Amigos, \$264,404; Las Perillas and Badger Hill, \$65,592; Buena Vista, \$164,977; Wheeler Ridge, \$84,851; Wind Gap, \$5,599; and Tehachapi, \$450 (see Bulletin 132-74 for 1973 amounts).

Water Conveyance. Table B-4 summarized the schedules of annual entitlements as set forth in Table A of each contract. 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. These water delivery quantities do not necessarily correspond with annual entitlements. (For a comparison of actual and projected delivery quantities v. annual entitlements, see Table 1, Chapter III.)

Table B-6 summarized the quantities conveyed or to be conveyed through each aqueduct pumping plant or power plant for each year of the project repayment period and for each of the following functions:

Made available to contractors at down-aqueduct delivery structures ("Deliveries, Water Supply").

Required to initially fill down-aqueduct reaches and reservoirs to operational levels ("Initial Fill Water").

Consumed in down-aqueduct project-associated recreation developments ("Deliveries, Recreation").

Lost through evaporation and seepage from all down-aqueduct reaches ("Operational losses").

Placed in down-aqueduct reservoir storage subsequent to the initial fill of such storage ("Reservoir Storage Changes").

In addition, Table B-6 summarizes the net annual water amounts stored and to be stored in San Luis Reservoir (a project conservation facility with costs reimbursed through the Delta Water Charge) and

lost and to be lost through evaporation and seepage from the Reservoir and from the water conservation portion of the Aqueduct (all such quantities included under the heading "Conservation Water").

The Delta Pumping Plant is a joint project transportation-conservation facility. Under the State's procedure, power and replacement costs of the Delta Pumping Plant which are apportioned to the conveyance of annual "conservation water" quantities are transferred to the capital costs of San Luis Reservoir (during initial fill) or to the minimum OMP&R costs of San Luis Reservoir (subsequent to initial fill).

In years when releases from San Luis Reservoir cause a net annual storage depletion in order to make deliveries to contractors down-aqueduct 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.

Bases for Reimbursable Costs

Tables 8 and 10 (Chapter V) summarize the capital and OMP&R costs of all project facilities, respectively, and the allocation of these costs among the various project purposes. Allocation percentages are shown for each project facility in the tabulation below. For the most part, these percentages are preliminary

and subject to future revision and are applicable to the State's costs of the respective facilities. This redetermination is concerned only with the costs of project facilities that are allocated to water supply and power generation.

Project Facilities	Water Supply and Power Generation		All Other Purposes (Nonreimbursable)	
	Capital Costs	Minimum OMP&R Costs	Capital Costs	Minimum OMP&R Costs
(in percent)				
Conservation Facilities				
Frenchman Dam and Lake	21.5	0	78.5	100.0
Antelope Dam and Lake	0	0	100.0	100.0
Grizzly Valley Dam and Lake Davis	5.1	8.8	94.9	91.2
Abbey Bridge Dam and Reservoir	0	0	100.0	100.0
Dixie Refuge Dam and Reservoir	0	0	100.0	100.0
Oroville Division ^(a)	97.1	99.0	2.9	1.0
California Aqueduct	96.5	94.1	3.5	5.9
Delta Facilities	86.0	86.0	14.0	14.0
Additional Conservation Facilities	72.5	72.5	27.5	27.5
Transportation Facilities				
California Aqueduct, excluding Coastal Branch	97.0	92.9	3.0	7.1
South Bay Aqueduct:				
Del Valle Dam and Lake Del Valle	25.2	22.0	74.8	78.0
North Bay Aqueduct	100.0	100.0	0	0

a) Percentages shown are applicable to the total costs of the Division excluding specific power costs of Edward Hyatt and Thermalito Powerplants and Switchyards. Federal reimbursements for flood control are treated as negative costs.

Capital Costs

Table B-7 presents a reconciliation of estimated total capital costs of each project conservation facility and each aqueduct reach as estimated for (a) the current financial analysis and (b) current redetermination of water charges.

Cost of Delivery Structures. Costs of delivery structures constructed by the State are paid directly by each contractor requesting such structures (see pages 88 and 89, Bulletin 132-71 for a description of

the method of payment for the capital costs of a delivery structure constructed by the State). Capital costs of all delivery structures constructed and to be constructed by the State are shown for each contractor in Table B-8. However, these costs are not to be construed as preliminary estimates or final invoices to be furnished by the State. The following tabulation indicates the general location and construction status of delivery structures requested as of the end of 1974.

Project Facility	Number of Delivery Structures					
	Requested by Agencies	Under Construction		Completed		Stub Only ^(a)
		by State	by Agencies	by State	by Agencies	
Oroville Area	6	0	0	0	6	0
North Bay Aqueduct (Phase I)	2	0	0	1	0	1
South Bay Aqueduct	19	0	3	11	5	0
California Aqueduct:						
North San Joaquin Division	5	0	1	0	4	0
San Luis Division (served by the federal Central Valley Project)						
South San Joaquin Division	43	1	2	8	21	11
Tehachapi Division	1	0	0	0	0	1
Mojave Division	14	0	0	0	1	13
Santa Ana Division	10	1	0	3	3	3
West Branch	5	0	0	1	1	3
Coastal Branch (Phase I)	3	0	0	1	2	0
TOTAL	108	2	6	25	43	32

a) Will be completed at a later date. Temporary facilities for delivery of water have been installed at several of the stubs.

Costs of Requested Excess Capacity. Amendments have been added to contracts of the following three agencies and provide for excess capacity in the project transportation facilities: The Metropolitan Water District of Southern California, San Gabriel Valley Municipal Water District, and Antelope Valley-East Kern Water Agency. Listed in Table B-9 are estimates of the annual amounts for:

- Additional costs incurred by the State for requested excess capacity.
 - Required annual advances, by water contractors, of funds for such costs.
- Any credits for advances estimated to be in excess of costs which will be applied to the respective contractors' accounts (generally, to the contractors' next installment of the capital cost component of the Transportation Charge).

Under Amendment 2 of Metropolitan's contract, 809 cubic feet per second of excess capacity originally was constructed in reaches of the West Branch at the District's request. Under Amendment 7, such capacity was reclassified as basic capacity of the project transportation facilities. This aspect of Amendment 7 required a \$16.3 million prepayment of the District's capital cost component of the Transportation Charge in lieu of advances of funds for the originally requested capacity.

Application of credits for contractor advances that are estimated to be in excess of actual costs and (concerning Metropolitan's Amendment 7) for prepayments of the capital cost component is shown in attachments to the respective statements of charges.

Amendment 5 of Metropolitan's contract includes a provision whereby additional costs to be incurred

because of modifications to the Santa Ana Valley Pipeline, required for enlargement of Lake Perris, at the request of Metropolitan are to be allocated to the District and returned to the State through payments of the Transportation Charge. The estimated additional costs to be repaid through the District's capital cost component for the aqueduct reach from Devil Canyon Powerplant to Barton Road total \$6.7 million, as shown on page 98, Bulletin 132-72.

Annual Operating Costs

Estimated operating costs allocable to water supply and power generation shown in Table 10, 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 the revenues from electric power sales.

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.

Those operating costs to be reimbursed through payments of the variable OMP&R component of the Transportation Charge were previously described in the section entitled "Special Treatment of Certain Plant Costs". The remainder of this section centers on those costs to be reimbursed through payments of the minimum OMP&R component of the Transportation Charge.

Minimum Operating Costs. The following types of operating costs are considered to be incurred in annual amounts that do not vary with the water quantities delivered to the contractors and are therefore classified as minimum OMP&R costs:

All direct labor charges for field operations and maintenance personnel, including associated indirect costs.

Electric power transmission and station service costs.

All costs for equipment, materials, and supplies and for replacement of works other than rotating machinery of pumping and power recovery plants.

Portions of the power and replacement costs of all up-aqueduct pumping plants and power plants that are allocable to the annual conveyance of water and (a) lost to evaporation and seepage from respective aqueduct reaches, or (b) placed into storage in respective reservoirs of the project transportation facilities (after initial fill).

Credits, which offset those costs referred to in (b) above, for deliveries derived from reservoir storage.

A distributed share of general and direct operating costs which cannot be identified solely with one facility or aqueduct reach.

Concerning the allocation of general operating costs among facilities and reaches, this redetermination follows the procedures described on pages 111-113, Bulletin 132-70.

Costs to be Returned to the State through Payments Under the Transportation Charge and the Devil Canyon-Castaic Contract

Table B-10 presents the actual and projected annual capital costs of each aqueduct reach that will eventually be returned to the State, with interest, through contractor payments of the capital cost component under the Transportation Charge and of debt service under the Devil Canyon-Castaic Contract. The actual and projected costs to be reimbursed through payments of the minimum OMP&R component under the Transportation Charge and of allocated operating costs under the Devil Canyon-Castaic Contract are shown in Table B-11. Variable OMP&R costs, shown in Table B-12, are a portion of those costs shown in Table B-3 allocable to the water supply delivery quantities shown in Table B-6 and reimbursed through payments of the variable OMP&R component of the Transportation Charge.

Costs to be Returned Through Payments Under the Delta Water Charge and the Oroville Power Sale Contract

Summarized in Table B-13 are actual and projected capital and operating costs of project conservation facilities to be reimbursed through payments under (a) the Delta Water Charge and (b) Oroville power sales. Not included in Table B-13 are credits to be applied to the reimbursable capital costs of the project conservation facilities pursuant to negotiated settlements concerning the magnitude of incurred planning costs for the period 1952 through 1970 (see section entitled "Negotiation of Water Charge Settlements", Chapter III). These credits are shown below:

Year	Credit	Year	Credit
Thru 1960	\$4,850,000	1966 . . .	\$ 748,649
1961 . . .	431,527	1967 . . .	806,628
1962 . . .	479,280	1968 . . .	410,611
1963 . . .	478,743	1969 . . .	246,387
1964 . . .	751,330	1970 . . .	193,277
1965 . . .	763,541	Total . . .	\$10,159,973

Project Water Charges

This section summarizes the redetermination of past and projected components of the Transportation Charge for annual revision of Tables C through G that are included in each water contract. This section also includes a derivation of future unit Delta Water Charges. Equivalent unit charges for each acre-foot of entitlement water service are also summarized herein for (a) each contractor and (b) each aqueduct reach.

Transportation Charges

The accumulation of 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 the capital costs of aqueduct reaches presented in Table B-10, as determined by application of proportionate-use ratios set forth in Table B-1. The resulting allocated costs are to be set forth in Table C of the respective contracts.

Prepayments of the capital cost component required under Metropolitan's Amendment 7, are shown as negative capital costs in Metropolitan's Table C and in Table B-14. Both Table B-14 and Tables C of the six contractors located below the Devil Canyon and Castaic Facilities include the capital costs that are reimbursable under the Devil Canyon Castaic Contract.

Capital Cost Components. Criteria as to the types of amortization schedules applicable to the allocated capital costs 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.

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, subsequently adjusted for prior overpayments or underpayments, are set forth in Table D of the respective contracts. Credits for advance payment for excess capacity that exceeds actual costs of such capacity are applied to reduce the payment amounts set forth in Table D, but are ignored in Table B-15. Both Table B-15 and Tables D of the six Devil Canyon-Castaic contractors include the debt service payments due under the Devil Canyon-Castaic Contract.

Minimum OMP&R Components. Table B-16 summarizes the minimum OMP&R components of the Transportation Charge for the contractor for each year of the project repayment period. These estimated components, subsequently adjusted for prior overpayments or underpayments, are set forth in Tables E of the respective contracts. These components represent the accumulated share of the reach costs presented in Table B-11, as determined by application of the proportionate-use ratios shown for

each reach and for each contractor in Table B-2. Under operating agreements with Kern County Water Agency concerning the early installation of units by Berrenda Mesa Water District in Las Perillas and Badger Hill Pumping Plants (see page 7, Bulletin 132-71), the Agency is to be billed any additional operating costs caused by early installation of the units which would otherwise increase charges to downstream contractors. Under this requirement, the following minimum OMP&R costs of Reach 31A are assigned directly to the Agency with the remaining reach costs allocated by application of the proportionate-use ratios:

Year	Direct Charge	Year	Direct Charge
1969 . . .	\$ 46,200	1978 . . .	\$ 36,000
1970 . . .	46,300	1979 . . .	36,200
1971 . . .	139,400	1980 . . .	36,000
1972 . . .	93,400	1981 . . .	36,200
1973 . . .	71,700	1982 . . .	36,200
1974 . . .	97,800	1983 . . .	36,200
1975 . . .	71,000	1984 . . .	36,200
1976 . . .	71,300	1985 . . .	36,200
1977 . . .	36,200	Total . . .	\$962,500

Both Table B-16 and Tables E for the six Devil Canyon-Castaic contractors include the portion of operating costs payable under the Devil Canyon-Castaic Contract.

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 each 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 actual and projected total variable OMP&R costs for each acre-foot of conveyance through each aqueduct pumping plant and power plant for each year of the project repayment period. The data summarized in Table B-17 have been derived by dividing the power costs (and credits) and replacement costs shown in Table B-12 by the delivery quantities shown in Table B-6.

However, certain costs included in Table B-12 "extra peaking service", which would otherwise constitute variable OMP&R costs, are assigned directly to

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	1973	a	b
Alameda County FC&WCD, Zone 7...	● c								
Alameda County WD	●								
Antelope Valley-East Kern WA	●								
Castaic Lake WA.....		●							
County of Butte									
County of Kings					●				
City of Yuba City									
Coachella Valley County WD		●							
Crestline-Lake Arrowhead WA		●							
Desert WA	● d								
Devil's Den WD								●	
Dudley Ridge WD								●	
Empire West Side ID.....								●	
Hacienda WD								●	
Kern County WA: Ag use								●	
M&I use			●						
Littlerock Creek ID		●							
Mojave WA		●							
Napa County FC&WCD				●					
Oak Flat WD								●	
Palmdale WD		●							
Plumas County FC&WCD.....						●			
San Bernardino Valley MWD	●								
San Gabriel Valley MWD	● d								
San Geronio Pass WA	● d								
San Luis Obispo County FC&WCD		● e							
Santa Barbara County FC&WCD		● e							
Santa Clara Valley WD	●								
Solano County FC&WCD							●		
The Metropolitan WD-SC	●								
Tulare Lake Basin WSD.....								●	
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.

contractors requesting this type of service (see page 21, Bulletin 132-71, and Water Service Contractors Council Memo No. 593, July 10, 1970). These costs are not allocated in accordance with annual delivery quantities and are excluded from the unit charges shown in Table B-17. Extra peaking charges for additional power capacity are as shown below:

Year	Agency	Pumping Plant	
		Dos Amigos	Las Perillas and Badger Hill
(dollars)			
1972	Kern County W.A.	\$9,553	\$24,700
	Hacienda W.D.	10	0
1973	Kern County W.A.	0	6,016
1974	Kern County W.A.	0	7,140

Table B-18 summarizes the variable OMP&R components of the Transportation Charge for each contractor and 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, subsequently adjusted for prior overpayments or underpayments, are to be set forth in Table F of the respective contracts.

Total Annual Charges. Annual Transportation Charges for each contractor are summarized in Table B-19. (The amounts shown in Table B-19 represent the sums of the corresponding amounts shown in Tables B-15, B-16, and B-18.) These estimated payments, subsequently adjusted for prior overpayments or underpayments, are to be set forth in Tables G of the respective contracts. Both Table B-19 and Tables G for the six Devil Canyon-Castaic contractors include debt service and operating cost payments due under the Devil Canyon-Castaic Contract.

Delta Water Charges per Acre-foot of Entitlement

Calculation of future Delta Water Charges applicable after December 31, 1975, are shown in Table B-20 in accordance with the amended Articles 22(e) and 22(g) of 28 contracts. Under the amended articles, future construction and operating costs of each additional and supplemental conservation facility will be included in the calculation of the Charge in years when the State first incurs major construction costs. Calculation of the Charge due under the three contracts which have not as yet been amended (Butte County, Yuba City, and Solano County Flood Control and Water Conservation District) is shown in a special attachment to the respective bills. (Of the three, only Butte County is obligated to pay the Delta Water Charge in 1976.) While the cost for the Cottonwood Project and the interim purchases of available water in the Delta between 1988 and 1996 is included in the financial analysis under additional conservation facilities, they have not been included in any of the calculations for the Delta Water Rates shown in B-20 because they have not as yet been formally authorized as conservation facilities.

Equivalent Total Water Charges

A summary of total charges is shown in Table B-21 in terms of the equivalent charge for each acre-foot of project water now estimated to be delivered as entitlement water to the respective contractors. These equivalent charges would provide the same total sum at the end of the project repayment period as annual payments to be made under the Delta Wa-

ter Charge and Transportation Charge, including interest at the project interest rate. These equivalent unit charges do not reflect the future service of surplus water. The potential charges for surplus water service will be considerably less than the charges for entitlement water. Furthermore, the Table B-21 values account for the fact that current estimates of future entitlement water service are noticeably less than the amounts shown in Tables A for certain Southern California contractors.

Equivalent Water Cost, by Reach

Table B-22 presents a summary of the equivalent unit costs of conveying entitlement water through respective aqueduct reaches of the project transportation facilities. These unit costs provide basis of charges to be assessed (a) for certain "extra service" (such as for delivery of entitlements down-aqueduct from a contractor's turnout) and, together with the Delta Water Charge per acre-foot, (b) for surplus water service to entities other than long-term water supply contractors. It should be noted that the cumulative unit conveyance costs shown for reaches in Table B-22 do not necessarily equal the equivalent unit Transportation Charges to contractors served from such reaches. This is because the unit charges of Table B-21 account for the rates of water demand buildup and cost allocation factors of the respective contractors, whereas the unit costs of Table B-22 meld together the effect of the respective buildups and allocation criteria of all contractors whose entitlements are conveyed through a given reach.

REPAYMENT REACHES AND DESCRIPTIONS

PROJECT TRANSPORTATION FACILITIES

NORTH BAY AQUEDUCT

- 1 LINDSEY SLOUGH TO SUISUN CITY
- 2 SUISUN CITY TO CORDELIA PUMPING PLANT
- 3 CORDELIA PUMPING PLANT THRU NAPA TURNOUT RESERVOIR (INCLUDING THE INTERIM FACILITIES)

CALIFORNIA AQUEDUCT

NORTH SAN JOAQUIN DIVISION

- 1 DELTA THRU BETHANY RESERVOIR
- 2A BETHANY RESERVOIR TO ORESTIMBA CREEK
- 2B ORESTIMBA CREEK TO O'NEILL FOREBAY

SAN LUIS DIVISION

- 3A SAN LUIS DAM, RESERVOIR AND PUMPING-GENERATING PLANT
- 3 O'NEILL FOREBAY TO DOS AMIGOS PUMPING PLANT
- 4 DOS AMIGOS PUMPING PLANT TO PANOCHE CREEK
- 5 PANOCHE CREEK TO FIVE POINTS
- 6 FIVE POINTS TO ARROYO PASAUERO
- 7 ARROYO PASAUERO TO KETTLEMAN CITY

SOUTH SAN JOAQUIN DIVISION

- 8C KETTLEMAN CITY THRU MILHAM AVENUE
- 8D MILHAM AVENUE THRU AVENAL GAP
- 9 AVENAL GAP THRU TWISSELMAN ROAD
- 10A TWISSELMAN ROAD THRU LOST HILLS
- 11B LOST HILLS TO 7TH STANDARD ROAD
- 12D 7TH STANDARD ROAD THRU ELK HILLS ROAD
- 12E ELK HILLS ROAD THRU TUPMAN ROAD
- 13B TUPMAN ROAD TO BUENA VISTA PUMPING PLANT
- 14A BUENA VISTA PUMPING PLANT THRU SANTIAGO CREEK
- 14B SANTIAGO CREEK THRU OLD RIVER ROAD
- 14C OLD RIVER ROAD TO WHEELER RIDGE PUMPING PLANT
- 15A WHEELER RIDGE PUMPING PLANT TO WIND GAP PUMPING PLANT
- 16A WIND GAP PUMPING PLANT TO A. D. EDMONSTON PUMPING PLANT

TEHACHAPI DIVISION

- 17E A. D. EDMONSTON PUMPING PLANT TO CARLEY V. PORTER TUNNEL
- 17F CARLEY V. PORTER TUNNEL TO JUNCTION, WEST BRANCH, CALIFORNIA AQUEDUCT

MOJAVE DIVISION

- 18A JUNCTION, WEST BRANCH, CALIFORNIA AQUEDUCT THRU COTTONWOOD CHUTES
- 19 COTTONWOOD CHUTES TO FAIRMONT
- 19C BUTTES JUNCTION THRU BUTTES RESERVOIR
- 20A FAIRMONT THRU 70TH STREET WEST
- 20B 70TH STREET WEST TO PALMDALE
- 21 PALMDALE TO LITTLEROCK CREEK
- 22A LITTLEROCK CREEK TO PEARBLOSSOM PUMPING PLANT
- 22B PEARBLOSSOM PUMPING PLANT TO WEST FORK MOJAVE RIVER
- 23 WEST FORK MOJAVE RIVER TO SILVERWOOD LAKE
- 24 CEDAR SPRINGS DAM AND SILVERWOOD LAKE

SANTA ANA DIVISION

- 25 SILVERWOOD LAKE TO SOUTH PORTAL, SAN BERNARDINO TUNNEL
- 26A SOUTH PORTAL, SAN BERNARDINO TUNNEL THRU DEVIL CANYON POWERPLANT
- 28G DEVIL CANYON POWERPLANT TO BARTON ROAD
- 28H BARTON ROAD TO LAKE PERRIS
- 28J PERRIS DAM AND LAKE PERRIS

COASTAL BRANCH, CALIFORNIA AQUEDUCT

- 31A AVENAL GAP TO DEVIL'S DEN PUMPING PLANT
- 33A DEVIL'S DEN PUMPING PLANT THRU SAN LUIS OBISPO POWERPLANT
- 34 SAN LUIS OBISPO POWERPLANT TO ARROYO GRANDE
- 35 ARROYO GRANDE THRU SAN MARIA TERMINUS

WEST BRANCH, CALIFORNIA AQUEDUCT

- 29A JUNCTION, WEST BRANCH, CALIFORNIA AQUEDUCT THRU OSO PUMPING PLANT
- 29F OSO PUMPING PLANT THRU QUAIL EMBANKMENT
- 29G QUAIL EMBANKMENT TO PYRAMID LAKE
- 29H PYRAMID DAM AND LAKE
- 29J PYRAMID LAKE THRU CASTAIC POWERPLANT
- 30 CASTAIC DAM AND LAKE

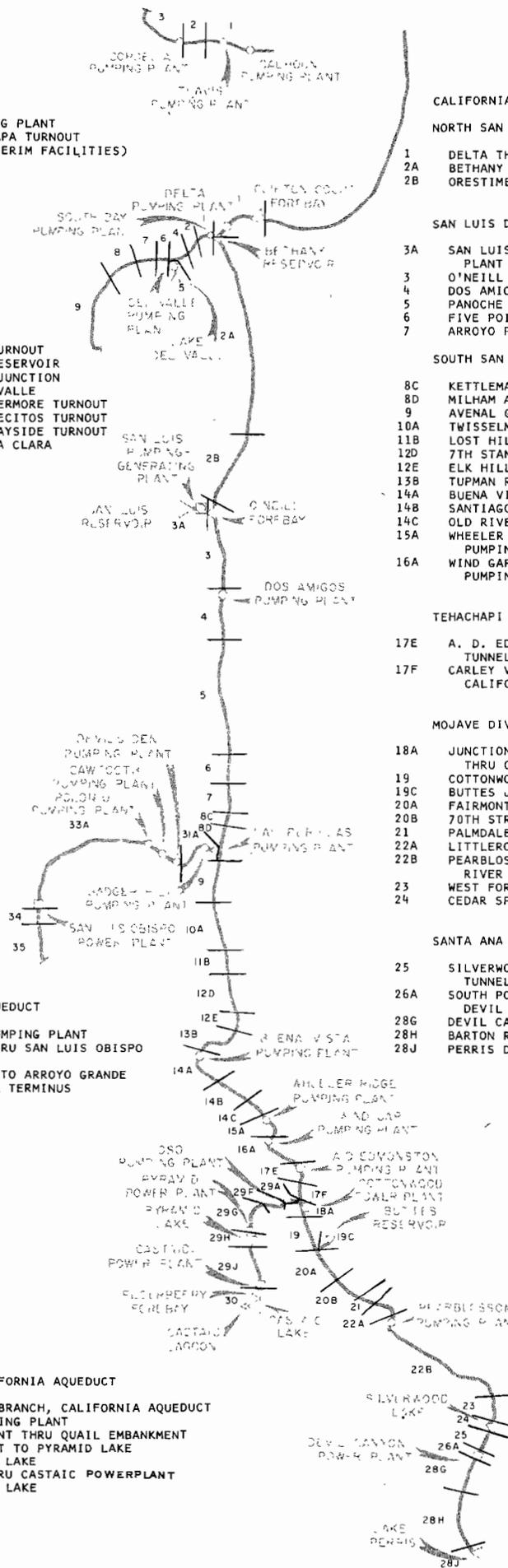


TABLE B-1: FACTORS FOR DISTRIBUTING

Reach No.	Reach Description	NORTH BAY AREA		SOUTH BAY AREA				TOTAL
		Napa County FC&WCD	Solano County FC&WCD	Alameda County FC&WCD Zone 7	Alameda County Water District	Santa Clara Valley Water District	Future Contractor	
<u>North Bay Aqueduct</u>								
1	Lindsey Slough to Suisun City	.39808876	.60191124					1.00000000
2	Suisun City to Cordelia Pumping Plant	.39808861	.60191139					1.00000000
3	Cordelia Pumping Plant thru Napa Turnout Reservoir (Including the interim facilities)	1.00000000						1.00000000
<u>South Bay Aqueduct</u>								
1	Bethany Reservoir thru Allamont Turnout			.22599621	.20663014	.49237700	.07499665	1.00000000
2	Allamont Turnout thru Patterson Reservoir			.22599657	.20663057	.49237791	.07499495	1.00000000
4	Patterson Reservoir to Del Valle Junction			.19504791	.21450021	.51113252	.07931936	1.00000000
5	Del Valle Junction thru Lake Del Valle			.14436367	.12972254	.33715573	.38875806	1.00000000
6	Del Valle Junction thru South Livermore Turnout			.14599918	.21144710	.50574745	.13680627	1.00000000
7	South Livermore Turnout thru Vallecitos Turnout				.25176680	.60218448	.14604872	1.00000000
8	Vallecitos Turnout thru Alameda-Bayside Turnout				.06294980	.72065355	.21639665	1.00000000
9	Alameda-Bayside Turnout thru Santa Clara Terminal Facilities					1.00000000		1.00000000
<u>California Aqueduct</u>								
1	Delta Thru Bethany Reservoir			.00954802	.00872976	.02080260	.00342519	---

Reach No.	Reach Description	CENTRAL COASTAL AREA				SOUTHERN		
		San Luis Obispo County FC&WCD	Santa Barbara County FC&WCD	Antelope Valley-East Kern Water Agency	Castaic Lake Water Agency	Coachella Valley County Water District	Crestline Lake Arrowhead Water Agency	Desert Water Agency
<u>California Aqueduct</u>								
1	Delta Thru Bethany Reservoir	.00531147	.01240007	.02939503	.00890866	.00528393	.00133630	.00871425
2A	Bethany Reservoir to Orestimba Creek	.00555266	.01296315	.03072975	.00931319	.00521251	.00139640	.00910607
2B	Orestimba Creek to O'Neill Forebay	.00555876	.01297741	.03076360	.00932344	.00529155	.00139833	.00911867
3	O'Neill Forebay to Dos Amigos Pumping Plant	.00555769	.01297494	.03075777	.00932168	.00528566	.00139818	.00911771
4	Dos Amigos Pumping Plant to Panoche Creek	.00555659	.01297235	.03075165	.00931982	.00527794	.00139801	.00911670
5	Panoche Creek to Five Points	.00555520	.01296912	.03074401	.00931751	.00527177	.00139780	.00911543
6	Five Points to Arroyo Pasajero	.00555311	.01296424	.03073244	.00931400	.00526202	.00139750	.00911351
7	Arroyo Pasajero to Kettleman City	.00555243	.01296267	.03072873	.00931287	.00525265	.00139740	.00911289
8C	Kettleman City thru Milham Avenue	.00555159	.01296069	.03072405	.00931145	.00525217	.00139729	.00911211
8D	Milham Avenue thru Avenal Gap	.00566628	.01322842	.03135878	.00950380	.00564073	.00142650	.00930269
9	Avenal Gap thru Twisselman Road			.03437577	.01041812	.00618845	.00156502	.01020599
10A	Twisselman Road thru Lost Hills			.03492681	.01058510	.00628966	.00159061	.01037292
11B	Lost Hills to 7th Standard Road			.03848657	.01166387	.00694140	.00175542	.01144773
12D	7th Standard Road thru Elk Hills Road			.04046660	.01226391	.00730484	.00184732	.01204709
12E	Elk Hills Road thru Tupman Road			.04052108	.01228042	.00731580	.00185010	.01206514
13B	Tupman Road to Buena Vista Pumping Plant			.04397523	.01332721	.00794772	.00200991	.01310729
14A	Buena Vista Pumping Plant thru Santiago Creek			.04618687	.01399742	.00835456	.00211281	.01377821
14B	Santiago Creek thru Old River Road			.04702647	.01425185	.00851020	.00215218	.01403490
14C	Old River Road to Wheeler Ridge Pumping Plant			.04846557	.01468794	.00877627	.00221947	.01447369
15A	Wheeler Ridge Pumping Plant to Wind Gap Pumping Plant			.04927653	.01493368	.00892667	.00225752	.01472172
16A	Wind Gap Pumping Plant to A D Edmonson Pumping Plant			.05113510	.01549688	.00927016	.00234437	.01528820
17E	A.D. Edmonson Pumping Plant to Carley V. Porter Tunnel			.05355379	.01622984	.00971819	.00245767	.01602709
17F	Carley V. Porter Tunnel to Junction, West Branch, Calif. Aqueduct			.05366827	.01626453	.00973908	.00246295	.01606154
18A	Junction, West Branch, Calif. Aqueduct thru Cottonwood Chutes			.13238112		.02399390	.00660679	.03957043
19	Cottonwood Chutes to Fairmont			.13237766		.02399451	.00660680	.03957141
19C	Buttes Junction thru Buttes Reservoir			1.00000000				
20A	Fairmont thru 70th Street West			.06847931		.02576424	.00651572	.04249001
20B	70th Street West to Palmdale			.02276024		.02702916	.00683554	.04457607
21	Palmdale to Littlerock Creek			.02318953		.02754716	.00696650	.04543034
22A	Littlerock Creek to Pearblossom Pumping Plant			.01181870		.02794143	.00706620	.04608043
22B	Pearblossom Pumping Plant to West Fork Mojave River					.02827552	.00715073	.04663153
23	West Fork Mojave River to Silverwood Lake					.00324449	.00818121	.00535117
24	Cedar Springs Dam and Silverwood Lake					.01024605	.01251569	.01690478
25	Silverwood Lake to South Portal, San Bernardino Tunnel							
26A	South Portal, San Bernardino Tunnel thru Devil Canyon Pwp.							
28G	Devil Canyon Powerplant to Barton Road							
28H	Barton Road to Lake Perris							
28J	Perris Dam and Lake Perris							
29A	Junction, West Branch, Calif. Aqueduct thru Oso Pumping Plant					.02736564		
29F	Oso Pumping Plant thru Quail Embankment					.02736563		
29C	Quail Embankment to Pyramid Lake					.02736564		
29H	Pyramid Dam and Lake					.02646380		
29J	Pyramid Lake thru Castaic Powerplant					.02736563		
30	Castaic Dam and Lake					.02637131		
31A	Avenal Gap to Devil's Den Pumping Plant	.10522767	.24566277					
33A	Devil's Den Pumping Plant thru San Luis Obispo Powerplant	.29988697	.70011303					
34	San Luis Obispo Powerplant to Arroyo Grande	.20553239	.79446761					
35	Arroyo Grande thru Santa Maria Terminal	.14771038	.85228962					

REACH CAPITAL COSTS AMONG CONTRACTORS

Reach No.	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		County of Kings	Oak Flat Water District	Tulare Lake Basin Water Storage District
					Municipal and Industrial	Agricultural			
California Aqueduct									
1	.00377824	01707931	00088687	00251598	02742075	.30633444	.00090702	00167139	.03253706
2A	.00394038	01781205	00092491	.00262393	.02864590	.31948963	00094755	00174305	03393294
2B	.00395099	.01786013	.00092740	.00263102	.02869073	.32034362	00094904		03402458
3	.00395208	01786513	.00092766	00263176	.02868919	.32043064	.00094900		03403409
4	.00395323	.01787039	.00092794	.00263254	.02868758	.32052214	00094893		03404410
5	.00395466	.01787693	.00092828	00263352	02868559	.32063639	00094886		.03405659
6	00395684	.01788685	.00092879	.00263498	02868255	32080926	.00094875		03407550
7	.00395753	.01789003	.00092896	.00263544	02868158	32086471	.00094872		03408157
8C	00395842	.01789405	.00092918	.00263603	.02868035	32093468	.00094867		03408923
8D	00404591	01828966		.00269431	02928494	32802221			01551611
9					.03214521	.32838224			
10A					.03267760	.31755652			
11B					.03609912	24768443			
12D					.03801001	20879251			
12E					.03807068	20769413			
13B					.01464596	.16664965			
14A					.00622935	.13374077			
14B					.00634719	.11790931			
14C					.00654829	.09078926			
15A					.00666217	.07549599			
16A					.00692172	04047416			
17E					00213551				
31A	.07364766					57546190			

CALIFORNIA AREA

Reach No.	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Water District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Geronio Pass Water Agency	The Metropolitan Water District of Southern California	Ventura County Flood Control District	TOTAL
1	.00049187	.01101303	.00369180	.02363192	.00650450	00398446	.43940274	.00429334	1 00000000
2A	.00051421	.01151300	.00385943	.02469456	.00679800	00416362	.45932582	.00448829	1 00000000
2B	.00051477	.01152575	.00386368	.02472869	.00680672	00416938	.45985090	.00449324	1 00000000
3	.00051469	.01152359	.00386296	.02472604	.00680580	00416893	.45976953	.00449238	1 00000000
4	.00051459	.01152131	.00386218	.02472327	.00680482	00416846	.45968397	.00449149	1 00000000
5	.00051448	.01151846	.00386122	.02471980	.00680361	00416788	.45957712	.00449037	1 00000000
6	.00051428	.01151416	.00385978	.02471455	.00680178	00416698	.45941544	.00448869	1 00000000
7	.00051421	.01151278	.00385931	.02471286	.00680118	00416671	.45936361	.00448816	1 00000000
8C	.00051414	.01151103	.00385874	.02471072	.00680044	00416634	.45929816	.00448747	1 00000000
8D	.00052475	.01174889	.00393847	.02522753	.00694206	00425349	.46880430	.00458017	1 00000000
9	.00057523	.01287942	.00431739	.02767698	.00761389	.00466647	.51396901	.00502081	1 00000000
10A	.00058444	.01308595	.00438661	.02812957	.00773752	.00474279	.52223261	.00510129	1 00000000
11B	.00064401	.01442004	.00483371	.03104405	.00853455	.00523416	.57558975	.00562119	1 00000000
12D	.00067713	.01516215	.00508241	.03266922	.00897860	.00550817	.60527969	.00591035	1 00000000
12E	.00067804	.01518261	.00508926	.03271816	.00899157	.00551643	.60610827	.00591831	1 00000000
13B	.00073586	.01647710	.00552311	.03554404	.00976456	.00599288	.65787670	.00644278	1 00000000
14A	.00077287	.01730602	.00580090	.03736328	.01026125	.00629961	.69105032	.00674576	1 00000000
14B	.00078692	.01762074	.00590636	.03805925	.01045073	.00641694	.70365858	.00686838	1 00000000
14C	.00081102	.01816015	.00608712	.03924903	.01077498	.00661754	.72526114	.00707853	1 00000000
15A	.00082461	.01846415	.00618901	.03992156	.01095807	.00673092	.73744044	.00719696	1 00000000
16A	.00085571	.01916080	.00642247	.04145755	.01137676	.00698987	.76533787	.00746838	1 00000000
17E	.00089617	.02006742	.00672629	.04364097	.01192239	.00732766	.80165539	.00782162	1 00000000
17F	.00089809	.02011032	.00674067	.04355438	.01194797	.00734341	.80337045	.00783834	1 00000000
18A	.00221525	.04960424	.01662681	.10730447	.02944861	.01809192	.57469531		1 00000000
19	.00221522	.04960300	.01662640	.10730706	.02944877	.01809230	.57469557		1 00000000
19C									1 00000000
20A	.00237800	.05324853	.01784830	.11522151	.03161800	.01942666	.61700972		1 00000000
20B	.00249470	.05586076	.01872390	.12087842	.03316988	.02038045	.64729088		1 00000000
21	.00254199	.05692052		.12319478	.03380326	.02077093	.65963499		1 00000000
22A		.05773081		.12495765	.03428607	.02106816	.66905055		1 00000000
22B		.05842136		.12645206	.03469615	.02132008	.67705257		1 00000000
23				.14467449	.03969012	.02439238	.77446614		1 00000000
24				.22243002	.04339444	.02843498	.66607404		1 00000000
25				.14947726	.03997502	.02520426	.78534346		1 00000000
26A				.14947726	.03997502	.02520426	.78534346		1 00000000
28G				.05126137			.94873863		1 00000000
28H							1 00000000		1 00000000
28J							1 00000000		1 00000000
29A							.95944607	.01318829	1 00000000
29F							.95944608	.01318829	1 00000000
29G							.95944609	.01318827	1 00000000
29H							.96446829	.00906791	1 00000000
29J							.95944608	.01318829	1 00000000
30							.96499830	.00863039	1 00000000
31A									1 00000000
33A									1 00000000
34									1 00000000
35									1 00000000

TABLE B-2: FACTORS FOR DISTRIBUTING REACH

Reach No.	Reach Description	NORTH BAY AREA		SOUTH BAY AREA			TOTAL
		Napa County FC&WCD	Solano County FC&WCD	Alameda County FC&WCD Zone 7	Alameda County Water District	Santa Clara Valley Water District	
North Bay Aqueduct							
1	Lindsey Slough to Suisun City	.39808876	.60191124				1.00000000
2	Suisun City to Cordelia Pumping Plant	.39808861	.60191139				1.00000000
3	Cordelia Pumping Plant thru Napa Turnout Reservoir (Including the interim facilities)	1.00000000					1.00000000
South Bay Aqueduct							
1	Bethany Reservoir thru Altamont Turnout			.22599621	.20663014	.49237700	.07499665
2	Altamont Turnout thru Patterson Reservoir			.22599657	.20663057	.49237791	.07499495
4	Patterson Reservoir to Del Valle Junction			.19504791	.21450021	.51113252	.07931936
5	Del Valle Junction thru Lake Del Valle			.14436367	.12972254	.33715573	.38875806
6	Del Valle Junction thru South Livermore Turnout			.14599918	.21144710	.50574745	.13680627
7	South Livermore Turnout thru Vallecitos Turnout				.25176680	.60218448	.14604872
8	Vallecitos Turnout thru Alameda-Bayside Turnout				.06294980	.72065355	.21639665
9	Alameda-Bayside Turnout thru Santa Clara Terminal Facilities					1.00000000	1.00000000
California Aqueduct							
1	Delta Thru Bethany Reservoir			.00954802	.00872976	.02080260	.00342519

Reach No.	Reach Description	CENTRAL COASTAL AREA			SOUTHERN			
		San Luis Obispo County FC&WCD	Santa Barbara County FC&WCD	Antelope Valley-East Kern Water Agency	Castaic Lake Water Agency	Coachella Valley County Water District	Crestline Lake Arrowhead Water Agency	Desert Water Agency
California Aqueduct								
1	Delta Thru Bethany Reservoir	.00531147	.01240007	.02939503	.00890866	.00528393	.00133630	.00871425
2A	Bethany Reservoir to Orestimba Creek	.00555266	.01296315	.03072975	.00931319	.00552151	.00139640	.00910607
2B	Orestimba Creek to O'Neill Forebay	.00555876	.01297741	.03076360	.00932344	.00552915	.00139833	.00911867
3	O'Neill Forebay to Dos Amigos Pumping Plant	.00555769	.01297494	.03075777	.00932168	.00552856	.00139818	.00911771
4	Dos Amigos Pumping Plant to Panoche Creek	.00555659	.01297235	.03075165	.00931982	.00552794	.00139801	.00911670
5	Panoche Creek to Five Points	.00555520	.01296912	.03074401	.00931751	.00552717	.00139780	.00911543
6	Five Points to Arroyo Pasajero	.00555311	.01296424	.03073244	.00931400	.00552602	.00139750	.00911351
7	Arroyo Pasajero to Kettleman City	.00555243	.01296267	.03072873	.00931287	.00552565	.00139740	.00911289
8C	Kettleman City thru Milham Avenue	.00549671	.01283255	.03042012	.00921937	.00546665	.00138249	.00901561
8D	Milham Avenue thru Avenal Gap	.00560860	.01309375	.03103938	.00940703	.00557923	.00141095	.00920128
9	Avenal Gap thru Twisselman Road			.03398205	.01029883	.00611262	.00154585	.01008094
10A	Twisselman Road thru Lost Hills			.03451663	.01046082	.00621064	.00157063	.01024262
11B	Lost Hills to 7th Standard Road			.03796305	.01150525	.00684053	.00172991	.01128139
12D	7th Standard Road thru Elk Hills Road			.03987187	.01208371	.00719023	.00181834	.01185809
12E	Elk Hills Road thru Tupman Road			.03992309	.01209924	.00720053	.00182095	.01187505
13B	Tupman Road to Buena Vista Pumping Plant			.04324825	.01310695	.00780756	.00197447	.01287616
14A	Buena Vista Pumping Plant thru Santiago Creek			.04536499	.01374841	.00819606	.00207273	.01351685
14B	Santiago Creek thru Old River Road			.04616419	.01399059	.00834387	.00211013	.01376063
14C	Old River Road to Wheeler Ridge Pumping Plant			.04753265	.01440528	.00859629	.00217396	.01417689
15A	Wheeler Ridge Pumping Plant to Wind Gap Pumping Plant			.04830162	.01463830	.00873855	.00220995	.01441151
16A	Wind Gap Pumping Plant to A. D. Edmonston Pumping Plant			.05006206	.01517177	.00906311	.00229201	.01494676
17E	A. D. Edmonston Pumping Plant to Carley V. Porter Tunnel			.05234459	.01586347	.00948480	.00239865	.01564222
17F	Carley V. Porter Tunnel to Junction, West Branch, Calif. Aqueduct			.05245356	.01589650	.00950462	.00240367	.01567491
18A	Junction, West Branch, Calif. Aqueduct thru Cottonwood Chutes			.13238112		.02399390	.00606794	.03957043
19	Cottonwood Chutes to Fairmont			.13237766		.02399451	.00606810	.03957141
19C	Buttes Junction thru Buttes Reservoir			1.00000000				
20A	Fairmont thru 70th Street West			.06847931		.02576424	.00651572	.04249001
20B	70th Street West to Palmdale			.02276024		.02702916	.00683554	.04457607
21	Palmdale to Littlerock Creek			.02318953		.02754716	.00696650	.04543034
22A	Littlerock Creek to Pearblossom Pumping Plant			.01181870		.02794143	.00706620	.04608043
22B	Pearblossom Pumping Plant to West Fork Mojave River					.02827552	.00715073	.04663153
23	West Fork Mojave River to Silverwood Lake					.00324449	.00818121	.05351117
24	Cedar Springs Dam and Silverwood Lake					.01024605	.01251569	.01690478
25	Silverwood Lake to South Portal, San Bernardino Tunnel							
26A	South Portal, San Bernardino Tunnel thru Devil Canyon Pwp.							
28G	Devil Canyon Powerplant to Barton Road							
28H	Barton Road to Lake Perris							
28I	Perris Dam and Lake Perris							
29A	Junction, West Branch, Calif. Aqueduct thru Oso Pumping Plant			.00304299	.02728237			
29F	Oso Pumping Plant thru Quail Embankment			.00304379	.02728234			
29G	Quail Embankment to Pyramid Lake				.02736564			
29H	Pyramid Dam and Lake				.02646380			
29J	Pyramid Lake thru Castaic Powerplant				.02736563			
30	Castaic Dam and Lake				.02637131			
31A	Avenal Gap to Devil's Den Pumping Plant	.10522767	.24566277					
33A	Devil's Den Pumping Plant thru San Luis Obispo Powerplant	.29988697	.70011303					
34	San Luis Obispo Powerplant to Arroyo Grande	.20553239	.79446761					
35	Arroyo Grande thru Santa Maria Terminal	.14771038	.85228962					

MINIMUM OMP&R COSTS AMONG CONTRACTORS

Reach No	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		County of Kings	Oak Flat Water District	Tulare Lake Basin Water Storage District
					Municipal and Industrial	Agricultural			
California Aqueduct									
1	.00377824	.01707931	.00088687	.00251598	.02742075	.30633444	.00090702	.00167139	.03253706
2A	.00394038	.01781205	.00092491	.00262393	.02864590	.31948963	.00094755	.00174305	.03393294
2B	.00395099	.01786013	.00092740	.00263102	.02869073	.32034362	.00094904		.03402458
3	.00395208	.01786513	.00092766	.00263176	.02868919	.32043064	.00094900		.03403409
4	.00395323	.01787039	.00092794	.00263254	.02868758	.32052214	.00094893		.03404410
5	.00395466	.01787693	.00092828	.00263352	.02868559	.32063639	.00094886		.03405659
6	.00395684	.01788685	.00092879	.00263498	.02868255	.32080926	.00094875		.03407550
7	.00395753	.01789003	.00092896	.00263544	.02868158	.32086471	.00094872		.03408157
8C	.00390372	.01764649	.00091632	.00259956	.02836376	.31651560	.00093819		.03361753
8D	.00398843	.01802948		.00265599	.02895222	.32337797			.01529539
9					.03173493	.32315570			
10A					.03225002	.31237849			
11B					.03555316	.24304304			
12D					.03738966	.20458362			
12E					.03744664	.20348854			
13B					.01437747	.16288986			
14A					.00610657	.13050491			
14B					.00621833	.11497394			
14C					.00640883	.08842321			
15A					.00651639	.07347673			
16A					.00676126	.03933051			
17E					.00208231				
31A	.07364766					.57546190			

CALIFORNIA AREA

Reach No.	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Water District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Geronimo Pass Water Agency	The Metropolitan Water District of Southern California	Ventura County Flood Control District	TOTAL
1	.00049187	.01101303	.00369180	.02363192	.00650450	.00398446	.43940274	.00429334	1.00000000
2A	.00051421	.01151300	.00385943	.02469456	.00679800	.00416362	.45932582	.00448829	1.00000000
2B	.00051477	.01152575	.00386368	.02472869	.00680672	.00416938	.45985090	.00449324	1.00000000
3	.00051469	.01152359	.00386296	.02472604	.00680580	.00416893	.45976953	.00449238	1.00000000
4	.00051459	.01152131	.00386218	.02472327	.00680482	.00416846	.45968397	.00449149	1.00000000
5	.00051448	.01151846	.00386122	.02471980	.00680361	.00416788	.45957712	.00449037	1.00000000
6	.00051428	.01151416	.00385978	.02471455	.00680178	.00416698	.45941544	.00448869	1.00000000
7	.00051421	.01151278	.00385931	.02471286	.00680118	.00416671	.45936361	.00448816	1.00000000
8C	.00050905	.01139703	.00382056	.02444913	.00673013	.00412224	.46619410	.00444309	1.00000000
8D	.00051940	.01162908	.00389834	.02495260	.00686817	.00420714	.47575203	.00453354	1.00000000
9	.00056864	.01273174	.00426793	.02733801	.00752279	.00460932	.52108733	.00496332	1.00000000
10A	.00057757	.01293209	.00433508	.02777635	.00764260	.00468324	.52938182	.00504140	1.00000000
11B	.00063524	.01422367	.00476795	.03059311	.00841338	.00515814	.58274744	.00554474	1.00000000
12D	.00066717	.01493906	.00500769	.03215687	.00884093	.00542180	.61234745	.00582351	1.00000000
12E	.00066803	.01495830	.00501413	.03220286	.00885312	.00542956	.61318897	.00583099	1.00000000
13B	.00072369	.01620441	.00543178	.03491750	.00959625	.00588725	.66464178	.00631662	1.00000000
14A	.00075911	.01699773	.00569765	.03665478	.01007092	.00618017	.69750337	.00662575	1.00000000
14B	.00077249	.01729729	.00579803	.03731574	.01025102	.00629159	.70996969	.00674247	1.00000000
14C	.00079540	.01781020	.00596992	.03844447	.01055888	.00648190	.73127981	.00694231	1.00000000
15A	.00080829	.01809845	.00606653	.03908064	.01073222	.00658915	.74327706	.00705461	1.00000000
16A	.00083775	.01875830	.00628766	.04053195	.01128177	.00683383	.77068316	.00731170	1.00000000
17E	.00087593	.01961383	.00657438	.04241764	.01164221	.00715176	.80626315	.00764506	1.00000000
17F	.00087775	.01965466	.00658807	.04250630	.01166651	.00716671	.80794577	.00766097	1.00000000
18A	.00221525	.04960424	.01662681	.10730447	.02944861	.01809192	.57469531		1.00000000
19	.00221522	.04960300	.01662640	.10730706	.02944877	.01809230	.57469557		1.00000000
19C									1.00000000
20A	.00237800	.05324853	.01784830	.11522151	.03161800	.01942666	.61700972		1.00000000
20B	.00249470	.05586076	.01872390	.12087842	.03316988	.02038045	.64729088		1.00000000
21	.00254199	.05692052		.12319478	.03380326	.02077093	.65963499		1.00000000
22A		.05773081		.12495765	.03428607	.02106816	.66905055		1.00000000
22B		.05842136		.12645206	.03469615	.02132008	.67705257		1.00000000
23				.14467449	.03969012	.02439238	.77446614		1.00000000
24				.22243002	.04339444	.02843498	.66607404		1.00000000
25				.11825184	.03722720	.01993915	.82458181		1.00000000
26A				.14947726	.03997502	.02520426	.78534346		1.00000000
28G				.05126137			.94873863		1.00000000
28H							1.00000000		1.00000000
28J							1.00000000		1.00000000
29A							.95652648	.01314816	1.00000000
29F							.95652573	.01314814	1.00000000
29G							.95944609	.01318827	1.00000000
29H							.96446829	.00906791	1.00000000
29J							.95944608	.01318829	1.00000000
30							.96499830	.00863039	1.00000000
31A									1.00000000
33A									1.00000000
34									1.00000000
35									1.00000000

TABLE B-3: POWER COSTS AND CREDITS AND ANNUAL REPLACEMENT

(in

Calendar Year	NORTH BAY AQUEDUCT		SOUTH BAY AQUEDUCT	CALIFORNIA					
	Reach 1	Reach 3	Reach 1	Reach 1	Reach 4	Reach 14A	Reach 15 A	Reach 16A	Reach 17E
	Calhoun and Travis Pumping Plants	Cordelia Pumping Plant (b)	South Bay and Del Valle Pumping Plants (c)	Delta Pumping Plant	Dos Amigos Pumping Plant	Buena Vista Pumping Plant	Wheeler Ridge Pumping Plant	Wind Gap Pumping Plant	A.D. Edmonston (Tehachapi) Pumping Plant
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
1962	0	0	38,130	0	0	0	0	0	0
1963	0	0	58,871	0	0	0	0	0	0
1964	0	0	75,239	0	0	0	0	0	0
1965	0	0	146,297	0	0	0	0	0	0
1966	0	0	198,643	0	0	0	0	0	0
1967	0	0	229,629	26,982	0	0	0	0	0
1968	0	7,128	342,761	1,324,777	239,505	0	0	0	0
1969	0	8,557	279,751	855,304	143,403	0	0	0	0
1970	0	13,666	448,383	368,508	217,820	2,940	0	0	0
1971	0	10,626	422,057	597,946	229,306	156,540	23,021	18,577	29,067
1972	0	14,430	623,564	1,110,833	574,275	348,668	187,825	385,935	1,263,087
1973	0	14,453	485,534	918,234	493,776	511,904	514,487	883,725	3,139,297
1974	0	15,000	448,400	1,013,000	548,100	574,800	597,300	1,112,400	3,950,600
1975	0	15,000	520,400	1,497,000	686,100	773,800	825,300	1,541,400	5,534,600
1976	0	11,000	534,400	1,726,000	821,100	945,800	958,300	1,957,400	7,005,600
1977	0	10,000	584,400	2,033,000	914,100	959,800	1,039,300	1,971,400	7,039,600
1978	0	11,000	684,400	1,882,000	1,216,100	1,273,800	1,306,300	2,598,400	9,481,600
1979	0	11,000	666,400	4,028,000	1,256,100	1,286,800	1,297,300	2,689,400	9,594,600
1980	12,000	17,200	760,400	2,131,200	1,518,100	1,441,800	1,559,300	2,962,400	10,573,600
1981	12,000	18,200	766,400	2,409,200	1,581,100	1,564,800	1,584,300	3,016,400	10,714,600
1982	12,000	17,200	731,400	2,476,200	1,620,100	1,689,800	1,607,300	3,250,400	11,918,600
1983	47,000	64,200	2,614,400	11,807,200	5,767,100	5,457,800	5,515,300	11,385,400	37,070,600
1984	53,000	71,200	2,868,400	7,680,200	6,587,100	6,499,800	6,051,300	12,394,400	40,135,400
1985	53,000	70,200	2,796,400	10,448,400	6,850,100	6,446,800	6,611,300	12,304,400	39,905,400
1986	54,000	68,200	2,728,400	10,301,400	7,193,100	6,935,800	6,539,300	12,534,400	44,596,400
1987	57,000	70,200	2,762,400	11,443,400	7,688,100	7,172,800	7,396,300	13,768,400	45,709,400
1988	85,000	67,200	2,637,400	12,213,400	7,823,100	7,389,800	7,165,300	14,919,400	49,415,400
1989	95,000	71,200	2,783,400	12,371,400	8,728,100	8,427,800	8,252,300	15,812,400	52,274,400
1990	122,000	64,200	2,517,400	18,601,400	8,482,100	8,966,800	8,476,300	17,797,400	59,914,400
1991	128,000	69,200	2,668,400	15,346,400	8,954,100	9,425,800	9,533,300	18,665,400	62,763,400
1992	132,000	72,200	2,765,400	13,040,400	9,270,100	9,700,800	9,809,300	19,198,400	64,532,400
1993	120,000	115,200	2,542,400	18,642,400	8,566,100	9,467,800	9,123,300	18,248,400	65,251,400
1994	125,000	123,200	2,636,400	17,446,400	9,026,100	9,790,800	10,081,300	20,043,400	67,222,400
1995	125,000	123,200	2,637,400	18,449,400	9,035,100	9,807,800	10,102,300	19,730,400	67,413,400
1996	122,000	119,200	2,581,400	22,865,400	8,900,100	9,697,800	9,947,300	19,801,400	66,526,400
1997	127,000	125,200	2,682,400	17,708,400	9,328,100	10,608,800	10,346,300	20,589,400	69,137,400
1998	123,000	122,200	2,604,400	18,312,400	9,164,100	10,357,800	10,115,300	21,380,400	72,819,400
1999	123,000	123,200	2,598,400	20,720,400	9,195,100	10,332,800	10,118,300	21,312,400	72,556,400
2000	128,000	129,200	2,677,400	16,068,400	9,473,100	10,668,800	10,437,300	21,994,400	74,851,400
2001	123,000	124,200	2,591,400	18,291,400	9,235,100	10,883,800	10,771,300	21,797,400	78,229,400
2002	122,000	124,200	2,572,400	18,054,400	9,150,100	10,768,800	10,650,300	21,548,400	77,338,400
2003	122,000	125,200	2,562,400	22,169,400	9,163,100	10,802,800	11,365,300	22,526,400	77,667,400
2004	125,000	129,200	2,696,400	19,037,400	9,302,100	11,016,800	11,529,300	22,838,400	78,719,400
2005	162,000	130,200	2,564,400	18,820,400	9,183,100	11,404,800	11,404,300	22,962,400	83,173,400
2006	167,000	132,200	2,628,400	19,278,400	9,401,100	11,670,800	11,656,300	23,462,400	79,562,400
2007	163,000	129,200	2,569,400	19,693,400	9,206,100	11,437,800	11,439,300	23,035,400	83,439,400
2008	163,000	130,200	2,566,400	19,680,400	9,186,100	11,413,800	11,412,300	22,980,400	83,244,400
2009	161,000	130,200	2,535,400	21,088,400	9,088,100	11,296,800	11,297,300	24,007,400	82,417,400
2010	165,000	134,200	2,583,400	20,764,400	9,259,100	11,573,800	12,166,300	24,467,400	83,968,400
2011	167,000	136,200	2,587,400	19,789,400	9,273,100	11,591,800	12,181,300	24,484,400	83,984,400
2012	168,000	137,200	2,595,400	19,872,400	9,309,100	11,636,800	12,228,300	24,581,400	84,321,400
2013	167,000	137,200	2,575,400	20,688,400	9,231,100	11,538,800	12,125,300	24,371,400	83,598,400
2014	167,000	138,200	2,569,400	21,423,400	9,216,100	11,521,800	12,109,300	24,343,400	83,515,400
2015	169,000	140,200	2,592,400	19,825,400	9,297,100	11,627,800	12,220,300	24,564,400	84,262,400
2016	168,000	140,200	2,579,400	20,721,400	9,250,100	11,561,800	12,150,300	24,423,400	83,781,400
2017	171,000	143,200	2,606,400	19,120,400	9,344,100	11,624,800	12,275,300	24,671,400	84,616,400
2018	170,000	143,200	2,590,400	19,837,400	9,287,100	11,612,800	12,203,300	24,528,400	84,135,400
2019	168,000	142,200	2,550,400	22,075,400	9,139,100	11,429,800	12,012,300	24,147,400	82,840,400
2020 (d)	238,000	292,200	2,596,400	19,846,400	9,315,100	11,652,800	12,247,300	24,619,400	84,461,400

- a) Includes the costs of electric capacity and energy used by pumping plants, exclusive of associated power transmission and station service charges; the value of electric capacity and energy produced by power recovery plants (treated as negative costs); and the payments to sinking fund reserves that will finance periodic replacement of electro-mechanical equipment.
- b) Between 1968 and 1979, inclusive, power costs are for an interim facility.

DEPOSITS FOR EACH AQUEDUCT PUMPING AND POWER RECOVERY PLANT^(a)

dollars)

AQUEDUCT								GRAND TOTAL	Calendar Year
Reach 18A Cottonwood Powerplant	Reach 22B Pear- blossom Pumping Plant	Reach 26A Devil Canyon Powerplant	Reach 29A Oso Pumping Plant	Reach 29G Pyramid Powerplant	Reach 29J Castaic Powerplant	Reach 31A Las Perillas and Badger Hill Pumping Plants	Reach 33A Devil's Den Sawtooth and Polonio PP's and San Luis Obispo Pwp.		
(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
0	0	0	0	0	0	0	0	38,130	1962
0	0	0	0	0	0	0	0	58,871	1963
0	0	0	0	0	0	0	0	75,239	1964
0	0	0	0	0	0	0	0	146,297	1965
0	0	0	0	0	0	0	0	198,643	1966
0	0	0	0	0	0	6,517	0	263,128	1967
0	0	0	0	0	0	120,278	0	2,034,449	1968
0	0	0	0	0	0	79,620	0	1,366,635	1969
0	0	0	0	0	0	137,449	0	1,188,766	1970
0	64,807	0	1,696	0	0	171,389	0	1,725,032	1971
0	103,584	-3,112	180,005	0	-385,696	240,651	0	4,644,049	1972
0	615,309	-931,697	274,450	0	-1,193,216	128,730	0	5,854,986	1973
0	716,100	-938,500	321,800	0	-1,784,700	142,700	0	6,717,000	1974
0	697,100	-1,415,500	472,800	0	-2,609,300	131,700	0	8,670,400	1975
0	1,369,900	-2,338,100	448,800	0	-3,179,900	150,700	0	10,411,000	1976
0	1,862,900	-3,034,100	304,800	0	-2,577,500	155,700	0	11,263,400	1977
0	2,744,900	-3,702,100	321,800	0	-2,907,000	199,700	0	15,110,900	1978
0	2,683,900	-4,396,100	315,800	0	-3,173,500	187,700	0	16,447,400	1979
0	3,074,900	-4,592,100	346,800	0	-3,547,800	229,500	0	16,487,300	1980
0	3,243,900	-4,456,100	345,800	-671,900	-3,504,300	231,500	0	16,855,900	1981
0	3,003,900	-4,731,100	385,800	-1,738,900	-3,595,800	223,500	111,800	16,982,200	1982
-641,400	10,892,900	-11,329,100	998,800	998,800	-8,168,900	-7,967,100	866,500	64,805,500	1983
-878,400	11,923,900	-11,286,100	1,059,800	-7,496,900	-8,023,400	960,500	490,800	69,091,000	1984
-610,400	10,698,900	-10,635,100	1,197,800	-8,452,900	-8,629,800	1,044,500	965,800	71,064,800	1985
-871,400	11,237,900	-11,896,100	1,192,800	-9,322,900	-9,289,100	1,047,500	1,084,800	74,134,500	1986
-760,400	11,328,900	-11,897,100	1,649,800	-9,565,900	-8,671,200	1,167,500	1,418,800	80,738,400	1987
-819,400	10,742,900	-11,899,100	2,347,800	-10,465,900	-9,885,600	1,119,500	1,343,800	84,200,000	1988
-831,400	11,306,900	-11,898,100	2,531,800	-10,506,900	-10,538,800	1,191,500	1,454,800	91,525,800	1989
-933,400	10,114,900	-12,014,100	3,936,800	-14,359,900	-14,147,100	1,078,500	1,291,800	99,909,500	1990
-1,141,400	10,688,900	-11,729,100	4,111,800	-14,371,900	-13,127,100	1,170,500	1,377,800	104,533,500	1991
-1,024,400	10,999,900	-11,771,100	4,227,800	-14,826,900	-14,114,600	1,275,500	1,736,800	105,024,000	1992
-1,171,400	10,033,900	-11,840,100	4,602,800	-14,829,900	-14,928,600	1,154,500	1,546,800	106,645,000	1993
-1,130,400	10,345,900	-12,003,100	4,775,800	-15,437,900	-14,084,600	1,210,500	1,640,800	111,812,000	1994
-1,117,400	10,358,900	-11,836,100	4,786,800	-15,738,900	-15,203,600	1,212,500	1,666,800	111,553,000	1995
-1,075,400	10,080,900	-12,542,100	4,759,800	-15,378,900	-16,029,600	1,182,500	1,714,800	113,273,000	1996
-977,400	10,519,900	-12,414,100	4,938,800	-16,150,900	-15,218,000	1,237,500	1,820,800	114,409,600	1997
-1,368,400	10,153,900	-13,078,100	5,560,800	-16,537,900	-17,256,000	1,202,500	2,010,800	115,686,600	1998
-1,246,400	10,123,900	-12,293,100	5,550,800	-16,179,900	-16,592,000	1,208,500	2,034,800	119,686,600	1999
-1,188,400	10,467,900	-12,587,100	5,728,800	-15,692,900	-17,356,000	1,253,500	2,140,800	119,194,600	2000
-1,457,400	10,099,900	-13,382,100	5,903,800	-16,998,900	-18,628,000	1,209,500	2,024,800	120,818,600	2001
-1,126,400	9,961,900	-12,655,100	5,846,800	-16,220,900	-18,285,100	1,205,500	2,425,800	121,481,500	2002
-1,429,400	9,957,900	-12,234,100	6,582,800	-16,951,900	-20,198,100	1,267,500	2,398,800	125,897,500	2003
-1,468,400	10,097,900	-12,229,100	6,335,800	-17,165,900	-20,521,100	1,296,500	2,445,800	124,185,500	2004
-1,442,400	9,935,900	-13,912,100	6,639,800	-17,478,900	-21,505,100	1,278,500	2,398,800	125,719,500	2005
-1,300,400	10,184,900	-13,511,100	6,781,800	-17,082,900	-19,603,100	1,316,500	2,503,800	127,248,500	2006
-1,477,400	9,936,900	-13,795,100	6,673,800	-17,389,900	-21,994,500	1,281,500	2,405,800	126,754,100	2007
-1,472,400	9,952,900	-13,773,100	6,643,800	-17,345,900	-21,911,500	1,279,500	2,403,800	126,554,100	2008
-1,296,400	9,797,900	-13,434,100	6,944,800	-17,157,900	-20,977,500	1,264,500	2,375,800	129,539,100	2009
-1,294,400	10,017,900	-13,974,100	6,721,800	-17,583,900	-22,153,500	1,293,500	2,398,800	130,508,100	2010
-1,189,400	10,004,900	-13,149,100	6,738,800	-17,542,900	-22,152,500	1,302,500	2,417,800	130,625,100	2011
-1,287,400	10,053,900	-13,311,100	6,761,800	-17,680,900	-21,581,500	1,306,500	2,431,800	131,543,100	2012
-1,255,400	9,975,900	-13,287,100	6,700,800	-17,637,900	-21,536,500	1,295,500	2,396,800	131,085,100	2013
-1,250,400	9,963,900	-13,376,100	6,692,800	-17,685,900	-21,594,500	1,291,500	2,413,800	131,459,100	2014
-1,252,400	10,035,900	-13,415,100	6,761,800	-17,728,900	-21,585,500	1,304,500	2,423,800	131,243,100	2015
-1,266,400	9,996,900	-13,343,100	6,714,800	-17,663,900	-21,563,500	1,297,500	2,411,800	131,360,100	2016
-1,305,400	10,107,900	-13,347,100	6,780,800	-17,308,900	-22,392,500	1,313,500	2,433,800	130,855,100	2017
-1,254,400	10,028,900	-13,351,100	6,748,800	-17,674,900	-21,567,500	1,303,500	2,411,800	131,153,100	2018
-1,243,400	9,878,900	-13,207,100	6,994,800	-17,658,900	-21,698,500	1,281,500	2,381,800	131,234,100	2019
-1,254,400	10,074,900	-13,435,100	6,770,800	-17,729,900	-21,643,500	1,306,500	2,427,800	131,786,100	2020 ^(d)

- c) The estimated costs of Del Valle Pumping Plant are combined with those of South Bay Pumping Plant to simplify the cost allocations.
- d) And each year thereafter for the remainder of the project repayment period.

TABLE B-4: ANNUAL ENTITLE-

(in acre-feet)

Sheet 1 of 4

Calendar Year	NORTH BAY AREA			SOUTH BAY AREA (b)				CENTRAL COASTAL AREA		
	Napa County FC & WCD(c)	Solano County FC & WCD	Total	Alameda County FC & WCD Zone 7	Alameda County Water District	Santa Clara Valley Water District	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
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	507	5,248	5,783	11,538	0	0	0
1968	0	0	0	6,900	15,000	88,000	109,900	0	0	0
1969	0	0	0	8,200	15,500	75,000	98,700	0	0	0
1970	0	0	0	10,000	16,200	88,000	114,200	0	0	0
1971	0	0	0	11,200	17,000	88,000	116,200	0	0	0
1972	0	0	0	12,400	17,900	88,000	118,300	0	0	0
1973	0	0	0	13,600	18,800	88,000	120,400	0	0	0
1974	0	0	0	14,800	19,600	88,000	122,400	0	0	0
1975	0	0	0	16,000	20,500	88,000	124,500	0	0	0
1976	0	0	0	17,200	21,300	88,000	126,500	0	0	0
1977	0	0	0	18,400	22,200	88,000	128,600	0	0	0
1978	0	0	0	19,600	23,100	88,000	130,700	0	0	0
1979	0	0	0	20,800	23,900	88,000	132,700	0	0	0
1980	12,500	6,750	19,250	22,000	24,800	88,000	134,800	1,000	1,200	2,200
1981	13,750	8,000	21,750	23,000	26,000	88,000	137,000	1,000	2,300	3,300
1982	15,000	9,400	24,400	24,000	27,200	88,000	139,200	2,000	4,600	6,600
1983	16,250	10,800	27,050	25,000	28,400	88,000	141,400	3,000	6,900	9,900
1984	17,500	12,100	29,600	26,000	29,600	88,000	143,600	4,500	10,400	14,900
1985	18,750	14,000	32,750	27,000	30,800	88,000	145,800	7,500	17,300	24,800
1986	20,000	16,500	36,500	28,000	32,100	88,000	148,100	10,000	23,100	33,100
1987	21,250	20,000	41,250	29,000	33,300	88,000	150,300	12,500	28,800	41,300
1988	22,500	27,000	49,500	30,000	34,500	88,000	152,500	15,500	35,800	51,300
1989	23,750	34,500	58,250	31,000	35,700	90,000	156,700	20,000	46,100	66,100
1990	25,000	42,000	67,000	32,000	36,900	92,000	160,900	25,000	57,700	82,700
1991	25,000	42,000	67,000	34,000	38,400	94,000	166,400	25,000	57,700	82,700
1992	25,000	42,000	67,000	36,000	39,900	96,000	171,900	25,000	57,700	82,700
1993	25,000	42,000	67,000	38,000	41,400	98,000	177,400	25,000	57,700	82,700
1994	25,000	42,000	67,000	40,000	42,000	100,000	182,000	25,000	57,700	82,700
1995	25,000	42,000	67,000	42,000	42,000	100,000	184,000	25,000	57,700	82,700
1996	25,000	42,000	67,000	44,000	42,000	100,000	186,000	25,000	57,700	82,700
1997	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
1998	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
1999	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2000	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2001	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2002	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2003	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2004	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2005	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2006	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2007	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2008	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2009	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2010	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2011	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2012	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2013	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2014	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2015	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2016	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2017	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2018	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2019	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2020	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2021	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2022	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2023	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2024	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2025	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2026	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2027	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2028	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2029	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2030	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2031	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2032	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2033	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2034	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2035	25,000	42,000	67,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
TOTAL	1,331,250	2,091,050	3,422,300	2,494,607	2,459,248	6,510,783	11,464,638	1,227,000	2,830,700	4,057,700

a) From Tables A and Articles 6(a) of water supply contracts as of December 31, 1972.

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.

MENTS TO PROJECT WATER (a)

(in acre-feet)

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	County of Kings	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1962	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0
1968	3,700	14,300	1,000	0	46,600	900	2,300	12,250	81,050
1969	5,000	14,325	3,000	2,400	95,700	1,200	2,500	43,950	168,075
1970	5,700	15,700	3,000	2,500	145,100	1,300	2,600	31,800	207,700
1971	6,700	17,900	3,000	2,300	190,300	1,300	2,800	34,200	258,500
1972	7,700	20,000	3,000	2,600	270,700	1,400	5,366	110,000	420,766
1973	8,700	22,000	3,000	2,900	310,500	1,500	3,100	40,652	392,352
1974	9,700	33,390	3,000	3,300	347,000	1,500	3,471	68,989	470,350
1975	10,700	26,200	3,000	3,600	385,500	1,600	3,400	46,900	480,900
1976	11,700	28,300	3,000	3,900	432,800	1,600	3,500	50,800	535,600
1977	12,700	30,400	3,000	4,200	483,600	1,700	3,700	54,800	594,100
1978	12,700	32,500	3,000	4,600	534,300	1,900	3,900	58,700	651,600
1979	12,700	34,600	3,000	4,900	583,900	2,000	4,000	62,600	707,700
1980	12,700	36,700	3,000	5,200	634,500	2,200	4,200	66,500	765,000
1981	12,700	38,800	3,000	5,600	691,400	2,300	4,300	70,400	828,500
1982	12,700	41,000	3,000	5,900	745,300	2,500	4,500	74,300	889,200
1983	12,700	42,900	3,000	6,200	805,100	2,800	4,600	78,200	955,500
1984	12,700	45,100	3,000	6,500	860,600	3,100	4,800	82,100	1,017,900
1985	12,700	47,200	3,000	6,900	915,000	3,400	4,900	86,000	1,079,100
1986	12,700	49,300	3,000	7,200	968,200	3,700	5,100	90,000	1,139,200
1987	12,700	51,400	3,000	7,500	1,023,500	4,000	5,200	93,900	1,201,200
1988	12,700	53,500	3,000	7,800	1,074,600	4,000	5,400	97,800	1,258,800
1989	12,700	55,600	3,000	8,200	1,112,300	4,000	5,600	101,700	1,303,100
1990	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
1991	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
1992	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
1993	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
1994	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
1995	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
1996	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
1997	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
1998	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
1999	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2000	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2001	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2002	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2003	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2004	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2005	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2006	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2007	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2008	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2009	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2010	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2011	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2012	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2013	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2014	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2015	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2016	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2017	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2018	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2019	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2020	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2021	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2022	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2023	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2024	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2025	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2026	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2027	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2028	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2029	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2030	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2031	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2032	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2033	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2034	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
2035	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000
TOTAL	818,900	3,405,315	202,000	495,200	65,712,900	233,900	351,437	6,516,541	77,736,193

TABLE B-4: ANNUAL ENTITLE-

(in acre-feet)

Sheet 3 of 4

Calendar Year	SOUTHERN CALIFORNIA AREA									
	Antelope Valley-East Kern Water Agency	Castaic Lake Water Agency	Coachella Valley County Water District	Crestline Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Water District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District
	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
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	20,000	1,236	5,200	526	8,000	170	8,400	1,620	1,677	122
1973	25,000	3,700	5,800	870	9,000	290	10,700	2,940	48,000	11,500
1974	30,000	5,700	6,400	1,160	10,000	400	13,100	4,260	50,000	12,300
1975	35,000	7,500	7,000	1,450	11,000	520	15,400	5,580	52,500	13,100
1976	44,000	9,500	7,600	1,740	12,000	640	17,800	6,900	55,000	14,000
1977	50,000	11,400	8,421	2,030	13,000	730	20,200	8,220	57,500	14,800
1978	57,000	13,400	9,242	2,320	14,000	920	22,500	9,340	60,000	15,700
1979	63,000	15,300	10,063	2,610	15,000	1,040	24,900	10,260	62,500	16,600
1980	69,200	17,700	10,884	2,900	17,000	1,150	27,200	11,180	65,500	17,400
1981	75,000	20,100	12,105	3,190	19,000	1,270	29,600	11,700	68,500	18,300
1982	81,300	22,100	13,326	3,480	21,000	1,380	31,900	12,320	71,500	19,100
1983	87,700	24,600	14,547	3,770	23,000	1,500	34,300	12,940	74,500	19,900
1984	94,000	26,900	15,768	4,060	25,000	1,610	36,700	13,560	78,000	20,700
1985	100,400	29,100	16,989	4,350	27,000	1,730	39,000	14,180	81,500	21,800
1986	106,700	30,900	18,210	4,640	29,000	1,840	41,400	14,800	85,000	23,200
1987	113,000	32,900	19,431	4,930	31,500	1,960	43,700	15,420	89,000	24,600
1988	119,400	35,300	20,652	5,220	34,000	2,070	46,000	16,040	93,000	26,000
1989	125,700	37,400	21,873	5,510	36,500	2,190	48,500	16,660	97,000	27,400
1990	132,100	39,300	23,100	5,800	38,100	2,300	50,800	17,300	101,500	28,800
1991	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
1992	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
1993	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
1994	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
1995	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
1996	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
1997	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
1998	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
1999	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2000	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2001	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2002	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2003	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2004	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2005	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2006	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2007	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2008	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2009	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2010	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2011	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2012	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2013	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2014	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2015	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2016	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2017	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2018	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2019	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2020	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2021	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2022	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2023	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2024	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2025	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2026	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2027	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2028	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2029	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2030	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2031	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2032	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2033	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2034	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
2035	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800
TOTAL	7,656,500	2,251,536	1,286,111	321,556	2,107,600	127,210	2,848,100	983,720	5,909,177	1,641,322

MENTS TO PROJECT WATER^(a)

(in acre-feet)

Sheet 4 of 4

Calendar Year	SOUTHERN CALIFORNIA AREA (continued)				FEATHER RIVER AREA				TOTAL STATE WATER PROJECT
	San Geronio Pass Water Agency	The Metropolitan Water District of Southern California	Ventura County Flood Control District	Total	City of Yuba City	County of Butte	Plumas County FC & WCD	Total	
	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)
1962	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	11,538
1968	0	0	0	0	0	300	250	550	191,500
1969	0	0	0	0	0	350	270	620	267,395
1970	0	0	0	0	0	400	300	700	322,600
1971	0	0	0	0	0	450	440	890	375,590
1972	0	154,772	0	201,723	0	500	470	970	741,759
1973	0	354,600	0	472,400	0	600	500	1,100	986,252
1974	0	454,900	0	588,220	0	700	530	1,230	1,182,200
1975	0	555,200	0	704,250	0	1,050	560	1,610	1,311,260
1976	0	655,600	0	824,780	0	1,400	590	1,990	1,488,870
1977	0	755,900	0	942,201	0	1,800	620	2,420	1,667,321
1978	0	856,300	0	1,060,722	0	2,200	650	2,850	1,845,872
1979	0	956,600	0	1,177,873	0	2,600	680	3,280	2,021,553
1980	6,800	1,057,000	1,000	1,304,914	0	4,000	710	4,710	2,230,874
1981	7,800	1,157,300	2,000	1,425,865	4,200	5,450	740	10,390	2,426,805
1982	8,800	1,257,600	3,000	1,546,806	4,600	6,900	770	12,270	2,618,476
1983	9,800	1,358,000	4,000	1,668,557	5,050	8,350	800	14,200	2,816,607
1984	10,800	1,458,300	5,000	1,790,398	5,500	9,800	830	16,130	3,012,528
1985	11,800	1,558,700	6,000	1,912,549	5,950	12,250	860	19,060	3,214,059
1986	12,900	1,659,300	8,000	2,035,890	6,600	14,700	890	22,190	3,414,980
1987	14,000	1,759,800	10,000	2,160,241	7,300	17,150	920	25,370	3,619,661
1988	15,100	1,860,400	13,000	2,286,182	8,000	20,600	960	29,560	3,827,842
1989	16,200	1,961,000	16,000	2,411,933	8,800	24,050	1,000	33,850	4,029,933
1990	17,300	2,011,500	20,000	2,487,900	9,600	27,500	1,040	38,140	4,191,640
1991	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,080	38,180	4,206,780
1992	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,120	38,220	4,212,320
1993	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,160	38,260	4,217,860
1994	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,200	38,300	4,222,500
1995	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,250	38,350	4,224,550
1996	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,300	38,400	4,226,600
1997	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,350	38,450	4,228,650
1998	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,400	38,500	4,228,700
1999	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,450	38,550	4,228,750
2000	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,510	38,610	4,228,810
2001	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,570	38,670	4,228,870
2002	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,630	38,730	4,228,930
2003	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,690	38,790	4,228,990
2004	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,750	38,850	4,229,050
2005	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,810	38,910	4,229,110
2006	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,880	38,980	4,229,180
2007	17,300	2,011,500	20,000	2,497,500	9,600	27,500	1,950	39,050	4,229,250
2008	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,020	39,120	4,229,320
2009	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,090	39,190	4,229,390
2010	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,160	39,260	4,229,460
2011	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,240	39,340	4,229,540
2012	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,320	39,420	4,229,620
2013	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,410	39,510	4,229,710
2014	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,500	39,600	4,229,800
2015	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,600	39,700	4,229,900
2016	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2017	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2018	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2019	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2020	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2021	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2022	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2023	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2024	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2025	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2026	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2027	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2028	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2029	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2030	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2031	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2032	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2033	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2034	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
2035	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,230,000
TOTAL	909,800	112,360,272	988,000	139,390,904	497,600	1,400,600	112,820	2,011,020	238,082,755

TABLE B-5: ANNUAL QUANTITIES DELIVERED

(in acre-feet)

Sheet 1 of 10

Calendar Year	Grizzly Valley Pipeline PC FC&WCD	NORTH BAY AQUEDUCT			SOUTH BAY AQUEDUCT						
		Reach 2	Reach 3	TOTAL NORTH BAY AQUEDUCT (a)	Reach 1		Reach 2	Reach 4	Reach 5		Reach 6
					ACWD	AC FC&WCD			ACWD	AC FC&WCD	
		SC FC&WCD	NC FC&WCD(a)								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
1962	0	0	0	0	8,412	141	353	0	0	0	0
1963	0	0	0	0	10,914	814	917	0	0	0	0
1964	0	0	0	0	19,238	248	1,425	0	0	0	0
1965	0	0	0	0	15,280	637	1,830	138	0	0	0
1966	0	0	0	0	0	2,475	2,537	499	0	0	0
1967	0	0	0	0	0	1,527	2,391	862	0	0	0
1968	0	0	1,214	1,214	0	1,608	3,799	721	0	5	0
1969	0	0	2,687	2,687	0	1,165	3,459	1,851	0	160	0
1970	70	0	3,618	3,618	0	1,345	4,558	3,182	0	164	0
1971	64	0	2,521	2,521	0	546	1,908	2,403	0	160	0
1972	505	0	3,647	3,647	0	1,066	4,605	2,041	1,489	2,777	0
1973	679	0	3,792	3,792	0	430	1,123	1,193	0	229	0
1974	648	0	4,870	4,870	0	177	0	975	0	162	0
1975	560	0	4,960	4,960	0	265	7,451	2,874	0	2,007	3,403
1976	590	0	2,700	2,700	0	265	5,444	2,894	0	2,026	6,571
1977	620	0	2,730	2,730	0	265	5,699	3,203	0	2,336	6,897
1978	650	0	2,765	2,765	0	265	5,935	3,427	0	2,751	7,222
1979	680	0	2,810	2,810	0	265	6,276	3,427	0	3,322	7,510
1980	710	6,750	2,875	9,625	0	265	6,730	3,427	0	3,858	7,720
1981	740	8,000	2,925	10,925	0	265	7,015	3,427	0	4,333	7,960
1982	770	9,400	2,975	12,375	0	300	5,400	3,400	0	3,600	11,300
1983	800	10,330	2,940	13,270	0	300	5,700	3,600	0	3,600	11,800
1984	830	11,160	3,020	14,180	0	300	6,000	3,800	0	3,600	12,300
1985	860	12,870	3,100	15,970	0	300	6,300	3,900	0	3,700	12,800
1986	890	15,240	3,200	18,440	0	300	6,600	4,100	0	3,600	13,400
1987	920	18,320	3,300	21,620	0	300	6,900	4,300	0	3,500	14,000
1988	960	24,900	3,400	28,300	0	300	4,300	4,500	0	3,400	17,300
1989	1,000	31,350	3,500	34,850	0	300	4,500	4,700	0	3,200	18,300
1990	1,040	37,800 (b)	3,600	41,400	0	300	4,700	4,900	0	3,200	18,900
1991	1,080	37,800	3,720	41,520	0	300	4,800	5,100	0	3,100	19,500
1992	1,120	37,800	3,840	41,640	0	300	5,000	5,300	0	2,700	20,300
1993	1,160	37,800	3,960	41,760	0	300	5,100	5,500	0	2,800	20,900
1994	1,200	37,800	4,100	41,900	0	300	5,200	5,700	0	2,900	21,100
1995	1,250	37,800	4,200	42,000	0	300	5,000	5,900	0	2,500	18,300
1996	1,300	37,800	4,360	42,160	0	300	9,200	6,000	0	2,500	18,800
1997	1,350	37,800	4,520	42,320	0	300	9,500	6,100	0	2,400	19,300
1998	1,400	37,800	4,680	42,480	0	300	9,700	6,300	0	2,300	19,800
1999	1,450	37,800	4,840	42,640	0	300	10,000	6,400	0	2,200	20,300
2000	1,510	37,800	5,000	42,800	0	300	10,200	6,500	0	2,200	20,800
2001	1,570	37,800	5,300	43,100	0	300	10,400	6,600	0	2,300	21,200
2002	1,630	37,800	5,600	43,400	0	300	10,700	6,600	0	2,300	21,700
2003	1,690	37,800	5,900	43,700	0	300	11,000	6,700	0	2,300	22,100
2004	1,750	37,800	6,200	44,000	0	300	11,200	6,700	0	2,400	22,600
2005	1,810	37,800	6,500	44,300	0	300	11,400	6,800	0	2,400	23,100
2006	1,880	37,800	6,800	44,600	0	300	11,700	6,500	0	2,300	23,600
2007	1,950	37,800	7,100	44,900	0	300	11,900	6,300	0	2,300	24,000
2008	2,020	37,800	7,400	45,200	0	300	12,200	6,000	0	2,200	24,500
2009	2,090	37,800	7,700	45,500	0	300	12,400	5,800	0	2,200	24,900
2010	2,160	37,800	8,000	45,800	0	300	12,600	5,500	0	2,200	25,400
2011	2,240	37,800	8,400	46,200	0	300	12,600	5,500	0	2,200	25,400
2012	2,320	37,800	8,800	46,600	0	300	12,600	5,500	0	2,200	25,400
2013	2,410	37,800	9,200	47,000	0	300	12,600	5,500	0	2,200	25,400
2014	2,500	37,800	9,600	47,400	0	300	12,600	5,500	0	2,200	25,400
2015	2,600	37,800	10,000	47,800	0	300	12,600	5,500	0	2,200	25,400
2016	2,700	37,800	10,400	48,200	0	300	12,600	5,500	0	2,200	25,400
2017	2,700	37,800	10,800	48,600	0	300	12,600	5,500	0	2,200	25,400
2018	2,700	37,800	11,200	49,000	0	300	12,600	5,500	0	2,200	25,400
2019	2,700	37,800	11,600	49,400	0	300	12,600	5,500	0	2,200	25,400
2020(c)	2,700	37,800	25,000	62,800	0	300	12,600	5,500	0	2,200	25,400

- a) Between 1968-1979, 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 delivered from the Delta thru the District's facilities.
- c) And thereafter for the remainder of the project repayment period.

FROM EACH AQUEDUCT REACH TO EACH CONTRACTOR

(in acre-feet)

Sheet 2 of 10

Calendar Year	SOUTH BAY AQUEDUCT (continued)				CALIFORNIA AQUEDUCT							
	Reach 7	Reach 8	Reach 9	TOTAL SOUTH BAY AQUEDUCT	NORTH SAN JOAQUIN DIVISION Reach 2A	SOUTH SAN JOAQUIN DIVISION						
						Reach 8C				Reach 8D		
						ACWD	ACWD	SCVWD	OFWD	HWD	TLBWS	EWSID
(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	
1962	0	0	0	8,906	0	0	0	0	0	0	0	0
1963	0	0	0	12,645	0	0	0	0	0	0	0	0
1964	0	0	0	20,911	0	0	0	0	0	0	0	0
1965	1,127	0	15,014	34,026	0	0	0	0	0	0	0	0
1966	14,864	0	34,538	54,913	0	0	0	0	0	0	0	0
1967	12,882	0	39,101	56,763	0	0	0	0	0	0	0	0
1968	24,817	0	70,105	101,055	3,084	0	25,100	1,978	900	0	26,360	0
1969	813	0	62,264	69,712	3,016	0	7,081	56	100	0	31,375	0
1970	0	0	80,311	89,560	5,911	0	0	3,942	0	0	40,407	3,408
1971	5,961	0	87,606	98,584	7,212	0	80,906	5,990	3,700	0	41,053	6,659
1972	26,182	0	100,266	138,426	8,166	0	144,843	5,795	1,400	0	42,443	5,851
1973	2,521	0	88,582	94,078	3,214	140	26,177	3,000	1,500	1,500	22,057	2,760
1974	0	4	88,000	89,318	3,471	0	32,603	3,000	1,500	0	33,390	3,300
1975	16,823	3,677	88,000	124,500	3,400	0	40,460	3,000	1,600	0	35,850	3,600
1976	12,526	8,774	88,000	126,500	3,500	0	24,900	3,000	1,600	0	28,300	3,900
1977	13,426	8,774	88,000	128,600	3,700	0	26,900	3,000	1,700	0	30,400	4,200
1978	14,326	8,774	88,000	130,700	3,900	0	28,800	3,000	1,900	0	32,500	4,600
1979	15,126	8,774	88,000	132,700	4,000	0	30,700	3,000	2,000	0	34,600	4,900
1980	16,026	8,774	88,000	134,800	4,200	0	32,600	3,000	2,200	0	36,700	5,200
1981	17,226	8,774	88,000	137,000	4,300	0	34,500	3,000	2,300	0	38,800	5,600
1982	18,426	8,774	88,000	139,200	4,500	0	36,400	3,000	2,500	0	41,000	5,900
1983	19,626	8,774	88,000	141,400	4,600	0	38,300	3,000	2,800	0	42,900	6,200
1984	20,826	8,774	88,000	143,600	4,800	0	40,200	3,000	3,100	0	45,100	6,500
1985	22,026	8,774	88,000	145,800	4,900	0	42,100	3,000	3,400	0	47,200	6,900
1986	23,326	8,774	88,000	148,100	5,100	0	44,800	3,000	3,700	0	49,300	7,200
1987	24,526	8,774	88,000	150,300	5,200	0	47,500	3,000	4,000	0	51,400	7,500
1988	25,726	8,774	88,000	152,500	5,400	0	50,200	3,000	4,000	0	53,500	7,800
1989	26,926	8,774	90,000	156,700	5,600	0	52,900	3,000	4,000	0	55,600	8,200
1990	28,126	8,774	92,000	160,900	5,700	0	60,000	3,000	4,000	0	57,700	8,500
1991	29,626	8,774	94,000	165,200	5,700	0	60,000	3,000	4,000	0	57,700	8,500
1992	31,126	8,774	96,000	169,500	5,700	0	60,000	3,000	4,000	0	57,700	8,500
1993	32,626	8,774	98,000	173,800	5,700	0	60,000	3,000	4,000	0	57,700	8,500
1994	33,226	8,774	100,000	177,200	5,700	0	60,000	3,000	4,000	0	57,700	8,500
1995	33,226	8,774	100,000	178,000	5,700	0	60,000	3,000	4,000	0	57,700	8,500
1996	33,226	8,774	100,000	178,800	5,700	0	60,000	3,000	4,000	0	57,700	8,500
1997	33,226	8,774	100,000	179,600	5,700	0	60,000	3,000	4,000	0	57,700	8,500
1998	33,226	8,774	100,000	180,400	5,700	0	60,000	3,000	4,000	0	57,700	8,500
1999	33,226	8,774	100,000	181,200	5,700	0	60,000	3,000	4,000	0	57,700	8,500
2000	33,226	8,774	100,000	182,000	5,700	0	60,000	3,000	4,000	0	57,700	8,500
2001	33,226	8,774	100,000	182,800	5,700	0	60,000	3,000	4,000	0	57,700	8,500
2002	33,226	8,774	100,000	183,600	5,700	0	60,000	3,000	4,000	0	57,700	8,500
2003	33,226	8,774	100,000	184,400	5,700	0	60,000	3,000	4,000	0	57,700	8,500
2004	33,226	8,774	100,000	185,200	5,700	0	60,000	3,000	4,000	0	57,700	8,500
2005	33,226	8,774	100,000	186,000	5,700	0	60,000	3,000	4,000	0	57,700	8,500
2006	33,226	8,774	100,000	186,400	5,700	0	60,000	3,000	4,000	0	57,700	8,500
2007	33,226	8,774	100,000	186,800	5,700	0	60,000	3,000	4,000	0	57,700	8,500
2008	33,226	8,774	100,000	187,200	5,700	0	60,000	3,000	4,000	0	57,700	8,500
2009	33,226	8,774	100,000	187,600	5,700	0	60,000	3,000	4,000	0	57,700	8,500
2010 (C)	33,226	8,774	100,000	188,000	5,700	0	60,000	3,000	4,000	0	57,700	8,500

Calendar Year	CALIFORNIA AQUEDUCT (continued)											
	SOUTH SAN JOAQUIN DIVISION (continued)											
	Reach 8 D (continued)	Reach 9		Reach 10 A			Reach 11 B	Reach 12 D	Reach 12 E		Reach 13 B	
		TLBWS	KCWA (Ag.)	HWD	KCWA (M&I)	KCWA (Ag.)			HWD	KCWA (Ag.)	KCWA (Ag.)	KCWA (M&I)
(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	
1968	0	30,951	0	0	0	0	24,776	0	0	0	0	0
1969	0	24,489	0	0	0	0	64,682	0	0	0	0	0
1970	0	46,114	1,855	0	158	4,315	72,279	0	0	9,279	0	4,891
1971	34,920	58,356	0	0	9,973	0	63,773	0	0	28,056	0	0
1972	107,699	75,864	0	0	5,876	0	72,358	0	0	62,342	0	17,388
1973	21,387	54,583	0	0	22,948	0	67,544	0	0	13,082	0	9,297
1974	36,386	63,814	0	10,019	22,719	0	87,476	0	2,651	4,248	8,038	4,246
1975	42,040	54,100	0	13,900	59,639	0	88,426	0	0	10,140	8,000	4,088
1976	25,900	35,100	0	16,500	71,568	0	90,647	0	37,300	19,117	8,000	3,668
1977	27,900	46,800	0	7,200	103,083	0	97,156	0	40,800	24,104	8,000	4,600
1978	29,900	50,100	0	8,000	116,325	0	104,436	0	43,100	28,700	8,000	5,503
1979	31,900	53,300	0	8,800	129,301	0	111,476	0	45,400	33,400	8,000	6,470
1980	33,900	56,200	0	9,500	143,470	0	117,636	0	47,700	38,500	8,000	7,200
1981	35,900	59,300	0	10,200	159,360	0	124,045	0	50,200	44,400	8,000	8,500
1982	37,900	60,500	0	9,100	172,500	0	130,400	2,400	53,600	51,700	7,500	10,900
1983	39,900	61,700	0	8,000	192,500	0	135,600	2,400	56,000	59,100	7,000	13,300
1984	41,900	63,000	0	8,000	204,400	0	141,300	2,400	59,400	66,500	6,500	15,700
1985	43,900	64,200	0	5,800	221,300	0	145,400	2,400	62,900	73,900	6,000	18,000
1986	45,200	65,400	0	4,700	238,400	0	150,000	2,400	65,300	78,900	5,500	19,800
1987	46,400	66,700	0	3,500	259,400	0	153,300	2,400	68,800	83,900	5,000	21,600
1988	47,600	67,900	0	2,300	279,000	0	155,800	2,400	71,200	88,900	4,500	23,400
1989	48,800	69,100	0	1,100	287,300	0	156,800	2,400	73,500	93,900	4,000	25,200
1990(C)	50,000	70,350	0	0	298,660	0	157,800	2,400	77,000	98,840	3,600	26,900

TABLE B-5: ANNUAL QUANTITIES DELIVERED

(in acre-feet)

Sheet 3 of 10

Calendar Year	CALIFORNIA AQUEDUCT (continued)										
	SOUTH SAN JOAQUIN DIVISION (continued)							TEHACHAPI DIVISION	MOJAVE DIVISION		
	Reach 14 A		Reach 14 B	Reach 14 C	Reach 15 A	Reach 16 A		Reach 17 E	Reach 18 A	Reach 19	Reach 19 C
	KCWA (M&I)	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (M&I)	KCWA (Ag.)	KCWA (M&I)	AVEKWA	AVEKWA	AVEKWA
(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	
1970	0	0	3	0	0	0	0	0	0	0	0
1971	0	23,844	49,929	24,187	3,552	0	0	0	0	0	0
1972	0	26,621	77,034	35,016	6,064	0	4,768	0	0	0	0
1973	0	15,328	47,040	19,043	19,916	0	1,961	0	0	0	0
1974	0	7,794	32,356	12,601	18,000	3,000	1,564	0	0	1,223	0
1975	0	10,600	27,200	12,200	16,000	3,200	4,616	0	0	3,500	0
1976	0	10,600	27,000	12,100	15,700	3,500	4,200	0	2,000	7,000	1,000
1977	0	12,500	32,000	14,200	18,500	3,800	4,900	800	3,000	9,000	18,000
1978	0	13,900	35,300	15,800	20,400	4,100	9,200	900	3,000	9,000	26,000
1979	0	15,600	39,700	17,700	23,000	4,400	10,900	1,000	4,000	10,000	26,000
1980	0	17,600	44,600	19,900	25,800	4,800	12,200	1,100	4,000	10,000	28,000
1981	0	18,900	47,800	21,400	27,700	5,200	19,600	1,200	4,000	10,000	28,500
1982	2,300	21,800	51,900	22,600	31,400	5,700	21,700	1,300	4,000	10,000	29,000
1983	4,600	24,700	56,000	23,800	35,100	6,300	24,100	1,400	4,000	10,000	29,500
1984	7,000	27,600	60,100	25,000	38,900	7,200	32,200	1,500	4,000	10,000	30,000
1985	9,400	30,500	64,200	26,300	42,600	8,200	35,000	1,600	4,000	10,000	31,000
1986	11,800	32,500	68,300	27,500	45,100	9,400	41,100	1,700	4,000	10,200	32,800
1987	14,200	34,400	72,400	28,700	47,600	10,700	44,900	1,800	4,000	10,400	34,600
1988	16,600	36,300	76,500	29,900	50,100	12,300	47,400	1,900	4,000	10,600	36,400
1989	19,000	38,200	80,600	31,200	52,600	13,600	51,300	1,900	4,000	10,800	38,200
1990	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	4,000	11,000	40,000
1991	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	4,100	11,200	41,800
1992	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	4,200	11,400	43,600
1993	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	4,300	11,600	45,400
1994	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	4,400	11,800	47,200
1995	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	4,500	12,000	49,000
1996	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	4,600	12,200	50,800
1997	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	4,700	12,400	52,600
1998	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	4,800	12,600	54,400
1999	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	4,900	12,800	56,200
2000	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2001	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2002	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2003	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2004	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2005	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2006	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2007	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2008	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2009	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2010	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2011	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2012	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2013	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2014	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2015	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2016	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2017	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2018	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2019	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000
2020(C)	21,400	40,100	84,800	32,400	55,000	15,000	55,200	2,000	5,000	13,000	58,000

FROM EACH AQUEDUCT REACH TO EACH CONTRACTOR

(in acre-feet)

Sheet 4 of 10

Calendar Year	CALIFORNIA AQUEDUCT (continued)										
	MOJAVE DIVISION (continued)										
	Reach 20 A	Reach 20 B	Reach 21		Reach 22 A	Reach 22 B				Reach 23	Reach 24
	AVEKWA	PWD	LCID	AVEKWA	AVEKWA	MWD-SC(d)	CVCWD(d)	DWA(d)	MWA	MWA	CLAWA
(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	
1972	0	0	338	0	0	0	0	0	55	0	464
1973	0	0	290	0	0	14,800-	5,800	9,000	0	0	389
1974	0	0	400	0	0	16,400-	6,400	10,000	0	14	627
1975	1,000	0	520	0	0	18,000-	7,000	11,000	0	0	770
1976	2,000	100	640	0	1,400	19,600-	7,600	12,000	0	0	932
1977	10,900	300	730	2,020	3,650	21,421-	8,421	13,000	0	0	1,231
1978	12,500	600	920	2,150	4,300	23,242-	9,242	14,000	0	0	1,510
1979	13,050	1,000	1,040	5,200	4,350	25,063-	10,063	15,000	15,000	0	1,792
1980	13,600	1,500	1,150	8,300	4,400	27,884-	10,884	17,000	15,000	0	2,092
1981	15,150	2,100	1,270	8,350	4,500	31,105-	12,105	19,000	15,000	0	2,405
1982	17,700	3,675	1,380	8,400	4,600	34,326-	13,326	21,000	21,000	0	3,480
1983	20,100	5,250	1,500	8,489	4,700	37,547-	14,547	23,000	24,000	0	3,770
1984	22,850	6,825	1,610	8,578	4,800	40,768-	15,768	25,000	27,000	0	4,060
1985	25,000	8,400	1,730	8,667	4,900	43,989-	16,989	27,000	30,000	0	4,350
1986	26,000	10,180	1,840	8,756	5,000	47,210-	18,210	29,000	33,000	0	4,640
1987	27,000	11,960	1,960	8,844	5,200	50,931-	19,431	31,500	36,000	0	4,930
1988	28,000	13,740	2,070	8,933	5,400	54,652-	20,652	34,000	39,000	0	5,220
1989	29,000	15,520	2,190	9,022	5,600	58,373-	21,873	36,500	42,000	0	5,510
1990	30,000	17,300	2,300	9,111	5,800	61,200-	23,100	38,100	45,000	0	5,800
1991	31,000	17,300	2,300	9,200	6,000	61,200-	23,100	38,100	48,000	0	5,800
1992	32,000	17,300	2,300	9,289	6,200	61,200-	23,100	38,100	50,800	0	5,800
1993	33,000	17,300	2,300	9,378	6,300	61,200-	23,100	38,100	50,800	0	5,800
1994	34,000	17,300	2,300	9,467	6,400	61,200-	23,100	38,100	50,800	0	5,800
1995	35,000	17,300	2,300	9,555	6,500	61,200-	23,100	38,100	50,800	0	5,800
1996	36,000	17,300	2,300	9,644	6,600	61,200-	23,100	38,100	50,800	0	5,800
1997	37,000	17,300	2,300	9,733	6,700	61,200-	23,100	38,100	50,800	0	5,800
1998	38,000	17,300	2,300	9,822	6,800	61,200-	23,100	38,100	50,800	0	5,800
1999	39,000	17,300	2,300	9,911	6,900	61,200-	23,100	38,100	50,800	0	5,800
2000	40,000	17,300	2,300	10,000	7,000	61,200-	23,100	38,100	50,800	0	5,800
2001	40,000	17,300	2,300	10,000	7,000	61,200-	23,100	38,100	50,800	0	5,800
2002	40,000	17,300	2,300	10,000	7,000	61,200-	23,100	38,100	50,800	0	5,800
2003	40,000	17,300	2,300	10,000	7,000	61,200-	23,100	38,100	50,800	0	5,800
2004	40,000	17,300	2,300	10,000	7,000	61,200-	23,100	38,100	50,800	0	5,800
2005	40,000	17,300	2,300	10,000	7,000	61,200-	23,100	38,100	50,800	0	5,800
2006	40,000	17,300	2,300	10,000	7,000	61,200-	23,100	38,100	50,800	0	5,800
2007	40,000	17,300	2,300	10,000	7,000	61,200-	23,100	38,100	50,800	0	5,800
2008	40,000	17,300	2,300	10,000	7,000	61,200-	23,100	38,100	50,800	0	5,800
2009	40,000	17,300	2,300	10,000	7,000	61,200-	23,100	38,100	50,800	0	5,800
2010	40,000	17,300	2,300	10,000	7,000	61,200-	23,100	38,100	50,800	0	5,800
2011	40,000	17,300	2,300	10,000	7,000	0	23,100	38,100	50,800	0	5,800
2012	40,000	17,300	2,300	10,000	7,000	0	23,100	38,100	50,800	0	5,800
2013	40,000	17,300	2,300	10,000	7,000	0	23,100	38,100	50,800	0	5,800
2014	40,000	17,300	2,300	10,000	7,000	0	23,100	38,100	50,800	0	5,800
2015	40,000	17,300	2,300	10,000	7,000	0	23,100	38,100	50,800	0	5,800
2016	40,000	17,300	2,300	10,000	7,000	0	23,100	38,100	50,800	0	5,800
2017	40,000	17,300	2,300	10,000	7,000	0	23,100	38,100	50,800	0	5,800
2018	40,000	17,300	2,300	10,000	7,000	0	23,100	38,100	50,800	0	5,800
2019	40,000	17,300	2,300	10,000	7,000	0	23,100	38,100	50,800	0	5,800
2020(c)	40,000	17,300	2,300	10,000	7,000	0	23,100	38,100	50,800	0	5,800

d) In accordance with the Exchange Agreement between the noted agencies, Metropolitan Water District assumed responsibility for repayment of variable OMP&R costs on the exchange water in reaches beyond 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 52 provides for compliance with the repayment of the Agreement.

TABLE B-5: ANNUAL QUANTITIES DELIVERED

(in acre-feet)

Sheet 5 of 10

Calendar Year	CALIFORNIA AQUEDUCT (continued)							
	SANTA ANA DIVISION							
	Reach 26 A				Reach 28 G		Reach 28 H	Reach 28 J
	MWD-SC	SBVMWD	SGVMWD	SGPWA	MWD-SC	SBVMWD	MWD-SC	MWD-SC
(58)	(59)	(60)	(61)	(62)	(63)	(64)	(65)	
1972	0	1,275	0	0	0	0	0	0
1973	444	32,426	0	0	18,942	0	0	0
1974	84,979	16,605	612	0	0	0	0	0
1975	183,800	52,500	4,410	0	0	0	0	0
1976	303,900	55,000	6,340	0	0	0	20,600	0
1977	301,721	57,500	8,500	0	0	0	148,400	30,700
1978	280,621	60,000	10,500	0	0	0	157,100	142,800
1979	308,721	62,500	12,600	0	0	0	162,800	147,000
1980	299,321	65,500	14,700	6,800	0	0	168,100	151,100
1981	289,821	68,500	16,650	7,800	0	0	173,900	155,200
1982	293,041	71,500	16,938	8,800	0	0	169,750	171,575
1983	296,261	73,500	17,225	9,800	0	1,000	165,600	187,950
1984	267,980	76,500	17,512	10,800	0	1,500	161,450	204,325
1985	239,700	79,500	17,800	11,800	0	2,000	157,300	220,700
1986	239,700	82,000	18,060	12,900	0	3,000	152,300	225,700
1987	239,700	85,000	18,320	14,000	0	4,000	102,300	275,700
1988	239,700	87,000	18,580	15,100	0	6,000	77,300	300,700
1989	242,700	89,000	18,840	16,200	0	8,000	0	375,000
1990	242,700	91,000	19,100	17,300	0	10,500	0	375,000
1991	242,700	91,000	19,360	17,300	0	11,600	0	375,000
1992	242,700	91,000	19,620	17,300	0	11,600	0	375,000
1993	242,700	91,000	19,880	17,300	0	11,600	0	375,000
1994	242,700	91,000	20,140	17,300	0	11,600	0	375,000
1995	242,700	91,000	20,400	17,300	0	11,600	0	375,000
1996	242,700	91,000	20,660	17,300	0	11,600	0	375,000
1997	242,700	91,000	20,920	17,300	0	11,600	0	375,000
1998	242,700	91,000	21,180	17,300	0	11,600	0	375,000
1999	242,700	91,000	21,440	17,300	0	11,600	0	375,000
2000	242,700	91,000	21,700	17,300	0	11,600	0	375,000
2001	242,700	91,000	21,980	17,300	0	11,600	0	375,000
2002	242,700	91,000	22,260	17,300	0	11,600	0	375,000
2003	242,700	91,000	22,540	17,300	0	11,600	0	375,000
2004	242,700	91,000	22,820	17,300	0	11,600	0	375,000
2005	242,700	91,000	23,100	17,300	0	11,600	0	375,000
2006	242,700	91,000	23,400	17,300	0	11,600	0	375,000
2007	242,700	91,000	23,700	17,300	0	11,600	0	375,000
2008	242,700	91,000	24,000	17,300	0	11,600	0	375,000
2009	242,700	91,000	24,300	17,300	0	11,600	0	375,000
2010	242,700	91,000	24,600	17,300	0	11,600	0	375,000
2011	181,500	91,000	24,900	17,300	0	11,600	0	375,000
2012	181,500	91,000	25,200	17,300	0	11,600	0	375,000
2013	181,500	91,000	25,500	17,300	0	11,600	0	375,000
2014	181,500	91,000	25,800	17,300	0	11,600	0	375,000
2015	181,500	91,000	26,100	17,300	0	11,600	0	375,000
2016	181,500	91,000	26,500	17,300	0	11,600	0	375,000
2017	181,500	91,000	26,900	17,300	0	11,600	0	375,000
2018	181,500	91,000	27,300	17,300	0	11,600	0	375,000
2019	181,500	91,000	27,700	17,300	0	11,600	0	375,000
2020 (c)	181,500	91,000	28,800	17,300	0	11,600	0	375,000

FROM EACH AQUEDUCT REACH TO EACH CONTRACTOR

(in acre-feet)

Sheet 6 of 10

Calendar Year	CALIFORNIA AQUEDUCT (continued)										Total California Aqueduct
	WEST BRANCH, CALIFORNIA AQUEDUCT					COASTAL BRANCH, CALIFORNIA AQUEDUCT					
	Reach 29 F	Reach 30			Reach 31 A		Reach 33 A	Reach 34	Reach 35		
	AVEKWA	MWD-SC	VCFC	CLWA	KCWA (Ag.)	DDWD	SLOC FC&WCD	SLOC FC&WCD	SLOC FC&WCD	SBC FC&WCD	
(66)	(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	
1968	0	0	0	0	71,657	7,382	0	0	0	0	192,188
1969	0	0	0	0	52,094	9,970	0	0	0	0	195,705
1970	0	0	0	0	71,910	11,739	0	0	0	0	276,211
1971	0	0	0	0	98,481	12,490	0	0	0	0	553,081
1972	53	71,938	0	0	107,850	13,905	0	0	0	0	895,006
1973	20	155,297	0	0	69,227	9,418	0	0	0	0	638,930
1974	36	305,100	0	0	68,474	10,700	0	0	0	0	785,982
1975	50	389,400	0	0	73,391	10,700	0	0	0	0	1,162,100
1976	50	350,700	0	0	77,800	11,700	0	0	0	0	1,287,262
1977	50	296,500	0	0	65,157	12,700	0	0	0	0	1,486,302
1978	50	299,021	0	0	70,536	12,700	0	0	0	0	1,661,672
1979	50	305,100	0	2,850	75,453	12,700	0	0	0	0	1,790,753
1980	150	309,700	1,000	4,000	80,294	12,700	0	0	0	0	1,873,413
1981	250	314,000	2,000	6,050	85,595	12,700	0	0	0	0	1,953,946
1982	611	354,575	3,000	8,088	88,000	12,700	800	400	800	0	2,092,313
1983	1,082	395,150	4,000	10,125	95,474	12,700	1,200	600	1,200	0	2,231,502
1984	1,200	435,725	5,000	12,162	95,000	12,700	1,798	906	1,796	0	2,336,277
1985	1,425	476,300	6,000	14,200	97,300	12,700	1,946	973	1,946	17,300	2,456,037
1986	1,797	529,500	8,000	15,900	100,400	12,700	2,228	1,113	2,228	23,100	2,593,142
1987	2,069	583,300	10,000	17,600	104,200	12,700	2,509	1,255	2,509	25,371	2,729,727
1988	2,341	635,150	13,000	19,300	108,200	12,700	2,791	1,395	2,791	27,224	2,859,285
1989	2,612	751,700	16,000	21,000	110,600	12,700	3,072	1,537	3,072	29,017	3,042,692
1990	2,884	933,500	20,000	22,700	111,950	12,700	3,354	1,677	3,354	31,135	3,299,515
1991	3,055	970,900	20,000	23,440	111,950	12,700	3,762	1,880	3,762	32,780	3,348,239
1992	3,227	1,008,300	20,000	24,180	111,950	12,700	4,169	2,085	4,169	34,275	3,499,430
1993	3,498	1,045,700	20,000	24,920	111,950	12,700	4,577	2,288	4,577	35,760	3,439,978
1994	3,770	1,083,100	20,000	25,660	111,950	12,700	4,984	2,493	4,984	37,295	3,484,493
1995	4,042	1,120,500	20,000	26,400	111,950	12,700	5,392	2,696	5,392	38,850	3,529,027
1996	4,314	1,148,500	20,000	27,140	111,950	12,700	5,796	2,899	5,796	40,480	3,564,229
1997	4,585	1,176,500	20,000	27,880	111,950	12,700	6,201	3,100	6,201	42,110	3,599,514
1998	4,857	1,204,500	20,000	28,620	111,950	12,700	6,606	3,301	6,606	43,740	3,634,632
1999	5,129	1,232,500	20,000	29,360	111,950	12,700	7,010	3,504	7,010	45,370	3,669,834
2000	5,400	1,260,500	20,000	30,100	111,950	12,700	7,414	3,707	7,414	47,000	3,705,027
2001	5,400	1,287,500	20,000	31,280	111,950	12,700	7,931	3,965	7,931	49,140	3,736,927
2002	5,400	1,314,500	20,000	32,460	111,950	12,700	8,448	4,223	8,448	51,280	3,768,819
2003	5,400	1,341,500	20,000	33,640	111,950	12,700	8,965	4,481	8,965	53,420	3,800,711
2004	5,400	1,368,500	20,000	34,820	111,950	12,700	9,482	4,739	9,482	55,560	3,832,603
2005	5,400	1,395,500	20,000	36,000	111,950	12,700	10,000	5,000	10,000	57,700	3,864,500
2006	5,400	1,407,400	20,000	37,100	111,950	12,700	10,000	5,000	10,000	57,700	3,877,800
2007	5,400	1,419,300	20,000	38,200	111,950	12,700	10,000	5,000	10,000	57,700	3,891,100
2008	5,400	1,431,200	20,000	39,300	111,950	12,700	10,000	5,000	10,000	57,700	3,904,400
2009	5,400	1,443,100	20,000	40,400	111,950	12,700	10,000	5,000	10,000	57,700	3,917,700
2010	5,400	1,455,000	20,000	41,500	111,950	12,700	10,000	5,000	10,000	57,700	3,931,000
2011	5,400	1,455,000	20,000	41,500	111,950	12,700	10,000	5,000	10,000	57,700	3,931,000
2012	5,400	1,455,000	20,000	41,500	111,950	12,700	10,000	5,000	10,000	57,700	3,931,000
2013	5,400	1,455,000	20,000	41,500	111,950	12,700	10,000	5,000	10,000	57,700	3,931,000
2014	5,400	1,455,000	20,000	41,500	111,950	12,700	10,000	5,000	10,000	57,700	3,932,000
2015	5,400	1,455,000	20,000	41,500	111,950	12,700	10,000	5,000	10,000	57,700	3,932,000
2016	5,400	1,455,000	20,000	41,500	111,950	12,700	10,000	5,000	10,000	57,700	3,932,000
2017	5,400	1,455,000	20,000	41,500	111,950	12,700	10,000	5,000	10,000	57,700	3,933,000
2018	5,400	1,455,000	20,000	41,500	111,950	12,700	10,000	5,000	10,000	57,700	3,933,000
2019	5,400	1,455,000	20,000	41,500	111,950	12,700	10,000	5,000	10,000	57,700	3,934,000
2020 (c)	5,400	1,455,000	20,000	41,500	111,950	12,700	10,000	5,000	10,000	57,700	3,933,000

TABLE B-5: ANNUAL QUANTITIES DELIVERED

SUM

(in acre-feet)

Sheet 7 of 10

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 Valley Water District	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(77)	(78)	(79)	(80)	(81)	(82)	(83)	(84)	(85)	(86)
1962	0	0	0	494	8,412	0	8,906	0	0	0
1963	0	0	0	1,731	10,914	0	12,645	0	0	0
1964	0	0	0	1,673	19,238	0	20,911	0	0	0
1965	0	0	0	2,605	16,407	15,014	34,026	0	0	0
1966	0	0	0	5,511	14,864	34,538	54,913	0	0	0
1967	0	0	0	4,780	12,882	39,101	56,763	0	0	0
1968	1,214	0	1,214	6,133	24,817	70,105	101,055	0	0	0
1969	2,687	0	2,687	6,635	813	62,264	69,712	0	0	0
1970	3,618	0	3,618	9,249	0	80,311	89,560	0	0	0
1971	2,521	0	2,521	5,017	5,961	87,606	98,584	0	0	0
1972	3,647	0	3,647	10,489	27,671	100,266	138,426	0	0	0
1973	3,792	0	3,792	2,975	2,521	88,582	94,078	0	0	0
1974	4,870	0	4,870	1,314	4	88,000	89,318	0	0	0
1975	4,960	0	4,960	16,000	20,500	88,000	124,500	0	0	0
1976	2,700	0	2,700	17,200	21,300	88,000	126,500	0	0	0
1977	2,730	0	2,730	18,400	22,200	88,000	128,600	0	0	0
1978	2,765	0	2,765	19,600	23,100	88,000	130,700	0	0	0
1979	2,810	0	2,810	20,800	23,900	88,000	132,700	0	0	0
1980	2,875	6,750	9,625	22,000	24,800	88,000	134,800	0	0	0
1981	2,925	8,000	10,925	23,000	26,000	88,000	137,000	0	0	0
1982	2,975	9,400	12,375	24,000	27,200	88,000	139,200	2,000	0	2,000
1983	2,940	10,330	13,270	25,000	28,400	88,000	141,400	3,000	0	3,000
1984	3,020	11,160	14,180	26,000	29,600	88,000	143,600	4,500	0	4,500
1985	3,100	12,870	15,970	27,000	30,800	88,000	145,800	4,865	17,300	22,165
1986	3,200	15,240	18,440	28,000	32,100	88,000	148,100	5,569	23,100	28,669
1987	3,300	18,320	21,620	29,000	33,300	88,000	150,300	6,273	25,371	31,644
1988	3,400	24,900	28,300	30,000	34,500	88,000	152,500	6,977	27,224	34,201
1989	3,500	31,350	34,850	31,000	35,700	90,000	156,700	7,681	29,017	36,698
1990	3,600	37,800	41,400	32,000	36,900	92,000	160,900	8,385	31,135	39,520
1991	3,720	37,800	41,520	32,800	38,400	94,000	165,200	9,404	32,780	42,184
1992	3,840	37,800	41,640	33,600	39,900	96,000	169,500	10,423	34,275	44,698
1993	3,980	37,800	41,780	34,400	41,400	98,000	173,800	11,442	35,760	47,202
1994	4,100	37,800	41,900	35,200	42,000	100,000	177,200	12,461	37,295	49,756
1995	4,200	37,800	42,000	36,000	42,000	100,000	178,000	13,480	38,850	52,330
1996	4,360	37,800	42,160	36,800	42,000	100,000	178,800	14,491	40,480	54,971
1997	4,520	37,800	42,320	37,600	42,000	100,000	179,600	15,502	42,110	57,612
1998	4,680	37,800	42,480	38,400	42,000	100,000	180,400	16,513	43,740	60,253
1999	4,840	37,800	42,640	39,200	42,000	100,000	181,200	17,524	45,370	62,894
2000	5,000	37,800	42,800	40,000	42,000	100,000	182,000	18,535	47,000	65,535
2001	5,300	37,800	43,100	40,800	42,000	100,000	182,800	19,827	49,140	68,967
2002	5,600	37,800	43,400	41,600	42,000	100,000	183,600	21,119	51,280	72,399
2003	5,900	37,800	43,700	42,400	42,000	100,000	184,400	22,411	53,420	75,831
2004	6,200	37,800	44,000	43,200	42,000	100,000	185,200	23,703	55,560	79,263
2005	6,500	37,800	44,300	44,000	42,000	100,000	186,000	25,000	57,700	82,700
2006	6,800	37,800	44,600	44,400	42,000	100,000	186,400	25,000	57,700	82,700
2007	7,100	37,800	44,900	44,800	42,000	100,000	186,800	25,000	57,700	82,700
2008	7,400	37,800	45,200	45,200	42,000	100,000	187,200	25,000	57,700	82,700
2009	7,700	37,800	45,500	45,600	42,000	100,000	187,600	25,000	57,700	82,700
2010	8,000	37,800	45,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2011	8,400	37,800	46,200	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2012	8,800	37,800	46,600	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2013	9,200	37,800	47,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2014	9,600	37,800	47,400	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2015	10,000	37,800	47,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2016	10,400	37,800	48,200	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2017	10,800	37,800	48,600	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2018	11,200	37,800	49,000	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2019	11,600	37,800	49,400	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2020	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2021	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2022	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2023	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2024	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2025	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2026	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2027	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2028	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2029	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2030	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2031	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2032	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2033	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2034	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
2035	25,000	37,800	62,800	46,000	42,000	100,000	188,000	25,000	57,700	82,700
TOTAL	672,889	1,887,120	2,560,009	2,399,606	2,478,504	6,567,787	11,445,897	1,051,085	2,548,907	3,599,992

e) Summary of annual water deliveries by contractor in Columns 1-75.

FROM EACH AQUEDUCT REACH TO EACH CONTRACTOR

MARY (e

(in acre-feet)

Sheet 8 of 10

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		County of Kings	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					M & I	Ag.				
	(87)	(88)	(89)	(90)	(91)	(92)	(93)	(94)	(95)	(96)
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	7,382	26,360	1,978	0	0	127,384	900	3,084	25,100	192,188
1969	9,970	31,375	56	2,842	0	141,265	100	3,016	7,081	195,705
1970	11,739	40,407	3,942	9,578	0	204,634	0	5,911	0	276,211
1971	12,490	41,053	5,990	6,659	0	360,151	3,700	7,212	115,826	553,081
1972	13,905	42,443	5,795	5,851	0	490,781	1,400	8,166	252,542	820,883
1973	9,418	22,057	3,000	2,900	0	341,469	1,500	3,214	47,564	431,122
1974	9,700	33,390	3,000	3,300	23,708	323,292	1,500	3,471	68,989	470,350
1975	10,700	35,850	3,000	3,600	25,100	360,400	1,600	3,400	82,500	526,150
1976	11,700	28,300	3,000	3,900	65,300	367,500	1,600	3,500	50,800	535,600
1977	12,700	30,400	3,000	4,200	60,600	423,000	1,700	3,700	54,800	594,100
1978	12,700	32,500	3,000	4,600	64,100	470,200	1,900	3,900	58,700	651,600
1979	12,700	34,600	3,000	4,900	67,600	516,300	2,000	4,000	62,600	707,700
1980	12,700	36,700	3,000	5,200	71,100	563,400	2,200	4,200	66,500	765,000
1981	12,700	38,800	3,000	5,600	74,800	616,600	2,300	4,300	70,400	828,500
1982	12,700	41,000	3,000	5,900	79,500	665,800	2,500	4,500	74,300	889,200
1983	12,700	42,900	3,000	6,200	83,300	721,800	2,800	4,600	78,200	955,500
1984	12,700	45,100	3,000	6,500	88,500	772,100	3,100	4,800	82,100	1,017,900
1985	12,700	47,200	3,000	6,900	93,900	821,100	3,400	4,900	86,000	1,079,100
1986	12,700	49,300	3,000	7,200	98,400	869,800	3,700	5,100	90,000	1,139,200
1987	12,700	51,400	3,000	7,500	104,000	919,500	4,000	5,200	93,900	1,201,200
1988	12,700	53,500	3,000	7,800	108,800	965,800	4,000	5,400	97,800	1,258,800
1989	12,700	55,600	3,000	8,200	113,100	999,200	4,000	5,600	101,700	1,303,100
1990	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
1991	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
1992	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
1993	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
1994	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
1995	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
1996	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
1997	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
1998	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
1999	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2000	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2001	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2002	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2003	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2004	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2005	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2006	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2007	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2008	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2009	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2010	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2011	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2012	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2013	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2014	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2015	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2016	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2017	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2018	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2019	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2020	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2021	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2022	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2023	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2024	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2025	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2026	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2027	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2028	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2029	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2030	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2031	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2032	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2033	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2034	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
2035	12,700	57,700	3,000	8,500	119,000	1,034,400	4,000	5,700	110,000	1,355,000
TOTAL	846,304	3,514,435	206,761	510,330	6,695,808	59,623,876	233,900	363,374	6,727,402	78,722,190

TABLE B-5: ANNUAL QUANTITIES DELIVERED

SUM

(in acre-feet)

Sheet 9 of 10

Calendar Year	SOUTHERN CALIFORNIA AREA									
	Antelope Valley-East Kern Water Agency	Castaic Lake Water Agency	Coachella Valley County Water District	Crestline Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Water District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District
	(97)	(98)	(99)	(100)	(101)	(102)	(103)	(104)	(105)	(106)
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	53	0	0	464	0	338	55	0	1,275	0
1973	20	0	5,800	389	9,000	290	0	0	32,426	0
1974	1,259	0	6,400	627	10,000	400	14	0	16,605	612
1975	4,550	0	7,000	770	11,000	520	0	0	52,500	4,410
1976	13,450	0	7,600	932	12,000	640	0	100	55,000	6,340
1977	46,620	0	8,421	1,231	13,000	730	0	300	57,500	8,500
1978	57,000	0	9,242	1,510	14,000	920	0	600	60,000	10,500
1979	62,650	2,850	10,063	1,792	15,000	1,040	15,000	1,000	62,500	12,600
1980	68,450	4,000	10,884	2,092	17,000	1,150	15,000	1,500	65,500	14,700
1981	70,750	6,050	12,105	2,405	19,000	1,270	15,000	2,100	68,500	16,650
1982	74,311	8,088	13,326	3,480	21,000	1,380	21,000	3,675	71,500	16,938
1983	77,871	10,125	14,547	3,770	23,000	1,500	24,000	5,250	74,500	17,225
1984	81,428	12,162	15,768	4,060	25,000	1,610	27,000	6,825	78,000	17,512
1985	84,992	14,200	16,989	4,350	27,000	1,730	30,000	8,400	81,500	17,800
1986	88,553	15,900	18,210	4,640	29,000	1,840	33,000	10,180	85,000	18,060
1987	92,113	17,600	19,431	4,930	31,500	1,960	36,000	11,960	89,000	18,320
1988	95,674	19,300	20,652	5,220	34,000	2,070	39,000	13,740	93,000	18,580
1989	99,234	21,000	21,873	5,510	36,500	2,190	42,000	15,520	97,000	18,840
1990	102,795	22,700	23,100	5,800	38,100	2,300	45,000	17,300	101,500	19,100
1991	106,355	23,440	23,100	5,800	38,100	2,300	48,000	17,300	102,600	19,360
1992	109,916	24,180	23,100	5,800	38,100	2,300	50,800	17,300	102,600	19,620
1993	113,476	24,920	23,100	5,800	38,100	2,300	50,800	17,300	102,600	19,880
1994	117,037	25,660	23,100	5,800	38,100	2,300	50,800	17,300	102,600	20,140
1995	120,597	26,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	20,400
1996	124,158	27,140	23,100	5,800	38,100	2,300	50,800	17,300	102,600	20,660
1997	127,718	27,880	23,100	5,800	38,100	2,300	50,800	17,300	102,600	20,920
1998	131,279	28,620	23,100	5,800	38,100	2,300	50,800	17,300	102,600	21,180
1999	134,840	29,360	23,100	5,800	38,100	2,300	50,800	17,300	102,600	21,440
2000	138,400	30,100	23,100	5,800	38,100	2,300	50,800	17,300	102,600	21,700
2001	138,400	31,280	23,100	5,800	38,100	2,300	50,800	17,300	102,600	21,980
2002	138,400	32,460	23,100	5,800	38,100	2,300	50,800	17,300	102,600	22,260
2003	138,400	33,640	23,100	5,800	38,100	2,300	50,800	17,300	102,600	22,540
2004	138,400	34,820	23,100	5,800	38,100	2,300	50,800	17,300	102,600	22,820
2005	138,400	36,000	23,100	5,800	38,100	2,300	50,800	17,300	102,600	23,100
2006	138,400	37,100	23,100	5,800	38,100	2,300	50,800	17,300	102,600	23,400
2007	138,400	38,200	23,100	5,800	38,100	2,300	50,800	17,300	102,600	23,700
2008	138,400	39,300	23,100	5,800	38,100	2,300	50,800	17,300	102,600	24,000
2009	138,400	40,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	24,300
2010	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	24,600
2011	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	24,900
2012	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	25,200
2013	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	25,500
2014	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	25,800
2015	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	26,100
2016	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	26,500
2017	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	26,900
2018	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	27,300
2019	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	27,700
2020	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2021	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2022	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2023	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2024	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2025	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2026	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2027	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2028	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2029	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2030	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2031	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2032	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2033	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2034	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
2035	138,400	41,500	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,000
TOTAL	7,189,549	1,823,875	1,280,911	314,972	2,099,600	127,378	2,625,269	876,950	5,859,806	1,371,387

e) Summary of annual water deliveries by contractor in Columns 1-75.

FROM EACH AQUEDUCT REACH TO EACH CONTRACTOR

MARY (e

(in acre-feet)

Sheet 10 of 10

Calendar Year	SOUTHERN CALIFORNIA AREA (continued)				FEATHER RIVER AREA				TOTAL STATE WATER PROJECT
	San Geronio Pass Water Agency	The Metropolitan Water District of Southern California	Ventura County Flood Control District	Total	City of Yuba City	County of Butte	Plumas County FC & WCD	Total	
	(107)	(108)	(109)	(110)	(111)	(112)	(113)	(114)	(115)
1962	0	0	0	0	0	0	0	0	8,906
1963	0	0	0	0	0	0	0	0	12,645
1964	0	0	0	0	0	0	0	0	20,911
1965	0	0	0	0	0	0	0	0	34,026
1966	0	0	0	0	0	0	0	0	54,913
1967	0	0	0	0	0	0	0	0	56,763
1968	0	0	0	0	0	0	0	0	294,457
1969	0	0	0	0	0	0	0	0	268,104
1970	0	0	0	0	0	0	70	70	369,459
1971	0	0	0	0	0	192	64	256	654,442
1972	0	71,938	0	74,123	0	186	505	691	1,037,770
1973	0	159,883	0	207,808	0	53	679	732	737,532
1974	0	277,715	0	313,632	0	127	648	775	878,945
1975	0	555,200	0	635,950	0	800	560	1,360	1,292,920
1976	0	655,600	0	751,662	0	900	590	1,490	1,417,952
1977	0	755,900	0	892,202	0	1,050	620	1,670	1,619,302
1978	0	856,300	0	1,010,072	0	1,200	650	1,850	1,796,987
1979	0	898,558	0	1,083,053	0	1,350	680	2,030	1,928,945
1980	6,800	900,337	1,000	1,108,413	0	4,000	710	4,710	2,022,548
1981	7,800	901,816	2,000	1,125,446	4,200	5,450	740	10,390	2,112,261
1982	8,800	954,615	3,000	1,201,113	4,600	6,900	770	12,270	2,256,158
1983	9,800	1,007,414	4,000	1,273,002	5,050	8,350	800	14,200	2,400,372
1984	10,800	1,028,712	5,000	1,313,877	5,500	9,800	830	16,130	2,510,187
1985	11,800	1,050,011	6,000	1,354,772	5,950	12,250	860	19,060	2,636,867
1986	12,900	1,099,990	8,000	1,425,273	6,600	14,700	890	22,190	2,781,872
1987	14,000	1,150,069	10,000	1,496,883	7,300	17,150	920	25,370	2,927,017
1988	15,100	1,196,948	13,000	1,566,284	8,000	20,600	960	29,560	3,069,645
1989	16,200	1,311,027	16,000	1,702,894	8,800	24,050	1,000	33,850	3,268,092
1990	17,300	1,490,000	20,000	1,904,995	9,600	27,500	1,040	38,140	3,539,955
1991	17,300	1,527,400	20,000	1,951,055	9,600	27,500	1,080	38,180	3,593,139
1992	17,300	1,564,800	20,000	1,995,816	9,600	27,500	1,120	38,220	3,644,874
1993	17,300	1,602,200	20,000	2,037,776	9,600	27,500	1,160	38,260	3,693,818
1994	17,300	1,639,600	20,000	2,079,737	9,600	27,500	1,200	38,300	3,741,893
1995	17,300	1,677,000	20,000	2,121,697	9,600	27,500	1,250	38,350	3,787,377
1996	17,300	1,705,000	20,000	2,154,258	9,600	27,500	1,300	38,400	3,823,589
1997	17,300	1,733,000	20,000	2,186,818	9,600	27,500	1,350	38,450	3,859,800
1998	17,300	1,761,000	20,000	2,219,379	9,600	27,500	1,400	38,500	3,896,012
1999	17,300	1,789,000	20,000	2,251,940	9,600	27,500	1,450	38,550	3,932,224
2000	17,300	1,817,000	20,000	2,284,500	9,600	27,500	1,510	38,610	3,968,445
2001	17,300	1,844,000	20,000	2,312,960	9,600	27,500	1,570	38,670	4,001,497
2002	17,300	1,871,000	20,000	2,341,420	9,600	27,500	1,630	38,730	4,034,549
2003	17,300	1,898,000	20,000	2,369,880	9,600	27,500	1,690	38,790	4,067,601
2004	17,300	1,925,000	20,000	2,398,340	9,600	27,500	1,750	38,850	4,100,653
2005	17,300	1,952,000	20,000	2,426,800	9,600	27,500	1,810	38,910	4,133,710
2006	17,300	1,963,900	20,000	2,440,100	9,600	27,500	1,880	38,980	4,147,780
2007	17,300	1,975,800	20,000	2,453,400	9,600	27,500	1,950	39,050	4,161,850
2008	17,300	1,987,700	20,000	2,466,700	9,600	27,500	2,020	39,120	4,175,920
2009	17,300	1,999,600	20,000	2,480,000	9,600	27,500	2,090	39,190	4,189,990
2010	17,300	2,011,500	20,000	2,493,300	9,600	27,500	2,160	39,260	4,204,060
2011	17,300	2,011,500	20,000	2,493,600	9,600	27,500	2,240	39,340	4,204,840
2012	17,300	2,011,500	20,000	2,493,900	9,600	27,500	2,320	39,420	4,205,620
2013	17,300	2,011,500	20,000	2,494,200	9,600	27,500	2,410	39,510	4,206,410
2014	17,300	2,011,500	20,000	2,494,500	9,600	27,500	2,500	39,600	4,207,200
2015	17,300	2,011,500	20,000	2,494,800	9,600	27,500	2,600	39,700	4,208,000
2016	17,300	2,011,500	20,000	2,495,200	9,600	27,500	2,700	39,800	4,208,900
2017	17,300	2,011,500	20,000	2,495,600	9,600	27,500	2,700	39,800	4,209,700
2018	17,300	2,011,500	20,000	2,496,000	9,600	27,500	2,700	39,800	4,210,500
2019	17,300	2,011,500	20,000	2,496,400	9,600	27,500	2,700	39,800	4,211,300
2020	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2021	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2022	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2023	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2024	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2025	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2026	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2027	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2028	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2029	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2030	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2031	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2032	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2033	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2034	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
2035	17,300	2,011,500	20,000	2,497,500	9,600	27,500	2,700	39,800	4,225,800
TOTAL	909,800	102,854,033	988,000	128,321,530	497,600	1,394,108	112,026	2,003,734	226,653,352

TABLE B-6: ANNUAL QUANTITIES CONVEYED THRU EACH PUMPING

(in acre-feet)

Sheet 1 of 8

Calendar Year	NORTH BAY AQUEDUCT							SOUTH BAY AQUEDUCT					
	CALHOUN AND TRAVIS PUMPING PLANTS			CORDELIA PUMPING PLANT				SOUTH BAY PUMPING PLANT					
	Operational Losses	Water Supply Delivery	Total	Initial Fill Water	Operational Losses	Water Supply Delivery (a)	Total	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		Total
											Water Supply	Recreation	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1962	0	0	0	0	0	0	0	9	272	0	8,906	0	9,187
1963	0	0	0	0	0	0	0	71	185	0	12,645	0	12,901
1964	0	0	0	0	0	0	0	171	152	0	20,911	0	21,234
1965	0	0	0	0	0	0	0	93	729	0	34,026	0	34,848
1966	0	0	0	0	0	0	0	0	1,746	0	54,913	0	56,659
1967	0	0	0	0	0	0	0	0	1,677	0	56,763	0	58,440
1968	0	0	0	24	-10	1,214	1,228	0	1,847	0	101,055	0	102,902
1969	0	0	0	0	2	2,687	2,689	3,449	2,668	-15,953	69,712	0	59,876
1970	0	0	0	0	18	3,618	3,636	16,279	1,086	-5,355	89,560	0	101,570
1971	0	0	0	0	4	2,521	2,525	0	1,815	8,854	98,584	0	109,253
1972	0	0	0	0	-10	3,647	3,637	0	3,557	2,273	138,426	0	144,256
1973	0	0	0	0	1	3,792	3,793	0	-33	-1,510	94,078	0	92,535
1974	0	0	0	0	10	4,870	4,880	0	1,287	-10,056	89,318	0	80,549
1975	0	0	0	0	0	4,960	4,960	0	4,154	0	124,500	150	128,804
1976	0	0	0	0	0	2,700	2,700	0	4,154	0	126,500	180	130,834
1977	0	0	0	0	0	2,730	2,730	0	4,154	0	128,600	210	132,964
1978	0	0	0	0	0	2,765	2,765	0	4,154	0	130,700	240	135,094
1979	0	0	0	0	0	2,810	2,810	0	4,154	0	132,700	260	137,114
1980	1,400	9,625	11,025	0	0	2,875	2,875	0	4,154	0	134,800	280	139,234
1981	1,400	10,925	12,325	0	0	2,925	2,925	0	4,154	0	137,000	290	141,444
1982	1,400	12,375	13,775	0	0	2,975	2,975	0	4,155	0	139,200	300	143,655
1983	1,400	13,270	14,670	0	0	2,940	2,940	0	4,156	0	141,400	320	145,876
1984	1,400	14,180	15,580	0	0	3,020	3,020	0	4,157	0	143,600	330	148,087
1985	1,400	15,970	17,370	0	0	3,100	3,100	0	4,158	0	145,800	350	150,308
1986	1,400	18,440	19,840	0	0	3,200	3,200	0	4,156	0	148,100	360	152,616
1987	1,400	21,620	23,020	0	0	3,300	3,300	0	4,143	0	150,300	380	154,823
1988	1,400	28,300	29,700	0	0	3,400	3,400	0	4,123	0	152,500	400	157,023
1989	1,400	34,850	36,250	0	0	3,500	3,500	0	4,096	0	156,700	410	161,206
1990	1,400	41,400	42,800	0	0	3,600	3,600	0	4,055	0	160,900	425	165,380
1991	1,400	41,520	42,920	0	0	3,720	3,720	0	4,017	0	165,200	425	169,642
1992	1,400	41,640	43,040	0	0	3,840	3,840	0	3,980	0	169,500	425	173,905
1993	1,400	41,780	43,180	0	0	3,980	3,980	0	3,929	0	173,800	425	178,154
1994	1,400	41,900	43,300	0	0	4,100	4,100	0	3,977	0	177,200	425	181,602
1995	1,400	42,000	43,400	0	0	4,200	4,200	0	3,969	0	178,000	425	182,394
1996	1,400	42,160	43,560	0	0	4,360	4,360	0	3,961	0	178,800	425	183,186
1997	1,400	42,320	43,720	0	0	4,520	4,520	0	3,951	0	179,600	425	183,976
1998	1,400	42,480	43,880	0	0	4,680	4,680	0	3,940	0	180,400	425	184,765
1999	1,400	42,640	44,040	0	0	4,840	4,840	0	3,923	0	181,200	425	185,548
2000	1,400	42,800	44,200	0	0	5,000	5,000	0	3,916	0	182,000	425	186,341
2001	1,400	43,100	44,500	0	0	5,300	5,300	0	3,902	0	182,800	425	187,127
2002	1,400	43,400	44,800	0	0	5,600	5,600	0	3,897	0	183,600	425	187,922
2003	1,400	43,700	45,100	0	0	5,900	5,900	0	3,881	0	184,400	425	188,706
2004	1,400	44,000	45,400	0	0	6,200	6,200	0	3,876	0	185,200	425	189,501
2005	1,400	44,300	45,700	0	0	6,500	6,500	0	3,855	0	186,000	425	190,280
2006	1,400	44,600	46,000	0	0	6,800	6,800	0	3,856	0	186,400	425	190,681
2007	1,400	44,900	46,300	0	0	7,100	7,100	0	3,852	0	186,800	425	191,077
2008	1,400	45,200	46,600	0	0	7,400	7,400	0	3,848	0	187,200	425	191,473
2009	1,400	45,500	46,900	0	0	7,700	7,700	0	3,844	0	187,600	425	191,869
2010	1,400	45,800	47,200	0	0	8,000	8,000	0	3,834	0	188,000	425	192,259
2011	1,400	46,200	47,600	0	0	8,400	8,400	0	3,840	0	188,000	425	192,265
2012	1,400	46,600	48,000	0	0	8,800	8,800	0	3,840	0	188,000	425	192,265
2013	1,400	47,000	48,400	0	0	9,200	9,200	0	3,840	0	188,000	425	192,265
2014	1,400	47,400	48,800	0	0	9,600	9,600	0	3,840	0	188,000	425	192,265
2015	1,400	47,800	49,200	0	0	10,000	10,000	0	3,840	0	188,000	425	192,265
2016	1,400	48,200	49,600	0	0	10,400	10,400	0	3,840	0	188,000	425	192,265
2017	1,400	48,600	50,000	0	0	10,800	10,800	0	3,840	0	188,000	425	192,265
2018	1,400	49,000	50,400	0	0	11,200	11,200	0	3,840	0	188,000	425	192,265
2019	1,400	49,400	50,800	0	0	11,600	11,600	0	3,840	0	188,000	425	192,265
2020(b)	1,400	62,800	64,200	0	0	25,000	25,000	0	3,840	0	188,000	425	192,265

Note: "Reservoir Storage Changes" include projected net annual storage accretions (positive values) and withdrawals (negative values) for all down-aqueduct reservoirs of the project transportation facilities. Those variable OMP&R costs (Table B-12) that are allocable to storage accretions are assigned to the minimum OMP&R costs of the respective reservoirs.

"Water Supply Delivery" or "Deliveries, Water Supply", include certain hypothetical quantities to facilitate cost allocations for those years when deliveries are made from net annual storage withdrawals. The net annual amounts of storage withdrawals are hypothetically added to the actual amounts conveyed from the Delta to the reservoirs -- since deliveries made from storage withdrawals bear the same variable OMP&R costs per acre-foot as if the deliveries were actually conveyed, that year, from the Delta. The hypothetical increases in the amounts conveyed are compensated for by proportionate hypothetical increases in the actual variable OMP&R costs (Table B-3) of the up-aqueduct plants. The hypothetical increases in variable OMP&R costs for deliveries made from reservoir storage withdrawals are offset by equal credits to the minimum OMP&R costs of the respective reservoirs. Thus, the variable OMP&R components per acre-foot (Table B-17) may be applied to the total annual quantities delivered either from aqueduct reservoir storage or from the Delta.

"Conservation Water" includes the initial fill water, operational losses, and net annual storage changes associated with San Luis Reservoir (and the portion of the aqueduct that is allocated to conservation). The same allocation procedure outlined above for transportation facilities applies also to conservation facilities -- except that the hypothetical cost increases are added to the variable OMP&R costs to be reimbursed through the Transportation Charge, and deducted from the minimum OMP&R costs to be reimbursed through the Delta Water Charge.

a) Between 1968 and 1979, inclusive, annual quantities delivered are from nonproject water pumped through an interim facility.

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

AND POWER RECOVERY PLANT OF PROJECT TRANSPORTATION FACILITIES

(in acre-feet)

Sheet 2 of 8

Calendar Year	CALIFORNIA AQUEDUCT														
	NORTH SAN JOAQUIN DIVISION							SAN LUIS DIVISION							
	DELTA PUMPING PLANT							DOS AMIGOS PUMPING PLANT							
	Transportation Water							Conservation Water	Total	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		
	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Water Supply	Recreation	Total	Water Supply						Recreation	Total	
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)		
1967	5,746	1,183	0	11,538	0	18,467	2,957	21,424	0	0	0	0	0	0	
1968	11,079	74,464	0	293,243	0	378,786	531,275	910,061	11,079	25,126	0	189,104	0	225,309	
1969	7,336	44,287	-174,300	265,417	0	142,740	531,185	673,925	3,887	9,922	-100,513	192,689	0	105,985	
1970	23,947	20,767	-5,355	365,771	0	405,130	-12,995	392,135	7,668	1,901	0	270,300	0	279,869	
1971	23,207	-10,754	8,854	651,665	8	672,980	7,708	680,688	23,207	-12,030	0	545,869	0	557,046	
1972	145,066	9,076	-4,356	1,033,432	6,541	1,189,759	48,300	1,238,059	145,066	-6,616	-6,629	886,840	6,533	1,025,194	
1973	214,941	-4,951	2,902	733,080	1,083	947,055	55,846	1,002,901	214,941	-6,778	1,329	635,788	1,075	846,355	
1974	256,960	-11,052	-42,048	873,300	2,118	1,079,278	54,683	1,133,961	256,960	-16,368	-24,756	780,511	2,108	998,455	
1975	71,327	138,355	52,103	1,286,600	7,284	1,555,669	-131,685	1,423,984	71,327	117,387	52,103	1,158,700	7,100	1,406,617	
1976	109,381	141,795	9,451	1,413,762	6,221	1,680,610	79,784	1,760,394	109,381	120,827	9,451	1,283,762	6,000	1,529,421	
1977	4,360	142,900	-24,328	1,614,902	10,251	1,748,085	-147,609	1,600,476	4,360	121,932	-24,328	1,482,932	10,000	1,594,566	
1978	4,360	142,538	7,463	1,792,372	10,286	1,957,019	-125,158	1,831,861	4,360	121,570	7,463	1,657,772	10,000	1,801,165	
1979	0	142,382	-43,398	1,923,453	10,312	2,032,749	147,344	2,180,093	0	121,414	-43,398	1,786,753	10,000	1,874,769	
1980	0	142,275	9,635	2,008,213	42,662	2,202,785	6,815	2,209,600	0	121,307	9,635	1,869,213	42,325	2,042,480	
1981	0	141,808	-7,354	2,090,946	42,674	2,268,074	85,066	2,353,140	0	120,840	-7,354	1,949,646	42,325	2,105,457	
1982	0	141,200	1,419	2,231,513	42,684	2,419,816	37,259	2,457,075	0	123,231	1,419	2,087,813	42,325	2,254,788	
1983	0	144,230	-3,100	2,372,902	44,645	2,558,677	-7,303	2,551,374	0	123,260	-3,100	2,226,902	42,325	2,389,387	
1984	0	144,101	-6,297	2,479,877	44,755	2,662,436	62,662	2,725,098	0	123,130	-6,297	2,331,477	42,325	2,490,635	
1985	0	143,990	632	2,601,837	44,875	2,791,334	-45,181	2,746,153	0	123,018	632	2,451,137	42,325	2,617,112	
1986	0	143,862	-6,765	2,741,242	44,985	2,923,324	26,708	2,950,032	0	122,892	-6,765	2,588,042	42,325	2,746,494	
1987	0	144,039	5,794	2,880,027	45,105	3,074,965	-42,649	3,032,316	0	123,082	5,794	2,724,527	42,325	2,895,728	
1988	0	144,101	-6,881	3,011,785	45,225	3,194,230	128,863	3,323,093	0	123,164	-6,881	2,853,885	42,325	3,012,493	
1989	0	143,831	-40,930	3,199,392	45,335	3,347,628	159,139	3,506,767	0	122,921	-40,930	3,037,092	42,325	3,161,408	
1990	0	143,723	21,469	3,460,415	45,500	3,671,107	-74,577	3,596,530	0	122,854	21,469	3,293,815	42,325	3,480,463	
1991	0	143,430	6,781	3,513,439	45,500	3,709,150	35,617	3,744,767	0	122,599	6,781	3,342,539	42,325	3,514,244	
1992	0	143,556	-22,722	3,565,014	45,500	3,731,348	73,856	3,805,204	0	122,762	-22,722	3,389,814	42,325	3,532,179	
1993	0	143,298	-4,779	3,613,778	45,500	3,802,097	13,538	3,815,635	0	122,555	-4,779	3,434,278	42,325	3,598,679	
1994	0	143,518	10,366	3,661,693	45,500	3,861,077	15,008	3,876,085	0	122,727	10,366	3,478,793	42,325	3,654,211	
1995	0	143,231	-12,802	3,707,027	45,500	3,882,956	17,866	3,900,822	0	122,448	-12,802	3,523,327	42,325	3,675,298	
1996	0	143,154	-9,370	3,743,029	45,500	3,922,313	137,775	4,060,088	0	122,379	-9,370	3,558,529	42,325	3,713,863	
1997	0	143,106	-13,517	3,779,030	45,500	3,954,119	-18,033	3,936,086	0	122,341	-13,517	3,593,730	42,325	3,744,879	
1998	0	143,045	8,500	3,815,032	45,500	4,012,077	82,470	4,094,547	0	122,291	8,500	3,628,932	42,325	3,802,048	
1999	0	143,070	-1,682	3,851,034	45,500	4,037,922	72,755	4,110,677	0	122,333	-1,682	3,664,134	42,325	3,827,110	
2000	0	142,850	-1,859	3,887,035	45,500	4,073,526	-211,291	3,862,235	0	122,120	-1,859	3,699,335	42,325	3,861,921	
2001	0	142,960	19,297	3,919,727	45,500	4,127,484	86,576	4,214,060	0	122,244	19,297	3,731,227	42,325	3,915,093	
2002	0	142,828	-33,936	3,952,419	45,500	4,106,811	-5,819	4,100,992	0	122,117	-33,936	3,763,119	42,325	3,893,625	
2003	0	142,716	20,012	3,985,111	45,500	4,193,339	185,838	4,379,177	0	122,021	20,012	3,795,011	42,325	3,979,369	
2004	0	142,555	-8,821	4,017,803	45,500	4,197,037	-41,262	4,155,775	0	121,865	-8,821	3,826,903	42,325	3,982,272	
2005	0	142,663	14,376	4,050,800	45,500	4,253,039	28,531	4,281,570	0	121,994	14,376	3,858,800	42,325	4,037,495	
2006	0	142,573	-17,105	4,064,200	45,500	4,235,168	2,282	4,237,450	0	121,903	-17,105	3,872,100	42,325	4,019,223	
2007	0	142,474	6,373	4,077,900	45,500	4,272,247	62,715	4,334,962	0	121,808	6,373	3,885,400	42,325	4,055,906	
2008	0	142,397	-12,809	4,091,600	45,500	4,266,688	45,339	4,312,027	0	121,735	-12,809	3,898,700	42,325	4,049,951	
2009	0	142,295	-1,581	4,105,300	45,500	4,291,514	-14,703	4,276,811	0	121,637	-1,581	3,912,000	42,325	4,074,381	
2010	0	142,266	2,747	4,119,000	45,500	4,309,513	155,732	4,465,245	0	121,618	2,747	3,925,300	42,325	4,091,990	
2011	0	142,257	-4,860	4,119,300	45,500	4,302,197	29,216	4,331,413	0	121,603	-4,860	3,925,600	42,325	4,084,668	
2012	0	142,278	2,289	4,119,600	45,500	4,309,667	64,673	4,374,340	0	121,624	2,289	3,925,900	42,325	4,092,138	
2013	0	142,291	-4,936	4,119,900	45,500	4,302,755	35,286	4,338,041	0	121,637	-4,936	3,926,200	42,325	4,085,226	
2014	0	142,276	4,446	4,120,200	45,500	4,312,422	39,972	4,352,394	0	121,622	4,446	3,926,500	42,325	4,094,893	
2015	0	142,276	5,455	4,120,500	45,500	4,313,731	10,322	4,324,053	0	121,622	5,455	3,926,800	42,325	4,096,202	
2016	0	142,282	-4,030	4,120,900	45,500	4,304,652	73,851	4,378,503	0	121,628	-4,030	3,927,200	42,325	4,087,123	
2017	0	142,278	-1,063	4,121,300	45,500	4,308,015	28,791	4,336,806	0	121,624	-1,063	3,927,600	42,325	4,090,486	
2018	0	142,269	-994	4,121,700	45,500	4,308,475	22,667	4,331,142	0	121,615	-994	3,928,000	42,325	4,090,946	
2019	0	142,231	-3,728	4,122,100	45,500	4,306,103	45,661	4,351,664	0	121,577	-3,728	3,928,400	42,325	4,088,574	
2020(b)	0	142,247	0	4,123,200	45,500	4,310,947	40,639	4,351,586	0	121,593	0	3,929,500	42,325	4,093,418	

TABLE B-6: ANNUAL QUANTITIES CONVEYED THRU EACH PUMPING

(in acre-feet)

Sheet 3 of 8

CALIFORNIA AQUEDUCT (Continued)												
SOUTH SAN JOAQUIN DIVISION												
Calendar Year	BUENA VISTA PUMPING PLANT						WHEELER RIDGE PUMPING PLANT					
	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		Total	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		Total
				Water Supply	Recreation					Water Supply	Recreation	
	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)
1970	4,779	1,012	0	3	0	5,794	198	2	0	0	0	200
1971	7,853	8,399	0	101,512	0	117,764	7,533	-112	0	3,552	0	10,973
1972	100,274	20,063	-6,629	223,626	6,533	343,867	100,274	12,784	-6,629	84,955	6,533	197,917
1973	204,638	35,695	1,329	311,168	1,075	553,905	204,638	21,543	1,329	229,757	1,075	458,342
1974	246,620	20,177	-24,864	388,947	2,108	632,988	246,620	12,508	-25,024	336,196	2,108	572,408
1975	71,327	79,228	52,103	709,766	7,100	919,524	71,327	67,428	52,103	659,766	7,100	857,724
1976	109,381	82,668	9,451	824,762	6,000	1,032,262	109,381	70,868	9,451	775,062	6,000	970,762
1977	4,360	83,773	-24,328	978,902	10,000	1,052,707	4,360	71,973	-24,328	920,202	10,000	982,207
1978	4,360	83,411	7,463	1,109,672	10,000	1,214,906	4,360	71,611	7,463	1,044,672	10,000	1,138,106
1979	0	83,255	-43,398	1,195,353	10,000	1,245,210	0	71,455	-43,398	1,122,353	10,000	1,160,410
1980	0	83,148	9,635	1,234,413	20,000	1,347,196	0	71,348	9,635	1,152,313	20,000	1,253,296
1981	0	82,681	-7,354	1,267,246	20,000	1,362,573	0	70,881	-7,354	1,179,146	20,000	1,262,673
1982	0	82,872	1,419	1,359,813	20,000	1,464,104	0	71,072	1,419	1,261,213	20,000	1,353,704
1983	0	82,901	-3,100	1,449,002	20,000	1,548,803	0	71,101	-3,100	1,339,902	20,000	1,427,903
1984	0	82,771	-6,297	1,513,377	20,000	1,609,851	0	70,971	-6,297	1,393,677	20,000	1,478,351
1985	0	82,659	632	1,572,572	20,000	1,675,863	0	70,859	632	1,442,172	20,000	1,533,663
1986	0	82,533	-6,765	1,662,673	20,000	1,758,441	0	70,733	-6,765	1,522,573	20,000	1,606,541
1987	0	82,723	5,794	1,751,583	20,000	1,860,100	0	70,923	5,794	1,601,883	20,000	1,698,600
1988	0	82,805	-6,881	1,837,284	20,000	1,933,208	0	71,005	-6,881	1,677,984	20,000	1,762,108
1989	0	82,562	-40,930	1,991,294	20,000	2,052,926	0	70,762	-40,930	1,822,294	20,000	1,872,126
1990	0	82,495	21,469	2,210,895	20,000	2,334,859	0	70,695	21,469	2,032,195	20,000	2,144,359
1991	0	82,240	6,781	2,256,955	20,000	2,365,976	0	70,440	6,781	2,078,255	20,000	2,175,476
1992	0	82,403	-22,722	2,301,716	20,000	2,381,397	0	70,603	-22,722	2,123,016	20,000	2,190,897
1993	0	82,196	-479	2,343,676	20,000	2,445,393	0	70,396	-479	2,164,976	20,000	2,254,893
1994	0	82,368	10,366	2,385,637	20,000	2,498,371	0	70,568	10,366	2,206,937	20,000	2,307,871
1995	0	82,089	-12,802	2,427,597	20,000	2,516,884	0	70,289	-12,802	2,248,897	20,000	2,326,384
1996	0	82,020	-9,370	2,460,158	20,000	2,552,808	0	70,220	-9,370	2,281,458	20,000	2,362,308
1997	0	81,982	-13,517	2,492,718	20,000	2,581,183	0	70,182	-13,517	2,314,018	20,000	2,390,683
1998	0	81,932	8,500	2,525,279	20,000	2,635,711	0	70,132	8,500	2,346,579	20,000	2,445,211
1999	0	81,974	-1,682	2,557,840	20,000	2,658,132	0	70,174	-1,682	2,379,140	20,000	2,467,632
2000	0	81,761	-1,859	2,590,400	20,000	2,690,302	0	69,961	-1,859	2,411,700	20,000	2,499,802
2001	0	81,885	19,297	2,618,860	20,000	2,740,042	0	70,085	19,297	2,440,160	20,000	2,549,542
2002	0	81,758	-33,936	2,647,320	20,000	2,715,142	0	69,958	-33,936	2,468,620	20,000	2,524,642
2003	0	81,662	20,012	2,675,780	20,000	2,797,454	0	69,862	20,012	2,497,080	20,000	2,606,954
2004	0	81,506	-8,821	2,704,240	20,000	2,796,925	0	69,706	-8,821	2,525,540	20,000	2,606,425
2005	0	81,635	14,376	2,732,700	20,000	2,848,711	0	69,835	14,376	2,554,000	20,000	2,658,211
2006	0	81,544	-17,105	2,746,000	20,000	2,830,439	0	69,744	-17,105	2,567,300	20,000	2,639,939
2007	0	81,449	6,373	2,759,300	20,000	2,867,122	0	69,649	6,373	2,580,600	20,000	2,676,622
2008	0	81,376	-12,809	2,772,600	20,000	2,861,167	0	69,576	-12,809	2,593,900	20,000	2,670,667
2009	0	81,278	-1,581	2,785,900	20,000	2,885,597	0	69,478	-1,581	2,607,200	20,000	2,695,097
2010	0	81,259	2,747	2,799,200	20,000	2,903,206	0	69,459	2,747	2,620,500	20,000	2,712,706
2011	0	81,244	-4,860	2,799,500	20,000	2,895,884	0	69,444	-4,860	2,620,800	20,000	2,705,384
2012	0	81,265	2,289	2,799,800	20,000	2,903,354	0	69,465	2,289	2,621,100	20,000	2,712,854
2013	0	81,278	-4,936	2,800,100	20,000	2,896,442	0	69,478	-4,936	2,621,400	20,000	2,705,942
2014	0	81,263	4,446	2,800,400	20,000	2,906,109	0	69,463	4,446	2,621,700	20,000	2,715,609
2015	0	81,263	5,455	2,800,700	20,000	2,907,418	0	69,463	5,455	2,622,000	20,000	2,716,918
2016	0	81,269	-4,030	2,801,100	20,000	2,898,339	0	69,469	-4,030	2,622,400	20,000	2,707,839
2017	0	81,265	-1,063	2,801,500	20,000	2,901,702	0	69,465	-1,063	2,622,800	20,000	2,711,202
2018	0	81,256	-994	2,801,900	20,000	2,902,162	0	69,456	-994	2,623,200	20,000	2,711,662
2019	0	81,218	-3,728	2,802,300	20,000	2,899,790	0	69,418	-3,728	2,623,600	20,000	2,709,290
2020 (b)	0	81,234	0	2,803,400	20,000	2,904,634	0	69,434	0	2,624,700	20,000	2,714,134

AND POWER RECOVERY PLANT OF PROJECT TRANSPORTATION FACILITIES

(in acre-feet)

Sheet 4 of 8

Calendar Year	CALIFORNIA AQUEDUCT (Continued)											
	SOUTH SAN JOAQUIN DIVISION (Continued)						TEHACHAPI DIVISION					
	WIND GAP PUMPING PLANT						A. D. EDMONSTON (TEHACHAPI) PUMPING PLANT					
	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		Total	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		Total
Water Supply				Recreation	Water Supply					Recreation		
(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	
1971	7,366	-159	0	0	0	7,207	5,446	8	0	0	0	5,454
1972	100,274	13,179	-6,629	78,891	6,533	192,248	100,274	16,086	-6,629	74,123	6,533	190,387
1973	204,638	32,414	1,329	209,841	1,075	449,297	204,638	34,051	1,329	207,880	1,075	448,973
1974	246,620	18,390	-25,094	318,196	2,108	560,220	246,620	18,932	-25,110	313,632	2,108	556,182
1975	71,327	66,628	52,103	643,766	7,100	840,924	71,327	64,028	52,103	635,950	7,100	830,508
1976	109,381	70,068	9,451	759,362	6,000	954,262	109,381	67,468	9,451	751,662	6,000	943,962
1977	4,360	71,173	-24,328	901,702	10,000	962,907	4,360	68,573	-24,328	893,002	10,000	951,607
1978	4,360	70,811	7,463	1,024,272	10,000	1,116,906	4,360	68,211	7,463	1,010,972	10,000	1,101,006
1979	0	70,655	-43,398	1,099,353	10,000	1,136,610	0	68,055	-43,398	1,084,053	10,000	1,118,710
1980	0	70,548	9,635	1,126,513	20,000	1,226,696	0	67,948	9,635	1,109,513	20,000	1,207,096
1981	0	70,081	-7,354	1,151,446	20,000	1,234,173	0	67,481	-7,354	1,126,646	20,000	1,206,773
1982	0	70,272	1,419	1,229,813	20,000	1,321,504	0	67,672	1,419	1,202,413	20,000	1,291,504
1983	0	70,301	-3,100	1,304,802	20,000	1,392,003	0	67,701	-3,100	1,274,402	20,000	1,359,003
1984	0	70,171	-6,297	1,354,777	20,000	1,438,651	0	67,571	-6,297	1,315,377	20,000	1,396,651
1985	0	70,059	632	1,399,572	20,000	1,490,263	0	67,459	632	1,356,372	20,000	1,444,463
1986	0	69,933	-6,765	1,477,473	20,000	1,560,641	0	67,333	-6,765	1,426,973	20,000	1,507,541
1987	0	70,123	5,794	1,554,283	20,000	1,650,200	0	67,523	5,794	1,498,683	20,000	1,592,000
1988	0	70,205	-6,881	1,627,884	20,000	1,711,208	0	67,605	-6,881	1,568,184	20,000	1,648,908
1989	0	69,962	-40,930	1,769,694	20,000	1,818,726	0	67,362	-40,930	1,704,794	20,000	1,751,226
1990	0	69,895	21,469	1,977,195	20,000	2,088,559	0	67,295	21,469	1,906,995	20,000	2,015,759
1991	0	69,640	6,781	2,023,255	20,000	2,119,676	0	67,040	6,781	1,953,055	20,000	2,046,876
1992	0	69,803	-22,722	2,068,016	20,000	2,135,097	0	67,203	-22,722	1,997,816	20,000	2,062,297
1993	0	69,596	-479	2,109,976	20,000	2,199,093	0	66,996	-479	2,039,776	20,000	2,126,293
1994	0	69,768	10,366	2,151,937	20,000	2,252,071	0	67,168	10,366	2,081,737	20,000	2,179,271
1995	0	69,489	-12,802	2,193,897	20,000	2,270,584	0	66,889	-12,802	2,123,697	20,000	2,197,784
1996	0	69,420	-9,370	2,226,458	20,000	2,306,508	0	66,820	-9,370	2,156,258	20,000	2,233,708
1997	0	69,382	-13,517	2,259,018	20,000	2,334,883	0	66,782	-13,517	2,188,818	20,000	2,262,083
1998	0	69,332	8,500	2,291,579	20,000	2,389,411	0	66,732	8,500	2,221,379	20,000	2,316,611
1999	0	69,374	-1,682	2,324,140	20,000	2,411,832	0	66,774	-1,682	2,253,940	20,000	2,339,032
2000	0	69,161	-1,859	2,356,700	20,000	2,444,002	0	66,561	-1,859	2,286,500	20,000	2,371,202
2001	0	69,285	19,297	2,385,160	20,000	2,493,742	0	66,685	19,297	2,314,960	20,000	2,420,942
2002	0	69,158	-33,936	2,413,620	20,000	2,468,842	0	66,558	-33,936	2,343,420	20,000	2,396,042
2003	0	69,062	20,012	2,442,080	20,000	2,551,154	0	66,462	20,012	2,371,880	20,000	2,478,354
2004	0	68,906	-8,821	2,470,540	20,000	2,550,625	0	66,306	-8,821	2,400,340	20,000	2,477,825
2005	0	69,035	14,376	2,499,000	20,000	2,602,411	0	66,435	14,376	2,428,800	20,000	2,529,611
2006	0	68,944	-17,105	2,512,300	20,000	2,584,139	0	66,344	-17,105	2,442,100	20,000	2,511,339
2007	0	68,849	6,373	2,525,600	20,000	2,620,822	0	66,249	6,373	2,455,400	20,000	2,548,022
2008	0	68,776	-12,809	2,538,900	20,000	2,614,867	0	66,176	-12,809	2,468,700	20,000	2,542,067
2009	0	68,678	-1,581	2,552,200	20,000	2,639,297	0	66,078	-1,581	2,482,000	20,000	2,566,497
2010	0	68,659	2,747	2,565,500	20,000	2,656,906	0	66,059	2,747	2,495,300	20,000	2,584,106
2011	0	68,644	-4,860	2,565,800	20,000	2,649,584	0	66,044	-4,860	2,495,600	20,000	2,576,784
2012	0	68,665	2,289	2,566,100	20,000	2,657,054	0	66,065	2,289	2,495,900	20,000	2,584,254
2013	0	68,678	-4,936	2,566,400	20,000	2,650,142	0	66,078	-4,936	2,496,200	20,000	2,577,342
2014	0	68,663	4,446	2,566,700	20,000	2,659,809	0	66,063	4,446	2,496,500	20,000	2,587,009
2015	0	68,663	5,455	2,567,000	20,000	2,661,118	0	66,063	5,455	2,496,800	20,000	2,588,318
2016	0	68,669	-4,030	2,567,400	20,000	2,652,039	0	66,069	-4,030	2,497,200	20,000	2,579,239
2017	0	68,665	-1,063	2,567,800	20,000	2,655,402	0	66,065	-1,063	2,497,600	20,000	2,582,602
2018	0	68,656	-994	2,568,200	20,000	2,655,862	0	66,056	-994	2,498,000	20,000	2,583,062
2019	0	68,618	-3,728	2,568,600	20,000	2,653,490	0	66,018	-3,728	2,498,400	20,000	2,580,690
2020(b)	0	68,634	0	2,569,700	20,000	2,658,334	0	66,034	0	2,499,500	20,000	2,585,534

TABLE B-6: ANNUAL QUANTITIES CONVEYED THRU EACH PUMPING

(in acre-feet)

Sheet 5 of 8

CALIFORNIA AQUEDUCT (Continued)												
MOJAVE DIVISION												
Calendar Year	COTTONWOOD POWERPLANT						PEARBLOSSOM PUMPING PLANT					
	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		Total	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		Total
				Water Supply	Recreation					Water Supply	Recreation	
(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)	
1971	0	0	0	0	0	0	21	0	0	0	0	21
1972	0	0	0	0	0	0	35,243	5,282	-153	1,794	0	42,166
1973	0	0	0	0	0	0	80,177	21,522	-2,700	52,273	0	151,272
1974	0	0	0	0	0	0	76,694	10,900	-11,200	102,837	44	179,275
1975	0	0	0	0	0	0	24,717	29,327	-6,232	241,480	6,000	295,292
1976	0	0	0	0	0	0	4,168	29,445	9,451	386,772	6,000	435,836
1977	0	0	0	0	0	0	0	29,383	-16,708	548,052	6,000	566,727
1978	0	0	0	0	0	0	0	29,004	3,852	652,531	6,000	691,387
1979	0	0	0	0	0	0	0	28,958	-23,406	710,413	6,000	721,965
1980	0	0	0	0	0	0	0	28,867	-125	722,613	11,000	762,355
1981	0	0	0	0	0	0	0	28,593	-732	729,276	11,000	768,137
1982	0	0	0	0	0	0	0	28,583	-1,405	756,084	11,000	794,262
1983	0	42,455	-13,187	862,645	15,000	906,913	0	28,555	-13,187	779,106	11,000	805,474
1984	0	42,522	8,724	859,790	15,000	926,036	0	28,622	8,724	771,127	11,000	819,473
1985	0	42,418	-13,704	856,847	15,000	900,561	0	28,518	-13,704	763,150	11,000	788,964
1986	0	42,397	11,321	870,076	15,000	938,794	0	28,497	11,321	771,300	11,000	822,118
1987	0	42,468	7,701	883,914	15,000	949,083	0	28,568	7,701	779,950	11,000	827,219
1988	0	42,700	-6,793	897,743	15,000	948,650	0	28,800	-6,793	788,600	11,000	821,607
1989	0	42,566	4,921	911,582	15,000	974,069	0	28,666	4,921	797,250	11,000	841,837
1990	0	42,434	-10,692	925,911	15,000	972,653	0	28,534	-10,692	806,400	11,000	835,242
1991	0	42,456	1,648	933,660	15,000	992,764	0	28,556	1,648	810,760	11,000	851,964
1992	0	42,480	1,528	940,109	15,000	999,117	0	28,580	1,528	813,820	11,000	854,928
1993	0	42,528	-2,891	943,658	15,000	998,295	0	28,628	-2,891	814,080	11,000	850,817
1994	0	42,362	-1,152	947,207	15,000	1,003,417	0	28,462	-1,152	814,340	11,000	852,650
1995	0	42,517	4,902	950,755	15,000	1,013,174	0	28,617	4,902	814,600	11,000	859,119
1996	0	42,493	-6,736	954,304	15,000	1,005,061	0	28,593	-6,736	814,860	11,000	847,717
1997	0	42,433	7,530	957,853	15,000	1,022,816	0	28,533	7,530	815,120	11,000	862,183
1998	0	42,427	-5,373	961,402	15,000	1,013,456	0	28,527	-5,373	815,380	11,000	849,534
1999	0	42,409	-3,015	964,951	15,000	1,019,345	0	28,509	-3,015	815,640	11,000	852,134
2000	0	42,452	8,390	968,500	15,000	1,034,342	0	28,552	8,390	815,900	11,000	863,842
2001	0	42,522	5,651	968,780	15,000	1,031,953	0	28,622	5,651	816,180	11,000	861,453
2002	0	42,535	-12,339	969,060	15,000	1,014,256	0	28,635	-12,339	816,460	11,000	843,756
2003	0	42,236	1,989	969,340	15,000	1,028,565	0	28,336	1,989	816,740	11,000	858,065
2004	0	42,171	-2,287	969,620	15,000	1,024,504	0	28,271	-2,287	817,020	11,000	854,004
2005	0	42,158	-412	969,900	15,000	1,026,646	0	28,258	-412	817,300	11,000	856,146
2006	0	42,170	-1,543	970,200	15,000	1,025,827	0	28,270	-1,543	817,600	11,000	855,327
2007	0	42,146	-3,910	970,500	15,000	1,023,736	0	28,246	-3,910	817,900	11,000	853,236
2008	0	42,090	5,377	970,800	15,000	1,033,267	0	28,190	5,377	818,200	11,000	862,767
2009	0	42,123	-4,355	971,100	15,000	1,023,868	0	28,223	-4,355	818,500	11,000	853,368
2010	0	42,064	8,321	971,400	15,000	1,036,785	0	28,164	8,321	818,800	11,000	866,285
2011	0	42,027	-4,942	971,700	15,000	1,023,785	0	28,127	-4,942	819,100	11,000	853,285
2012	0	42,079	438	972,000	15,000	1,029,517	0	28,179	438	819,400	11,000	859,017
2013	0	42,085	219	972,300	15,000	1,029,604	0	28,185	219	819,700	11,000	859,104
2014	0	42,095	4,029	972,600	15,000	1,033,724	0	28,195	4,029	820,000	11,000	863,224
2015	0	42,081	-2,711	972,900	15,000	1,027,270	0	28,181	-2,711	820,300	11,000	856,770
2016	0	42,087	218	973,300	15,000	1,030,605	0	28,187	218	820,700	11,000	860,105
2017	0	42,092	2,882	973,700	15,000	1,033,674	0	28,192	2,882	821,100	11,000	863,174
2018	0	42,053	-3,467	974,100	15,000	1,027,686	0	28,153	-3,467	821,500	11,000	857,186
2019	0	42,036	-1,523	974,500	15,000	1,030,013	0	28,136	-1,523	821,900	11,000	859,513
2020 (b)	0	42,054	0	975,600	15,000	1,032,654	0	28,154	0	823,000	11,000	862,154

AND POWER RECOVERY PLANT OF PROJECT TRANSPORTATION FACILITIES

(in acre-feet)

Sheet 6 of 8

CALIFORNIA AQUEDUCT (Continued)													
	SANTA ANA DIVISION						WEST BRANCH, CALIFORNIA AQUEDUCT						
	DEVIL CANYON POWERPLANT						OSO PUMPING PLANT						
Calendar Year	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		Total	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		Total	
				Water Supply	Recreation					Water Supply	Recreation		
	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	
1971	0	0	0	0	0	0	2,444	133	0	0	0	2,577	
1972	37	0	0	1,275	0	1,312	63,883	6,576	-6,476	71,991	6,533	142,507	
1973	40,848	14,745	0	51,812	0	107,405	124,461	16,995	4,029	155,317	1,075	301,877	
1974	74,666	8,370	-4,926	102,196	0	180,306	169,926	13,081	-13,591	209,172	2,064	380,652	
1975	24,717	13,403	2,783	240,710	6,000	287,613	46,610	20,646	58,335	389,450	1,100	516,141	
1976	4,168	13,461	0	385,840	6,000	409,469	105,213	23,968	0	350,750	0	479,931	
1977	0	13,442	-7,278	546,821	6,000	558,985	4,360	25,135	-7,620	296,550	0	318,425	
1978	0	13,164	999	651,021	6,000	671,184	4,360	25,152	3,611	299,071	0	332,194	
1979	0	13,027	-23,694	693,621	6,000	688,954	0	25,042	-19,992	308,000	0	313,050	
1980	0	13,020	8,603	705,521	6,000	733,144	0	25,026	9,760	314,850	5,000	354,636	
1981	0	12,856	21	711,871	6,000	730,748	0	24,833	-6,622	322,300	5,000	345,511	
1982	0	13,114	4,194	731,604	6,000	754,912	0	25,034	2,824	366,274	5,000	399,132	
1983	0	12,821	-12,063	751,336	6,000	758,094	0	25,091	10,087	410,357	5,000	450,535	
1984	0	12,826	5,888	740,067	6,000	764,781	0	24,894	-15,021	454,087	5,000	468,960	
1985	0	12,832	-8,244	728,800	6,000	739,388	0	24,886	14,336	497,925	5,000	542,147	
1986	0	12,836	7,403	733,660	6,000	759,899	0	24,781	-18,086	555,197	5,000	566,892	
1987	0	12,752	-1,704	739,020	6,000	756,068	0	24,900	-1,907	612,969	5,000	640,992	
1988	0	12,931	-1,095	744,380	6,000	762,216	0	24,750	-88	668,541	5,000	698,203	
1989	0	12,819	-2,005	749,740	6,000	766,554	0	24,641	-45,851	791,312	5,000	775,102	
1990	0	12,714	-296	755,600	6,000	774,018	0	24,706	32,161	979,084	5,000	1,040,951	
1991	0	12,805	1,173	756,960	6,000	776,938	0	24,429	5,133	1,017,395	5,000	1,051,957	
1992	0	12,834	2,331	757,220	6,000	778,385	0	24,568	-24,250	1,055,707	5,000	1,061,025	
1993	0	12,848	-2,955	757,480	6,000	773,373	0	24,313	2,412	1,094,118	5,000	1,125,843	
1994	0	12,700	-1,351	757,740	6,000	775,089	0	24,651	11,518	1,132,530	5,000	1,173,699	
1995	0	12,797	4,085	758,000	6,000	780,882	0	24,217	-17,704	1,170,942	5,000	1,182,455	
1996	0	12,808	-4,864	758,260	6,000	772,204	0	24,172	-2,634	1,199,954	5,000	1,226,492	
1997	0	12,810	2,522	758,520	6,000	779,852	0	24,194	-21,047	1,228,965	5,000	1,237,112	
1998	0	12,791	-1,125	758,780	6,000	776,446	0	24,150	13,873	1,257,977	5,000	1,301,000	
1999	0	12,796	1,408	759,040	6,000	779,244	0	24,210	1,333	1,286,989	5,000	1,317,532	
2000	0	12,827	1,305	759,300	6,000	779,432	0	23,954	-10,249	1,316,000	5,000	1,334,705	
2001	0	12,850	-2,887	759,580	6,000	775,543	0	24,008	13,646	1,344,180	5,000	1,386,834	
2002	0	12,827	879	759,860	6,000	779,566	0	23,868	-21,597	1,372,360	5,000	1,379,631	
2003	0	12,585	-2,689	760,140	6,000	776,036	0	24,071	18,023	1,400,540	5,000	1,447,634	
2004	0	12,587	277	760,420	6,000	779,284	0	23,980	-6,534	1,428,720	5,000	1,451,166	
2005	0	12,652	1,560	760,700	6,000	780,912	0	24,122	14,788	1,456,900	5,000	1,500,810	
2006	0	12,654	-1,845	761,000	6,000	777,809	0	24,019	-15,562	1,469,900	5,000	1,483,357	
2007	0	12,589	424	761,300	6,000	780,313	0	23,948	10,283	1,482,900	5,000	1,522,131	
2008	0	12,684	1,415	761,600	6,000	781,699	0	23,931	-18,186	1,495,900	5,000	1,506,645	
2009	0	12,735	-882	761,900	6,000	779,753	0	23,800	2,774	1,508,900	5,000	1,540,474	
2010	0	12,532	-1,914	762,200	6,000	778,818	0	23,840	-5,574	1,521,900	5,000	1,545,166	
2011	0	12,584	-269	701,300	6,000	719,615	0	23,862	82	1,521,900	5,000	1,550,844	
2012	0	12,600	868	701,600	6,000	721,068	0	23,831	1,851	1,521,900	5,000	1,552,582	
2013	0	12,604	-28	701,900	6,000	720,476	0	23,838	-5,155	1,521,900	5,000	1,545,583	
2014	0	12,613	164	702,200	6,000	720,977	0	23,813	417	1,521,900	5,000	1,551,130	
2015	0	12,589	-204	702,500	6,000	720,885	0	23,827	8,166	1,521,900	5,000	1,558,893	
2016	0	12,605	-888	702,900	6,000	720,617	0	23,827	-4,248	1,521,900	5,000	1,546,479	
2017	0	12,608	2,415	703,300	6,000	724,323	0	23,818	-3,945	1,521,900	5,000	1,546,773	
2018	0	12,615	-1,672	703,700	6,000	720,643	0	23,848	2,473	1,521,900	5,000	1,553,221	
2019	0	12,589	331	704,100	6,000	723,020	0	23,827	-2,205	1,521,900	5,000	1,548,522	
2020(b)	0	12,583	0	705,200	6,000	723,783	0	23,825	0	1,521,900	5,000	1,550,725	

TABLE B-6: ANNUAL QUANTITIES CONVEYED THRU EACH PUMPING

(in acre-feet)

Sheet 7 of 8

Calendar Year	CALIFORNIA AQUEDUCT (Continued)											
	WEST BRANCH, CALIFORNIA AQUEDUCT (Continued)											
	PYRAMID POWERPLANT						CASTAIC POWERPLANT					
	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		Total	Initial Fill Water	Operational Losses	Reservoir Storage Changes	Deliveries		Total
Water Supply				Recreation	Water Supply					Recreation		
(76)	(77)	(78)	(79)	(80)	(81)	(82)	(83)	(84)	(85)	(86)	(87)	
1972	0	0	0	0	0	57,364	1,807	-6,233	71,938	6,533	131,409	
1973	0	0	0	0	0	37,198	6,430	4,542	155,297	1,075	204,542	
1974	0	0	0	0	0	82,364	1,772	510	209,136	541	294,323	
1975	0	0	0	0	0	43,718	8,651	37,401	389,400	0	479,170	
1976	0	0	0	0	0	104,249	11,962	0	350,700	0	466,911	
1977	0	0	0	0	0	4,360	13,129	-7,620	296,500	0	306,369	
1978	0	0	0	0	0	4,360	13,146	3,611	299,021	0	320,138	
1979	0	0	0	0	0	0	13,036	-19,992	307,950	0	300,994	
1980	0	0	0	0	0	0	13,020	9,760	314,700	5,000	342,480	
1981	0	21,833	-6,622	322,050	5,000	342,261	0	12,827	-6,622	322,050	5,000	333,255
1982	0	22,034	2,824	365,663	5,000	395,521	0	13,028	2,824	365,663	5,000	386,515
1983	0	22,091	10,087	409,275	5,000	446,453	0	13,085	10,087	409,275	5,000	437,447
1984	0	21,894	-15,021	452,887	5,000	464,760	0	12,888	-15,021	452,887	5,000	455,754
1985	0	21,886	14,336	496,500	5,000	537,722	0	12,880	14,336	496,500	5,000	528,716
1986	0	21,781	-18,086	553,400	5,000	562,095	0	12,775	-18,086	553,400	5,000	553,089
1987	0	21,900	-1,907	610,900	5,000	635,893	0	12,894	-1,907	610,900	5,000	626,887
1988	0	21,750	-88	666,200	5,000	692,862	0	12,744	-88	666,200	5,000	683,856
1989	0	21,641	-45,851	788,700	5,000	769,490	0	12,635	-45,851	788,700	5,000	760,484
1990	0	21,706	32,161	976,200	5,000	1,035,067	0	12,700	32,161	976,200	5,000	1,026,061
1991	0	21,429	5,133	1,014,340	5,000	1,045,902	0	12,423	5,133	1,014,340	5,000	1,036,896
1992	0	21,568	-24,250	1,052,480	5,000	1,054,798	0	12,562	-24,250	1,052,480	5,000	1,045,792
1993	0	21,313	2,412	1,090,620	5,000	1,119,345	0	12,307	2,412	1,090,620	5,000	1,110,339
1994	0	21,651	11,518	1,128,760	5,000	1,166,929	0	12,645	11,518	1,128,760	5,000	1,157,923
1995	0	21,217	-17,704	1,166,900	5,000	1,175,413	0	12,211	-17,704	1,166,900	5,000	1,166,407
1996	0	21,172	-2,634	1,195,640	5,000	1,219,178	0	12,166	-2,634	1,195,640	5,000	1,210,172
1997	0	21,194	-21,047	1,224,380	5,000	1,229,527	0	12,188	-21,047	1,224,380	5,000	1,220,521
1998	0	21,150	13,873	1,253,120	5,000	1,293,143	0	12,144	13,873	1,253,120	5,000	1,284,137
1999	0	21,210	1,333	1,281,860	5,000	1,309,403	0	12,204	1,333	1,281,860	5,000	1,300,397
2000	0	20,954	-10,249	1,310,600	5,000	1,326,305	0	11,948	-10,249	1,310,600	5,000	1,317,299
2001	0	21,008	13,646	1,338,780	5,000	1,378,434	0	12,002	13,646	1,338,780	5,000	1,369,428
2002	0	20,868	-21,597	1,366,960	5,000	1,371,231	0	11,862	-21,597	1,366,960	5,000	1,362,225
2003	0	21,071	18,023	1,395,140	5,000	1,439,234	0	12,065	18,023	1,395,140	5,000	1,430,228
2004	0	20,980	-6,534	1,423,320	5,000	1,442,766	0	11,974	-6,534	1,423,320	5,000	1,433,760
2005	0	21,122	14,788	1,451,500	5,000	1,492,410	0	12,116	14,788	1,451,500	5,000	1,483,404
2006	0	21,019	-15,562	1,464,500	5,000	1,474,957	0	12,013	-15,562	1,464,500	5,000	1,465,951
2007	0	20,948	10,283	1,477,500	5,000	1,513,731	0	11,942	10,283	1,477,500	5,000	1,504,725
2008	0	20,931	-18,186	1,490,500	5,000	1,498,245	0	11,925	-18,186	1,490,500	5,000	1,489,239
2009	0	20,800	2,774	1,503,500	5,000	1,532,074	0	11,794	2,774	1,503,500	5,000	1,523,068
2010	0	20,840	-5,574	1,516,500	5,000	1,536,766	0	11,834	-5,574	1,516,500	5,000	1,527,760
2011	0	20,862	82	1,516,500	5,000	1,542,444	0	11,856	82	1,516,500	5,000	1,533,438
2012	0	20,831	1,851	1,516,500	5,000	1,544,182	0	11,825	1,851	1,516,500	5,000	1,535,176
2013	0	20,838	-5,155	1,516,500	5,000	1,537,183	0	11,832	-5,155	1,516,500	5,000	1,528,177
2014	0	20,813	417	1,516,500	5,000	1,542,730	0	11,807	417	1,516,500	5,000	1,533,724
2015	0	20,827	8,166	1,516,500	5,000	1,550,493	0	11,821	8,166	1,516,500	5,000	1,541,487
2016	0	20,827	-4,248	1,516,500	5,000	1,538,079	0	11,821	-4,248	1,516,500	5,000	1,529,073
2017	0	20,818	-3,945	1,516,500	5,000	1,538,373	0	11,812	-3,945	1,516,500	5,000	1,529,367
2018	0	20,848	2,473	1,516,500	5,000	1,544,821	0	11,842	2,473	1,516,500	5,000	1,535,815
2019	0	20,827	-2,205	1,516,500	5,000	1,540,122	0	11,821	-2,205	1,516,500	5,000	1,531,116
2020(b)	0	20,825	0	1,516,500	5,000	1,542,325	0	11,819	0	1,516,500	5,000	1,533,319

AND POWER RECOVERY PLANT OF PROJECT TRANSPORTATION FACILITIES

(in acre-feet)

Sheet 8 of 8

Calendar Year	CALIFORNIA AQUEDUCT (Continued)						
	COASTAL BRANCH, CALIFORNIA AQUEDUCT						
	LAS PERILLAS AND BADGER HILL PUMPING PLANTS				DEVIL'S DEN, SAWTOOTH AND POLONIO PUMPING PLANTS AND SAN LUIS OBISPO POWERPLANT		
	Initial Fill Water	Opera- tional Losses	Water Supply Delivery	Total	Opera- tional Losses	Water Supply Delivery	Total
(88)	(89)	(90)	(91)	(92)	(93)	(94)	
1968	210	873	79,039	80,122	0	0	0
1969	0	1,042	62,064	63,106	0	0	0
1970	0	638	83,649	84,287	0	0	0
1971	0	3,455	110,971	114,426	0	0	0
1972	0	1,745	121,755	123,500	0	0	0
1973	0	5,479	78,645	84,124	0	0	0
1974	0	7,344	78,174	85,518	0	0	0
1975	0	1,500	84,091	85,591	0	0	0
1976	0	1,500	89,500	91,000	0	0	0
1977	0	1,500	77,857	79,357	0	0	0
1978	0	1,500	83,236	84,736	0	0	0
1979	0	1,500	88,153	89,653	0	0	0
1980	0	1,500	92,994	94,494	0	0	0
1981	0	1,500	98,295	99,795	0	0	0
1982	0	3,700	102,700	106,400	2,200	2,000	4,200
1983	0	3,700	109,200	112,900	2,200	3,000	5,200
1984	0	3,700	112,200	115,900	2,200	4,500	6,700
1985	0	3,700	132,165	135,865	2,200	22,165	24,365
1986	0	3,700	141,769	145,469	2,200	28,669	30,869
1987	0	3,700	148,544	152,244	2,200	31,644	33,844
1988	0	3,700	155,101	158,801	2,200	34,201	36,401
1989	0	3,700	159,998	163,698	2,200	36,698	38,898
1990	0	3,700	164,170	167,870	2,200	39,520	41,720
1991	0	3,700	166,834	170,534	2,200	42,184	44,384
1992	0	3,700	169,348	173,048	2,200	46,698	48,898
1993	0	3,700	171,852	175,552	2,200	47,202	49,402
1994	0	3,700	174,406	178,106	2,200	49,756	51,956
1995	0	3,700	176,980	180,680	2,200	52,330	54,530
1996	0	3,700	179,621	183,321	2,200	54,971	57,171
1997	0	3,700	182,262	185,962	2,200	57,612	59,812
1998	0	3,700	184,903	188,603	2,200	60,253	62,453
1999	0	3,700	187,544	191,244	2,200	62,894	65,094
2000	0	3,700	190,185	193,885	2,200	65,535	67,735
2001	0	3,700	193,617	197,317	2,200	68,967	71,167
2002	0	3,700	197,049	200,749	2,200	72,399	74,599
2003	0	3,700	200,481	204,181	2,200	75,831	78,031
2004	0	3,700	203,913	207,613	2,200	79,263	81,463
2005	0	3,700	207,350	211,050	2,200	82,700	84,900
2006	0	3,700	207,350	211,050	2,200	82,700	84,900
2007	0	3,700	207,350	211,050	2,200	82,700	84,900
2008	0	3,700	207,350	211,050	2,200	82,700	84,900
2009	0	3,700	207,350	211,050	2,200	82,700	84,900
2010	0	3,700	207,350	211,050	2,200	82,700	84,900
2011	0	3,700	207,350	211,050	2,200	82,700	84,900
2012	0	3,700	207,350	211,050	2,200	82,700	84,900
2013	0	3,700	207,350	211,050	2,200	82,700	84,900
2014	0	3,700	207,350	211,050	2,200	82,700	84,900
2015	0	3,700	207,350	211,050	2,200	82,700	84,900
2016	0	3,700	207,350	211,050	2,200	82,700	84,900
2017	0	3,700	207,350	211,050	2,200	82,700	84,900
2018	0	3,700	207,350	211,050	2,200	82,700	84,900
2019	0	3,700	207,350	211,050	2,200	82,700	84,900
2020(b)	0	3,700	207,350	211,050	2,200	82,700	84,900

TABLE B-7: RECONCILIATION OF CAPITAL COSTS ALLOCATED TO WATER SUPPLY AND POWER GENERATION FOR THE PROJECT CONSTRUCTION PERIOD, 1952-1985

(in thousands of dollars)

Project Facility	Project Costs Allocated to Water Supply and Power Generation							Project Costs Allocated to Other Purposes	Total, State Water Project
	Misc. Income Credited to Construction (a)	Allowances for Future Price Escalation (b)	Costs of Construction of Water Delivery Structures (c)	Additional Costs of Requested Excess Capacity and Future Enlargement (d)	Capital Cost Component of Delta Water Charge (e)	Capital Cost Component of Transportation Water Charge (f)	Water Supply and Power Total (7)		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
CONSERVATION FACILITIES									
Upper Feather Division									
Frenchman Dam and Lake	173	0	0	0	526	0	699	2,609	3,308
Grizzly Valley Dam and Lake									
Davis Lake	30	0	0	0	210	0	240	4,675	4,915
Antelope Dam and Lake	0	0	0	0	0	0	0	4,997	4,997
Abbey Bridge Dam and Res.	0	0	0	0	0	0	0	13,820	13,820
Dixie Refuge Dam and Res.	0	0	0	0	0	0	0	13,132	13,132
Total, Upper Feather Division	203	0	0	0	736	0	939	39,233	40,172
Oroville Division									
Multipurpose Facilities	3,155	183	149	0	316,850	0	320,337	80,110	400,447
Specific Power Facilities	0	125	0	0	109,162	0	109,287	0	109,287
Total, Oroville Division	3,155	308	149	0	426,012	0	429,624	80,110	509,734
California Aqueduct									
North San Joaquin Division	200	1,586	0	0	51,410	0	53,196	2,110	55,306
San Luis Division	378	19	0	0	82,282	0	82,679	3,731	86,410
Total, California Aqueduct	578	1,605	0	0	133,692	0	135,875	5,841	141,716
Delta Facilities	17	62,838	0	0	207,675	0	270,530	334,651	605,181
Additional Conservation Fac. ^(g)	0	4,619	0	0	16,885	0	21,504	3,865	25,369
TOTAL, CONSERVATION FACILITIES	3,953	69,370	149	0	785,000	0	858,472	463,700	1,322,172
TRANSPORTATION FACILITIES									
Upper Feather Division									
Grizzly Valley Pipeline	0	0	0	0	0	340	340	0	340
North Bay Aqueduct	18	4,423	35	0	0	22,747	27,223	0	27,223
South Bay Aqueduct	1,591	4	310	0	0	47,506	49,411	20,674	70,085
California Aqueduct									
North San Joaquin Division	383	3,547	17	0	0	115,070	119,017	4,084	123,101
San Luis Division	101	6,000	0	0	0	107,125	113,226	3,758	116,984
South San Joaquin Division	299	415	3,301	3,244	0	249,692	256,951	7,952	264,903
Tehachapi Division	23	10,242	9	6,991	0	277,895	295,160	9,120	304,280
Mojave Division	489	11,527	373	0	0	236,713	249,102	8,277	257,379
Santa Ana Division	177	136	2,909	11,127	0	161,385	175,734	10,317	186,051
West Branch	36,885	19,888	3,150	106	0	401,759	461,788	17,045	478,833
Coastal Division	9	27,739	86	0	0	103,286	131,120	105	131,225
Total, California Aqueduct	38,366	79,494	9,845	21,468	0	1,652,925	1,802,098	60,658	1,862,756
TOTAL TRANSPORTATION FACILITIES	39,975	83,921	10,190	21,468	0	1,723,518	1,879,072	81,332	1,960,404
SAN JOAQUIN DRAINAGE FACILITIES	0	0	0	0	0	0	0	9,391	9,391
UNASSIGNED AND DAVIS-GRUNSKY	0	0	0	0	0	0	0	140,989	140,989
TOTAL, 1952-1985	43,928	153,291	10,339	21,468	785,000	1,723,518	2,737,544	695,412	3,432,956

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.

b) These allowances are included for planning the future financial program, but not for determining current water charges. The costs shown on this appendix are based on prices prevailing on December 31, 1974.

c) See Table B-8.

d) From Table B-9, less a portion allocated to recreation and fish and wildlife enhancement.

e) See Table B-13. A portion of these costs will be offset by power generation sales and credits.

f) See Table B-10.

g) Planning costs only.

TABLE B-8: CAPITAL COSTS OF REQUESTED DELIVERY STRUCTURES TO BE BUILT BY THE STATE ^(a)

(in dollars)

Project Area and Water Supply Contractor	Calendar Year												Total
	1952-74	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
FEATHER RIVER AREA													
County of Butte Thermalito Irrigation District ^b	104,924	0	0	0	0	0	0	0	0	0	0	0	104,924
	43,939	0	0	0	0	0	0	0	0	0	0	0	43,939
Subtotal	148,863	0	0	0	0	0	0	0	0	0	0	0	148,863
NORTH BAY AREA													
Napa County Flood Control and Water Conservation District	2,878	1,000	0	0	0	0	0	0	0	0	0	0	3,878
Solano County Flood Control and Water Conservation District	0	0	0	0	30,000	0	0	0	0	0	1,000	0	31,000
Subtotal	2,878	1,000	0	0	30,000	0	0	0	0	0	1,000	0	34,878
SOUTH BAY AREA													
Alameda County Flood Control and Water Conservation District, Zone 7	149,125	3,000	0	0	0	0	0	0	0	0	0	0	152,125
Alameda County Water District	142,797	3,000	0	0	0	0	0	0	0	0	0	0	145,797
Santa Clara Valley Water District	12,780	0	0	0	0	0	0	0	0	0	0	0	12,780
Subtotal	304,702	6,000	0	0	0	0	0	0	0	0	0	0	310,702
SAN JOAQUIN VALLEY													
Devil's Den Water District	75,841	0	0	0	0	0	0	0	0	0	0	0	75,841
Dudley Ridge Water District	283,521	0	0	0	0	0	0	0	0	0	0	0	283,521
Empire West Side Irrigation District	6,359	0	0	0	0	0	0	0	0	0	0	0	6,359
Green Valley Water District ^c	3,842	0	0	0	0	0	0	0	0	0	0	0	3,842
Hacienda Water District	20,650	0	0	0	0	0	0	0	0	0	0	0	20,650
Kern County Water Agency	2,177,357	541,200	20,000	0	6,000	0	0	0	6,000	0	0	0	2,750,557
Oak Flat Water District	13,333	0	0	0	0	0	0	0	0	0	0	0	13,333
Tracy Golf and Country Club ^c	0	3,500	0	0	0	0	0	0	0	0	0	0	3,500
Tulare Lake Basin Water Storage District	254,982	0	0	0	0	0	0	0	0	0	0	0	254,982
Subtotal	2,835,885	544,700	20,000	0	6,000	0	0	0	6,000	0	0	0	3,412,585
SOUTHERN CALIFORNIA AREA													
Antelope Valley-East Kern Water Agency	195,678	15,000	0	4,000	3,000	0	5,000	0	5,000	10,000	0	0	237,678
Castaic Lake Water Agency	363,421	0	0	10,000	0	0	0	0	0	0	0	0	373,421
Coachella Valley County Water District	15,389	0	0	0	0	0	0	0	0	0	0	8,000	23,389
Crestline-Lake Arrowhead Water Agency	11,870	0	0	0	0	0	0	0	3,000	0	0	0	14,870
Desert Water Agency	25,443	0	0	0	0	0	0	0	0	0	0	12,000	37,443
Little Rock Creek Irrigation District	23,726	0	0	0	0	0	0	0	0	0	0	0	23,726
Mojave Water Agency	63,846	0	0	0	0	3,000	7,000	0	0	0	0	4,000	77,846
Palmdale Water District	24,232	0	4,000	0	0	0	0	0	0	0	0	0	28,232
San Bernardino Valley Municipal Water District	608,375	0	0	4,000	0	0	0	80,000	0	0	0	5,000	697,375
San Gabriel Valley Municipal Water District	138,959	0	0	0	0	0	0	0	0	0	0	0	138,959
San Geronio Pass Water Agency	67,947	0	0	0	0	0	0	0	0	0	0	0	67,947
The Metropolitan Water District of Southern California	4,531,845	10,000	10,000	0	0	20,000	0	0	0	0	20,000	0	4,591,845
Ventura County Flood Control District	106,558	0	0	0	8,000	5,000	0	0	0	0	0	0	119,558
Subtotal	6,177,289	25,000	14,000	18,000	11,000	28,000	12,000	80,000	8,000	10,000	20,000	29,000	6,432,289
TOTAL	9,469,617	576,700	34,000	18,000	47,000	28,000	12,000	80,000	14,000	10,000	21,000	29,000	10,339,317

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 a part of a water exchange agreement.

c) Not a project water supply contractor. District has contracted for surplus water.

TABLE B-9: CAPITAL COSTS OF

(in dollars unless otherwise indicated)

Sheet 1 of 2

TOTAL REQUIRED ADVANCE OF FUNDS										
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 (d)	Reconciliation of Advance Payments (e)	Interest Credit (f)	Reconciliation of Advance Payments and Interest Credit
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<u>THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA</u>										
8C	1968	188.00000	8,257.54768	0.02276705	597,582	13,605	2,000	11,605	1,667	13,272
8D	1968	188.00000	8,058.99281	0.02332798	13,942,413	325,248	113,000	212,248	30,109	242,357
9	1968	188.00000	7,268.54004	0.02586489	9,162,227	236,980	71,000	165,980	32,640	198,620
10A	1968	188.00000	7,117.74784	0.02641285	9,710,336	256,478	92,000	164,478	32,106	196,584
11B	1968	188.00000	6,313.19561	0.02977890	13,692,127	407,736	108,000	299,736	60,463	360,199
12D	1969	188.00000	5,929.95263	0.03170346	11,888,004	376,891	156,000	220,891	46,967	267,858
12E	1969	188.00000	5,907.22734	0.03182542	7,484,322	238,192	118,000	120,192	24,967	145,159
13B	1969	188.00000	5,341.25081	0.03519775	16,313,712	574,206	139,000	435,206	75,150	510,356
14A	1970	188.00000	5,008.96939	0.03753267	55,742,657	2,092,171	559,000	1,533,171	381,330	1,914,501
14B	1970	188.00000	4,888.19779	0.03845998	10,081,251	387,725	175,000	212,725	55,369	268,094
14C	1970	188.00000	4,700.84105	0.03999284	9,083,502	363,275	223,000	140,275	36,501	176,776
15A	1970	188.00000	4,597.94994	0.04088779	38,646,108	1,580,154	593,000	987,154	200,521	1,187,675
16A	1971	188.00000	4,387.78387	0.04284623	62,627,071	2,683,334	995,000	1,688,334	448,974	2,137,308
17E	1971	188.00000	4,136.09906	0.04545346	224,099,973	10,186,119	5,811,000	4,375,119	1,264,021	5,639,140
17F	1971	188.00000	4,126.98262	0.04555386	58,567,574	2,667,979	1,396,000	1,271,979	444,423	1,716,402
25	1971	787.00000	2,019.63064	0.38967521	30,989,289	12,075,758	6,823,844	5,251,914	1,368,192	6,620,106
28J	1973	-	-	-	-	4,378,641	4,378,641	0	0	0
<u>SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT</u>										
25	1971	21.00000	2,019.63064	0.01039794	31,022,106	322,566	182,156	140,410	36,579	176,989
<u>ANILOPE VALLEY-EAST KERN WATER AGENCY</u>										
29A	1971	19.00000	3,128.83908	0.00607254	29,976,119	182,032	85,000	97,032	22,045	119,077
29F	1971	19.00000	3,128.01611	0.00607414	13,582,587	82,503	24,000	58,503	15,039	73,542

a) Column 1 divided by Column 2.

b) Reach costs are compounded at the project interest rate of 4.342 percent per annum as follows:

Reaches	Period	Year costs compounded to
8C thru 17F	1952 - 1965	1965
25 (for MWD)	1952 - 1966	1966
25 (for SGVWMD)	1952 - 1967	1967
29A and 29F	1952 - 1967	1967

c) Column 3 multiplied by Column 4.

d) As shown in Table B-7, except, prior Incremental Costs for Reach 28J have been brought forward with interest at 4.457% to 1966 for purposes of repayment.

e) Column 5 less Column 6.

f) Interest on Advance Payments in excess of Incremental Costs is at 5.5 percent per annum, approximate average rate of interest earnings during the period.

g) Actual payments are shown for 1966 through 1973 with 1974 adjusted to reflect overpayments and underpayments without interest for prior years.

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 include Reconciliation of Advance Payments and Interest Credit (Column 9)

k) Advance payments in excess of incremental costs under the provisions of the contract reduce the capital cost component of the Transportation Charge.

REQUESTED EXCESS PEAKING CAPACITY

(in dollars)

Sheet 2 of 2

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	1974	
		(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	
<u>THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA</u>												
8C	1. Incremental Costs		1,000	1,000								2,000
	2. Advance Payments		6,803	6,802		-13,272						333
8D	1. Incremental Costs	4,000	45,000	64,000								113,000
	2. Advance Payments	11,513	129,524	184,211		-242,357						82,891
9	1. Incremental Costs	4,000	24,000	35,000	8,000							71,000
	2. Advance Payments	13,351	80,106	116,821	26,702		-198,620					38,360
10A	1. Incremental Costs	5,000	30,000	46,000	11,000							92,000
	2. Advance Payments	13,939	83,634	128,239	30,666		-196,584					59,894
11B	1. Incremental Costs	7,000	42,000	48,000	11,000							108,000
	2. Advance Payments	26,427	158,564	181,216	41,529		-360,199					47,537
12D	1. Incremental Costs	16,000	20,000	18,000	84,000	18,000						156,000
	2. Advance Payments	38,655	48,319	43,487	202,941	43,489		-267,858				109,033
12E	1. Incremental Costs	10,000	14,000	14,000	66,000	14,000						118,000
	2. Advance Payments	20,186	28,260	28,260	133,226	28,260		-145,159				93,033
13B	1. Incremental Costs	1,000	2,000	14,000	96,000	26,000						139,000
	2. Advance Payments	4,131	8,262	57,834	396,574	107,405		-510,356				63,850
14A	1. Incremental Costs	51,000	65,000	39,000	194,000	150,000	60,000					559,000
	2. Advance Payments	190,878	243,276	145,965	726,084	561,405	224,563		-1,914,501			177,670
14B	1. Incremental Costs	31,000	14,000	10,000	45,000	63,000	12,000					175,000
	2. Advance Payments	68,683	31,018	22,156	99,701	139,581	26,566		-268,094			119,631
14C	1. Incremental Costs	39,000	18,000	13,000	58,000	80,000	15,000					223,000
	2. Advance Payments	63,532	29,323	21,177	94,484	130,323	24,436		-176,776			186,499
15A	1. Incremental Costs	4,000	10,000	46,000	243,000	162,000	128,000					593,000
	2. Advance Payments	10,659	26,647	122,575	647,517	431,678	341,078		-1,187,675			392,479
16A	1. Incremental Costs	14,000	12,000	56,000	387,000	357,000	119,000	50,000				995,000
	2. Advance Payments	37,755	32,362	151,022	1,043,669	962,764	320,921	134,841		-2,137,308		546,026
17E	1. Incremental Costs	30,000	259,000	1,159,000	1,971,000	1,565,000	551,000	276,000				5,811,000
	2. Advance Payments	52,587	454,002	2,031,615	3,454,972	2,743,293	965,850	483,800		-5,639,140		4,546,979
17F	1. Incremental Costs	78,000	203,000	468,000	349,000	276,000	15,000	7,000				1,396,000
	2. Advance Payments	149,070	387,965	894,423	666,995	527,480	28,667	13,379		-1,716,402		951,577
25	1. Incremental Costs		932,118	2,289,874	1,910,988	1,211,656	479,208					6,823,844
	2. Advance Payments		1,649,515	4,052,256	3,381,764	2,144,197	848,026		-6,620,106			5,455,652
28J	1. Incremental Costs		304,612	13,706	296,668	65,966	230,169	1,209,586	2,017,134		4,900	4,378,641
	2. Advance Payments		304,612	13,706	296,668	65,966	230,169	1,209,586	2,017,134		235,900	4,378,641
Totals Unadjusted for past payments	1. Incremental Costs	294,000	1,063,612	2,976,824	6,109,542	4,687,954	2,341,825	2,021,794	2,017,134	235,900	4,900	21,753,485
	2. Advance Payments	701,366	2,052,677	5,799,024	11,913,984	8,867,779	3,551,064	1,766,259	-1,529,912	-15,877,056	4,900	17,250,085
Current Adjustments	1. Advance Payments and Adjustments - Amendment 2(g)	0	8,056,000	9,094,963	1,523,252	8,310,651	3,426,736	1,086,045	-4,244,807	-14,381,396 ^(k)		12,871,444
	2. Interest Credits - Amendment 2(h)									-1,532,433 ^(k)		-1,532,433
	3. Advance Payments and Adjustments - Amendment 5(g)	0	1,240,000	1,483,180	2,469,325	-927,035	1,729,160	3,215,258	2,967,475	1,690,000	-9,488,722	4,378,641
	4. Interest Credits - Amendment 5(i)										-2,721,803	-2,721,803
	5. Net Required Advance of Funds	0	9,296,000	10,578,143	3,992,577	7,383,616	5,155,896	4,301,303	-1,277,332	-14,223,829	-12,210,525 ^(k)	12,995,849
<u>SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT</u>												
25	1. Incremental Costs	0	0	24,882	61,126	51,012	32,344	12,792				182,156
	2. Advance Payments	0	0	44,062	108,243	90,333	57,275	22,653		-176,989		145,577
Totals Unadjusted for past payments	1. Incremental Costs	0	0	24,882	61,126	51,012	32,344	12,792				182,156
	2. Advance Payments	0	0	44,062	108,243	90,333	57,275	22,653		-176,989		145,577
Current Adjustments	1. Advance Payments and Adjustments (g)	0	0	0	184,422	49,052	44,911	61,588	-20,263	-174,133		145,577
	2. Interest Credit									-6,332		-6,332
	3. Net Required Advance of Funds	0	0	0	184,422	49,052	44,911	61,588	-20,263 ^(k)	-180,465 ^(k)		139,245
<u>ANTELOPE VALLEY - EAST KERN WATER AGENCY</u>												
29A	1. Incremental Costs	0	0	8,000	14,000	26,000	26,000	11,000				85,000
	2. Advance Payments	0	0	17,132	29,982	55,680	55,680	23,558		-119,077		62,955
29F	1. Incremental Costs	0	0	3,000	4,000	14,000	2,000	1,000				24,000
	2. Advance Payments	0	0	10,313	13,751	48,127	6,875	3,437		-73,542		8,961
Totals Unadjusted for past payments	1. Incremental Costs	0	0	11,000	18,000	40,000	28,000	12,000				109,000
	2. Advance Payments	0	0	27,445	43,733	103,807	62,555	26,995		-192,619		71,916
Current Adjustments	1. Advance Payments and Adjustments (g)	0	0	0	85,495	52,625	101,648	34,062	-12,794	-189,120		71,916
	2. Interest Credit									-16,234		-16,234
	3. Net Required Advance of Funds	0	0	0	85,495	52,625	101,648	34,062	-12,794	-205,354 ^(k)		55,682

TABLE B-10: CAPITAL COSTS OF EACH AQUEDUCT REACH TO BE REIM-

(in dollars)

Sheet 1 of 4

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	57
1953	0	0	0	0	0	477	166	144	297
1954	0	0	0	0	0	1,466	508	437	959
1955	0	0	0	0	0	1,944	674	560	1,266
1956	0	0	0	0	0	18,789	6,515	5,090	12,545
1957	0	13,290	3,391	9,953	26,634	45,090	15,639	12,285	33,218
1958	2	19,202	5,011	25,798	50,011	195,985	80,961	7,714	21,930
1959	14	7,517	2,118	17,653	27,288	496,140	148,516	24,945	17,118
1960	28	8,797	4,292	4,838	17,927	1,131,434	67,350	71,780	68,028
1961	9	1,531	10,312	2,515	14,358	3,273,225	180,594	307,878	74,380
1962	32	217	1,751-	414	1,120-	1,548,884	204,048	695,445	35,102
1963	51	3,499	847-	1,333	3,985	480,609	69,029	2,283,970	206,075
1964	7,791	41,094	12,313	22,363	75,770	2,546,829	15,613	181,556	263,108
1965	3,139	74,481	18,268	170,958	263,707	848,677	158,672	91,990	457,360
1966	-40	62,152	13,534	440,322	516,008	1,133,874	179,532	179,772	1,749,368
1967	47	51,810	12,614	1,553,480	1,617,904	589,888	48,174	290,472	3,494,966
1968	51,572	74,088	19,146	828,058	921,292	879,309	8,758	75,526	2,925,165
1969	234,242	67,464	23,213	48,016	138,693	497,312	14,958	10,586	897,945
1970	16,233	61,933	41,942	11,065	114,940	64,000	4,764	12,400	158,452
1971	27,204	21,573	28,768	9,193	59,534	29,889	5,407	6,132	22,362
1972	9	16,136	11,775	10,400	38,311	29,858	1,243	3,604	27,019
1973	37	18,382	28,356	40,089	86,827	23,998	3,988	6,127	13,004
1974	60	24,478	28,604	96,112	149,194	17,758	1,143	1,863	66,500
1975	0	91,257	157,122	66,000	314,379	19,000	2,000	5,000	20,000
1976	0	406,784	372,547	101,000	880,331	9,000	2,000	3,000	8,000
1977	0	818,310	404,230	179,000	1,401,540	4,000	1,000	2,000	2,000
1978	0	3,485,843	1,615,678	702,000	5,803,521	2,000	0	0	1,000
1979	0	5,676,423	1,977,092	1,955,000	9,608,515	1,000	0	0	1,000
1980	0	351,000	19,000	134,000	504,000	1,000	0	0	0
1981	0	59,000	12,000	1,000	72,000	1,000	0	0	0
1982	0	21,000	1,000	1,000	23,000	1,000	0	0	0
1983	0	19,000	0	0	19,000	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	340,430	11,496,261	4,819,728	6,431,560	22,747,549	13,893,532	1,221,286	4,280,306	10,578,224

Calendar Year	SOUTH BAY AQUEDUCT (continued)					CALIFORNIA AQUEDUCT			
	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	66	72	132	496	3,973	3,303	1,505	8,781
1953	38	327	336	640	2,425	10,458	8,653	3,979	23,090
1954	123	1,005	1,003	1,954	7,455	13,690	11,243	5,199	30,132
1955	160	1,293	1,149	2,454	9,500	7,326	5,990	2,771	16,087
1956	1,559	11,959	11,043	28,372	95,872	9,242	5,177	2,403	16,822
1957	3,659	28,675	27,385	563,114	729,065	11,212	5,637	2,615	19,464
1958	2,243	17,872	17,385	560,904	904,994	18,487	15,618	7,252	41,357
1959	357	3,200	3,568	149,874	843,718	122,779	98,971	44,817	266,567
1960	1,102	2,944	4,498	359,749	1,706,885	190,586	102,453	49,051	342,090
1961	4,725	18,318	22,757	1,384-	3,880,493	154,285	194,582	42,982	391,849
1962	17,295	160,939	178,242	209,042	3,048,997	614,763	493,221	168,968	1,276,952
1963	265,403	1,250,335	939,794	129,674	5,624,889	2,003,730	1,529,901	684,862	4,218,493
1964	100,572	1,716,241	2,327,673	2,942,075	10,093,667	4,696,125	2,373,583	700,388	7,770,096
1965	42,587	369,460	638,008	1,926,295	4,533,049	5,900,304	6,899,462	2,983,176	15,782,942
1966	19,106	40,813	144,805	804,537	4,251,807	8,587,674	14,156,538	5,689,358	28,433,570
1967	41,677-	137,413	146,849	377,759	5,043,844	9,745,811	10,707,468	6,665,774	27,119,053
1968	84,019	35-	66,369	243,342	4,282,453	6,432,469	886,837	1,299,976	8,619,282
1969	4,537	12,626	163,094	36,760	1,637,818	3,560,336	775,455	434,253	4,770,044
1970	2,518	7,118	20,348	14,333-	255,267	2,254,601	143,037	109,726	2,507,364
1971	4,210	7,092	17,790	39,807	132,689	102,179	211,170	65,269	378,618
1972	1,050	318	4,905	32,720	100,717	160,116	41,904	6,534	208,554
1973	313	1,455	7,696	9,956	66,537	108,724	25,758	22,156	156,638
1974	482	6,181	30,791	11,786	136,504	184,426	17,462	45,469	247,357
1975	1,000	3,000	4,000	8,000	62,000	360,753	38,150	56,891	455,794
1976	1,000	2,000	3,000	5,000	33,000	891,507	76,300	24,094	991,901
1977	1,000	1,000	1,000	2,000	14,000	1,702,029	8,032	5,355	1,715,416
1978	0	0	0	0	3,000	1,629,076	2,677	2,008	1,633,761
1979	0	0	0	0	2,000	1,552,776	1,339	669	1,554,784
1980	0	0	0	0	1,000	776,388	669	669	777,726
1981	0	0	0	0	1,000	578,945	2,677	2,008	583,630
1982	0	0	0	0	1,000	1,106,353	2,008	1,338	1,109,699
1983	0	0	0	0	0	1,487,854	669	669	1,489,192
1984	0	0	0	0	0	1,513,957	0	0	1,513,957
1985	0	0	0	0	0	595,008	2,007	2,007	599,022
TOTAL	517,389	3,801,615	4,783,560	8,430,229	47,506,141	57,087,942	38,847,951	19,134,191	115,070,084

BURSED 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	2,556	3,641	4,131	1,050	1,296	12,674	11	720	1,165
1953	7,164	10,410	11,380	2,945	3,631	35,530	39	2,679	4,370
1954	8,895	12,875	14,176	3,655	4,509	44,110	43	2,717	4,215
1955	4,362	6,215	7,048	1,793	2,210	21,628	18	876	1,166
1956	3,959	5,640	6,400	1,627	2,007	19,633	70	3,628	4,809
1957	4,317	6,149	6,978	1,773	2,187	21,404	204	10,523	13,947
1958	14,868	24,770	28,263	7,074	9,172	84,147	352	17,944	23,606
1959	27,026	46,111	49,719	12,343	22,556	157,755	387	19,154	24,361
1960	806,838	49,818	46,377	13,836	39,984	956,853	1,686	45,376	26,190
1961	184,107	300,737	175,260	39,393	71,956	771,453	4,060	77,839	31,709
1962	538,381	565,930	260,035	23,108	27,796	1,415,250	6,305	163,922	64,113
1963	3,114,512	2,098,665	2,570,988	66,866	30,408	7,881,439	6,477	168,100	83,872
1964	4,367,581	5,082,999	1,085,026	164,733	258,107	10,958,446	4,672	96,021	121,552
1965	3,883,923	5,863,219	2,953,670	1,100,010	684,731	14,485,553	16,237	504,989	589,163
1966	2,428,545	8,787,953	5,934,114	4,347,163	7,926,579	29,424,354	208,175	5,293,707	2,612,320
1967	34,136	2,161,729	7,148,277	226,544	6,889,253	16,391,667	219,631	5,069,871	3,452,881
1968	128,268	441,125	1,010,683	182,289	480,964	2,243,329	58,859	642,090	974,235
1969	1,937	162,369	108,263	108,303	167,978	548,850	59,442	133,216	88,094
1970	37,688	10,419	113,886	872,240	1,278,697	547,612	15,754	126,691	88,512
1971	105,215	247,933	318,247	26,290	351,835	1,049,520	7,378	40,895	24,986
1972	18,717	101,825	11,085	10,421	388,934	530,982	9,251	19,019	18,406
1973	8,615	85,095	8,517	2,611	184,020	288,858	3,542	16,725	15,357
1974	13,043	89,435	26,915	9,812	72,142	211,347	5,809	20,823	9,573
1975	11,329	61,110	85,360	37,830	106,700	302,329	11,640	64,990	60,140
1976	6,373	16,490	9,700	4,850	27,160	64,573	7,760	119,310	84,390
1977	4,956	11,640	7,760	4,850	5,820	35,026	4,850	24,250	15,520
1978	2,832	7,760	3,880	2,910	2,910	20,292	1,940	12,610	2,910
1979	708	4,850	970	0	970	7,498	970	3,880	2,910
1980	708	2,910	970	970	970	6,528	2,910	12,610	8,730
1981	2,124	52,380	221,160	98,940	123,190	497,794	3,880	15,520	10,670
1982	2,124	149,380	657,660	292,940	365,690	1,467,794	1,940	2,910	1,940
1983	708	412,250	1,484,100	643,110	810,920	3,351,088	0	970	970
1984	0	1,287,190	2,731,520	1,070,880	1,399,710	6,489,300	0	0	0
1985	2,124	1,573,340	2,782,930	1,037,900	1,384,190	6,780,484	2,910	2,910	2,910
TOTAL	15,710,367	29,723,524	29,885,448	8,676,579	23,129,182	107,125,100	667,202	12,737,485	8,469,692

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	2,148	1,065	1,761	514	174	183	1,872
1953	2,696	5,019	7,983	3,962	6,548	1,885	640	671	6,972
1954	2,962	5,098	8,108	4,025	6,650	2,071	702	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	1,138	1,197	9,068
1957	13,947	19,811	31,513	15,640	25,845	11,743	3,305	3,471	26,291
1958	23,611	44,324	72,582	36,096	56,648	35,649	13,130	12,641	54,985
1959	24,399	63,949	103,252	51,436	82,211	64,587	22,748	22,612	76,192
1960	48,965	68,328	81,077	41,290	65,558	82,876	23,368	22,509	74,389
1961	70,432	47,345	90,747	52,900	28,759	249,532	93,867	67,410	154,394
1962	59,314	57,608	71,068	46,086	50,513	214,097	63,230	48,944	137,442
1963	54,271	93,171	178,837	89,011	69,631	434,296	104,621	81,770	102,388
1964	127,778	342,791	300,624	179,650	88,678	1,120,363	701,373	498,804	582,594
1965	649,266	1,082,744	1,554,131	1,066,565	200,023	3,422,604	1,666,933	1,442,803	481,842
1966	2,903,581	3,784,766	672,241	463,350	424,071	4,954,975	976,704	730,059	1,850,395
1967	3,763,914	4,734,568	1,937,914	1,278,399	1,273,250	2,818,112	519,117	402,683	1,730,174
1968	1,063,622	1,354,582	4,805,537	3,190,695	8,527,246	10,379,688	1,334,813	1,404,036	7,556,937
1969	150,358	238,946	726,533	540,630	3,815,167	15,477,328	1,199,776	1,107,665	9,762,974
1970	82,100	84,339	75,356	76,806	333,303	11,394,066	1,008,773	755,947	9,089,186
1971	17,676	44,365	47,020	45,079	351,235	3,036,475	194,142	38,901	3,418,552
1972	22,665	32,998	47,144	26,698	85,719	1,426,983	102,367	21,182	1,033,637
1973	16,849	18,831	11,639	18,615	26,893	696,647	15,225	11,475	824,194
1974	16,722	15,469	18,738	26,852	31,491	550,407	21,043	19,653	813,976
1975	67,900	49,470	40,740	46,560	62,080	337,560	56,260	43,650	359,870
1976	92,150	56,260	79,540	63,050	77,600	292,940	61,110	50,440	270,630
1977	17,460	9,700	16,490	13,580	15,520	51,410	12,610	10,670	33,950
1978	2,910	2,910	2,910	2,910	2,910	7,760	2,910	2,910	5,820
1979	1,940	1,940	1,940	1,940	3,880	14,550	1,940	1,940	10,670
1980	8,730	6,790	6,790	7,760	12,610	49,470	7,760	6,790	42,680
1981	10,670	7,760	8,730	8,730	15,520	54,320	8,730	7,760	50,440
1982	1,940	1,940	1,940	1,940	1,940	3,880	1,940	1,940	2,910
1983	970	0	0	970	970	970	970	0	970
1984	0	0	0	0	0	0	0	0	0
1985	2,910	2,910	2,910	2,910	2,910	2,910	2,910	2,910	2,910
TOTAL	9,329,409	12,288,563	11,019,673	7,411,896	15,758,205	57,194,968	8,224,602	6,824,051	38,578,493

TABLE B-10: CAPITAL COSTS OF EACH AQUEDUCT REACH TO BE REIM-

(in dollars)

Sheet 3 of 4

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	4,208	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	61,342	45,716	20,623	66,339	17,118	6,360	0	9,779
1955	5,346	19,851	25,776	11,706	37,482	5,773	2,145	0	2,602
1956	22,125	82,341	41,107	18,284	59,391	6,210	2,307	0	2,511
1957	64,157	240,397	114,072	50,737	164,809	22,988	8,542	0	9,293
1958	147,249	538,817	167,463	74,184	241,647	39,003	14,570	123	15,832
1959	222,341	777,629	149,087	59,686	208,773	39,725	24,122	1,102	24,281
1960	210,900	792,512	202,174	46,765	248,939	21,962	26,837	5,318	41,681
1961	211,997	1,180,991	398,337	87,859	486,196	35,834	36,109	2,230	34,259
1962	176,121	1,158,763	363,114	84,894	448,008	70,001	272,918	1,841	9,780
1963	492,363	1,958,208	1,215,368	127,947	1,343,315	27,851	423,004	4,137	19,987
1964	1,827,384	5,992,284	1,906,861	796,777	2,703,638	97,673	724,313	8,564	43,644
1965	1,275,923	13,953,223	2,590,540	2,379,527	4,970,067	123,020	731,898	9,156	109,079
1966	2,918,122	27,792,466	5,411,368	9,645,762	15,057,130	373,247	1,707,890	13,365	156,167
1967	3,476,324	30,676,838	26,243,757	12,553,606	38,797,363	1,339,350	903,537	24,086	669,568
1968	7,545,756	48,838,096	32,890,464	7,542,470	40,432,934	138,221	7,313,211	71,313	1,963,127
1969	13,300,897	46,601,026	40,794,060	7,066,260	47,860,320	208,097	2,510,341	6,950	6,104,857
1970	14,268,798	37,399,631	37,178,234	7,175,397	44,353,631	2,148,574	1,146,831	6,253	3,687,003
1971	8,207,666	15,474,370	21,110,042	7,024,906	28,134,948	1,537,382	282,188	7,000	1,158,572
1972	3,130,690	5,976,759	10,464,177	37,091	10,501,268	123,511	393,800	4,152	452,240
1973	1,519,213	3,195,205	3,198,410	39,011	3,237,421	24,348	78,480	3,529	107,016
1974	1,082,871	2,633,427	5,428,449	265,866	5,694,315	32,919	66,213	3,008	136,251
1975	386,254	1,587,114	3,836,350	494,700	4,331,050	44,620	124,160	6,127	97,000
1976	347,260	1,602,440	797,340	31,040	828,380	36,860	99,910	3,046	57,230
1977	89,240	315,250	330,770	4,850	335,620	65,960	11,640	4,090	15,520
1978	8,730	60,140	216,310	1,940	218,250	249,290	2,910	2,041	2,910
1979	18,430	66,930	946,720	0	946,720	1,649,000	970	0	970
1980	79,540	253,170	3,816,950	0	3,816,950	2,250,400	970	0	970
1981	105,730	308,460	6,535,860	1,940	6,537,800	2,897,390	1,940	2,037	1,940
1982	3,880	31,040	7,985,040	1,940	7,986,980	2,394,930	1,940	343,517	1,940
1983	970	8,730	5,738,520	0	5,738,520	260,930	970	980,909	970
1984	0	0	2,042,820	0	2,042,820	0	0	7,388,388	0
1985	2,910	37,830	2,910	2,910	5,820	2,910	2,910	8,462,247	2,910
TOTAL	61,187,683	249,691,922	222,228,119	55,666,582	277,894,701	16,302,276	16,930,318	17,364,529	14,949,976

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	2,133	2,481	21,997	3,429	5,759
1953	3,498	18,356	73	5,917	7,083	7,651	67,821	10,570	17,758
1954	4,678	24,232	380	8,805	8,073	10,100	89,525	13,953	23,441
1955	2,275	8,174	185	2,833	2,803	3,408	30,198	4,708	7,908
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	31,460
1958	17,234	55,104	1,438	19,254	19,108	23,275	204,941	31,889	53,508
1959	19,137	58,349	1,896	26,149	20,954	46,952	262,667	40,452	59,802
1960	38,243	45,141	11,346	140,662	17,640	112,950	461,780	67,527	96,373
1961	36,714	21,443	14,263	216,839	9,741	361,870	769,302	27,643	57,974
1962	10,301	8,038	3,969	166,204	4,422	278,737	826,211	10,194	37,079
1963	22,965	17,744	9,302	177,063	7,117	274,329	983,499	31,475	116,731
1964	71,172	32,991	23,224	264,057	7,671	253,121	1,526,430	71,823	214,375
1965	349,082	90,072	66,848	833,121	12,953	637,993	2,963,222	287,316	219,277
1966	1,338,273	156,462	182,015	1,731,956	32,421	1,031,628	6,723,424	427,254	375,570
1967	1,894,233	499,436	382,462	3,160,741	64,955	2,372,622	11,310,990	3,308,952	668,237
1968	2,354,471	1,168,849	1,485,527	4,407,088	111,915	2,737,511	21,751,233	7,865,230	1,323,492
1969	5,767,409	2,421,197	1,709,359	7,757,622	272,312	11,104,857	37,863,001	6,523,868	1,834,296
1970	5,393,118	3,295,796	2,218,922	23,839,962	1,278,515	17,267,896	60,282,870	1,698,218	7,441,165
1971	1,151,226	842,811	446,534	17,349,568	1,995,745	5,571,812	30,342,838	911,296	10,066,284
1972	621,119	483,037	323,566	4,352,904	42,932	797,447	7,594,708	1,378,321	5,566,666
1973	77,462	53,838	27,923	1,700,387	27,312	4,383,077	6,427,526	141,949	1,857,266
1974	86,650	80,246	29,764	5,739,000	35,259	776,810	6,986,120	72,196	1,990,448
1975	287,120	78,570	39,770	6,367,080	36,860	654,750	7,736,057	26,190	4,172,940
1976	317,190	41,710	26,190	2,730,550	25,220	55,290	3,393,196	12,610	866,210
1977	40,740	12,610	6,790	727,500	4,850	25,220	914,920	5,820	90,210
1978	2,910	2,910	2,910	10,670	1,940	12,610	291,101	1,940	5,820
1979	970	0	0	5,820	9,700	4,850	1,672,280	0	2,910
1980	970	970	970	4,850	0	970	2,261,070	0	1,940
1981	1,940	1,940	1,940	4,850	1,940	2,910	2,918,827	1,940	3,880
1982	1,940	1,940	1,940	4,850	1,940	2,910	2,757,847	1,940	3,880
1983	970	0	0	1,940	0	970	1,247,659	0	970
1984	0	0	0	0	0	0	7,388,388	0	0
1985	2,910	2,910	2,910	2,910	2,910	2,910	8,488,437	2,910	2,910
TOTAL	19,930,677	9,572,136	6,967,649	81,777,276	4,080,745	48,837,135	236,712,717	23,005,398	37,225,039

BURSED 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 ^(a)	Reach 28H	Reach 28J	Subtotal	Reach 29A	Reach 29 F	Reach 29O	Reach 29H	Reach 29J	
	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)	(63)	
1952	4,922	4,170	3,106	21,386	3,007	139	180	472	569	
1953	16,026	11,842	9,748	65,944	9,352	353	244	1,803	1,731	
1954	18,531	18,618	12,507	87,050	7,601	1,234	2,293	2,418	4,282	
1955	6,226	6,255	4,269	29,366	1,047	601	1,117	1,178	2,086	
1956	6,683	6,713	4,609	31,564	502	718	1,332	1,405	2,488	
1957	24,732	24,848	17,062	116,828	1,860	2,656	4,931	5,202	9,209	
1958	42,012	42,208	29,286	198,903	3,350	4,647	8,963	9,133	16,301	
1959	47,056	47,262	45,602	240,174	8,181	9,413	19,969	18,766	36,600	
1960	60,789	60,219	122,368	407,276	22,374	15,416	35,426	30,614	71,741	
1961	32,784	34,968	722,784	876,153	22,402	11,955	21,291	20,167	40,558	
1962	21,793	20,901	61,489	151,456	41,038	28,934	88,985	59,609	111,872	
1963	41,323	38,395	1,870,891	2,098,815	83,637	58,381	159,698	108,979	216,452	
1964	92,267	46,740	108,411	533,616	151,017	70,018	214,641	148,399	300,398	
1965	99,128	78,412	160,517	844,650	361,285	81,618	415,345	131,709	606,313	
1966	172,200	315,622	611,038	1,901,684	467,272	216,285	1,269,164	354,091	3,313,737	
1967	228,561	294,699	1,213,640	5,714,089	1,601,281	906,373	1,211,551	911,392	31,788,594	
1968	811,744	358,027	833,127	11,191,620	3,988,476	398,243	407,623	1,136,791	36,798,103	
1969	1,103,942	1,527,558	1,133,096	12,122,760	6,731,508	347,855	710,031	1,213,793	8,684,256	
1970	1,850,826	1,062,831	3,980,487	16,033,527	8,097,189	6,268,799	2,681,306	3,070,790	8,110,197	
1971	16,531,252	6,606,690	12,474,039	46,589,561	4,360,503	3,912,691	1,156,821	8,476,393	5,822,585	
1972	1,467,273	12,393,490	22,141,143	42,946,893	1,923,007	453,209	1,016,448	19,323,960	23,705,118	
1973	215,765	262,599	3,846,567	6,324,146	797,779	191,840	443,356	9,753,325	1,845,487	
1974	165,426	117,902	2,072,695	4,418,667	554,250	163,585	175,026	4,166,146	3,588,393	
1975	208,550	148,410	2,058,683	6,614,773	411,280	306,520	1,517,080	499,446	1,063,629	
1976	47,530	34,920	609,199	1,570,469	440,380	358,900	2,458,950	181,711	233,770	
1977	7,760	9,700	66,930	180,420	126,100	440,380	8,948,250	810,920	20,370	
1978	2,910	1,940	6,790	19,400	5,820	3,049,680	22,540,860	18,430	13,580	
1979	970	0	2,910	6,790	2,910	4,792,770	23,451,690	7,760	10,670	
1980	970	0	970	3,880	2,910	1,082,520	17,439,630	970	5,820	
1981	1,940	1,940	2,910	12,610	3,880	2,910	2,419,180	2,910	2,910	
1982	1,940	1,940	2,910	12,610	3,880	2,910	279,360	2,910	2,910	
1983	970	0	970	2,910	970	970	970	970	970	
1984	0	0	0	0	0	0	0	0	0	
1985	2,910	2,910	2,910	14,550	2,910	2,910	2,910	2,910	2,910	
TOTAL	23,337,711	23,582,729	54,233,663	161,384,540	30,238,958	23,185,433	89,104,621	50,475,472	71,851,587	

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)
1952	1,448	5,815	0	0	0	0	0	100,452	100,948
1953	4,470	17,953	0	0	0	0	0	315,038	317,463
1954	5,909	23,737	0	0	0	0	0	402,235	409,690
1955	1,999	8,028	0	0	0	0	0	162,640	172,140
1956	2,136	8,581	0	0	0	0	0	250,795	346,667
1957	7,907	31,765	0	0	0	0	0	714,836	1,470,535
1958	14,331	56,725	0	0	0	0	0	1,366,537	2,321,544
1959	45,653	138,582	28,046	49,114	7,441	8,236	92,837	2,144,984	3,016,004
1960	87,117	262,688	34,404	70,450	8,507	14,265	127,626	3,599,764	5,324,604
1961	118,285	234,658	13,774	17,752	1,492	3,898	36,916	4,747,518	8,642,378
1962	354,005	684,443	10,121	7,798	524	1,689	20,132	5,981,215	9,029,124
1963	436,079	1,063,226	21,299	15,244	885	2,950	40,378	19,587,373	25,216,298
1964	1,414,632	2,299,105	316,415	28,125	1,694	5,647	351,881	32,135,496	42,312,724
1965	3,483,482	5,079,752	746,007	37,787	2,126	7,068	792,988	58,872,397	63,672,292
1966	9,639,191	15,259,740	2,249,393	38,140	1,745	5,772	2,295,050	126,887,418	131,655,193
1967	18,260,554	54,679,745	6,310,980	42,215	1,913	6,244	6,361,352	191,051,097	197,712,892
1968	16,893,562	59,622,798	2,711,896	34,698	1,337	4,288	2,752,219	195,451,511	200,706,828
1969	17,880,219	35,567,662	424,151	30,541	930	2,936	458,558	185,792,221	187,802,974
1970	23,198,170	51,426,451	271,652	27,850	874	2,825	303,201	212,854,287	213,240,727
1971	17,552,815	41,281,808	164,575	35,466	1,342	3,857	205,240	163,456,903	163,676,330
1972	3,918,655	2,930,161	131,916	19,511	626	1,950	154,003	70,843,328	70,982,365
1973	13,398,833	26,434,620	183,232	19,812	832	2,686	206,562	46,270,976	46,424,377
1974	2,697,403	4,168,017	148,056	19,156	510	1,627	169,349	24,528,599	24,814,357
1975	1,980,347	5,778,302	80,000	41,835	5,128	10,340	137,303	26,942,722	27,319,101
1976	1,262,578	4,936,289	99,000	32,490	4,091	6,183	141,764	13,529,012	14,442,343
1977	121,537	10,467,557	777,000	1,345,303	148,123	250,666	2,525,092		

TABLE B-11: MINIMUM OMP&R COSTS OF EACH AQUEDUCT REACH TO BE

(in dollars)

Sheet 1 of 8

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)
1960	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	37,398	5,526	0	0
1963	0	0	0	0	0	146,058	20,430	0	0
1964	0	0	0	0	0	146,899	15,217	18,951	0
1965	0	0	0	0	0	256,478	45,296	45,964	0
1966	0	0	0	0	0	263,792	22,859	62,845	0
1967	0	0	0	0	0	438,916	32,847	108,422	0
1968	0	0	0	0	0	402,671	42,993	65,628	0
1969	0	0	0	76,239	76,239	464,659	44,873	71,682	0
1970	0	0	0	88,854	88,854	367,248	42,698	62,466	63,880
1971	58	0	0	34,076	34,076	343,758	23,584	48,064	31,775
1972	40	0	0	32,991	32,991	334,807	28,560	54,551	93,408
1973	1	0	0	29,509	29,509	372,621	34,042	55,941	20,846
1974	145	0	0	41,326	41,326	439,800	50,116	74,078	50,526
1975	157	0	0	37,247	37,247	510,121	59,469	87,625	136,379
1976	157	0	0	41,989	41,989	513,803	59,645	87,883	136,799
1977	158	0	0	45,919	45,919	514,075	59,697	88,360	136,966
1978	156	0	0	49,312	49,312	512,589	59,573	88,354	136,780
1979	155	0	0	48,324	48,324	510,815	59,489	88,524	136,651
1980	155	127,135	26,688	39,554	193,377	510,070	59,337	88,171	136,237
1981	156	123,786	26,436	37,737	187,959	510,820	59,434	88,317	136,459
1982	157	124,589	26,578	38,016	189,183	515,199	59,901	88,832	137,489
1983	158	128,991	27,496	40,008	196,495	527,740	63,927	102,270	148,698
1984	158	129,659	27,484	40,903	198,046	526,984	63,632	101,673	148,212
1985	156	129,421	27,368	40,931	197,720	527,470	63,739	101,933	148,486
1986	158	128,384	27,299	40,001	195,684	527,427	63,632	101,295	147,910
1987	157	128,237	27,223	40,025	195,485	527,856	63,741	101,562	148,116
1988	157	128,136	27,272	39,908	195,316	525,745	63,228	100,295	146,754
1989	157	127,895	27,175	39,908	194,978	525,803	63,306	100,557	146,836
1990	157	128,125	27,267	39,908	195,300	524,731	63,209	100,232	146,400
1991	157	128,256	27,320	39,908	195,484	525,629	63,074	99,773	145,882
1992	157	128,828	27,459	40,025	196,312	527,444	63,191	99,709	145,959
1993	157	128,722	27,385	40,068	196,175	527,131	63,239	99,699	145,840
1994	157	128,830	27,428	40,068	196,326	527,106	63,205	99,588	145,960
1995	158	128,701	27,398	40,038	196,137	526,657	63,186	99,640	145,892
1996	157	128,038	27,238	39,899	195,175	524,462	63,031	99,663	145,532
1997	157	128,142	27,280	39,899	195,321	524,346	62,876	99,141	145,104
1998	156	127,717	27,169	39,822	194,708	522,987	62,594	98,502	144,395
1999	156	127,707	27,165	39,822	194,694	523,073	62,709	98,887	144,607
2000	156	127,810	27,206	39,822	194,838	522,980	62,584	98,469	144,273
2001	156	127,678	27,154	39,822	194,654	522,919	62,504	98,194	144,016
2002	156	127,638	27,137	39,822	194,597	522,901	62,480	98,115	143,940
2003	156	127,619	27,130	39,822	194,571	523,000	62,612	98,561	144,197
2004	156	127,668	27,149	39,822	194,639	523,031	62,652	98,697	144,275
2005	156	128,459	27,466	39,822	195,747	522,862	62,427	97,938	143,647
2006	156	128,545	27,500	39,822	195,867	522,945	62,538	98,311	143,917
2007	156	128,435	27,456	39,822	195,713	522,883	62,455	98,033	143,703
2008	156	128,412	27,447	39,822	195,681	522,880	62,450	98,015	143,674
2009	156	128,347	27,421	39,822	195,590	522,912	62,492	98,158	143,761
2010	156	128,410	27,446	39,822	195,678	522,901	62,479	98,112	143,686
2011	156	128,423	27,451	39,822	195,696	522,889	62,465	98,063	143,676
2012	156	128,414	27,448	39,822	195,684	522,893	62,468	98,075	143,684
2013	156	128,365	27,428	39,822	195,615	522,914	62,498	98,174	143,755
2014	156	128,336	27,417	39,822	195,575	522,936	62,526	98,273	143,826
2015	156	128,349	27,422	39,822	195,593	522,897	62,474	98,097	143,700
2016	156	128,301	27,403	39,822	195,526	522,912	62,494	98,161	143,745
2017	156	128,334	27,416	39,822	195,572	522,879	62,450	98,013	143,640
2018	156	128,287	27,397	39,822	195,506	522,894	62,471	98,084	143,691
2019	156	128,221	27,371	39,822	195,414	522,946	62,539	98,315	143,854
2020(a)	156	128,621	27,531	39,822	195,974	522,897	62,474	98,093	143,699

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

REIMBURSED THRU MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Sheet 2 of 8

Calendar Year	SOUTH BAY AQUEDUCT (continued)					CALIFORNIA AQUEDUCT			
	Reach 6	Reach 7	Reach 8	Reach 9	Total	NORTH SAN JOAQUIN DIVISION			
						Reach 1	Reach 2A	Reach 2B	Subtotal
	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1960	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	42,924	0	0	0	0
1963	0	0	0	0	166,488	0	0	0	0
1964	0	0	0	0	181,067	0	0	0	0
1965	2,624	6,449	4,673	12,717	374,201	0	0	0	0
1966	4,678	10,186	9,157	24,884	398,401	0	0	0	0
1967	2,734	7,735	10,909	34,577	636,140	0	0	0	0
1968	2,531	7,809	9,993	39,424	571,049	966,882	220,090	99,569	1,286,541
1969	2,383	5,548	8,263	35,713	633,121	903,817	290,709	181,377	1,375,903
1970	1,471	2,235	6,569	26,474	568,571	938,900	295,947	146,296	1,381,143
1971	2,155	9,160	9,607	29,415	497,518	1,064,631	246,573	109,876	1,421,080
1972	4,078	10,044	11,733	43,114	580,295	1,073,170	223,963	106,739	1,403,872
1973	2,973	7,285	4,557	42,144	540,409	1,125,845	217,260	98,454	1,441,559
1974	5,701	7,175	5,921	44,948	678,265	1,247,274	236,472	115,170	1,598,916
1975	5,254	14,827	9,757	52,039	875,471	1,189,361	276,155	131,522	1,597,038
1976	5,274	14,835	9,753	51,665	879,657	1,234,206	278,915	131,543	1,644,664
1977	5,269	14,776	9,653	51,486	880,282	1,226,843	280,714	132,361	1,639,918
1978	5,208	14,686	9,578	51,234	878,002	1,220,217	277,942	130,960	1,629,119
1979	5,188	14,628	9,540	51,034	875,869	1,214,413	282,641	133,420	1,630,474
1980	5,179	14,607	9,526	50,958	874,085	1,213,134	275,978	130,012	1,619,124
1981	5,188	14,630	9,541	51,039	875,428	1,222,013	276,879	130,456	1,629,348
1982	5,237	14,770	9,631	51,526	882,585	1,228,297	279,315	131,585	1,639,197
1983	5,244	14,788	9,646	51,594	923,907	1,273,842	305,220	144,949	1,724,011
1984	5,226	14,735	9,610	51,409	921,481	1,274,033	291,428	137,864	1,703,325
1985	5,230	14,750	9,619	51,458	922,685	1,267,343	298,682	141,610	1,707,635
1986	5,243	14,786	9,642	51,583	921,518	1,265,497	297,139	140,782	1,703,418
1987	5,248	14,798	9,651	51,624	922,596	1,267,050	299,319	141,882	1,708,251
1988	5,226	14,738	9,611	51,416	917,013	1,259,380	297,522	141,005	1,697,907
1989	5,226	14,738	9,611	51,416	917,493	1,262,510	296,481	140,468	1,699,459
1990	5,226	14,738	9,611	51,416	915,563	1,256,938	308,094	146,460	1,711,492
1991	5,226	14,738	9,611	51,416	915,349	1,259,597	300,508	142,545	1,702,650
1992	5,248	14,798	9,651	51,624	917,624	1,265,592	296,870	140,617	1,703,079
1993	5,256	14,820	9,664	51,704	917,353	1,262,228	307,591	146,130	1,715,949
1994	5,256	14,820	9,664	51,704	917,303	1,263,955	304,873	144,728	1,713,556
1995	5,250	14,805	9,655	51,652	916,737	1,262,957	306,209	145,429	1,714,595
1996	5,225	14,732	9,609	51,400	913,654	1,256,832	311,258	148,095	1,716,185
1997	5,225	14,732	9,609	51,400	912,433	1,258,819	303,256	143,968	1,706,043
1998	5,210	14,693	9,583	51,261	909,225	1,253,947	302,337	143,524	1,699,808
1999	5,210	14,693	9,583	51,261	910,023	1,254,236	306,349	145,596	1,706,181
2000	5,210	14,693	9,583	51,261	909,053	1,255,711	300,132	142,387	1,698,230
2001	5,210	14,693	9,583	51,261	908,380	1,253,239	301,405	143,044	1,697,688
2002	5,210	14,693	9,583	51,261	908,183	1,253,271	301,841	143,270	1,698,382
2003	5,210	14,693	9,583	51,261	909,117	1,252,966	306,504	145,675	1,705,145
2004	5,210	14,693	9,583	51,261	909,402	1,254,003	303,103	143,922	1,701,028
2005	5,210	14,693	9,583	51,261	907,621	1,253,267	301,794	143,245	1,698,306
2006	5,210	14,693	9,583	51,261	908,458	1,254,628	302,881	143,806	1,701,315
2007	5,210	14,693	9,583	51,261	907,821	1,253,342	302,834	143,782	1,699,958
2008	5,210	14,693	9,583	51,261	907,766	1,253,353	302,983	143,859	1,700,195
2009	5,210	14,693	9,583	51,261	908,070	1,252,258	305,574	145,195	1,703,027
2010	5,210	14,693	9,583	51,261	907,925	1,253,397	303,592	144,174	1,701,163
2011	5,210	14,693	9,583	51,261	907,840	1,253,997	303,016	143,877	1,700,890
2012	5,210	14,693	9,583	51,261	907,867	1,253,983	302,835	143,782	1,700,600
2013	5,210	14,693	9,583	51,261	908,088	1,254,098	304,431	144,605	1,703,134
2014	5,210	14,693	9,583	51,261	908,308	1,253,536	305,512	145,164	1,704,212
2015	5,210	14,693	9,583	51,261	907,915	1,254,005	303,131	143,936	1,701,072
2016	5,210	14,693	9,583	51,261	908,059	1,254,080	304,173	144,473	1,702,726
2017	5,210	14,693	9,583	51,261	907,729	1,254,556	301,887	143,293	1,699,736
2018	5,210	14,693	9,583	51,261	907,887	1,254,003	303,097	143,918	1,701,018
2019	5,210	14,693	9,583	51,261	908,401	1,253,613	306,577	145,713	1,705,903
2020(a)	5,210	14,693	9,583	51,261	907,910	1,253,992	302,960	143,847	1,700,799

TABLE B-11: MINIMUM OMP&R COSTS OF EACH AQUEDUCT REACH TO BE

(in dollars)

Sheet 3 of 8

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)	
1960	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0
1968	115,177	410,507	125,134	43,010	100,017	793,845	0	0	0
1969	89,406	438,827	177,410	34,873	226,279	966,795	20,944	128,464	82,250
1970	84,396	454,586	204,881	61,058	178,886	983,807	25,126	150,834	123,364
1971	88,592	497,477	149,867	55,678	137,121	928,735	30,859	182,918	113,651
1972	106,133	602,556	162,403	69,077	146,593	1,086,762	33,452	178,680	124,523
1973	116,064	594,021	153,151	55,335	148,773	1,067,344	49,386	218,650	123,660
1974	123,065	673,606	158,037	64,819	153,232	1,172,759	33,562	197,720	129,646
1975	154,897	777,320	178,865	55,426	128,956	1,295,464	36,423	168,515	123,760
1976	162,041	815,074	184,614	55,684	127,067	1,344,480	36,541	170,131	124,610
1977	167,144	834,719	188,363	55,268	123,282	1,368,776	36,594	169,894	124,326
1978	165,113	836,337	186,607	54,726	122,339	1,365,122	36,381	168,737	123,110
1979	167,535	833,643	190,586	55,982	123,670	1,371,416	36,310	170,334	125,116
1980	163,219	832,450	185,227	54,308	121,414	1,356,618	36,179	167,507	122,477
1981	163,964	834,388	186,066	54,557	121,850	1,360,825	36,246	167,983	122,870
1982	166,650	842,212	188,142	55,156	123,317	1,375,477	36,595	169,357	123,816
1983	182,957	949,434	228,246	68,255	140,117	1,569,009	37,092	186,248	139,901
1984	173,925	949,492	218,131	65,040	135,817	1,542,405	36,814	180,650	134,699
1985	178,568	950,714	224,343	67,056	138,434	1,559,115	36,980	183,864	137,730
1986	177,899	943,878	216,149	64,137	134,730	1,536,793	37,042	183,287	137,086
1987	179,355	947,249	217,358	64,469	135,160	1,543,591	37,055	184,375	138,093
1988	177,737	935,918	215,390	63,870	134,100	1,527,015	36,896	183,217	137,142
1989	177,090	941,560	215,493	63,903	134,141	1,532,187	36,896	183,269	137,192
1990	184,326	935,809	223,622	66,501	137,413	1,547,671	37,019	187,420	141,149
1991	179,599	937,447	217,692	64,608	135,027	1,534,373	36,930	184,393	138,263
1992	177,829	942,919	215,034	63,727	134,225	1,533,734	37,021	183,188	136,962
1993	184,696	938,312	222,891	66,229	137,488	1,549,616	37,191	187,259	140,782
1994	183,002	941,751	221,075	65,649	136,756	1,548,233	37,163	186,331	139,897
1995	183,724	941,078	222,035	65,964	137,045	1,549,846	37,147	186,844	140,426
1996	186,284	936,267	225,902	67,239	138,250	1,553,942	37,046	188,690	142,365
1997	181,297	935,739	219,509	65,195	135,676	1,537,416	36,949	185,425	139,255
1998	180,392	929,790	218,198	64,795	134,974	1,528,149	36,842	184,645	138,613
1999	182,893	932,081	221,649	65,898	136,363	1,538,884	36,894	186,409	140,293
2000	179,018	932,405	216,539	64,264	134,306	1,526,532	36,817	183,797	137,806
2001	179,812	928,111	217,068	64,433	134,520	1,523,944	36,825	184,069	138,064
2002	180,083	928,329	217,395	64,538	134,652	1,524,997	36,830	184,235	138,224
2003	182,989	929,904	221,168	65,744	136,170	1,535,975	36,887	186,161	140,059
2004	180,869	929,929	218,408	64,861	135,059	1,529,126	36,845	184,753	138,716
2005	180,055	927,063	216,889	64,376	134,447	1,522,830	36,823	183,976	137,977
2006	180,733	931,672	218,233	64,806	134,989	1,530,433	36,843	184,664	138,630
2007	180,701	928,575	217,766	64,657	134,801	1,526,500	36,836	184,425	138,404
2008	180,795	927,725	217,888	64,696	134,849	1,525,953	36,838	184,486	138,463
2009	182,408	928,142	219,914	65,343	135,665	1,531,472	36,868	185,521	139,449
2010	181,174	928,984	218,384	64,854	135,049	1,528,445	36,845	184,739	138,704
2011	180,816	929,612	217,929	64,709	134,867	1,527,933	36,839	184,507	138,482
2012	180,701	930,453	217,798	64,667	134,813	1,528,432	36,836	184,440	138,419
2013	181,698	930,386	219,097	65,082	135,337	1,531,600	36,856	185,104	139,051
2014	182,371	930,047	219,984	65,366	135,694	1,533,462	36,869	185,557	139,483
2015	180,886	929,676	218,024	64,740	134,905	1,528,231	36,839	184,557	138,529
2016	181,537	930,252	218,894	65,018	135,254	1,530,955	36,852	185,001	138,952
2017	180,112	929,944	217,031	64,422	134,505	1,526,014	36,825	184,049	138,046
2018	180,866	929,658	217,999	64,731	134,894	1,528,148	36,839	184,542	138,516
2019	183,034	929,671	220,817	65,631	136,029	1,535,182	36,882	185,983	139,888
2020 (a)	180,781	930,529	217,913	64,704	134,859	1,528,786	36,839	184,499	138,475

REIMBURSED THRU MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Sheet 4 of 8

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)
1960	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0
1969	79,902	56,485	0	0	0	0	0	0	0
1970	113,458	82,310	90,945	117,966	146,535	0	0	0	0
1971	124,550	76,831	91,532	86,903	160,210	665,732	146,420	107,896	508,622
1972	112,069	80,350	94,424	109,120	139,459	840,055	119,822	97,338	580,674
1973	114,136	89,490	72,265	110,010	214,625	934,631	117,120	96,871	669,888
1974	135,717	94,763	79,925	113,153	155,898	909,472	136,060	109,399	809,174
1975	112,659	96,253	88,984	99,941	202,793	978,760	131,073	114,030	839,627
1976	113,576	96,855	89,867	100,694	203,995	985,203	132,076	114,918	845,068
1977	113,473	96,730	90,095	100,433	203,993	979,815	132,481	115,104	841,386
1978	112,223	95,975	88,825	99,576	202,558	977,750	131,785	114,498	840,356
1979	114,396	97,048	91,659	100,413	204,104	978,816	134,122	116,000	837,498
1980	111,651	95,470	88,389	99,050	201,522	974,542	131,208	113,970	837,848
1981	112,039	95,740	88,784	99,309	202,030	976,447	131,922	114,495	838,935
1982	112,872	96,509	89,350	100,127	203,710	983,790	132,901	115,390	844,243
1983	129,976	106,021	110,056	108,257	218,743	1,054,930	160,196	134,052	876,970
1984	124,508	102,886	103,629	105,487	213,597	1,050,320	155,951	131,092	876,623
1985	127,713	104,718	107,473	107,066	216,490	1,054,062	158,820	133,093	877,119
1986	126,984	104,395	106,469	106,837	216,115	1,053,123	158,367	132,842	877,527
1987	128,041	104,991	107,727	107,351	217,114	1,055,831	159,235	133,442	878,429
1988	127,107	104,335	106,782	106,719	215,875	1,048,775	158,064	132,543	873,428
1989	127,159	104,364	106,846	106,744	215,920	1,053,062	159,120	133,264	875,763
1990	131,373	106,707	111,974	108,732	219,588	1,053,714	162,848	135,813	872,493
1991	128,300	104,997	108,234	107,283	216,912	1,051,461	159,954	133,835	874,060
1992	126,837	104,322	106,261	106,783	216,066	1,054,099	158,670	133,055	877,474
1993	130,878	106,618	111,106	108,758	219,746	1,055,784	162,432	135,667	876,166
1994	129,937	106,096	109,959	108,314	218,925	1,056,398	161,559	135,069	877,151
1995	130,517	106,386	110,716	108,541	219,324	1,056,539	162,122	135,428	876,573
1996	132,677	107,420	113,577	109,329	220,688	1,055,351	164,142	136,693	872,749
1997	129,363	105,578	109,545	107,768	217,805	1,053,561	161,573	134,935	874,153
1998	128,730	105,137	108,905	107,345	216,969	1,048,059	160,230	133,948	871,017
1999	130,520	106,131	111,081	108,188	218,526	1,050,657	162,059	135,199	871,376
2000	127,871	104,658	107,857	106,939	216,221	1,048,747	159,405	133,385	871,802
2001	128,146	104,810	108,193	107,069	216,460	1,047,353	159,733	133,609	870,048
2002	128,314	104,906	108,398	107,149	216,607	1,047,588	159,899	133,721	870,080
2003	130,270	105,993	110,778	108,070	218,309	1,049,207	161,692	134,948	870,561
2004	128,840	105,198	109,036	107,395	217,064	1,048,276	160,383	134,052	871,263
2005	128,052	104,760	108,078	107,024	216,379	1,047,363	159,740	133,614	870,100
2006	128,750	105,148	108,927	107,353	216,985	1,049,988	160,935	134,430	871,373
2007	128,507	105,012	108,632	107,239	216,775	1,048,007	160,193	133,923	870,181
2008	128,570	105,046	108,708	107,268	216,829	1,048,104	160,262	133,970	870,196
2009	129,620	105,631	109,987	107,763	217,743	1,048,453	161,162	134,585	870,325
2010	128,828	105,190	109,021	107,390	217,054	1,048,495	160,537	134,159	870,411
2011	128,591	105,058	108,735	107,279	216,848	1,048,206	160,333	134,020	871,310
2012	128,523	105,022	108,653	107,246	216,789	1,048,126	160,278	133,981	871,302
2013	129,197	105,396	109,471	107,564	217,375	1,049,063	160,935	134,433	871,422
2014	129,657	105,652	110,031	107,781	217,774	1,049,689	161,377	134,734	870,570
2015	128,640	105,086	108,794	107,303	216,891	1,048,268	160,378	134,049	871,317
2016	129,091	105,337	109,342	107,515	217,283	1,048,924	160,839	134,365	871,405
2017	128,126	104,800	108,169	107,059	216,443	1,048,420	159,832	133,674	871,223
2018	128,627	105,079	108,778	107,296	216,880	1,048,257	160,368	134,043	871,316
2019	130,088	105,891	110,556	107,985	218,151	1,050,252	161,774	135,004	870,633
2020(a)	128,583	105,054	108,724	107,274	216,841	1,048,238	160,356	134,035	871,324

TABLE B-11: MINIMUM OMP&R COSTS OF EACH AQUEDUCT REACH TO BE

(in dollars)

Sheet 5 of 8

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)	
1960	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0
1969	0	368,045	0	0	0	0	0	0	0
1970	0	850,538	0	0	0	0	0	0	0
1971	0	2,296,124	0	0	0	0	0	0	0
1972	1,056,527	3,566,493	1,359,735	26,699	1,386,434	35,220	129,871	0	124,394
1973	1,206,287	4,017,019	1,729,946	50,049	1,779,995	33,136	135,033	0	148,869
1974	1,320,738	4,225,227	2,205,293	27,599	2,232,892	34,897	102,435	0	127,917
1975	1,374,909	4,367,727	2,195,841	69,379	2,265,220	60,759	245,491	0	233,050
1976	1,385,894	4,399,428	2,218,325	67,248	2,285,573	64,422	249,217	0	236,480
1977	1,384,656	4,388,980	2,222,556	66,750	2,289,306	72,774	249,678	0	237,093
1978	1,381,961	4,373,735	2,221,491	66,690	2,288,181	80,344	254,277	0	241,263
1979	1,379,261	4,385,077	2,222,352	66,511	2,288,863	72,728	256,174	0	243,056
1980	1,378,109	4,357,922	2,237,853	66,355	2,304,208	73,965	254,407	0	241,383
1981	1,380,067	4,366,867	2,241,574	66,536	2,308,110	77,077	255,806	0	242,709
1982	1,388,386	4,397,046	2,261,548	67,188	2,328,736	70,488	258,633	0	245,390
1983	1,460,115	4,722,557	2,336,681	72,147	2,408,828	395,951	376,891	0	357,425
1984	1,460,004	4,676,260	2,322,057	72,068	2,394,125	395,349	379,009	0	359,428
1985	1,460,689	4,705,817	2,308,511	72,103	2,380,614	395,553	378,492	0	358,944
1986	1,460,662	4,700,736	2,308,590	72,445	2,381,035	397,139	382,613	12,328	362,847
1987	1,463,467	4,715,151	2,311,681	72,447	2,384,128	397,433	383,026	8,397	363,233
1988	1,457,131	4,688,014	2,298,864	72,350	2,371,214	396,875	386,052	8,362	366,103
1989	1,460,477	4,700,076	2,304,438	72,423	2,376,861	397,252	387,845	8,362	367,800
1990	1,456,864	4,725,694	2,293,290	72,466	2,365,756	398,326	388,533	8,362	368,449
1991	1,459,397	4,704,019	2,298,864	72,587	2,371,451	397,874	390,805	8,362	370,607
1992	1,464,014	4,704,752	2,308,894	72,906	2,381,800	400,567	393,501	8,397	373,157
1993	1,460,692	4,733,079	2,300,124	72,901	2,373,025	400,440	390,759	8,409	370,563
1994	1,464,184	4,730,983	2,304,769	73,022	2,377,791	401,095	393,873	8,409	373,512
1995	1,463,017	4,733,580	2,303,175	72,922	2,376,097	400,609	392,992	8,401	372,677
1996	1,458,228	4,738,955	2,292,800	72,554	2,365,354	398,700	390,761	8,359	370,560
1997	1,459,173	4,715,083	2,296,516	72,613	2,369,129	399,086	392,587	8,359	372,291
1998	1,453,661	4,694,101	2,289,532	72,515	2,362,047	398,270	392,487	8,337	372,197
1999	1,454,555	4,711,888	2,289,532	72,511	2,362,043	398,332	392,785	8,337	372,475
2000	1,455,173	4,690,478	2,293,248	72,514	2,365,762	398,411	393,160	8,337	372,835
2001	1,453,033	4,687,412	2,288,603	72,605	2,361,208	398,683	394,457	8,337	374,063
2002	1,453,100	4,689,051	2,288,603	72,604	2,361,207	398,904	395,494	8,337	375,044
2003	1,454,914	4,707,849	2,287,674	72,577	2,360,251	398,554	393,845	8,337	373,482
2004	1,455,401	4,697,222	2,289,532	72,612	2,362,144	398,706	394,567	8,337	374,163
2005	1,453,397	4,687,283	2,287,674	72,709	2,360,383	399,223	397,011	8,337	376,483
2006	1,456,062	4,700,088	2,291,390	72,638	2,364,028	398,969	395,805	8,337	375,337
2007	1,453,584	4,691,718	2,288,603	72,699	2,361,302	399,151	396,682	8,337	376,170
2008	1,453,627	4,692,367	2,287,674	72,702	2,360,376	399,179	396,809	8,337	376,290
2009	1,453,860	4,700,967	2,286,745	72,681	2,359,426	399,183	396,832	8,337	376,311
2010	1,455,343	4,696,716	2,288,603	72,769	2,361,372	399,649	399,048	8,337	378,411
2011	1,456,253	4,696,461	2,289,532	72,780	2,362,312	399,782	399,672	8,337	379,004
2012	1,456,252	4,695,867	2,290,461	72,786	2,363,247	399,743	399,487	8,337	378,828
2013	1,455,577	4,701,444	2,289,532	72,774	2,362,306	399,702	399,285	8,337	378,638
2014	1,455,719	4,704,893	2,288,603	72,761	2,361,364	399,638	398,988	8,337	378,354
2015	1,456,246	4,696,897	2,289,532	72,777	2,362,309	399,711	399,330	8,337	378,678
2016	1,455,555	4,700,461	2,289,532	72,780	2,362,312	399,721	399,387	8,337	378,731
2017	1,456,089	4,692,755	2,290,461	72,796	2,363,257	399,784	399,684	8,337	379,014
2018	1,456,257	4,696,798	2,289,532	72,780	2,362,312	399,724	399,399	8,337	378,746
2019	1,455,803	4,708,890	2,287,674	72,739	2,360,413	399,529	398,475	8,337	377,868
2020 (a)	1,456,340	4,696,582	2,290,461	72,797	2,363,258	399,826	399,877	8,337	379,196

REIMBURSED THRU MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Sheet 6 of 8

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)	
1960	0	0	0	0	0	0	0	0	0	
1961	0	0	0	0	0	0	0	0	0	
1962	0	0	0	0	0	0	0	0	0	
1963	0	0	0	0	0	0	0	0	0	
1964	0	0	0	0	0	0	0	0	0	
1965	0	0	0	0	0	0	0	0	0	
1966	0	0	0	0	0	0	0	0	0	
1967	0	0	0	0	0	0	0	0	0	
1968	0	0	0	0	0	0	0	0	0	
1969	0	0	0	0	0	0	0	0	0	
1970	0	0	0	0	0	0	0	0	0	
1971	0	0	0	0	0	0	0	0	0	
1972	114,083	72,387	76,760	999,915	48,272	351,735	1,952,637	0	0	
1973	136,742	55,452	61,232	1,346,053	60,677	327,159	2,304,353	20,879	648,418	
1974	103,368	64,803	71,621	1,523,826	83,302	422,655	2,534,824	30,464	797,103	
1975	234,429	109,196	91,964	1,652,842	61,488	317,914	3,007,133	22,273	831,692	
1976	238,996	110,525	92,869	1,655,002	61,450	586,118	3,295,079	21,766	819,760	
1977	238,682	110,560	92,780	1,637,737	61,367	301,582	3,002,253	21,715	809,643	
1978	241,171	112,543	93,414	1,651,418	61,089	505,000	3,240,519	21,520	805,026	
1979	242,651	113,416	93,511	1,650,068	61,157	463,191	3,195,952	21,396	802,234	
1980	241,125	112,623	93,150	1,648,965	60,720	299,497	3,025,835	21,364	802,108	
1981	242,345	113,275	93,485	1,655,790	60,852	442,664	3,184,003	21,433	803,245	
1982	244,984	114,541	94,453	1,665,738	61,440	351,851	3,107,518	21,647	808,854	
1983	344,606	170,506	116,255	2,112,035	61,479	611,066	4,546,214	21,631	818,978	
1984	346,286	171,560	116,485	2,129,453	61,257	858,528	4,817,355	21,554	818,307	
1985	345,885	171,329	116,472	2,117,399	61,360	354,864	4,300,298	21,617	818,073	
1986	349,421	173,264	117,344	2,130,592	61,512	915,783	4,902,843	21,671	819,760	
1987	349,785	173,428	117,420	2,132,677	61,516	1,255,449	5,242,364	21,644	820,282	
1988	352,221	174,893	117,790	2,129,901	61,268	351,143	4,344,608	21,557	816,551	
1989	353,734	175,743	118,122	2,140,026	61,268	1,122,827	5,132,979	21,557	818,409	
1990	354,310	176,070	118,246	2,124,601	61,268	65,423	4,063,588	21,557	822,125	
1991	356,224	177,146	118,665	2,137,722	61,268	721,611	4,740,284	21,557	817,480	
1992	358,604	178,388	119,352	2,152,209	61,516	647,963	4,693,654	21,644	820,854	
1993	356,338	177,079	118,920	2,131,073	61,610	694,290	4,709,481	21,677	825,982	
1994	358,958	178,553	119,491	2,144,624	61,610	707,759	4,747,884	21,677	826,911	
1995	358,190	178,142	119,282	2,140,699	61,547	747,338	4,779,877	21,656	826,203	
1996	356,175	177,128	118,643	2,128,299	61,248	577,784	4,587,657	21,550	821,908	
1997	357,717	177,993	118,979	2,138,075	61,248	998,947	5,025,282	21,550	822,837	
1998	357,557	177,966	118,836	2,131,437	61,082	430,811	4,448,980	21,492	820,046	
1999	357,805	178,108	118,890	2,131,555	61,082	418,695	4,438,064	21,492	820,046	
2000	358,124	178,285	118,959	2,136,706	61,082	1,128,446	5,154,345	21,492	820,975	
2001	359,217	178,900	119,197	2,134,594	61,082	1,220,477	5,249,007	21,492	820,046	
2002	360,090	179,391	119,388	2,138,193	61,082	119,265	3,916,658	21,492	820,046	
2003	358,701	178,610	119,084	2,131,790	61,082	978,811	5,002,296	21,492	820,046	
2004	359,308	178,952	119,217	2,136,775	61,082	531,980	4,563,087	21,492	820,046	
2005	361,366	180,108	119,669	2,140,381	61,082	565,153	4,608,813	21,492	820,046	
2006	360,351	179,538	119,447	2,140,928	61,082	706,825	4,746,619	21,492	820,975	
2007	361,090	179,953	119,609	2,139,877	61,082	421,544	4,463,495	21,492	820,046	
2008	361,197	180,014	119,631	2,139,167	61,082	926,481	4,968,187	21,492	820,046	
2009	361,217	180,025	119,634	2,137,776	61,082	464,298	4,504,695	21,492	820,046	
2010	363,083	181,076	120,043	2,145,507	61,082	1,332,814	5,389,050	21,492	820,046	
2011	363,609	181,371	120,159	2,149,672	61,082	393,915	4,456,603	21,492	820,046	
2012	363,451	181,282	120,123	2,148,960	61,082	662,867	4,724,160	21,492	820,046	
2013	363,283	181,187	120,087	2,146,609	61,082	704,782	4,762,992	21,492	820,046	
2014	363,031	181,044	120,031	2,145,137	61,082	930,477	4,986,119	21,492	820,046	
2015	363,319	181,207	120,094	2,148,625	61,082	533,027	4,593,410	21,492	820,046	
2016	363,371	181,236	120,107	2,146,991	61,082	758,962	4,817,925	21,492	820,046	
2017	363,617	181,376	120,160	2,149,555	61,082	719,902	4,782,511	21,492	820,046	
2018	363,380	181,243	120,107	2,148,691	61,082	574,389	4,635,098	21,492	820,046	
2019	362,598	180,801	119,939	2,143,277	61,082	569,771	4,621,677	21,492	820,046	
2020 (a)	363,782	181,463	120,197	2,149,845	61,082	689,847	4,753,452	21,492	820,046	

TABLE B-11: MINIMUM OMP&R COSTS OF EACH AQUEDUCT REACH TO BE

(in dollars)

Sheet 7 of 8

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)		
1960	0	0	0	0	0	0	0	0	0	
1961	0	0	0	0	0	0	0	0	0	
1962	0	0	0	0	0	0	0	0	0	
1963	0	0	0	0	0	0	0	0	0	
1964	0	0	0	0	0	0	0	0	0	
1965	0	0	0	0	0	0	0	0	0	
1966	0	0	0	0	0	0	0	0	0	
1967	0	0	0	0	0	0	0	0	0	
1968	0	0	0	0	0	0	0	0	0	
1969	0	0	0	0	0	0	0	0	0	
1970	0	0	0	0	0	0	0	0	0	
1971	0	0	0	0	0	0	0	0	0	
1972	0	0	0	0	689,421	151,046	196,491	234,744	179,220	
1973	128,674	0	0	797,971	760,423	331,675	122,417	288,015	187,837	
1974	148,232	40,821	901,067	1,917,687	852,722	208,618	124,828	488,174	256,854	
1975	114,649	34,109	459,260	1,461,983	992,282	335,920	304,809	550,895	163,063	
1976	113,481	32,846	444,965	1,432,818	999,332	349,328	348,791	307,093	162,006	
1977	113,029	32,360	374,494	1,351,241	996,113	355,606	365,799	308,060	154,381	
1978	112,503	31,965	482,426	1,453,440	991,929	356,619	389,745	317,184	100,226	
1979	112,017	31,801	178,201	1,145,649	988,660	355,560	384,687	321,975	98,152	
1980	111,849	31,754	566,565	1,533,640	988,039	340,875	345,272	318,304	98,966	
1981	112,030	31,840	469,497	1,438,045	989,639	340,056	920,240	306,883	97,670	
1982	113,108	32,151	522,102	1,497,862	997,408	343,459	920,341	292,565	101,364	
1983	113,260	32,150	342,609	1,328,628	1,031,690	425,993	978,065	446,495	103,649	
1984	112,807	32,034	1,173,724	2,158,426	1,030,747	427,417	986,611	469,291	103,367	
1985	112,958	32,107	517,055	1,501,810	1,030,471	426,507	985,382	468,604	104,846	
1986	113,235	32,189	1,226,956	2,213,811	1,032,303	429,975	985,788	471,183	108,263	
1987	113,283	32,169	810,486	1,797,864	1,034,131	431,166	990,617	485,355	109,357	
1988	112,824	32,039	851,856	1,834,827	1,029,488	434,441	986,948	498,168	109,147	
1989	112,824	32,039	814,486	1,799,315	1,031,532	435,375	993,830	511,432	112,120	
1990	112,824	32,039	876,591	1,865,136	1,029,124	437,267	1,013,133	515,705	119,831	
1991	112,824	32,039	967,547	1,951,447	1,030,500	439,501	994,945	523,529	119,831	
1992	113,283	32,169	1,036,099	2,029,980	1,035,339	441,853	1,025,231	525,360	119,947	
1993	113,456	32,218	764,181	1,757,514	1,034,586	440,897	1,018,293	527,005	122,025	
1994	113,456	32,218	842,138	1,836,400	1,035,893	442,793	1,022,087	532,979	122,954	
1995	113,340	32,186	1,102,576	2,095,961	1,034,853	441,932	1,020,813	529,983	123,737	
1996	112,788	32,029	669,572	1,657,847	1,029,238	439,166	1,015,446	530,813	123,965	
1997	112,788	32,029	1,022,181	2,011,385	1,030,406	440,359	1,019,155	530,764	122,479	
1998	112,483	31,942	839,454	1,825,417	1,027,399	441,405	1,015,663	538,568	122,093	
1999	112,483	31,942	969,444	1,955,407	1,027,352	441,163	1,016,059	540,914	125,809	
2000	112,483	31,942	965,712	1,952,604	1,028,333	441,422	1,019,616	545,475	125,809	
2001	112,483	31,942	761,031	1,746,994	1,027,681	442,804	1,016,013	546,155	127,667	
2002	112,483	31,942	949,240	1,935,203	1,027,669	442,743	1,015,661	549,560	126,831	
2003	112,483	31,942	768,984	1,754,947	1,027,726	443,023	1,015,866	550,791	129,618	
2004	112,483	31,942	913,340	1,899,303	1,027,755	443,179	1,017,662	550,416	127,760	
2005	112,483	31,942	955,065	1,941,028	1,028,093	444,857	1,016,902	556,921	129,618	
2006	112,483	31,942	804,054	1,790,946	1,028,869	444,085	1,019,443	555,477	129,618	
2007	112,483	31,942	901,440	1,887,403	1,028,047	444,635	1,017,057	557,841	129,989	
2008	112,483	31,942	950,821	1,936,784	1,028,067	444,735	1,017,003	557,510	129,989	
2009	112,483	31,942	852,105	1,838,068	1,028,041	444,610	1,016,464	559,830	129,989	
2010	112,483	31,942	795,324	1,781,287	1,028,251	445,660	1,018,574	561,333	130,918	
2011	112,483	31,942	873,394	1,859,357	1,028,291	445,862	1,018,761	562,436	130,918	
2012	112,483	31,942	923,105	1,909,068	1,028,314	445,965	1,019,653	562,212	130,918	
2013	112,483	31,942	880,794	1,866,757	1,028,266	445,716	1,018,564	561,268	130,918	
2014	112,483	31,942	886,824	1,872,787	1,028,209	445,449	1,018,437	560,521	130,918	
2015	112,483	31,942	871,471	1,857,434	1,028,268	445,748	1,019,575	561,653	130,918	
2016	112,483	31,942	841,263	1,827,226	1,028,286	445,819	1,018,606	561,518	130,918	
2017	112,483	31,942	995,514	1,981,477	1,028,359	446,192	1,020,009	564,331	130,918	
2018	112,483	31,942	806,710	1,792,673	1,028,284	445,817	1,019,586	561,817	130,918	
2019	112,483	31,942	894,417	1,880,380	1,028,237	445,575	1,017,572	560,895	129,989	
2020 (a)	112,483	31,942	882,530	1,868,493	1,028,353	446,165	1,019,702	562,504	130,918	

REIMBURSED THRU MINIMUM OMP&R COMPONENT OF TRANSPORTATION CHARGE

(in dollars)

Sheet 8 of 8

Calendar Year	CALIFORNIA AQUEDUCT (continued)							TOTAL	GRAND TOTAL
	WEST BRANCH (continued)		COASTAL BRANCH						
	Reach 30	Subtotal	Reach 31A ^(b)	Reach 33A	Reach 34	Reach 35	Subtotal		
(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)	
1960	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	42,924
1963	0	0	0	0	0	0	0	0	166,488
1964	0	0	0	0	0	0	0	0	181,067
1965	0	0	0	0	0	0	0	0	374,201
1966	0	0	0	0	0	0	0	0	398,401
1967	0	0	0	0	0	0	0	0	636,140
1968	0	0	0	0	0	0	0	2,080,386	2,651,435
1969	0	0	507,618	0	0	0	507,618	3,218,361	3,927,721
1970	0	0	609,761	0	0	0	609,761	3,825,249	4,482,674
1971	0	0	698,200	0	0	0	698,200	5,344,139	5,875,791
1972	395,865	1,846,787	696,095	0	0	0	696,095	11,939,080	12,552,406
1973	589,270	2,279,637	646,973	0	0	0	646,973	14,334,851	14,904,770
1974	705,560	2,636,756	673,669	0	0	0	673,669	16,992,730	17,712,466
1975	948,365	3,295,334	514,830	0	0	0	514,830	17,804,729	18,717,604
1976	707,382	2,873,932	518,753	0	0	0	518,753	17,794,727	18,716,530
1977	656,870	2,836,829	519,598	0	0	0	519,598	17,396,901	18,323,260
1978	728,643	2,884,346	520,187	0	0	0	520,187	17,754,649	18,682,119
1979	589,653	2,738,687	521,016	0	0	0	521,016	17,277,134	18,201,482
1980	749,127	2,840,583	521,184	0	0	0	521,184	17,559,114	18,626,731
1981	643,771	3,298,259	522,542	0	0	0	522,542	18,107,999	19,171,542
1982	669,154	3,324,291	521,431	224,602	18,956	40,324	805,313	18,475,440	19,547,365
1983	961,006	3,946,898	555,480	271,509	50,216	101,439	978,644	21,224,789	22,345,349
1984	584,654	3,602,087	554,453	267,726	44,518	89,499	956,196	21,850,179	22,969,864
1985	1,145,431	4,161,241	554,442	241,948	27,757	55,887	880,034	21,196,564	22,317,125
1986	524,282	3,551,794	553,282	230,565	25,115	50,600	859,562	21,849,992	22,967,352
1987	884,861	3,935,483	554,761	240,920	28,848	58,119	882,648	22,209,480	23,327,718
1988	936,658	3,994,850	550,872	231,343	25,954	52,329	860,498	21,318,933	22,431,419
1989	274,644	3,809,645	552,240	236,854	26,318	53,060	868,472	20,918,994	22,031,622
1990	1,863,907	4,978,967	550,940	231,674	23,334	47,088	853,036	22,111,340	23,222,360
1991	1,145,040	4,253,346	551,154	231,364	23,111	46,643	852,272	22,109,842	23,220,832
1992	285,631	3,433,361	553,748	237,027	26,066	52,554	869,395	22,349,755	22,463,848
1993	1,058,171	4,200,977	553,029	232,514	23,417	47,255	856,215	21,895,856	23,009,541
1994	1,382,594	4,539,300	553,916	232,655	23,515	47,450	857,532	22,351,679	22,965,465
1995	460,560	3,611,878	552,677	231,899	23,072	46,566	854,214	21,716,048	22,829,080
1996	910,288	4,048,916	551,475	231,266	23,072	46,562	852,375	21,521,231	22,630,217
1997	349,928	3,493,091	551,222	230,996	22,878	46,176	851,272	21,708,701	22,816,612
1998	1,428,323	4,573,451	548,498	231,599	23,561	47,539	851,197	21,983,150	23,087,239
1999	1,053,993	4,205,290	549,254	231,295	23,345	47,106	851,000	21,768,757	22,873,630
2000	676,199	3,836,854	549,228	231,059	23,176	46,766	850,229	22,075,034	23,179,081
2001	1,438,203	4,598,523	547,854	228,676	21,474	43,364	841,368	22,706,144	23,809,334
2002	305,689	3,468,153	547,747	231,473	23,472	47,358	850,050	20,443,701	21,546,637
2003	1,583,150	4,750,174	548,970	229,800	22,991	46,399	848,160	22,664,797	23,768,641
2004	794,202	3,960,974	548,352	230,010	22,426	45,270	846,058	21,558,942	22,663,139
2005	1,493,423	4,669,814	547,703	227,467	21,325	43,067	839,562	22,328,019	23,431,543
2006	503,528	3,681,020	548,300	229,612	22,144	44,702	844,758	21,359,207	22,463,688
2007	1,341,980	4,519,549	547,937	227,635	21,444	43,306	840,322	21,990,247	23,093,937
2008	419,464	3,596,768	547,952	227,626	21,438	43,291	840,307	21,620,937	22,724,540
2009	1,108,966	4,287,900	548,339	227,576	21,402	43,220	840,537	21,766,092	22,869,908
2010	828,002	4,012,738	548,172	228,687	21,481	43,382	841,722	22,312,493	23,416,252
2011	1,017,543	4,203,811	548,125	228,822	21,578	43,573	842,098	21,649,465	22,753,157
2012	1,079,731	4,266,793	548,122	228,935	21,659	43,736	842,452	22,030,619	23,134,326
2013	844,223	4,028,955	548,361	228,759	21,533	43,482	842,135	21,799,323	22,903,182
2014	1,028,155	4,211,689	548,548	228,987	21,695	43,807	843,037	22,217,563	23,321,602
2015	1,290,721	4,476,865	548,164	228,889	21,627	43,668	842,348	22,058,566	23,162,230
2016	874,282	4,059,429	548,326	228,865	21,610	43,636	842,437	21,843,471	22,947,212
2017	883,019	4,072,828	547,985	228,888	21,625	43,668	842,166	21,960,744	23,064,201
2018	1,100,594	4,287,016	548,149	228,783	21,551	43,519	842,002	21,845,065	22,948,614
2019	941,057	4,123,325	548,680	227,784	21,551	43,518	841,533	21,777,303	22,881,274
2020 (a)	1,017,331	4,204,973	548,150	228,916	21,645	43,708	842,419	21,958,762	23,062,802

b) Includes certain amounts to be assigned directly to Kern County Water Agency. Refer to Appendix B text "Project Water Charges, Minimum OMP&R Components".

TABLE B-12: VARIABLE OMP&R COSTS TO BE REIMBURSED

(in dollars)

Sheet 1 of 2

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 18A	Reach 22E
	Calhoun and Travis Pumping Plants	Cordelia Pumping Plant (a)	Total	South Bay and Del Valle Pumping Plants (b)	Delta Pumping Plant	Dos Amigos Pumping Plant (c)	Buena Vista Pumping Plant	Wheeler Ridge Pumping Plant	Wind Gap Pumping Plant	A.D. Edmonston (Tehachapi) Pumping Plant	Cottonwood Powerplant	Pear-blossom Pumping Plant
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
1960	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	36,964	0	0	0	0	0	0	0	0
1963	0	0	0	57,703	0	0	0	0	0	0	0	0
1964	0	0	0	74,094	0	0	0	0	0	0	0	0
1965	0	0	0	142,540	0	0	0	0	0	0	0	0
1966	0	0	0	192,522	0	0	0	0	0	0	0	0
1967	0	0	0	223,040	13,881	0	0	0	0	0	0	0
1968	0	6,989	6,989	336,608	426,875	201,019	0	0	0	0	0	0
1969	0	8,551	8,551	493,630	267,632	133,813	0	0	0	0	0	0
1970	0	13,598	13,598	395,365	343,660	210,373	1	0	0	0	0	0
1971	0	10,609	10,609	380,842	572,395	224,704	134,937	7,452	0	0	0	0
1972	0	14,434	14,434	598,363	921,128	494,317	220,098	74,399	145,208	448,248	0	4,032
1973	0	14,449	14,449	493,630	667,480	366,546	284,603	254,293	406,416	1,431,060	0	201,627
1974	0	14,969	14,969	507,453	728,885	417,458	331,987	326,363	585,187	2,060,835	0	343,973
1975	0	15,000	15,000	503,011	1,343,096	560,778	589,698	626,150	1,163,489	4,177,965	0	548,783
1976	0	11,000	11,000	516,698	1,386,140	689,214	755,681	765,112	1,557,618	5,578,448	0	1,215,684
1977	0	10,000	10,000	565,219	2,020,423	835,969	870,328	947,949	1,796,286	6,426,096	0	1,746,592
1978	0	11,000	11,000	662,139	1,841,431	1,119,285	1,163,466	1,199,057	2,382,894	8,706,249	0	2,552,873
1979	0	11,000	11,000	644,947	3,473,109	1,167,859	1,190,132	1,205,924	2,497,894	8,922,692	0	2,879,399
1980	10,476	17,200	27,676	736,185	1,928,539	1,382,830	1,311,757	1,422,802	2,699,386	9,642,365	0	2,879,399
1981	10,637	18,200	28,837	742,321	2,133,208	1,458,555	1,446,856	1,470,244	2,796,185	9,937,695	0	3,076,607
1982	10,780	17,200	27,980	708,718	2,243,240	1,496,104	1,562,970	1,490,834	3,011,103	11,044,757	0	2,838,335
1983	42,515	64,200	106,715	2,534,181	10,920,245	5,343,093	5,059,644	5,124,460	10,564,312	34,403,159	-600,765	10,357,975
1984	48,237	71,200	119,437	2,781,488	9,847,174	6,379,803	5,996,738	6,157,827	11,442,459	37,093,165	-571,482	10,163,008
1985	48,728	70,200	118,928	2,712,531	9,847,174	6,379,803	5,996,738	6,157,827	11,442,459	37,093,165	-571,482	10,163,008
1986	50,190	68,200	118,390	2,647,665	9,509,157	6,730,744	6,486,726	6,123,898	11,721,171	41,677,997	-807,615	10,543,246
1987	53,533	70,200	123,733	2,681,699	10,855,062	7,223,978	6,740,419	6,959,436	12,937,992	42,926,409	-706,822	10,658,207
1988	80,993	67,200	148,193	2,561,430	11,043,956	7,393,344	6,996,822	6,795,245	14,132,935	46,790,004	-769,562	10,222,496
1989	91,331	71,200	162,531	2,705,599	11,118,193	8,252,763	7,978,323	7,821,692	14,970,035	49,459,888	-776,354	10,681,113
1990	116,009	64,200	182,209	2,449,206	17,842,108	8,001,170	8,449,667	7,990,670	16,757,314	56,363,810	-878,283	9,636,137
1991	123,825	69,200	193,025	2,598,529	14,398,397	8,516,605	8,991,472	9,107,261	17,816,337	59,886,565	-1,073,447	10,171,947
1992	127,706	72,200	199,906	2,695,353	12,131,415	8,830,716	9,274,157	9,393,206	18,369,948	61,730,745	-963,075	10,460,653
1993	116,109	115,200	231,309	2,480,265	17,641,730	8,733,886	9,062,542	8,747,540	17,484,373	62,505,696	-1,103,822	9,565,802
1994	120,958	123,200	244,158	2,572,494	16,475,332	8,589,471	9,343,715	9,634,496	19,140,185	64,172,166	-1,065,555	9,864,660
1995	120,968	123,200	244,168	2,573,864	17,449,090	8,617,983	9,390,877	9,688,934	18,910,183	64,597,862	-1,048,560	9,822,109
1996	118,079	119,200	237,279	2,519,594	21,027,033	8,505,394	9,310,238	9,567,398	19,033,728	63,940,645	-1,013,883	9,610,067
1997	122,933	125,200	248,133	2,618,597	16,907,117	8,899,178	10,158,700	9,923,426	19,734,815	66,254,886	-915,321	9,945,562
1998	119,076	122,200	241,276	2,508,270	17,038,270	8,761,592	9,902,710	9,685,053	20,456,924	69,657,024	-1,290,861	9,681,461
1999	121,145	129,200	250,345	2,537,511	19,389,341	8,792,903	9,925,747	9,737,311	20,498,417	69,779,659	-1,174,482	9,637,780
2000	123,946	129,200	253,146	2,615,027	16,128,938	9,049,145	10,231,979	10,026,659	21,116,506	71,854,095	-1,112,752	9,886,946
2001	119,130	124,200	243,330	2,531,478	17,001,297	8,794,578	10,390,981	10,296,986	20,823,067	74,711,448	-1,364,105	9,535,259
2002	118,187	124,200	242,387	2,513,237	17,247,044	8,761,592	10,361,721	10,267,100	20,762,544	74,516,147	-1,061,527	9,483,567
2003	118,213	125,200	243,413	2,503,930	20,160,344	8,732,395	10,322,553	10,874,570	21,539,545	74,246,417	-1,343,357	9,447,115
2004	121,145	129,200	250,345	2,635,202	18,363,680	8,917,925	10,615,887	11,131,268	22,039,852	75,968,697	-1,386,061	9,630,278
2005	157,037	130,200	287,237	2,506,718	17,796,023	8,772,181	10,932,456	10,948,752	22,032,552	79,793,904	-1,359,904	9,462,192
2006	161,917	132,200	294,117	2,569,390	18,410,999	9,016,259	11,250,857	11,258,715	22,652,101	76,817,345	-1,227,545	9,713,692
2007	158,071	129,200	287,271	2,511,887	18,505,899	8,809,249	10,990,377	11,010,400	22,160,364	80,264,407	-1,394,318	9,474,898
2008	158,103	130,200	288,303	2,509,127	18,591,353	8,801,782	10,987,940	11,006,547	22,152,950	80,246,337	-1,383,385	9,438,775
2009	156,194	130,200	286,394	2,478,989	20,221,228	8,716,187	10,889,447	10,910,598	23,175,540	79,564,114	-1,224,072	9,347,563
2010	160,106	134,200	294,306	2,526,171	19,119,462	8,864,981	11,129,323	11,719,179	23,556,686	80,839,405	-1,210,379	9,446,640
2011	162,088	136,200	298,288	2,530,004	18,797,717	8,900,761	11,186,207	11,778,199	23,664,496	81,177,319	-1,123,147	9,546,130
2012	163,100	137,200	300,300	2,537,827	18,743,176	8,929,951	11,220,026	11,812,777	23,735,973	81,424,475	-1,214,939	9,585,191
2013	162,169	138,200	299,369	2,518,270	19,623,354	8,860,048	11,134,346	11,723,243	23,553,623	80,798,371	-1,185,495	9,518,016
2014	162,209	138,200	300,409	2,512,403	20,280,492	8,837,109	11,102,698	11,690,546	23,491,237	80,593,534	-1,176,465	9,464,981
2015	164,191	140,200	304,391	2,534,893	18,879,698	8,906,457	11,190,154	11,781,180	23,670,586	81,194,786	-1,182,810	9,576,948
2016	163,258	140,200	303,458	2,522,181	19,477,980	8,876,534	11,153,415	11,743,882	23,596,636	80,949,695	-1,194,893	9,528,579
2017	166,212	143,200	309,412	2,548,583	18,152,870	8,962,999	11,207,566	11,857,189	23,820,835	81,702,140	-1,229,660	9,615,206
2018	165,278	143,200	308,478	2,532,937	18,862,239	8,909,316	11,197,735	11,789,592	23,686,772	81,251,837	-1,184,761	9,570,818
2019	163,370	142,200	305,570	2,493,824	20,890,262	8,771,994	11,029,534	11,614,375	23,337,943	80,068,589	-1,174,147	9,425,282
2020 (f)	232,810	292,200	525,010	2,538,805	18,804,794	8,942,083	11,246,670	11,843,737	23,798,542	81,650,935	-1,185,095	9,617,357

a) Between 1968 and 1979, inclusive, costs are for an interim facility.

b) 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.

c) Includes certain costs assigned directly to Kern County Water Agency and to Hacienda Water District. Refer to Appendix B text "Project Water Charges, Variable OMP&R Components".

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 29G	Reach 29H	Reach 29J	Reach 30	Reach 31A	Reach 33A	Total	
	Silverwood Lake (d)	Devil Canyon Powerplant	Lake Perris (d)	Oso Pumping Plant	Pyramid Powerplant	Pyramid Lake (d)	Castaic Powerplant	Castaic Lake (d)	Las Perillas and Badger Hill Pumping Plants (e)	Devil's Den Sawtooth and Polonio PP's and San Luis Obispo Pwp		
(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	
1960	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	36,964
1963	0	0	0	0	0	0	0	0	0	0	0	57,703
1964	0	0	0	0	0	0	0	0	0	0	0	74,094
1965	0	0	0	0	0	0	0	0	0	0	0	142,540
1966	0	0	0	0	0	0	0	0	0	0	0	192,522
1967	0	0	0	0	0	0	0	0	0	0	13,881	236,921
1968	0	0	0	0	0	0	0	0	118,653	0	746,547	1,090,144
1969	0	0	0	0	0	0	0	0	78,305	0	479,750	745,485
1970	0	0	0	0	0	0	0	0	136,409	0	690,443	1,099,406
1971	0	0	0	0	0	0	0	0	166,214	0	1,105,702	1,497,153
1972	2,220	-3,024	0	82,844	0	3,236	-193,058	63,965	237,600	0	2,501,213	3,114,010
1973	44,757	-449,449	0	140,740	0	6,881	-896,777	0	120,737	0	2,578,914	3,086,993
1974	101,172	-453,978	57,071	171,599	0	183,621	-1,403,494	0	130,617	0	3,581,296	4,103,718
1975	128,017	-1,184,666	0	356,748	0	0	-2,120,460	0	129,392	0	6,318,990	6,837,001
1976	0	-2,203,177	0	327,998	0	0	-2,388,444	0	148,216	0	7,832,490	8,360,188
1977	156,023	-2,928,572	80,915	276,567	0	0	-2,430,364	44,215	152,757	0	9,995,184	10,570,403
1978	0	-3,590,885	0	289,713	0	0	-2,715,247	0	196,165	0	13,182,764	13,855,903
1979	0	-4,274,692	306,797	290,538	0	0	-3,036,056	121,492	184,560	0	14,603,094	15,259,041
1980	167,840	-4,419,081	0	307,893	0	0	-3,260,023	0	225,857	0	14,289,564	15,053,425
1981	14,852	-4,340,988	0	315,942	-619,223	0	-3,316,842	26,642	228,020	0	14,627,753	15,398,911
1982	109,392	-4,585,026	0	354,039	-1,607,630	0	-3,401,811	0	215,728	53,238	14,825,273	15,561,971
1983	70,476	-11,047,836	576,093	909,728	-7,488,642	0	-7,454,011	0	838,103	245,077	57,821,111	60,462,007
1984	0	-10,921,388	0	992,243	-7,063,082	0	-7,708,488	292,468	929,837	329,642	60,932,725	63,833,650
1985	345,867	-10,364,227	403,642	1,100,098	-7,804,897	0	-8,103,964	0	1,016,055	878,595	63,979,861	66,811,320
1986	0	-11,485,332	0	1,130,137	-8,878,711	0	-8,990,570	370,088	1,020,857	1,007,487	66,159,280	68,925,335
1987	0	-11,602,028	83,247	1,572,839	-9,161,237	0	-8,423,687	48,427	1,139,126	1,326,572	72,577,940	75,383,372
1988	370,712	-11,603,565	54,148	2,247,762	-10,061,832	0	-9,629,099	2,345	1,093,416	1,262,584	76,341,711	79,051,334
1989	0	-11,606,000	101,057	2,434,980	-10,143,134	0	-10,294,414	1,334,280	1,164,569	1,372,519	83,869,516	86,737,640
1990	673,633	-11,723,627	14,586	3,702,823	-13,543,215	0	-13,459,627	0	1,054,729	1,223,680	92,105,575	94,736,990
1991	0	-11,427,501	0	3,976,707	-13,938,202	0	-12,841,541	0	1,145,104	1,309,506	96,039,210	98,830,764
1992	53,581	-11,451,033	0	4,109,982	-14,453,444	0	-13,877,573	759,439	1,248,228	1,655,326	97,272,271	100,167,530
1993	0	-11,551,543	146,215	4,473,098	-14,449,330	0	-14,663,476	0	1,130,167	1,477,917	98,634,645	101,346,219
1994	0	-11,713,510	68,259	4,608,283	-14,932,942	0	-13,729,871	0	1,185,353	1,571,323	103,211,365	106,028,017
1995	0	-11,485,332	0	4,668,524	-15,387,851	0	-14,979,262	573,851	1,187,670	1,599,553	103,601,694	106,419,726
1996	122,106	-12,236,621	238,268	4,646,589	-15,048,762	0	-15,802,224	85,411	1,158,633	1,648,813	104,792,833	107,549,706
1997	0	-12,074,526	0	4,822,252	-15,806,819	0	-15,003,693	698,704	1,212,878	1,753,827	106,511,086	109,377,816
1998	280,083	-12,761,593	55,225	5,376,909	-16,026,048	0	-16,839,199	0	1,178,909	1,939,967	107,068,721	109,852,869
1999	291,676	-11,974,368	0	5,422,122	-15,839,560	0	-16,355,483	0	1,185,119	1,966,029	111,282,211	114,062,012
2000	0	-12,261,987	0	5,604,524	-15,385,811	0	-17,132,703	354,668	1,229,579	2,071,268	111,661,054	114,529,227
2001	0	-13,056,841	141,485	5,722,221	-16,509,886	0	-18,211,103	0	1,186,820	1,962,207	111,424,414	114,199,222
2002	880,836	-12,335,203	0	5,724,459	-15,914,896	0	-18,058,762	754,351	1,183,281	2,354,261	114,926,515	117,682,139
2003	0	-11,941,110	135,002	6,368,450	-16,432,543	0	-19,702,578	0	1,244,531	2,331,168	115,983,202	118,730,545
2004	170,233	-11,933,073	0	6,209,273	-16,856,792	0	-20,278,155	223,189	1,273,394	2,379,748	116,469,343	119,354,890
2005	131,862	-13,552,019	0	6,445,536	-16,999,768	0	-21,042,583	0	1,256,086	2,336,640	116,953,910	119,747,865
2006	0	-13,187,067	91,249	6,649,127	-16,781,549	0	-19,375,598	557,206	1,293,420	2,438,919	119,578,130	122,441,637
2007	289,575	-13,458,970	0	6,501,791	-16,973,874	0	-21,596,553	0	1,259,034	2,343,459	118,185,938	120,985,096
2008	0	-13,418,966	0	6,516,224	-17,045,685	0	-21,662,479	631,939	1,257,069	2,341,511	118,461,912	121,259,342
2009	231,623	-13,111,321	43,626	6,802,457	-16,837,896	0	-20,707,986	0	1,242,332	2,314,236	121,577,676	124,343,056
2010	0	-13,641,586	94,668	6,596,340	-17,288,235	0	-21,909,396	197,848	1,270,823	2,336,640	121,122,399	123,942,876
2011	0	-12,809,526	13,307	6,613,032	-17,247,827	0	-21,907,809	0	1,279,665	2,355,148	122,540,228	125,368,520
2012	316,556	-12,335,203	0	6,628,174	-17,363,941	0	-21,318,953	0	1,283,595	2,368,785	122,881,670	125,719,797
2013	29,095	-12,951,715	1,374	6,575,775	-17,341,430	0	-21,299,287	185,034	1,272,788	2,334,692	122,810,449	125,628,088
2014	0	-13,027,735	0	6,566,679	-17,385,199	0	-21,351,990	0	1,268,858	2,351,252	122,705,997	125,518,809
2015	169,553	-13,069,174	10,001	6,601,340	-17,340,212	0	-21,235,606	0	1,281,630	2,360,992	122,795,523	125,634,807
2016	0	-12,998,606	43,550	6,589,633	-17,367,293	0	-21,326,284	152,586	1,274,753	2,349,303	122,849,470	125,675,109
2017	0	-12,959,709	0	6,654,467	-17,018,411	0	-22,146,344	141,123	1,290,473	2,370,733	122,421,477	125,279,472
2018	121,412	-13,006,226	82,115	6,612,710	-17,350,868	0	-21,296,259	0	1,280,648	2,349,303	122,876,383	125,717,798
2019	124,534	-12,861,497	0	6,864,587	-17,362,769	0	-21,460,118	78,858	1,289,034	2,320,081	122,926,542	125,725,936
2020(f)	0	-13,090,156	0	6,644,944	-17,433,027	0	-21,406,092	0	1,283,595	2,364,889	123,083,176	126,146,991

d) 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 withdrawals from 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" (withdrawals, as a positive value) 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.

e) Includes certain costs assigned directly to Kern County Water Agency. Refer to Appendix B text "Project Water Charges, Variable OMP&R Components".

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

TABLE B-13: CAPITAL AND OPERATING COSTS OF PROJECT CONSERVATION FACILITIES TO BE REIMBURSED THRU DELTA WATER CHARGE
(in dollars)

Calendar Year	INITIAL PROJECT CONSERVATION FACILITIES (Portions of Upper Feather Lakes, Oroville-Thermalito Facilities, Delta Facilities and California Aqueduct)			ADDITIONAL PROJECT CONSERVATION FACILITIES (Upper Eel River Development)							Total (e)	
	Capital Costs (a)	Operating Costs (b)	Project Power Revenues	Planning and Preoperating Costs (a & c)	Trans-Basin Diversion Works		Eel River Storage					
					Capital Costs (a)	Operating Cost (d)	Initial Storage		Reserved Storage			
							Capital Costs (a)	Operating Costs (d)	Capital Costs (a)	Operating Costs (d)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)		
1952	171,318	0	0	0	0	0	0	0	0	0	0	171,318
1953	312,174	0	0	0	0	0	0	0	0	0	0	312,174
1954	308,607	0	0	0	0	0	0	0	0	0	0	308,607
1955	194,637	0	0	0	0	0	0	0	0	0	0	194,637
1956	1,362,880	0	0	0	0	0	0	0	0	0	0	1,362,880
1957	6,224,286	0	0	0	0	0	0	0	0	0	0	6,224,286
1958	9,512,722	0	0	0	0	0	0	0	0	0	0	9,512,722
1959	11,391,474	0	0	0	0	0	0	0	0	0	0	11,391,474
1960	13,875,802	0	0	0	0	0	0	0	0	0	0	13,875,802
1961	18,511,521	0	0	0	0	0	0	0	0	0	0	18,511,521
1962	8,734,444	0	0	0	0	0	0	0	0	0	0	8,734,444
1963	72,116,190	-14,000	0	0	0	0	0	0	0	0	0	72,102,190
1964	62,415,634	-14,000	0	107,780	0	0	0	0	0	0	0	62,502,814
1965	70,755,648	-14,000	0	551,852	0	0	0	0	0	0	0	71,293,500
1966	130,569,277	-14,000	0	1,082,924	0	0	0	0	0	0	0	131,638,201
1967	93,935,230	-11,246	0	1,190,609	0	0	0	0	0	0	0	95,114,593
1968	39,369,138	1,206,156	-951,000	793,547	0	0	0	0	0	0	0	40,417,841
1969	4,930,857	2,809,403	-11,007,000	603,887	0	0	0	0	0	0	0	-2,662,853
1970	3,900,600	4,741,522	-16,150,000	519,514	0	0	0	0	0	0	0	-6,988,364
1971	3,587,041	5,979,967	-16,150,000	410,353	0	0	0	0	0	0	0	-6,172,639
1972	4,260,866	5,317,197	-16,150,000	289,503	0	0	0	0	0	0	0	-6,282,434
1973	3,607,996	6,111,485	-16,150,000	217,207	0	0	0	0	0	0	0	-6,213,312
1974	5,607,358	7,038,006	-19,450,000	217,861	0	0	0	0	0	0	0	-6,586,775
1975	5,522,083	7,697,097	-16,150,000	134,535	0	0	0	0	0	0	0	-2,796,283
1976	6,282,853	7,485,064	-17,057,000	141,000	0	0	0	0	0	0	0	-3,148,085
1977	8,029,215	7,295,638	-19,175,000	141,000	0	0	0	0	0	0	0	-3,709,147
1978	14,861,639	6,697,629	-16,228,000	140,000	0	0	0	0	0	0	0	5,471,268
1979	27,453,435	6,803,873	-16,331,000	140,000	0	0	0	0	0	0	0	18,066,308
1980	43,460,963	7,092,043	-16,562,000	187,000	0	0	0	0	0	0	0	34,178,006
1981	43,964,842	6,826,924	-16,492,000	321,000	0	0	0	0	0	0	0	34,620,766
1982	19,767,887	7,836,706	-16,150,000	455,000	0	0	0	0	0	0	0	11,909,593
1983	12,217,205	3,737,278	-16,150,000	497,000	0	0	0	0	0	0	0	301,418
1984	13,749,247	5,070,849	-13,001,000	593,000	3,860,000	0	0	0	0	0	0	-7,727,804
1985	7,148,977	6,579,158	-19,750,000	431,000	3,860,000	0	0	0	0	0	0	-1,730,865
Subtotal, 1952-1985	768,114,046	106,258,784	-297,054,000	9,165,572	7,720,000	0	0	0	0	0	0	594,204,402
1986	0	8,374,586	-23,076,000	305,000	10,290,000	0	0	0	0	0	0	-4,106,414
1987	0	6,469,908	-19,289,000	144,000	10,290,000	0	0	0	0	0	0	-2,385,092
1988	0	7,627,670	-17,722,000	230,000	46,310,000	0	0	0	0	0	0	36,315,670
1989	0	6,446,765	-16,150,000	230,000	46,310,000	0	0	0	0	0	0	36,856,765
1990	0	7,246,957	-20,879,000	230,000	46,310,000	0	0	0	0	0	0	32,907,957
1991	0	6,339,685	-16,590,000	230,000	46,310,000	0	0	0	0	0	0	36,289,685
1992	0	7,263,928	-21,376,000	144,000	42,450,000	0	0	0	0	0	0	28,487,997
1993	0	8,492,248	-16,150,000	111,000	36,020,000	0	0	0	0	0	0	28,473,248
1994	0	5,736,004	-16,150,000	111,000	36,020,000	0	0	0	0	0	0	25,717,004
1995	0	6,529,884	-16,150,000	109,000	36,020,000	0	0	0	0	0	0	26,508,884
1996	0	8,065,637	-16,150,000	98,000	36,020,000	13,770,000	2,431,000	0	0	0	0	44,234,637
1997	0	6,246,284	-16,435,000	98,000	36,020,000	13,770,000	2,431,000	0	0	0	0	42,130,284
1998	0	9,226,258	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	0	0	0	12,284,258
1999	0	6,603,578	-18,261,000	0	0	3,014,000	13,770,000	2,424,000	0	0	0	7,550,578
2000	0	5,157,990	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	0	0	0	8,215,990
2001	0	9,995,608	-16,595,000	0	0	3,014,000	13,770,000	2,424,000	0	0	0	12,608,608
2002	0	6,499,120	-16,570,000	0	0	3,014,000	13,770,000	2,424,000	0	0	0	9,137,120
2003	0	9,634,252	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	20,732,252
2004	0	8,937,748	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	20,035,748
2005	0	11,217,209	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	22,315,209
2006	0	8,368,111	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	19,466,111
2007	0	11,141,849	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	22,239,849
2008	0	11,214,973	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	20,319,973
2009	0	8,402,945	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	15,500,945
2010	0	11,824,709	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	22,922,709
2011	0	10,757,435	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,855,435
2012	0	10,833,982	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,687,982
2013	0	10,778,374	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,876,374
2014	0	10,871,813	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,969,813
2015	0	10,637,539	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,735,539
2016	0	11,062,681	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	22,160,681
2017	0	11,179,561	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	22,277,561
2018	0	10,700,289	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,798,289
2019	0	10,864,443	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,962,443
2020	0	10,833,982	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,931,982
2021	0	10,833,982	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,931,982
2022	0	10,833,982	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,931,982
2023	0	10,833,982	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,931,982
2024	0	10,833,982	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,931,982
2025	0	10,833,982	-16,432,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,649,982
2026	0	10,833,982	-23,076,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	15,005,982
2027	0	10,833,982	-19,289,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	18,792,982
2028	0	10,833,982	-17,722,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	20,319,982
2029	0	10,833,982	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,931,982
2030	0	10,833,982	-20,879,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	17,202,982
2031	0	10,833,982	-16,590,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,491,982
2032	0	10,833,982	-21,376,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	18,487,982
2033	0	10,833,982	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,931,982
2034	0	10,833,982	-16,150,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	21,931,982
2035	0	10,833,982	-24,420,000	0	0	3,014,000	13,770,000	2,424,000	6,880,000	1,160,000	0	13,661,982
Subtotal, 1986-2035	0	474,127,817	-863,373,000	2,040,000	428,370,000	114,532,000	550,800,000	96,974,000	227,040,000	38,280,000	1,068,790,817	
TOTAL 1952-2035	768,114,046	580,386,601	-1,160,427,000	11,205,572	436,090,000	114,532,000	550,800,000	96,974,000	227,040,000	38,280,000	1,662,995,219	

- a) Reimbursed thru payments of the capital cost component of the Delta

TABLE B-14: 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 Valley Water District	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	83	99	409	591	121	287	408
1953	0	0	0	323	405	1,806	2,534	338	791	1,129
1954	0	0	0	818	1,088	5,148	7,054	424	991	1,415
1955	0	0	0	976	1,321	6,296	8,593	212	498	710
1956	0	0	0	8,838	12,064	63,802	84,704	221	516	737
1957	16,594	10,040	26,634	21,556	29,307	649,582	700,445	286	665	951
1958	35,437	14,574	50,011	67,764	67,954	733,413	869,131	797	1,859	2,656
1959	21,488	5,800	27,288	154,250	142,955	493,042	790,247	22,864	59,897	82,761
1960	10,049	7,878	17,927	296,724	274,848	1,019,163	1,590,735	36,040	94,055	130,095
1961	7,229	7,129	14,358	853,502	797,743	1,914,670	3,565,915	14,545	36,402	50,947
1962	-197	-923	-1,120	545,263	576,699	1,686,347	2,808,309	19,532	46,619	66,151
1963	2,389	1,596	3,985	657,331	1,077,781	3,243,300	4,978,412	75,156	177,236	252,392
1964	43,624	32,146	75,770	712,019	1,243,435	7,244,764	9,200,218	146,392	345,163	491,555
1965	207,880	55,827	263,707	374,179	480,903	3,450,058	4,305,140	260,981	613,539	874,520
1966	470,452	45,556	516,008	669,218	635,281	2,450,166	3,754,665	599,790	1,403,736	2,003,526
1967	1,579,126	38,778	1,617,904	792,369	767,632	2,388,979	3,948,980	947,326	2,215,386	3,162,712
1968	865,174	56,118	921,292	711,403	657,251	1,929,557	3,298,211	359,422	841,700	1,201,122
1969	84,114	54,579	138,693	282,123	270,092	798,642	1,350,857	84,180	198,304	282,484
1970	52,417	62,523	114,940	62,730	60,710	146,411	269,851	54,758	129,548	184,306
1971	29,233	30,301	59,534	13,992	16,197	89,206	119,395	36,983	88,711	125,694
1972	21,511	16,800	38,311	13,315	12,714	66,573	92,602	24,377	58,096	82,473
1973	58,695	28,132	86,827	10,480	10,649	40,096	61,225	28,352	67,816	96,168
1974	117,243	31,951	149,194	16,065	18,138	74,459	108,662	24,324	57,768	82,092
1975	164,876	149,503	314,379	12,198	12,373	40,339	64,910	28,101	72,466	100,567
1976	411,243	469,088	880,331	12,884	12,642	37,064	62,590	28,286	70,462	98,748
1977	665,679	735,861	1,401,540	18,206	17,106	43,393	78,705	563,344	1,488,980	2,052,324
1978	2,732,858	3,070,663	5,803,521	16,150	14,764	35,211	66,125	794,757	2,068,899	2,863,656
1979	5,001,778	4,606,737	9,608,515	15,196	13,892	33,131	62,219	2,897,286	7,402,445	10,299,731
1980	281,293	222,707	504,000	7,639	6,985	16,643	31,267	9,292,183	25,859,822	35,152,005
1981	29,264	42,736	72,000	5,754	5,261	12,536	23,551	7,995,441	22,210,701	30,206,142
1982	9,758	13,242	23,000	10,789	9,865	23,507	44,161	1,349,211	3,927,933	5,277,144
1983	7,564	11,436	19,000	14,206	12,989	30,951	58,146	285,327	875,486	1,160,813
1984	0	0	0	14,455	13,216	31,494	59,165	121,458	316,551	438,009
1985	0	0	0	5,681	5,194	12,378	23,253	69,882	165,610	235,492
TOTAL	12,926,771	9,820,778	22,747,549	6,398,479	7,279,553	28,812,536	42,490,568	26,162,697	70,898,938	97,061,635

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		County of Kings	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agricultural				
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
1952	86	394	19	59	958	9,402	19	13	735	11,685
1953	241	1,089	55	160	2,954	28,242	55	32	2,022	34,850
1954	302	1,366	67	201	3,451	33,367	68	43	2,550	41,415
1955	153	684	36	100	1,532	15,156	37	22	1,286	19,006
1956	156	711	34	104	2,789	24,725	34	24	1,285	29,862
1957	203	917	37	135	6,242	51,362	38	29	1,544	60,507
1958	568	2,563	116	377	14,337	121,847	120	78	4,535	144,521
1959	3,800	7,838	389	1,155	26,620	262,365	398	378	14,561	317,504
1960	7,825	23,911	1,198	3,521	52,118	556,231	1,227	498	44,677	691,206
1961	5,916	22,154	1,078	3,266	52,416	555,300	1,100	597	40,698	682,525
1962	11,961	50,704	2,476	7,471	97,655	1,060,287	2,534	1,888	93,426	1,328,402
1963	49,738	217,741	11,146	32,076	379,251	4,158,412	11,402	6,016	411,560	5,277,342
1964	96,891	332,658	17,183	49,003	609,499	6,824,674	17,576	11,986	631,875	8,591,345
1965	175,588	545,368	27,840	80,342	1,116,595	12,331,516	28,483	21,888	1,029,194	15,356,814
1966	414,989	1,127,065	53,497	166,032	2,260,087	25,635,912	54,718	39,029	2,044,813	31,796,142
1967	656,359	865,993	40,152	127,572	2,051,162	24,294,233	41,073	34,953	1,551,783	29,663,280
1968	244,361	201,781	9,868	29,725	1,125,060	11,808,994	10,093	12,297	371,994	13,812,173
1969	52,408	95,690	4,843	14,095	629,602	6,583,415	4,953	7,303	179,720	7,572,031
1970	32,265	55,411	2,758	8,164	429,223	4,288,566	2,819	4,017	103,113	4,926,336
1971	17,942	26,316	1,328	3,876	198,939	1,692,043	1,358	539	49,346	1,991,687
1972	12,726	13,608	688	2,003	88,997	780,651	705	341	25,556	925,275
1973	15,319	8,247	412	1,215	43,851	498,905	421	227	15,388	583,985
1974	12,794	8,537	423	1,257	45,511	448,485	433	338	15,861	533,639
1975	9,136	14,660	700	2,161	49,706	489,606	715	669	26,673	594,026
1976	11,823	20,491	951	3,018	55,660	623,490	973	1,623	36,731	754,760
1977	63,964	30,466	1,559	4,487	53,720	1,030,947	1,596	2,859	57,567	1,247,165
1978	9,407	28,536	1,471	4,203	47,016	542,709	1,505	2,728	54,116	691,691
1979	16,530	26,778	1,388	3,947	45,761	570,577	1,419	2,597	50,939	719,936
1980	34,403	13,683	701	2,018	32,902	517,612	716	1,299	25,824	629,158
1981	43,360	19,227	983	2,833	48,187	682,527	1,007	973	36,326	835,423
1982	19,299	45,290	2,349	6,673	90,194	888,982	2,401	1,853	86,223	1,143,264
1983	18,961	85,375	4,434	12,577	149,380	1,533,178	4,531	2,488	162,624	1,973,548
1984	31,387	141,887	7,368	20,903	232,019	2,544,841	7,530	2,530	270,302	3,258,767
1985	48,034	131,571	6,830	19,383	211,755	2,513,356	6,981	997	250,594	3,189,501
TOTAL	2,118,895	4,168,710	204,377	614,114	10,253,149	114,001,915	209,038	163,132	7,695,441	139,428,771

TABLE B-14: CAPITAL COSTS OF TRANSPORTATION FACILITIES
ALLOCATED TO EACH CONTRACTOR

(in dollars)

Sheet 2 of 2

Calendar Year	SOUTHERN CALIFORNIA AREA									
	Antelope Valley-East Kern Water Agency	Castaic Lake Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Water District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1952	3,199	790	866	257	1,430	70	1,725	424	6,214	1,582
1953	10,188	2,552	2,721	818	4,489	228	5,422	1,350	19,502	4,965
1954	12,962	3,221	3,535	1,055	5,835	294	7,050	1,721	25,194	6,436
1955	5,498	1,438	1,400	411	2,312	120	2,808	728	9,439	2,429
1956	9,473	2,626	2,152	603	3,550	187	4,362	1,227	13,041	3,407
1957	26,429	7,106	6,410	1,839	10,573	547	12,895	3,470	41,302	10,694
1958	50,691	13,867	11,927	3,390	19,670	1,022	24,061	6,608	74,859	19,458
1959	72,006	21,608	16,282	4,735	26,856	1,382	32,588	9,260	101,242	26,202
1960	104,728	33,755	25,916	7,805	42,740	1,890	51,204	13,328	165,771	42,500
1961	129,879	40,920	35,108	12,542	57,900	2,298	64,976	16,849	236,658	58,038
1962	204,125	65,528	44,749	14,114	73,799	3,434	86,860	25,632	258,110	65,621
1963	594,409	188,634	115,700	32,035	190,815	9,987	234,494	74,617	591,098	156,887
1964	1,116,825	362,562	213,642	56,594	352,336	18,820	438,073	140,596	1,048,676	282,117
1965	1,940,936	681,040	391,934	105,544	646,379	33,378	799,909	248,811	1,948,001	522,114
1966	4,034,775	1,528,714	826,398	219,470	1,362,895	70,617	1,692,826	527,019	4,011,114	1,080,705
1967	5,051,110	2,879,039	1,096,485	301,320	1,808,325	89,953	2,220,839	665,598	5,937,405	1,581,203
1968	5,993,805	3,039,204	1,371,402	374,813	2,261,716	108,724	2,777,805	793,749	8,046,291	2,139,150
1969	5,943,851	2,455,011	1,724,171	548,248	2,843,560	123,940	3,327,113	884,027	11,013,365	2,802,151
1970	5,209,665	2,681,383	2,105,343	713,216	3,472,228	109,676	3,976,748	760,307	14,073,923	3,526,842
1971	2,692,820	1,806,061	1,114,161	351,752	1,837,496	50,534	2,170,893	363,194	8,397,087	2,049,032
1972	1,010,772	324,947	353,784	97,697	583,465	19,692	713,913	138,579	2,834,810	737,880
1973	370,708	805,400	163,368	85,016	269,459	6,560	244,650	48,220	1,818,147	416,472
1974	476,900	243,167	262,709	74,409	433,269	8,450	526,169	61,875	1,633,471	430,036
1975	371,601	255,008	263,830	73,489	435,109	7,005	531,097	51,068	1,938,677	513,114
1976	180,603	178,225	119,652	30,996	197,331	3,796	246,051	27,700	681,952	184,595
1977	100,264	310,917	39,805	10,353	65,649	1,739	81,864	12,825	197,869	53,676
1978	98,637	722,908	18,122	4,723	29,888	1,629	37,330	12,192	84,837	23,042
1979	318,198	842,982	57,894	14,762	95,477	5,325	119,639	39,990	261,523	71,696
1980	537,279	634,267	97,617	24,696	160,991	8,991	201,776	67,503	437,077	119,919
1981	782,909	198,849	141,895	35,929	234,008	13,076	293,222	98,114	636,313	174,533
1982	1,167,847	161,651	149,724	37,909	246,920	13,804	309,502	103,573	671,332	184,164
1983	1,470,141	137,892	88,625	22,421	146,156	8,192	183,501	61,470	967,712	108,907
1984	7,741,775	107,098	63,719	16,115	105,081	5,914	132,405	44,383	284,965	78,350
1985	8,691,308	69,552	41,554	10,560	68,535	3,848	86,503	28,831	187,766	51,575
TOTAL	56,526,316	20,807,922	10,972,600	3,289,636	18,096,244	735,122	21,640,273	5,334,838	68,083,743	17,529,492

Calendar Year	SOUTHERN CALIFORNIA AREA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR	GRAND TOTAL
	San Geronio Pass Water Agency	The Metropolitan Water District of Southern California(a)	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)
1952	982	70,277	373	88,189	0	0	0	0	75	100,948
1953	3,079	222,098	1,202	278,614	0	0	0	0	336	317,463
1954	3,999	286,002	1,518	358,822	0	0	0	0	984	409,690
1955	1,505	113,842	683	142,613	0	0	0	0	1,218	172,140
1956	2,109	175,814	1,252	219,803	0	0	0	0	11,561	346,667
1957	6,627	521,637	2,373	652,902	0	0	0	0	29,096	1,470,535
1958	12,047	974,384	6,590	1,218,574	0	0	2	2	36,649	2,321,544
1959	16,238	1,400,948	10,153	1,739,500	0	0	14	14	58,690	3,016,004
1960	26,402	2,238,521	15,799	2,770,361	0	0	28	28	124,252	5,324,604
1961	36,336	3,296,821	19,163	4,007,488	0	0	9	9	321,136	8,642,378
1962	40,802	3,647,840	29,916	4,560,530	0	0	32	32	266,820	9,029,124
1963	96,818	11,598,244	88,731	13,972,469	0	0	51	51	731,647	25,216,298
1964	173,715	18,480,616	168,412	22,852,984	0	0	7,791	7,791	1,093,061	42,312,724
1965	321,803	34,436,900	313,518	42,390,267	0	0	3,139	3,139	478,705	63,672,292
1966	665,449	76,006,632	696,113	92,722,727	0	0	-40	-40	862,165	131,655,193
1967	977,584	133,892,340	1,309,653	157,810,854	0	0	47	47	1,509,115	197,712,892
1968	1,324,809	150,541,748	1,391,585	180,164,801	0	0	51,572	51,572	1,257,657	200,706,828
1969	1,746,670	143,268,526	1,105,739	177,786,372	0	0	234,242	234,242	438,295	187,802,974
1970	2,203,479	167,628,702	1,186,300	207,647,812	0	0	16,233	16,233	81,249	213,240,727
1971	1,275,964	138,458,628	767,556	161,335,178	0	0	27,204	27,204	17,638	163,676,330
1972	459,259	46,063,443	69,396	53,407,637	0	0	9	9	14,921	54,561,228
1973	264,943	40,795,710	297,549	45,586,202	0	0	37	37	9,933	46,424,377
1974	266,941	19,396,802	90,830	23,905,028	0	0	60	60	35,682	24,814,357
1975	319,134	21,360,686	112,977	26,232,795	0	0	0	0	12,424	27,319,101
1976	114,067	10,592,569	80,072	12,637,609	0	0	0	0	8,305	14,442,343
1977	33,067	12,063,083	146,355	13,117,466	0	0	0	0	7,641	17,904,841
1978	14,163	25,808,993	347,928	27,204,392	0	0	0	0	6,119	36,635,504
1979	44,044	31,017,833	400,153	33,289,516	0	0	0	0	5,783	53,985,700
1980	73,676	24,663,231	297,213	27,324,236	0	0	0	0	2,734	63,643,400
1981	107,241	10,402,454	93,957	13,212,500	0	0	0	0	2,058	44,351,674
1982	113,147	9,267,966	77,878	12,505,417	0	0	0	0	3,864	18,996,850
1983	66,872	6,961,979	66,448	9,719,316	0	0	0	0	5,096	19,935,919
1984	48,046	5,284,873	51,614	13,964,338	0	0	0	0	5,186	17,725,465
1985	31,605	3,454,187	33,495	12,759,319	0	0	0	0	2,038	16,209,603
TOTAL	10,892,622	1,154,394,329	9,283,494	1,397,586,631	0	0	340,430	340,430	7,442,133	1,707,097,717

a) Costs from Table B-10, allocated to MWD, are reduced herein by \$16,421,137 in 1972 under provisions of Contract Amendment No. 7.

TABLE B-15: CAPITAL COST 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 Valley Water District	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1963	0	0	0	102,341	99,930	356,210	558,481	0	0	0
1964	0	0	0	119,262	153,514	517,457	790,233	8,475	21,008	29,483
1965	0	0	0	150,665	215,334	877,645	1,243,644	14,098	34,304	48,402
1966	18,717	0	18,717	167,168	239,243	1,049,171	1,455,582	23,170	55,696	78,866
1967	42,106	0	42,106	196,683	270,827	1,170,986	1,638,496	41,222	98,012	139,234
1968	120,616	0	120,616	231,629	308,991	1,289,758	1,830,378	55,304	131,075	186,379
1969	163,629	0	163,629	263,005	341,668	1,385,690	1,990,363	58,986	139,799	198,785
1970	167,811	0	167,811	275,447	355,096	1,425,396	2,055,939	60,952	144,478	205,430
1971	170,417	0	170,417	278,214	358,114	1,432,675	2,069,003	62,253	147,601	209,854
1972	171,871	0	171,871	328,077	358,920	1,437,110	2,124,107	63,231	150,001	213,232
1973	172,940	27,672	200,612	328,739	359,552	1,440,420	2,128,711	63,753	151,278	215,031
1974	175,858	29,071	204,929	329,260	360,081	1,442,413	2,131,754	64,203	152,412	216,615
1975	181,687	30,659	212,346	330,059	360,983	1,446,115	2,137,157	64,638	153,476	218,114
1976	189,884	38,092	227,976	330,665	361,598	1,448,121	2,140,384	167,607	394,205	561,812
1977	210,330	61,413	271,743	331,306	362,227	1,449,964	2,143,497	169,013	397,708	566,721
1978	243,426	97,998	341,424	332,211	363,077	1,452,121	2,147,409	197,021	471,736	668,757
1979	379,295	250,662	629,957	333,014	363,811	1,453,872	2,150,697	236,533	574,595	811,128
1980	627,968	479,695	1,107,663	333,769	364,502	1,455,519	2,153,790	380,578	942,622	1,323,200
1981	641,953	490,767	1,132,720	334,149	364,849	1,456,346	2,155,344	842,556	2,228,293	3,070,849
1982	643,408	492,892	1,136,300	334,435	365,111	1,456,969	2,156,515	1,240,065	3,332,540	4,572,605
1983	643,893	493,550	1,137,443	334,972	365,601	1,458,138	2,158,711	1,307,144	3,527,825	4,834,969
1984	644,269	494,119	1,138,388	335,678	366,247	1,459,677	2,161,602	1,321,329	3,571,351	4,892,680
1985	644,269	494,119	1,138,388	336,397	366,904	1,461,243	2,164,544	1,327,368	3,587,089	4,914,457
1986	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1987	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1988	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1989	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1990	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1991	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1992	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1993	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1994	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1995	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1996	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1997	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1998	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
1999	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2000	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2001	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2002	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2003	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2004	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2005	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2006	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2007	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2008	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2009	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2010	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2011	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2012	644,269	494,119	1,138,388	336,679	367,162	1,461,858	2,165,699	1,330,842	3,595,323	4,926,165
2013	644,269	494,119	1,138,388	228,285	267,232	1,105,648	1,601,165	1,330,842	3,595,323	4,926,165
2014	644,269	494,119	1,138,388	193,770	213,648	944,401	1,351,819	1,322,367	3,574,315	4,896,682
2015	644,269	494,119	1,138,388	156,685	151,828	584,213	892,726	1,316,744	3,561,019	4,877,763
2016	625,552	494,119	1,119,671	137,345	127,919	412,687	677,951	1,307,672	3,539,627	4,847,299
2017	602,163	494,119	1,096,282	103,008	96,335	290,872	490,215	1,289,620	3,497,311	4,786,931
2018	523,653	494,119	1,017,772	62,635	58,171	172,100	292,906	1,275,538	3,464,248	4,739,786
2019	480,640	494,119	974,759	26,625	25,494	76,168	128,287	1,271,857	3,455,524	4,727,381
2020	476,458	494,119	970,577	12,434	12,066	36,462	60,962	1,269,890	3,450,845	4,720,735
2021	473,852	494,119	967,971	9,298	9,048	29,183	47,529	1,268,589	3,447,722	4,716,311
2022	472,398	494,119	966,517	8,602	8,242	24,748	41,592	1,267,611	3,445,322	4,712,933
2023	471,329	466,447	937,776	7,940	7,610	21,438	36,988	1,267,090	3,444,045	4,711,135
2024	468,411	465,048	933,459	7,419	7,081	19,445	33,945	1,266,639	3,442,911	4,709,550
2025	462,582	463,460	926,042	6,620	6,179	15,743	28,542	1,266,204	3,441,847	4,708,051
2026	454,385	456,027	910,412	6,014	5,564	13,737	25,315	1,163,236	3,201,118	4,364,354
2027	433,939	432,705	866,644	5,373	4,936	11,894	22,203	1,161,829	3,197,615	4,359,444
2028	400,843	396,121	796,964	4,468	4,085	9,737	18,290	1,133,822	3,123,587	4,257,409
2029	264,974	243,457	508,431	3,665	3,351	7,987	15,003	1,094,309	3,020,728	4,115,037
2030	16,301	14,424	30,725	2,910	2,660	6,339	11,909	950,264	2,652,701	3,602,965
2031	2,316	3,352	5,668	2,530	2,313	5,512	10,355	488,286	1,367,030	1,855,316
2032	861	1,227	2,088	2,244	2,052	4,889	9,185	90,777	262,783	353,560
2033	376	569	945	1,707	1,561	3,720	6,988	23,698	67,498	91,196
2034	0	0	0	1,001	915	2,181	4,097	9,513	23,972	33,485
2035	0	0	0	282	258	615	1,155	3,474	8,234	11,708
TOTAL	32,213,450	24,705,949	56,919,399	16,518,338	18,358,102	73,092,901	107,969,341	66,542,104	179,766,150	246,308,254

a) Unadjusted for prior overpayments or underpayments of charges.

TABLE B-15: CAPITAL COST COMPONENT OF

(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		County of Kings	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agricultural				
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
1963	0	0	0	0	0	0	0	0	0	
1964	0	0	0	0	0	0	0	0	0	
1965	0	0	0	0	65,237	0	0	0	65,237	
1966	0	0	0	0	120,751	0	0	0	120,751	
1967	0	0	0	0	233,116	0	0	0	233,116	
1968	31,878	67,781	3,196	0	335,093	374,979	8,469	3,822	54,972	880,190
1969	43,078	67,900	9,587	11,835	390,928	770,075	8,971	4,154	197,227	1,503,755
1970	49,109	74,417	9,587	12,328	422,230	936,643	9,217	4,320	142,703	1,660,554
1971	57,725	84,845	9,587	11,342	443,570	1,244,030	9,357	4,652	153,473	2,018,581
1972	66,340	94,799	9,587	12,821	453,460	1,862,826	9,425	8,916	493,628	3,011,802
1973	74,956	104,279	9,587	14,300	457,885	2,148,486	9,460	5,151	182,427	3,006,531
1974	83,572	158,267	9,587	16,273	460,065	2,405,983	9,481	5,767	309,590	3,458,585
1975	92,187	124,187	9,587	17,752	462,328	2,677,963	9,502	5,649	210,465	3,609,620
1976	100,803	134,140	9,587	19,231	464,799	3,031,216	9,538	5,816	227,966	4,003,096
1977	109,419	144,094	9,587	20,711	467,566	3,403,781	9,586	6,148	245,916	4,416,808
1978	109,419	154,048	9,587	22,683	470,237	3,783,589	9,665	6,480	263,418	4,829,126
1979	109,419	164,002	9,587	24,162	472,574	4,154,545	9,740	6,646	280,919	5,231,594
1980	109,419	173,956	9,587	25,642	474,850	4,533,547	9,811	6,979	298,420	5,642,211
1981	109,419	183,910	9,587	27,614	476,485	4,961,635	9,846	7,145	315,922	6,101,563
1982	109,419	194,338	9,587	29,094	478,881	5,356,731	9,896	7,477	333,423	6,528,846
1983	109,419	203,344	9,587	30,573	483,365	5,806,545	10,016	7,643	350,925	7,011,417
1984	109,419	213,772	9,587	32,052	490,792	6,212,102	10,241	7,976	368,426	7,454,367
1985	109,419	223,725	9,587	34,025	502,327	6,607,198	10,615	8,142	385,927	7,690,965
1986	109,419	233,679	9,587	35,504	512,855	6,999,076	10,963	8,474	403,877	8,323,434
1987	109,419	243,633	9,587	36,983	512,855	7,398,195	10,963	8,640	421,379	8,751,654
1988	109,419	253,587	9,587	38,463	512,855	7,770,761	10,963	8,972	438,880	9,153,487
1989	109,419	263,541	9,587	40,435	512,855	8,039,522	10,963	9,305	456,381	9,452,008
1990	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
1991	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
1992	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
1993	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
1994	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
1995	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
1996	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
1997	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
1998	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
1999	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2000	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2001	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2002	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2003	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2004	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2005	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2006	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2007	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2008	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2009	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2010	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2011	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2012	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2013	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2014	109,419	273,495	9,587	41,914	512,855	8,318,745	10,963	9,471	493,628	9,780,077
2015	109,419	273,495	9,587	41,914	447,618	8,318,745	10,963	9,471	493,628	9,714,840
2016	109,419	273,495	9,587	41,914	392,104	8,318,745	10,963	9,471	493,628	9,659,326
2017	109,419	273,495	9,587	41,914	279,739	8,318,745	10,963	9,471	493,628	9,546,961
2018	109,419	273,495	9,587	41,914	177,762	8,318,745	2,494	9,471	493,628	9,436,515
2019	109,419	273,495	9,587	41,914	121,927	8,318,745	1,992	9,471	493,628	9,380,178
2020	109,419	273,495	9,587	41,914	90,625	8,318,745	1,746	9,471	493,628	9,348,630
2021	109,419	273,495	9,587	41,914	69,285	8,318,745	1,605	9,471	493,628	9,327,149
2022	109,419	273,495	9,587	41,914	59,395	8,318,745	1,538	9,471	493,628	9,317,192
2023	109,419	273,495	9,587	41,914	54,970	8,318,745	1,503	9,471	493,628	9,312,732
2024	109,419	273,495	9,587	41,914	52,790	8,318,745	1,482	9,471	493,628	9,310,531
2025	109,419	273,495	9,587	41,914	50,527	8,318,745	1,460	9,471	493,628	9,308,246
2026	109,419	273,495	9,587	41,914	48,056	8,318,745	1,425	9,471	493,628	9,305,740
2027	109,419	273,495	9,587	41,914	45,289	8,318,745	1,376	9,471	493,628	9,302,924
2028	109,419	273,495	9,587	41,914	42,618	8,318,745	1,297	9,471	493,628	9,300,174
2029	109,419	273,495	9,587	41,914	40,281	8,318,745	1,222	9,471	493,628	9,297,762
2030	109,419	273,495	9,587	41,914	38,005	8,318,745	1,152	9,471	493,628	9,295,416
2031	109,419	273,495	9,587	41,914	36,370	8,318,745	1,116	9,471	493,628	9,293,745
2032	109,419	273,495	9,587	41,914	33,974	8,318,745	1,066	9,471	493,628	9,291,299
2033	109,419	273,495	9,587	41,914	29,490	8,318,745	947	9,471	493,628	9,286,696
2034	109,419	273,495	9,587	41,914	22,063	8,318,745	721	9,471	493,628	9,279,043
2035	109,419	273,495	9,587	41,914	10,528	8,318,745	347	9,471	493,628	9,267,134
TOTAL	7,055,369	16,141,014	645,525	2,441,867	25,642,750	473,141,698	548,141	583,940	29,243,152	555,443,456

a) Unadjusted for prior overpayments or underpayments of charges.

TRANSPORTATION CHARGE FOR EACH CONTRACTOR (a)

(in dollars)

Sheet 3 of 4

Calendar Year	SOUTHERN CALIFORNIA AREA									
	Antelope Valley East Kern Water Agency	Castaic Lake Water Agency	Coachella Valley County Water District	Crestline Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Water District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1963	34,183	0	0	0	0	0	0	0	52,007	0
1964	63,735	20,285	14,348	4,288	37,236	1,153	28,413	8,290	81,395	34,799
1965	119,260	38,311	24,969	7,102	40,576	2,089	50,192	15,280	133,532	35,031
1966	215,757	72,170	44,455	12,349	72,712	3,748	89,961	27,650	230,380	60,989
1967	416,354	148,173	85,541	23,260	140,471	7,259	174,123	53,852	429,800	114,718
1968	667,480	291,310	140,055	38,241	230,375	11,731	284,537	86,943	724,990	193,331
1969	965,473	442,410	208,237	56,875	342,821	17,136	422,640	126,406	1,125,027	299,683
1970	1,260,983	564,465	293,957	84,133	484,194	23,298	588,054	170,357	1,672,577	438,997
1971	1,519,992	697,775	398,629	119,592	656,822	28,751	785,766	208,157	2,372,290	614,341
1972	1,653,870	787,567	454,021	137,080	748,177	31,263	893,696	226,214	2,789,767	716,212
1973	1,704,123	803,723	471,610	141,937	777,185	32,243	929,190	233,104	2,930,705	752,897
1974	1,722,553	843,765	479,732	146,164	790,581	32,569	941,353	235,501	3,021,098	773,603
1975	1,746,263	855,854	492,793	149,863	812,122	32,989	967,512	238,577	3,021,309	794,983
1976	1,764,738	868,532	505,910	153,517	833,755	33,337	993,917	241,116	3,198,694	820,494
1977	1,773,717	877,393	511,859	155,058	843,565	33,526	1,006,150	242,493	3,232,598	829,671
1978	1,778,702	892,851	513,838	155,572	846,829	33,612	1,010,220	243,131	3,242,436	832,340
1979	1,783,606	928,792	514,739	155,807	848,315	33,693	1,012,076	243,737	3,246,654	833,485
1980	1,799,426	970,702	517,617	156,541	853,062	33,958	1,018,024	245,725	3,259,656	837,050
1981	1,826,138	1,002,236	522,471	157,769	861,066	34,405	1,028,056	249,081	3,281,386	843,012
1982	1,865,062	1,012,122	529,525	159,555	872,700	35,055	1,042,634	253,959	3,313,021	851,689
1983	1,923,123	1,020,159	536,969	161,440	884,976	35,741	1,058,021	259,109	3,346,398	860,845
1984	1,996,214	1,027,014	541,375	162,555	892,243	36,149	1,067,144	262,165	3,366,121	866,260
1985	2,381,111	1,032,339	544,543	163,356	897,467	36,443	1,073,727	264,371	3,380,289	870,155
1986	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1987	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1988	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1989	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1990	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1991	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1992	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1993	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1994	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1995	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1996	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1997	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1998	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
1999	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2000	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2001	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2002	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2003	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2004	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2005	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2006	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2007	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2008	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2009	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2010	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2011	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2012	2,813,216	1,035,797	546,609	163,881	900,874	36,634	1,078,028	265,805	3,389,624	872,719
2013	2,779,034	1,035,797	546,609	163,881	887,302	36,634	1,078,028	265,805	3,337,617	859,514
2014	2,749,481	1,015,512	532,261	159,593	877,816	35,481	1,049,615	257,515	3,308,229	851,714
2015	2,693,956	997,486	521,639	156,779	860,298	34,545	1,027,835	250,525	3,256,092	837,688
2016	2,597,459	963,627	502,154	151,532	828,163	32,886	988,066	238,155	3,159,244	811,730
2017	2,396,862	887,624	461,068	140,621	760,404	29,375	903,904	211,953	2,959,823	758,001
2018	2,145,737	744,487	406,554	125,640	670,499	24,903	793,491	178,862	2,664,634	679,388
2019	1,847,743	593,387	338,372	107,005	558,054	19,498	655,387	139,399	2,264,597	573,036
2020	1,552,233	471,332	252,652	79,748	416,681	13,336	489,973	95,448	1,717,047	433,722
2021	1,293,225	338,022	147,980	44,289	244,052	7,883	292,262	57,648	1,017,334	258,378
2022	1,159,346	248,230	92,588	26,801	152,697	5,370	184,332	39,591	599,857	156,507
2023	1,109,094	232,074	74,999	21,944	123,689	4,391	148,838	32,701	458,919	119,822
2024	1,090,663	192,032	66,877	17,717	110,293	4,065	136,675	30,304	368,526	99,116
2025	1,066,953	179,943	53,815	14,018	88,752	3,645	110,515	27,227	287,315	77,736
2026	1,048,478	167,265	40,699	10,364	67,120	3,297	84,111	24,688	190,930	52,225
2027	1,039,499	158,404	34,750	8,823	57,309	3,108	71,878	23,311	157,026	43,048
2028	1,034,514	142,946	32,771	8,308	54,045	3,022	67,808	22,674	147,188	40,379
2029	1,029,610	107,005	31,870	8,074	52,555	2,941	65,952	22,068	142,970	39,234
2030	1,013,791	65,095	28,992	7,340	47,812	2,676	60,004	20,079	129,968	35,669
2031	987,079	33,561	24,138	6,112	39,808	2,229	49,972	16,723	108,238	29,707
2032	948,155	23,675	17,084	4,326	28,174	1,579	35,394	11,845	76,603	21,030
2033	890,093	15,638	9,640	2,441	15,898	893	20,007	6,696	43,226	11,874
2034	817,002	8,782	5,234	1,326	8,632	485	10,883	3,640	23,503	6,459
2035	432,105	3,458	2,066	525	3,407	191	4,301	1,433	9,335	2,564
TOTAL	140,660,807	51,789,849	27,330,448	8,194,048	45,044,312	1,831,699	53,901,393	13,290,243	169,481,199	43,636,539

TABLE B-15: CAPITAL COST 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	GRAND TOTAL
	San Gorgonio Pass Water Agency	The Metropolitan Water District of Southern California	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)
1963	0	704,290	0	790,480	0	0	0	0	45,067	1,394,028
1964	21,605	1,280,919	9,493	1,605,959	0	0	0	0	81,442	2,507,117
1965	21,663	2,199,718	17,866	2,705,589	0	0	395	395	135,786	4,199,053
1966	37,662	3,911,815	33,453	4,813,101	0	0	551	551	159,586	6,647,154
1967	70,746	7,690,631	68,062	9,422,990	0	0	549	549	202,450	11,678,941
1968	119,348	14,347,346	133,174	17,268,861	0	0	551	551	277,479	20,564,454
1969	185,714	21,831,818	202,359	26,226,099	0	0	3,115	3,115	340,005	30,425,751
1970	272,753	28,954,688	257,333	35,065,089	0	0	14,761	14,761	361,796	39,531,380
1971	381,603	37,288,672	316,312	45,388,702	0	0	15,568	15,568	365,836	50,237,961
1972	445,040	44,172,408	354,473	53,409,788	0	0	16,921	16,921	366,712	59,314,433
1973	467,873	46,462,541	357,923	56,065,054	0	0	16,921	16,921	367,454	62,000,314
1974	481,045	48,490,778	372,716	58,233,458	0	0	16,923	16,923	367,948	64,728,212
1975	494,317	49,455,128	377,232	59,519,942	0	0	16,926	16,926	369,722	66,083,827
1976	510,183	50,517,115	382,849	60,824,157	0	0	16,926	16,926	370,340	68,144,691
1977	515,854	51,043,745	386,830	61,452,459	0	0	16,926	16,926	370,753	69,238,907
1978	517,498	51,643,484	394,106	62,104,619	0	0	16,926	16,926	371,133	70,479,394
1979	518,202	52,926,628	411,404	63,457,138	0	0	16,926	16,926	371,437	72,668,877
1980	520,392	54,468,739	431,298	65,112,190	0	0	16,926	16,926	371,724	75,727,704
1981	524,055	55,694,919	446,075	66,470,669	0	0	16,926	16,926	371,860	79,319,931
1982	529,387	56,212,097	450,746	67,127,552	0	0	16,926	16,926	371,963	81,910,707
1983	535,012	56,672,872	454,618	67,749,283	0	0	16,926	16,926	372,155	83,280,904
1984	538,337	57,019,000	457,921	68,232,458	0	0	16,926	16,926	372,408	84,268,869
1985	540,725	57,281,748	460,488	68,926,762	0	0	16,926	16,926	372,666	85,424,708
1986	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	86,504,495
1987	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	86,932,715
1988	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,334,548
1989	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,633,069
1990	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
1991	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
1992	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
1993	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
1994	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
1995	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
1996	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
1997	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
1998	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
1999	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2000	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2001	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2002	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2003	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2004	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2005	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2006	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2007	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2008	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2009	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2010	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2011	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2012	542,297	57,453,479	462,153	69,561,116	0	0	16,926	16,926	372,767	87,961,138
2013	534,084	56,749,189	462,153	68,735,647	0	0	16,926	16,926	327,700	86,526,068
2014	529,270	56,172,560	452,660	67,991,707	0	0	16,926	16,926	291,325	85,466,924
2015	520,634	55,253,761	444,287	66,855,525	0	0	16,531	16,531	236,981	83,732,754
2016	504,635	53,541,664	428,700	64,748,015	0	0	16,375	16,375	213,181	81,281,818
2017	471,551	49,762,848	394,091	60,138,125	0	0	16,377	16,377	170,317	76,245,208
2018	422,948	43,106,133	328,979	52,292,255	0	0	16,375	16,375	95,289	67,890,898
2019	357,083	35,621,661	259,794	43,335,016	0	0	13,811	13,811	32,762	58,592,194
2020	270,244	28,498,791	204,820	34,496,027	0	0	2,165	2,165	10,971	49,610,067
2021	160,693	20,164,808	145,841	24,172,415	0	0	1,358	1,358	6,932	39,239,665
2022	97,256	13,281,071	107,680	16,151,326	0	0	5	5	6,055	31,195,620
2023	74,424	10,990,938	104,230	13,496,063	0	0	5	5	5,313	28,500,012
2024	61,251	8,962,701	89,437	11,229,657	0	0	3	3	4,819	26,221,964
2025	47,980	7,998,352	84,921	10,041,172	0	0	0	0	3,045	25,015,098
2026	32,114	6,936,364	79,304	8,736,959	0	0	0	0	2,427	23,345,207
2027	26,442	6,409,734	75,323	8,108,655	0	0	0	0	2,014	22,661,884
2028	24,799	5,809,995	68,047	7,456,496	0	0	0	0	1,635	21,830,968
2029	24,094	4,526,851	50,749	6,103,977	0	0	0	0	1,330	20,041,540
2030	21,905	2,984,740	30,855	4,448,926	0	0	0	0	1,043	17,390,984
2031	18,242	1,758,560	16,078	3,090,447	0	0	0	0	907	14,256,438
2032	12,910	1,241,382	11,407	2,433,564	0	0	0	0	805	12,090,501
2033	7,285	780,607	7,535	1,811,833	0	0	0	0	613	11,198,271
2034	3,960	434,479	4,231	1,328,616	0	0	0	0	359	10,645,600
2035	1,571	171,732	1,665	634,353	0	0	0	0	101	9,914,451
TOTAL	27,115,208	2,872,673,953	23,107,649	3,478,057,347	0	0	846,300	846,300	18,638,355	4,464,182,452

a) Unadjusted for prior overpayments or underpayments of charges.

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 Valley Water District	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1962	0	0	0	9,701	8,870	0	18,571	0	0	0
1963	0	0	0	37,626	34,401	81,975	154,002	0	0	0
1964	0	0	0	40,334	37,563	89,509	167,406	0	0	0
1965	0	0	0	77,548	74,688	193,375	345,611	0	0	0
1966	0	0	0	77,723	76,839	213,246	367,808	0	0	0
1967	0	0	0	128,162	123,949	336,184	588,295	0	0	0
1968	0	0	0	123,121	117,736	325,702	566,559	11,321	26,430	37,751
1969	76,239	0	76,239	138,111	130,972	352,537	621,620	62,184	145,173	207,357
1970	88,854	0	88,854	123,233	114,752	305,449	543,434	73,184	170,855	244,039
1971	34,076	0	34,076	107,460	102,997	281,240	491,697	72,791	169,935	242,726
1972	32,991	0	32,991	117,086	112,399	320,296	549,781	78,181	182,520	260,701
1973	29,509	0	29,509	117,008	111,310	310,594	538,912	75,695	176,718	252,413
1974	41,326	0	41,326	145,203	137,947	378,490	661,640	76,984	179,727	256,711
1975	37,247	0	37,247	177,627	170,022	466,623	814,272	63,627	148,546	212,173
1976	41,989	0	41,989	179,042	171,326	469,362	819,730	64,545	150,685	215,230
1977	45,919	0	45,919	179,160	171,431	469,382	819,973	68,437	159,773	228,210
1978	49,312	0	49,312	178,696	170,974	467,997	817,667	68,433	159,763	228,196
1979	48,324	0	48,324	178,231	170,540	466,732	815,503	68,532	160,040	228,592
1980	100,789	92,588	193,377	177,889	170,206	465,835	813,930	68,430	159,754	228,184
1981	97,539	90,420	187,959	178,226	170,527	466,698	815,451	68,632	160,227	228,859
1982	98,193	90,990	189,183	179,637	171,877	470,491	822,005	145,866	366,967	512,833
1983	102,304	94,191	196,495	188,058	180,041	490,333	858,432	180,604	488,905	669,509
1984	103,460	94,586	198,046	187,631	179,616	489,098	856,345	176,150	470,659	646,809
1985	103,347	94,373	197,720	187,794	179,778	489,543	857,115	160,122	410,918	571,040
1986	101,976	93,708	195,684	187,536	179,531	489,082	856,149	158,926	404,600	563,526
1987	101,912	93,573	195,485	187,754	179,746	489,642	857,142	164,133	421,753	585,886
1988	101,775	93,541	195,316	186,641	178,665	486,799	852,105	159,250	406,495	565,745
1989	101,640	93,338	194,978	186,764	178,787	487,092	852,643	161,264	411,689	572,953
1990	101,768	93,532	195,300	186,321	178,371	486,089	850,781	158,254	400,699	558,953
1991	101,841	93,643	195,484	186,356	178,386	486,109	850,851	157,933	399,648	557,581
1992	102,241	94,071	196,312	186,850	178,857	487,462	853,169	161,374	411,615	572,989
1993	102,213	93,962	196,175	186,741	178,761	487,326	852,828	158,802	402,088	560,890
1994	102,273	94,053	196,326	186,738	178,756	487,318	852,812	158,960	402,584	561,544
1995	102,179	93,958	196,137	186,624	178,647	486,997	852,268	158,398	400,689	559,087
1996	101,712	93,463	195,175	185,983	178,042	485,258	849,283	158,126	400,048	558,174
1997	101,771	93,550	195,321	185,777	177,835	484,757	848,369	157,755	398,921	556,676
1998	101,481	93,227	194,708	185,131	177,210	483,092	845,433	157,902	400,171	558,073
1999	101,475	93,219	194,694	185,285	177,364	483,463	846,112	157,884	399,847	557,731
2000	101,532	93,306	194,838	185,120	177,198	483,064	845,382	157,600	398,952	556,552
2001	101,459	93,195	194,654	184,975	177,055	482,714	844,744	155,872	392,658	548,530
2002	101,436	93,161	194,597	184,938	177,020	482,628	844,586	155,710	399,608	549,318
2003	101,426	93,145	194,571	185,111	177,195	483,049	845,355	157,208	397,791	554,999
2004	101,453	93,186	194,639	185,175	177,258	483,201	845,634	156,853	396,217	553,070
2005	101,894	93,853	195,747	184,840	176,925	482,394	844,159	155,416	391,398	546,814
2006	101,941	93,926	195,867	185,008	177,092	482,801	844,901	156,595	395,234	551,829
2007	101,881	93,832	195,713	184,879	176,963	482,487	844,329	155,582	391,946	547,528
2008	101,867	93,814	195,681	184,869	176,954	482,466	844,289	155,577	391,923	547,500
2009	101,831	93,759	195,590	184,917	177,002	482,579	844,498	155,638	392,014	547,652
2010	101,867	93,811	195,678	184,902	176,987	482,543	844,432	155,961	392,879	548,840
2011	101,874	93,822	195,696	184,891	176,976	482,513	844,380	156,040	393,187	549,227
2012	101,869	93,815	195,684	184,896	176,980	482,527	844,403	156,114	393,471	549,585
2013	101,842	93,773	195,615	184,938	177,022	482,628	844,588	156,059	393,172	549,231
2014	101,825	93,750	195,575	184,974	177,058	482,716	844,748	156,247	393,828	550,075
2015	101,832	93,761	195,593	184,905	176,989	482,548	844,442	156,090	393,372	549,462
2016	101,806	93,720	195,526	184,932	177,017	482,615	844,564	156,120	393,415	549,535
2017	101,824	93,748	195,572	184,875	176,960	482,478	844,313	156,049	393,273	549,322
2018	101,798	93,708	195,506	184,899	176,984	482,537	844,420	156,017	393,105	549,122
2019	101,761	93,653	195,414	184,992	177,076	482,761	844,829	155,848	392,708	548,556
2020	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2021	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2022	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2023	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2024	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2025	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2026	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2027	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2028	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2029	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2030	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2031	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2032	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2033	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2034	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
2035	101,985	93,989	195,974	184,904	176,988	482,545	844,437	156,110	393,438	549,548
TOTAL	6,224,453	5,244,548	11,469,001	12,502,308	11,962,238	32,585,146	57,049,692	9,435,055	23,723,601	33,158,656

a) Unadjusted for prior overpayments or underpayments of charges.

TABLE B-16: MINIMUM OMP&R COMPONENT OF

(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		County of Kings	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agricultural				
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	
1962	0	0	0	0	0	0	0	0	0	
1963	0	0	0	0	0	0	0	0	0	
1964	0	0	0	0	0	0	0	0	0	
1965	0	0	0	0	0	0	0	0	0	
1966	0	0	0	0	0	0	0	0	0	
1967	0	0	0	0	0	0	0	0	0	
1968	8,052	36,401	1,890	5,364	58,448	652,897	1,934	2,000	69,347	836,333
1969	43,678	43,823	2,155	6,454	77,556	1,162,999	2,204	2,018	81,037	1,421,924
1970	51,380	44,669	2,179	6,581	92,145	1,333,532	2,228	2,085	82,225	1,617,024
1971	51,105	44,981	2,164	6,627	100,536	1,575,191	2,214	2,209	82,205	1,867,232
1972	54,886	47,462	2,297	6,992	116,504	1,666,754	2,349	2,184	87,014	1,986,442
1973	53,153	48,748	2,325	7,181	122,144	1,687,268	2,378	2,261	88,703	2,014,161
1974	54,067	52,691	2,551	7,761	131,819	1,801,752	2,607	2,497	96,611	2,152,356
1975	44,724	54,416	2,667	8,017	135,202	1,741,233	2,730	2,469	100,457	2,091,915
1976	45,373	56,138	2,755	8,270	138,332	1,777,617	2,818	2,549	103,705	2,137,557
1977	48,099	56,492	2,776	8,322	138,827	1,768,390	2,838	2,540	104,382	2,132,666
1978	48,094	56,214	2,760	8,281	138,126	1,761,447	2,824	2,523	103,874	2,124,143
1979	48,179	56,381	2,768	8,306	138,724	1,767,847	2,831	2,523	104,167	2,131,726
1980	48,091	55,861	2,743	8,229	137,422	1,753,994	2,807	2,509	103,231	2,114,887
1981	48,233	56,124	2,757	8,269	137,955	1,760,598	2,821	2,525	103,718	2,123,000
1982	48,254	56,586	2,781	8,335	139,046	1,771,451	2,843	2,540	104,573	2,136,409
1983	51,925	61,839	3,036	9,108	151,751	1,925,709	3,107	2,661	114,256	2,323,392
1984	51,653	60,888	2,992	8,970	149,245	1,899,736	3,062	2,637	112,552	2,291,735
1985	51,732	61,329	3,012	9,036	150,498	1,912,800	3,081	2,639	113,330	2,307,457
1986	54,208	60,846	2,989	8,963	149,610	1,887,116	3,058	2,633	112,424	2,281,847
1987	54,368	61,072	3,000	8,996	150,198	1,894,035	3,067	2,640	112,833	2,290,209
1988	53,970	60,572	2,974	8,924	149,079	1,879,819	3,042	2,624	111,905	2,272,909
1989	54,097	60,693	2,980	8,942	149,365	1,883,850	3,047	2,627	112,131	2,277,732
1990	54,128	61,265	3,007	9,024	150,922	1,898,944	3,074	2,638	113,143	2,296,145
1991	54,043	60,815	2,985	8,959	149,706	1,886,542	3,053	2,629	112,337	2,281,069
1992	54,230	60,782	2,985	8,954	149,518	1,886,399	3,052	2,632	112,307	2,280,859
1993	54,305	61,377	3,012	9,041	151,113	1,902,313	3,079	2,646	113,356	2,300,242
1994	54,353	61,288	3,008	9,029	150,861	1,900,255	3,077	2,644	113,209	2,297,724
1995	54,274	61,346	3,009	9,038	151,031	1,901,282	3,080	2,645	113,311	2,299,016
1996	54,216	61,484	3,016	9,057	151,511	1,905,298	3,085	2,644	113,536	2,303,847
1997	54,079	60,946	2,991	8,978	150,111	1,890,853	3,060	2,633	112,572	2,286,223
1998	53,814	60,658	2,977	8,937	149,417	1,881,825	3,043	2,623	112,037	2,275,331
1999	53,945	60,995	2,993	8,986	150,284	1,891,264	3,061	2,630	112,648	2,286,806
2000	53,851	60,583	2,975	8,925	149,182	1,879,916	3,041	2,622	111,913	2,273,008
2001	53,739	60,536	2,971	8,918	149,104	1,878,251	3,041	2,620	111,816	2,270,996
2002	53,739	60,568	2,972	8,923	149,193	1,879,078	3,041	2,621	111,876	2,272,011
2003	53,907	60,921	2,988	8,973	150,109	1,889,162	3,056	2,628	112,512	2,284,256
2004	53,814	60,697	2,978	8,942	149,516	1,882,760	3,047	2,624	112,115	2,276,493
2005	53,727	60,523	2,970	8,917	149,077	1,877,878	3,040	2,621	111,796	2,270,549
2006	53,813	60,723	2,981	8,947	149,570	1,883,444	3,048	2,625	112,167	2,277,318
2007	53,765	60,627	2,976	8,931	149,327	1,880,605	3,043	2,623	111,983	2,275,880
2008	53,767	60,621	2,975	8,929	149,328	1,880,640	3,044	2,623	111,975	2,273,902
2009	53,833	60,792	2,984	8,956	149,775	1,885,418	3,053	2,626	112,278	2,279,715
2010	53,798	60,689	2,979	8,942	149,495	1,882,461	3,048	2,624	112,096	2,276,132
2011	53,790	60,670	2,977	8,938	149,438	1,881,828	3,046	2,624	112,063	2,275,374
2012	53,790	60,673	2,977	8,938	149,432	1,881,772	3,045	2,624	112,070	2,275,321
2013	53,833	60,786	2,983	8,954	149,731	1,885,005	3,050	2,627	112,275	2,279,244
2014	53,861	60,849	2,987	8,964	149,899	1,886,887	3,055	2,628	112,383	2,281,513
2015	53,794	60,680	2,977	8,939	149,460	1,882,099	3,046	2,624	112,081	2,275,700
2016	53,826	60,765	2,981	8,950	149,674	1,884,445	3,050	2,626	112,239	2,278,556
2017	53,765	60,605	2,975	8,928	149,258	1,879,959	3,043	2,623	111,951	2,273,107
2018	53,793	60,676	2,977	8,939	149,455	1,882,024	3,046	2,624	112,077	2,275,611
2019	53,884	60,918	2,990	8,973	150,085	1,888,881	3,057	2,629	112,506	2,283,923
2020	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2021	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2022	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2023	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2024	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2025	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2026	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2027	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2028	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2029	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2030	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2031	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2032	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2033	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2034	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
2035	53,795	60,683	2,977	8,939	149,461	1,882,091	3,047	2,624	112,089	2,275,706
TOTAL	3,545,517	3,990,012	195,739	587,781	9,738,490	123,976,979	200,246	174,727	7,368,732	149,778,223

a) Unadjusted for prior overpayments or underpayments of charges.

TRANSPORTATION CHARGE FOR EACH CONTRACTOR^(a)

(in dollars)

Sheet 3 of 4

Calendar Year	SOUTHERN CALIFORNIA AREA									
	Antelope Valley East Kern Water Agency	Castaic Lake Water Agency	Coachella Valley County Water District	Crestline Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Water District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
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	62,657	18,990	11,264	2,848	18,574	1,047	23,474	7,869	50,371	13,864
1969	83,126	25,192	14,944	3,779	24,645	1,391	31,144	10,440	66,837	18,395
1970	102,793	31,155	18,489	4,676	30,494	1,719	38,513	12,909	82,696	22,755
1971	169,207	51,279	30,499	7,713	50,294	2,834	63,398	21,251	136,387	37,505
1972	346,887	143,436	102,192	29,689	168,532	6,299	203,847	45,882	525,412	138,060
1973	391,238	167,622	119,703	33,963	197,414	7,070	240,505	52,013	706,997	185,943
1974	427,521	189,926	131,800	38,139	217,367	7,600	263,365	55,815	805,280	210,850
1975	475,056	211,540	148,731	41,223	245,291	8,884	300,740	64,579	862,143	228,700
1976	481,903	202,104	152,972	44,956	252,281	9,011	303,830	65,528	926,555	241,671
1977	483,436	201,238	149,841	41,340	247,120	9,037	303,395	65,720	860,761	228,656
1978	484,300	202,117	152,647	44,065	251,745	9,068	304,879	65,902	908,452	238,166
1979	484,384	198,472	152,277	43,557	251,140	9,073	305,006	65,951	898,969	236,312
1980	482,998	200,771	150,244	41,415	247,781	9,046	304,264	65,748	860,873	228,744
1981	484,767	213,726	152,287	43,354	251,162	9,079	305,468	65,996	895,523	235,727
1982	487,775	215,387	152,331	42,466	251,229	9,142	307,478	66,433	880,666	233,230
1983	585,439	240,196	190,867	54,787	314,785	11,236	381,677	81,074	1,100,313	288,928
1984	581,797	229,883	193,336	57,864	318,855	11,184	381,529	80,660	1,154,885	299,542
1985	582,836	244,975	188,002	51,517	310,052	11,199	381,169	80,782	1,042,068	277,465
1986	595,351	228,615	194,357	58,694	320,536	11,216	382,420	80,888	1,169,839	302,625
1987	592,698	239,084	198,144	63,020	326,784	11,241	383,056	81,054	1,246,841	317,767
1988	590,561	239,821	188,556	51,619	310,970	11,217	382,393	80,854	1,043,644	277,971
1989	592,098	208,903	197,113	61,442	325,083	11,249	383,732	81,081	1,218,467	312,327
1990	593,600	266,504	186,143	48,177	306,988	11,278	383,463	81,282	983,225	266,425
1991	592,866	246,988	193,215	56,475	318,652	11,274	384,178	81,238	1,130,040	295,143
1992	594,560	225,602	193,303	55,769	318,796	11,311	385,915	81,497	1,118,880	293,361
1993	595,414	246,291	193,203	56,205	318,636	11,316	384,733	81,549	1,126,527	294,640
1994	596,327	255,252	194,038	56,550	320,010	11,344	386,170	81,726	1,132,770	296,119
1995	596,124	230,814	194,252	56,996	320,366	11,337	385,782	81,685	1,140,602	297,571
1996	595,023	242,245	191,865	54,704	316,419	11,311	384,432	81,510	1,099,240	289,223
1997	593,964	227,128	196,350	60,021	323,825	11,300	384,779	81,411	1,193,831	307,750
1998	592,009	255,074	189,979	52,772	313,322	11,266	383,654	81,167	1,064,558	282,305
1999	593,331	245,744	190,116	52,686	313,543	11,291	384,187	81,339	1,063,011	282,094
2000	592,164	235,649	197,338	61,557	325,461	11,270	384,087	81,197	1,220,810	312,870
2001	592,006	255,584	198,256	62,699	326,968	11,277	384,030	81,206	1,241,016	316,796
2002	592,392	225,807	184,753	45,991	304,683	11,286	384,486	81,275	944,008	258,929
2003	593,223	260,004	195,887	59,703	323,068	11,293	384,266	81,347	1,187,764	306,449
2004	592,768	238,995	191,406	54,135	315,668	11,287	384,452	81,303	1,088,791	287,169
2005	592,610	257,453	191,933	54,597	316,541	11,293	384,844	81,331	1,097,018	288,840
2006	593,380	231,707	193,481	56,396	319,097	11,302	385,044	81,404	1,129,103	295,143
2007	592,914	253,606	190,488	52,808	314,156	11,300	384,898	81,366	1,065,188	282,640
2008	592,917	229,263	195,649	59,123	322,671	11,300	384,868	81,366	1,177,438	304,536
2009	593,470	247,654	190,975	53,355	314,960	11,308	384,995	81,437	1,074,909	284,554
2010	593,848	240,342	200,265	64,326	330,289	11,323	385,806	81,528	1,269,852	322,725
2011	594,044	245,392	190,829	52,619	314,716	11,329	386,183	81,564	1,061,830	282,206
2012	594,026	247,061	193,551	55,977	319,209	11,330	386,120	81,561	1,121,510	293,841
2013	594,317	240,894	193,959	56,495	319,879	11,331	386,069	81,593	1,130,725	295,627
2014	594,414	245,768	196,234	59,313	323,632	11,335	385,991	81,597	1,180,752	305,375
2015	593,987	252,604	192,198	54,344	316,975	11,326	386,065	81,553	1,092,520	288,172
2016	594,274	241,677	194,520	57,179	320,807	11,331	386,083	81,588	1,142,812	297,988
2017	593,854	241,880	194,133	56,689	320,166	11,326	386,112	81,544	1,134,174	296,305
2018	593,997	247,596	192,630	54,868	317,684	11,328	386,081	81,557	1,101,753	289,974
2019	594,498	243,497	192,475	54,781	317,432	11,335	385,861	81,599	1,100,246	289,642
2020	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2021	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2022	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2023	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2024	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2025	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2026	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2027	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2028	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2029	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2030	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2031	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2032	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2033	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2034	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
2035	594,175	245,448	193,898	56,332	319,784	11,334	386,266	81,585	1,127,827	295,095
TOTAL	36,887,949	15,155,675	11,886,388	3,440,748	19,603,297	699,424	23,709,172	5,047,109	69,104,114	18,101,135

TABLE B-16: MINIMUM 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	GRAND TOTAL
	San Gorgonio Pass Water Agency	The Metropolitan Water District of Southern California	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)
1962	0	0	0	0	0	0	0	0	0	18,571
1963	0	0	0	0	0	0	0	0	12,486	166,488
1964	0	0	0	0	0	0	0	0	13,661	181,067
1965	0	0	0	0	0	0	0	0	28,590	374,201
1966	0	0	0	0	0	0	0	0	30,593	398,401
1967	0	0	0	0	0	0	0	0	47,845	636,140
1968	8,493	936,601	9,151	1,165,203	0	0	0	0	45,589	2,651,435
1969	11,266	1,247,361	12,142	1,550,662	0	0	0	0	49,919	3,927,721
1970	13,944	1,549,120	15,014	1,924,277	0	0	0	0	65,046	4,482,674
1971	22,994	2,570,854	24,713	3,188,928	0	0	58	58	51,074	5,875,791
1972	85,396	7,784,039	66,649	9,646,320	0	0	40	40	76,131	12,552,406
1973	115,127	9,725,511	77,316	12,020,422	0	0	1	1	49,352	14,904,770
1974	130,661	11,965,474	86,849	14,530,647	0	0	145	145	69,641	17,712,466
1975	141,486	12,625,664	96,049	15,450,086	0	0	157	157	111,754	18,717,604
1976	149,928	12,465,356	93,385	15,389,480	0	0	157	157	112,387	18,716,530
1977	141,415	12,158,749	93,169	14,983,877	0	0	158	158	112,457	18,323,260
1978	147,619	12,448,221	93,263	15,350,444	0	0	156	156	112,201	18,682,119
1979	146,406	11,981,593	92,056	14,865,196	0	0	155	155	111,986	18,201,482
1980	141,465	12,338,600	92,530	15,164,479	0	0	155	155	111,719	18,626,731
1981	146,007	12,801,855	99,246	15,704,197	0	0	156	156	111,920	19,171,542
1982	144,320	12,883,534	99,997	15,773,988	0	0	157	157	112,790	19,547,365
1983	179,002	14,639,247	110,192	18,177,743	0	0	158	158	119,620	22,345,349
1984	185,957	15,255,318	106,672	18,857,482	0	0	158	158	119,289	22,969,864
1985	171,504	14,810,967	111,661	18,264,197	0	0	156	156	119,440	22,317,125
1986	187,953	15,312,033	106,301	18,950,828	0	0	158	158	119,160	22,967,352
1987	197,865	15,512,151	109,823	19,279,528	0	0	157	157	119,311	23,327,718
1988	171,805	14,967,415	109,922	18,426,748	0	0	157	157	118,439	22,431,419
1989	194,282	14,328,956	99,914	18,014,647	0	0	157	157	118,512	22,031,622
1990	164,207	15,792,593	118,930	19,202,815	0	0	157	157	118,209	23,222,360
1991	183,010	15,612,142	112,431	19,217,652	0	0	157	157	118,038	23,220,832
1992	181,796	14,875,700	105,622	18,442,112	0	0	157	157	118,250	22,463,848
1993	182,660	15,377,463	112,435	18,981,072	0	0	157	157	118,177	23,009,541
1994	183,593	15,809,378	115,409	19,438,686	0	0	157	157	118,216	23,465,465
1995	184,555	15,196,775	107,403	18,804,262	0	0	158	158	118,152	22,829,080
1996	179,126	15,049,615	111,075	18,605,788	0	0	157	157	117,793	22,630,217
1997	191,254	15,134,606	106,076	18,812,295	0	0	157	157	117,571	22,816,612
1998	174,610	15,580,613	115,117	19,096,446	0	0	156	156	117,092	23,087,239
1999	174,460	15,366,970	112,137	18,870,909	0	0	156	156	117,222	22,873,630
2000	194,632	15,466,266	108,798	19,192,099	0	0	156	156	117,046	23,179,081
2001	197,204	16,051,013	115,293	19,833,348	0	0	156	156	116,906	23,809,334
2002	159,275	14,262,664	105,552	17,561,101	0	0	156	156	116,868	21,546,637
2003	190,416	16,062,048	116,816	19,772,284	0	0	156	156	117,020	23,768,641
2004	177,780	15,142,413	109,910	18,676,077	0	0	156	156	117,070	22,663,139
2005	178,867	15,886,127	115,931	19,457,385	0	0	156	156	116,733	23,431,543
2006	182,992	14,890,118	107,564	18,476,731	0	0	156	156	116,886	22,463,688
2007	174,804	15,596,706	114,691	19,114,565	0	0	156	156	116,766	23,093,937
2008	189,148	15,091,264	106,718	18,746,261	0	0	156	156	116,751	22,724,540
2009	176,053	15,359,064	112,763	18,885,497	0	0	156	156	116,800	22,869,908
2010	201,046	15,622,513	110,382	19,434,245	0	0	156	156	116,769	23,416,252
2011	174,489	15,264,324	112,038	18,771,563	0	0	156	156	116,761	22,753,157
2012	182,109	15,553,526	112,591	19,152,412	0	0	156	156	116,765	23,134,326
2013	183,284	15,312,787	110,582	18,917,542	0	0	156	156	116,806	22,903,182
2014	189,670	15,646,430	112,181	19,332,692	0	0	156	156	116,843	23,321,602
2015	178,401	15,617,549	114,408	19,180,102	0	0	156	156	116,775	23,162,230
2016	184,830	15,338,149	110,837	18,962,075	0	0	156	156	116,800	22,947,212
2017	183,727	15,474,190	110,889	19,084,989	0	0	156	156	116,742	23,064,201
2018	179,582	15,397,213	112,767	18,967,030	0	0	156	156	116,769	22,948,614
2019	179,366	15,329,363	111,443	18,891,538	0	0	156	156	116,858	22,881,274
2020	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2021	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2022	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2023	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2024	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2025	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2026	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2027	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2028	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2029	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2030	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2031	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2032	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2033	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2034	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
2035	182,930	15,473,468	112,065	19,080,207	0	0	156	156	116,774	23,062,802
TOTAL	11,218,721	950,043,689	6,947,843	1,171,845,264	0	0	9,781	9,781	7,654,750	1,430,965,367

a) Unadjusted for prior overpayments or underpayments of charges.

TABLE B-17: UNIT VARIABLE OMP&R COMPONENT OF TRANSPORTATION CHARGE ^(a)

(in dollars per acre-foot)

Sheet 1 of 3

Calendar Year	NORTH BAY AQUEDUCT				SOUTH BAY AQUEDUCT		CALIFORNIA AQUEDUCT			
	Reach 1 Calhoun and Travis Pumping Plants		Reach 3 Cordelia Pumping Plant ^(b)		Reach 1 South Bay and Del Valle Pumping Plant ^(c)		Reach 1 Delta Pumping Plant		Reach 4 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	0	0	0	0	4.1504604	4.1504604	0	0	0	0
1963	0	0	0	0	4.5633057	4.5633057	0	0	0	0
1964	0	0	0	0	3.5433026	3.5433026	0	0	0	0
1965	0	0	0	0	4.1891495	4.1891495	0	0	0	0
1966	0	0	0	0	3.5059458	3.5059458	0	0	0	0
1967	0	0	0	0	3.9293202	5.1323883	1.2030681	1.2030681	0	0
1968	0	0	5.7570016	5.7570016	3.3309386	4.7866426	1.4557040	1.4557040	1.0630077	2.5187117
1969	0	0	3.1823595	3.1823595	3.6892357	4.6975811	1.0083454	1.0083454	6.944506	1.7027960
1970	0	0	3.7584301	3.7584301	4.4145266	5.3540762	9.995496	9.995496	7.782945	1.7178441
1971	0	0	4.2082507	4.2082507	3.8631218	4.7414795	.8783577	.8783577	4.116446	1.2900023
1972	0	0	3.9577735	3.9577735	4.3226200	5.2196418	.8970218	.8970218	5.506799	1.4477017
1973	0	0	3.8103903	3.8103903	5.2470291	6.1616426	9.146135	9.146135	5.795166	1.4941301
1974	0	0	3.0611452	3.0611452	5.6814192	6.5405192	.8591000	.8591000	5.524560	1.4115560
1975	0	0	3.0241935	3.0241935	4.0402490	5.0915260	1.0512770	1.0512770	4.877665	1.5390435
1976	0	0	4.0740741	4.0740741	4.0845692	5.0650313	.9804621	.9804621	5.368705	1.5173326
1977	0	0	3.6630037	3.6630037	4.3951711	5.6654185	1.2702474	1.2702474	5.732590	1.8435064
1978	0	0	3.9783002	3.9783002	5.0660979	6.0934689	1.0273710	1.0273710	6.751743	1.7025453
1979	0	0	3.9145907	3.9145907	4.8601884	6.7078161	1.8476277	1.8476277	6.700025	2.5176302
1980	1.0884156	1.0884156	5.9826087	7.0710243	5.4613131	6.4258308	.9645177	.9645177	7.432631	1.7077808
1981	.9736384	.9736384	6.2222222	7.1958606	5.4184015	6.4422247	1.0238232	1.0238232	.7509532	1.7747764
1982	.8711111	.8711111	5.7815126	6.6526237	5.0913649	6.0991489	1.0077840	1.0077840	.7185160	1.7263000
1983	3.2038433	3.2038433	21.8367347	25.0405780	17.9220721	22.5498536	4.6277815	4.6277815	2.4136320	7.0414135
1984	3.4017630	3.4017630	23.5761589	26.9779219	19.3696936	22.1880140	2.8183204	2.8183204	2.6447471	5.4630675
1985	3.0512210	3.0512210	22.6451613	25.6963823	18.6044650	22.4092053	3.8047403	3.8047403	2.6174269	6.4221672
1986	2.7218004	2.7218004	21.3125000	24.0343004	17.8775490	21.3695110	3.4919620	3.4919620	2.6190112	6.1109732
1987	2.4760870	2.4760870	21.2727273	23.7488143	17.8423087	21.6161240	3.7738153	3.7738153	2.6549801	6.4287954
1988	2.8619435	2.8619435	19.7647059	22.6266494	16.7962623	20.4715728	3.6753105	3.6753105	2.5968860	6.2719656
1989	2.6206887	2.6206887	20.3428571	22.9635458	17.2661072	20.7939719	3.5278647	3.5278647	2.7608268	6.2886915
1990	2.8504589	2.8504589	17.8333333	20.6837922	15.2219142	20.3939551	5.1720409	5.1720409	2.4370607	7.6091016
1991	2.9822977	2.9822977	18.6021505	21.5844482	15.7295944	19.8276866	4.0980922	4.0980922	2.5479448	6.6460370
1992	3.0669068	3.0669068	18.8020833	21.8689901	15.9017876	19.3287789	3.4269913	3.4269913	2.6244703	6.0514616
1993	2.7790570	2.7790570	28.9447236	31.7237806	14.2707998	19.1565919	4.8857921	4.8857921	2.3803460	7.2661381
1994	2.8688258	2.8688258	30.0487805	32.9356063	14.5174605	19.0184968	4.5010363	4.5010363	4.700544	6.9710907
1995	2.8801905	2.8801905	29.3333333	32.2152528	14.4599101	19.1895285	4.7296184	4.7296184	2.4583313	7.1879497
1996	2.8007353	2.8007353	27.3394495	30.1401848	14.0916890	19.7234388	5.6317498	5.6317498	2.3964531	8.0282029
1997	2.9048440	2.9048440	27.6991150	30.6039590	14.5801615	19.0791485	4.4989870	4.4989870	2.4908950	6.9898820
1998	2.8031073	2.8031073	26.1111111	28.9142184	18.0957428	18.5681299	4.4723871	4.4723871	2.4103064	6.8826935
1999	2.7929174	2.7929174	25.4545455	28.2474629	14.0039238	19.0445534	5.0406296	5.0406296	2.4026223	7.4432519
2000	2.8959346	2.8959346	25.8400000	28.7359346	14.3682802	18.5286693	4.1603891	4.1603891	2.4529503	6.6133394
2001	2.7640371	2.7640371	23.4339623	26.1979994	13.8483479	18.1889124	4.3405645	4.3405645	2.3588455	6.6994100
2002	2.7232028	2.7232028	22.1785714	24.9017742	13.6886547	18.0911019	4.4024472	4.4024472	2.3500208	6.7524680
2003	2.7051030	2.7051030	21.2203390	23.9254420	13.5787961	18.6412541	5.0624580	5.0624580	2.3026513	7.3651093
2004	2.7532955	2.7532955	20.8387097	23.5920052	14.2289525	18.8099033	4.5809508	4.5809508	2.3588776	6.9168284
2005	3.5448533	3.5448533	20.0307692	23.5756225	13.4769785	17.8726558	4.3956773	4.3956773	2.2744548	6.6701321
2006	3.6304260	3.6304260	19.4411765	23.0716025	13.7842811	18.3338094	4.5495283	4.5495283	2.3390344	6.8885627
2007	3.5205122	3.5205122	18.1971831	21.7176953	13.4469325	17.9898561	4.5429236	4.5429236	2.2698013	6.8127249
2008	3.4978540	3.4978540	17.5945946	21.0924486	13.4034562	17.9675277	4.5640715	4.5640715	2.2681999	6.8322714
2009	3.4328352	3.4328352	16.9090909	20.3419261	13.2142271	18.1450974	4.9308703	4.9308703	2.2305473	7.1614176
2010	3.4957642	3.4957642	16.7750000	20.2707642	13.4370798	18.0873063	4.6502265	4.6502265	2.2627376	6.9129641
2011	3.5083983	3.5083983	16.2142857	19.7226840	13.4574681	18.0262774	4.5688093	4.5688093	2.2702214	6.8390307
2012	3.5000000	3.5000000	15.5909091	19.0909091	13.4990798	18.0420279	4.5429481	4.5429481	2.2748743	6.8178224
2013	3.4504043	3.4504043	14.9130435	18.3634478	13.3950532	18.1641187	4.7690655	4.7690655	2.2596299	7.0286954
2014	3.4221308	3.4221308	14.3958333	17.8179641	13.3638457	18.2860563	4.9222106	4.9222106	2.2506326	7.1728432
2015	3.4349582	3.4349582	14.0200000	17.4549582	13.4834734	18.0683847	4.5849113	4.5849113	2.2696878	6.8545991
2016	3.3870954	3.3870954	13.4807892	16.8678646	13.4158564	18.1438872	4.7325308	4.7325308	2.2632303	6.9957611
2017	3.4200000	3.4200000	13.2592593	16.6792593	13.5562926	17.9651595	4.4088669	4.4088669	2.2843495	6.6932164
2018	3.3730204	3.3730204	12.7857143	16.1587347	13.4730691	18.0532467	4.5801776	4.5801776	2.2701596	6.8503372
2019	3.3070850	3.3070850	12.2586207	15.5657057	13.2650213	18.3378854	5.0728641	5.0728641	2.2352782	7.3081423
2020 (d)	3.7071656	3.7071656	11.6880000	15.3951656	13.5042819	18.0650100	4.5607281	4.5607281	2.2756287	6.8363568

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 downstream of the indicated pumping plants and power plants.

b) Between 1968 and 1979, inclusive, rates are for an interim facility.

c) 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.

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

TABLE B-17: UNIT VARIABLE OMP&R COMPONENT

(in dollars per acre-foot)

Sheet 2 of 3

Calendar Year	CALIFORNIA AQUEDUCT (Continued)											
	Reach 14A		Reach 15A		Reach 16A		Reach 17E		Reach 18A		Reach 22B	
	Buena Vista Pumping Plant		Wheeler Ridge Pumping Plant		Wind Gap Pumping Plant		A.D. Edmonston (Tehachapi) Pumping Plant		Cottonwood Powerplant		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	Unit Rate	Cumulative Unit Rate
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	
1962	0	0	0	0	0	0	0	0	0	0	0	
1963	0	0	0	0	0	0	0	0	0	0	0	
1964	0	0	0	0	0	0	0	0	0	0	0	
1965	0	0	0	0	0	0	0	0	0	0	0	
1966	0	0	0	0	0	0	0	0	0	0	0	
1967	0	0	0	0	0	0	0	0	0	0	0	
1968	0	0	0	0	0	0	0	0	0	0	0	
1969	0	0	0	0	0	0	0	0	0	0	0	
1970	3333333	2 0511774	0	0	0	0	0	0	0	0	0	
1971	1 3292714	2 6192737	2 0979730	4 7172467	2 0074910	0	0	0	0	0	0	
1972	1 013968	2 4616425	9490083	5 4106708	2 0074910	5 4181621	6 6343240	12 0524861	0	0	2 4570792	14 5095653
1973	423867	2 4185168	1 1228465	3 5413633	1 9675834	5 5089467	6 9945960	12 5035427	0	0	4 0731978	16 5767405
1974	9118620	2 3234180	1 0483022	3 3717202	1 9950125	5 3667327	7 1368196	12 5035523	0	0	3 7515583	16 2551106
1975	8415224	2 3805659	9621957	3 3427616	1 8329843	5 1757459	6 6641120	11 8398579	0	0	2 3607131	14 2005710
1976	9162413	2 4335739	9871623	3 4207362	2 0512193	5 4719555	7 4214847	12 8934402	0	0	3 1431541	16 0365943
1977	9117450	2 7552514	1 0581275	3 8133789	2 0473438	5 8607227	7 3975926	13 2583153	0	0	3 2871224	16 5454377
1978	1 0484774	2 7510227	1 1477832	3 8988059	2 3264270	6 2252329	8 6117608	14 8369937	0	0	3 9701348	18 8071285
1979	1 0339993	3 5510295	1 1796654	4 6689960	2 3661590	7 0351550	8 5764847	15 6116397	0	0	3 7174925	19 3291322
1980	1 0702237	2 7780045	1 2441964	4 0221639	2 4149424	6 4371063	8 7595350	15 1966413	0	0	4 0334218	19 2300631
1981	1 1484163	2 9231927	1 2547199	4 1779126	2 4440660	6 6219786	8 8787214	15 5007000	0	0	4 2230747	19 7237747
1982	1 0535747	2 8604625	4 4772977	4 0677875	2 4596211	6 5274086	9 2284656	15 7558742	0	0	3 7820004	19 5378746
1983	3 5238833	10 5652968	3 8625176	14 4278144	8 1791490	22 6069634	27 2777907	49 8847541	- 7072330	49 1775211	13 5235911	62 7011122
1984	4 0375174	9 5005849	4 0932763	13 5938612	8 6152924	22 2091536	28 7368853	50 9460389	- 9485595	49 9974794	14 5506927	64 5481721
1985	3 8468541	10 2690213	4 3107909	14 5798122	8 2565291	22 8363413	27 6264609	50 4628022	- 6778001	49 7850021	13 5606932	63 3456953
1986	3 9442885	10 0552617	4 0704229	14 1256846	8 0315715	22 1572561	29 5822142	51 7394703	- 9282120	50 8112583	13 6694490	64 4807073
1987	3 8561370	10 2849324	4 3543505	14 6392829	8 3434741	22 9827570	28 7119344	51 6946914	- 8011945	50 8934969	13 6951651	64 5886620
1988	3 8225582	10 0947547	4 0663236	14 1610783	8 7186360	22 8797143	29 9685611	52 8482754	- 8637550	51 9845204	13 0754730	65 0599934
1989	4 1052622	10 3939537	4 4079825	14 8019362	8 6942183	23 4961545	29 8501743	53 3463288	- 8535326	52 4927962	13 4312236	65 9240198
1990	3 8404035	11 4495051	3 9528362	15 4023413	8 5213770	23 9237183	29 2729977	53 6467160	- 9596419	52 6870741	12 1101426	64 7972167
1991	3 9838951	10 6299321	4 3821673	15 0120994	8 8057793	23 8178787	30 6630202	54 4808989	- 1 1497194	53 3311795	12 5461875	65 8773670
1992	4 0735747	10 1250363	4 4772977	14 6023442	8 9918135	23 5915158	31 2915158	54 8856663	- 1 0253045	53 8603618	12 8664631	66 6268249
1993	3 8716883	11 1378264	4 0460014	15 1838278	8 2981484	23 4819742	30 6878692	54 1698454	- 1 734007	52 9644447	11 7932525	64 7896972
1994	3 9188732	10 8899639	4 3682248	15 2581887	8 8998597	24 1581746	30 8462784	55 0044530	- 1 1265510	53 8779020	12 1338176	66 0117196
1995	3 8968025	10 8676522	4 3107909	15 4272423	8 6895709	24 1166130	30 6733508	54 7901638	- 1 1028709	53 6872929	12 0575932	65 7448782
1996	3 7988751	11 8270780	4 2108397	16 0379177	8 5850126	24 6229303	29 7829439	54 4058742	- 1 0699840	53 3358902	11 8918219	65 2277121
1997	4 1100534	11 0999354	4 3277589	14 4276943	8 8181728	24 2458671	30 5636001	54 8094672	- 9555965	53 8538707	12 2014697	66 0534044
1998	3 9297935	10 8124870	4 1367795	14 9492665	8 9477971	23 8972456	31 4335901	55 3308357	- 1 3502323	53 9806034	11 9523167	65 9329201
1999	3 8872408	11 3304927	4 1004090	15 4309017	8 8366024	24 2675041	31 0198408	55 2873449	- 1 2227460	54 0645989	11 8806434	65 9452423
2000	3 9656513	10 5789907	4 1752502	14 7542409	8 9993381	23 7535790	31 5668594	55 3204384	- 1 1489437	54 1714947	12 1178404	66 2893351
2001	3 9721287	10 6715387	4 2247980	14 8963367	8 7408400	23 6371767	32 3136197	55 9507964	- 1 4122732	54 5385232	11 7242606	66 2627838
2002	3 9662013	10 7186693	4 2185387	14 9372080	8 7281407	23 6653487	32 2755648	55 9429135	- 1 1105669	54 8523466	11 8066127	66 6388593
2003	3 8615442	11 2267635	4 3596092	15 5863727	8 8298864	24 4162591	31 3382996	55 7545887	- 1 3897023	54 3648454	11 6050653	65 9699217
2004	3 9388971	10 8557255	4 4234156	15 2791411	8 9540408	24 2331819	31 7695560	56 0027379	- 1 4327990	54 5694589	11 8241842	66 3936431
2005	4 0034951	10 6736272	4 2902161	14 9638433	8 8235102	23 7873535	32 8799172	56 6672707	- 1 4049644	55 2623063	11 6053811	66 8676874
2006	4 1233183	11 0118810	4 4153675	15 4272485	9 0793874	24 5066359	31 6812665	56 1879024	- 1 2676603	54 9202421	11 9076101	66 8278522
2007	3 9892969	10 8020218	4 2737825	15 0758043	8 7893796	23 8651839	32 7467341	56 6119180	- 1 4431458	55 1687722	11 6461328	66 8149050
2008	3 9892116	10 8214830	4 2732021	15 0946851	8 7883631	23 8830482	32 7467367	56 6297849	- 1 4249948	55 2047901	11 5360242	66 7408143
2009	3 9148914	11 0763090	4 1917969	15 2681059	9 0961343	24 3642402	32 1127981	56 4770383	- 1 2661786	55 2108597	11 4814478	66 6923075
2010	3 9865583	10 8995224	4 4849311	15 3844535	9 2089819	24 5934354	32 4941779	57 0876133	- 1 2484754	55 8391379	11 5642066	67 4033465
2011	4 0028537	10 8418844	4 5026141	15 3444985	9 2408465	24 5853450	32 5927200	57 1780650	- 1 1617670	56 0162980	11 7251569	67 7414549
2012	4 0805538	10 8258762	4 5075407	15 3394169	9 2513741	24 5847910	32 6289134	57 2137044	- 1 2504907	55 9632137	11 7039590	67 6671727
2013	3 9837842	11 0124796	4 4809903	15 4934699	9 1962621	24 6897320	32 4358970	57 1256290	- 1 2193077	55 9063253	11 6119812	67 5183065
2014	3 9646829	11 1375261	4 4591471	15 5966732	9 1523111	24 7489843	32 2826093	57 0315936	- 1 2096083	55 8219853	11 5426598	67 3646451
2015	3 9993559	10 8539550	4 4978443	15 3518093	9 2308574	24 5826667	32 5548871	57 1375538	- 1 2191541	55 9183997	11 7136462	67 6340459
2016	3 9891125	10 9848736	4 4870836	15 4719572	9 2092915	24 6812487	32 4829922	57 1642409	- 1 2287928	55 9354481	11 6228829	67 5583310
2017	4 0062002	10 6994166	4 5276232	15 2270398	9 2910227	24 5180625	32 7640111	57 2820736	- 1 2628736	56 0192000	11 7101522	67 7293522
2018	4 0014305	10 8517677	4 5003031	15 3520708	9 2355704	24 5876412	32 5719632	57 1596044	- 1 2206067	55 9389977	11 6997943	67 6387920
2019	3 9415955	11 2497378	4 4337441	15 6834819	9 1002418	24 7837237	32 1000977	56 8883214	- 1 2071678	55 6766536	11 4936014	67 1702550
2020	4 0117964	10 8481532	4 5124155	15 3605687	9 2612141	24 6217828	32 6669074	57 2886902	- 1 2147345	56 0739557	11 6857315	67 7596872

OF TRANSPORTATION CHARGE (a)

(in dollars per acre-foot)

Sheet 3 of 3

Calendar Year	CALIFORNIA AQUEDUCT (continued)											
	Reach 26A Devil Canyon Powerplant		Reach 29A Oso Pumping Plant		Reach 29 G Pyramid Powerplant		Reach 29J Castaic Powerplant		Reach 31A Las Perillas and Badger Hill Pumping Plants		Reach 33 Devil's Den, Sawtooth, and Polonio Pumping Plants and San Luis Obispo Powerplant	
	Unit Rate	Cumulative	Unit Rate	Cumulative	Unit Rate	Cumulative	Unit Rate	Cumulative	Unit Rate	Cumulative	Unit Rate	Cumulative
	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)
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	1.5011956	4.0199073	0	0
1969	0	0	0	0	0	0	0	0	1.2616815	2.9644775	0	0
1970	0	0	0	0	0	0	0	0	1.6307308	3.3485749	0	0
1971	0	0	0	0	0	0	0	0	1.4978147	2.7878170	0	0
1972	-2.3717647	12.1378006	1.2631301	13.3156162	0	0	-2.9350830	10.3805332	1.7485935	3.1562952	0	0
1973	-8.6746121	7.9021284	9.091471	13.4126898	0	0	-5.755932	7.6389066	1.4587196	2.9528497	0	0
1974	-4.6671494	11.5879612	8.779712	13.3815235	0	0	-6.7109154	6.6760681	1.5795149	2.9910709	0	0
1975	-4.9215488	9.2790222	9.160303	12.7588882	0	0	-5.4454545	7.3104337	1.5387140	3.0717575	0	0
1976	-5.7100793	10.3265150	9.9351333	13.8285735	0	0	-6.8105047	7.0180688	1.6560447	3.1733773	0	0
1977	-5.4278749	11.1175628	9.5721113	14.2155266	0	0	-8.4130556	5.8024710	1.9620201	3.8055265	0	0
1978	-5.5157745	13.2913540	9.687098	15.8057035	0	0	-9.0804559	6.7252476	2.3567327	4.0527280	0	0
1979	-6.3808319	12.9483003	1.0087857	16.6204254	0	0	-10.5433999	6.0770255	2.0936327	4.6112629	0	0
1980	-6.2635712	12.9664919	9.779038	16.1745451	0	0	-10.3591452	5.8153999	2.4267266	4.1365074	0	0
1981	-6.0979981	13.6257766	1.0008377	16.5015377	-1.9631206	14.5384171	-10.5153703	4.0230468	2.3197518	4.0945282	0	0
1982	-6.2670871	13.2707875	9.965960	16.7224702	-4.3964798	12.3259004	-9.3031316	3.0228588	2.1005648	3.8268648	26.6190000	30.4458648
1983	-14.9441901	47.7569221	2.2169184	52.1016725	-18.2973355	33.8043370	-18.2127201	15.5916169	7.6749359	14.7163494	81.6923378	96.4086827
1984	-14.7572963	49.7908758	2.2598951	53.2059340	-16.1306926	37.0752414	-17.6046740	19.4705674	8.2873173	13.7503848	73.2537778	87.0041626
1985	-14.3836526	48.9620427	2.2093649	52.6721671	-15.7198328	36.9523343	-16.3221833	20.6301510	7.6877766	14.1099438	39.6388450	53.7487888
1986	-15.6548428	48.8258645	2.1041036	53.8435739	-16.5859866	37.2575873	-16.7949458	20.4626415	7.2008479	13.3118211	35.1420350	48.4538561
1987	-15.7354889	48.8531731	2.5739442	54.2686356	-15.0432542	39.2253814	-13.8321575	25.3932239	7.6686100	14.0974054	41.9217545	56.0191599
1988	-15.6111919	49.4488015	3.3626330	56.2109084	-15.1053152	41.1055932	-14.4556755	26.6499177	7.0497031	13.3218996	36.9165814	50.2384810
1989	-15.5215421	50.4024777	3.2664082	56.6127370	-13.6543679	42.9583691	-13.8580170	29.1003521	7.2786472	14.0573387	37.4003760	50.9677147
1990	-15.5217324	49.2758443	3.7819258	57.4286418	-15.8734020	45.5552398	-13.754468	29.7674637	6.4246147	14.0337163	30.9638628	44.9927191
1991	-15.0965718	50.7807952	3.9087149	58.3896138	-13.7411539	44.6484599	-12.6599966	31.9884633	6.8637328	13.5097698	31.0427176	44.5524874
1992	-15.1224651	51.6035959	3.9846368	58.8703031	-4.0546253	44.8134778	-13.4963655	31.3171125	7.3707868	13.4222484	37.0335585	50.4558049
1993	-15.3096887	49.4800085	4.0883141	58.2581595	-13.2487301	45.0094294	-13.4450826	31.5643468	6.5763971	13.825352	31.3104741	45.1530093
1994	-15.4860929	50.5256267	4.0690163	59.0734693	-13.2295103	45.8439590	-12.1636761	33.6802829	6.7965150	13.7676057	31.5805732	45.3481789
1995	-15.1573470	50.5875312	4.0481877	58.6383515	-13.3901011	45.4482504	-13.0345582	32.4136922	6.7107583	13.8987080	30.5666539	44.4653619
1996	-16.2419513	48.9857608	3.8808246	58.2866988	-12.6141548	45.6725440	-13.2457203	32.4268237	6.4504317	14.4786346	29.9942333	44.4728679
1997	-15.9185335	50.1368069	3.9922016	58.8016688	-13.1358647	45.6658041	-12.4684461	33.1973580	6.6545852	13.6444672	30.4420433	44.0865105
1998	-16.8435409	49.0893792	4.2742506	59.6050863	-12.7889173	46.8161690	-13.4378184	33.3783506	6.3758241	13.2585176	32.1970192	45.4553368
1999	-15.7756745	50.1695678	4.2130290	59.5003739	-12.3567004	47.1436735	-12.7591804	34.3844931	6.3191518	13.7624037	31.2594047	45.0218084
2000	-16.1490676	50.1402675	4.2921847	59.6126231	-11.8320449	47.7805782	-13.1754448	34.6051334	6.4651734	13.0785128	31.6055238	44.0840366
2001	-17.2551370	49.0076468	4.2570348	60.2078312	-12.3320381	47.8757931	-13.6027600	34.2730331	6.1297303	12.8291403	28.4513898	41.2805301
2002	-16.2335206	50.4054387	4.2379449	60.1808584	-11.8294434	48.3514150	-13.4229663	34.9284487	6.0050089	12.7574769	32.5178663	45.2753432
2003	-15.7648617	50.2050600	4.5472818	60.3018405	-11.7784187	48.5234218	-14.1222945	34.4011273	6.2077254	13.5728347	30.7416228	44.3144575
2004	-15.6927395	50.7009306	4.3660059	60.3687438	-11.8979098	48.4708340	-14.3127863	34.1580477	6.2447907	13.1616191	30.0234400	43.1806000
2005	-17.8151952	49.0524922	4.4241444	61.0914151	-11.7118622	49.3795529	-14.4971292	34.8824237	6.0578056	12.7279377	28.2544135	40.9823512
2006	-17.3707175	49.4571347	4.5719267	60.7598291	-11.5819652	49.1778639	-13.3722752	35.8055887	6.2378587	13.1264214	29.4911608	42.6175822
2007	-17.6789308	49.1359742	4.3845108	60.9964288	-11.4881042	49.5083246	-14.6169533	34.8913683	6.0720231	12.8847480	28.3368682	41.2216162
2008	-17.6194407	49.1213736	4.4096651	61.0394500	-11.5774794	49.4619706	-14.7132197	34.7487509	6.0625464	12.8948178	28.3133132	41.2081310
2009	-17.2286612	49.4636463	4.5082225	60.9852608	-11.1991327	49.7861281	-13.7731866	36.0129415	5.9814734	13.1528910	27.9835067	41.1363977
2010	-17.9427027	49.4606438	4.3502122	61.4378255	-11.4421457	49.9956798	-14.5006416	35.4950382	6.1288787	13.0418428	28.2544135	41.2962563
2011	-18.2724098	49.4690451	4.3452474	61.5233124	-11.3734435	50.1498689	-14.4462967	35.7035722	6.1715216	13.0105523	28.4782104	41.4887627
2012	-18.4602551	49.2069176	4.3551968	61.5689012	-11.4500106	50.1188906	-14.0579974	36.0608932	6.1904750	13.0082974	28.6431076	41.6514050
2013	-18.4421128	49.0761937	4.3354517	61.4610807	-11.4741701	49.9869106	-14.0929350	35.8939756	6.1383554	13.1670508	28.2308585	41.3971004
2014	-18.5527414	48.8119037	4.3147901	61.3463837	-11.4640288	49.8823553	-14.0797824	35.8025729	6.1194200	13.2922452	28.4311004	41.7233456
2015	-18.6092100	49.0228359	4.3756449	61.4751187	-11.4343634	49.0407554	-14.0030373	36.0377181	6.1809983	13.0355974	28.5488754	41.5844729
2016	-18.5162157	49.0421153	4.3419922	61.5062331	-11.4843910	50.0218421	-14.1023350	35.9195071	6.1478322	13.1435933	28.4075333	41.5511266
2017	-18.4269999	49.3023523	4.3838367	61.6659103	-11.2514329	50.4144774	-14.6416782	35.7727992	6.2236460	12.9168624	28.6666626	41.5835250
2018	-18.5264491	49.1121429	4.3450358	61.5046402	-11.4413900	50.0632502	-14.0430326	36.0202176	6.1762824	13.0265996	28.4075333	41.4341329
2019	-18.2665772	48.9036778	4.5170819	61.4009033	-11.4659090	49.3849943	-14.1718894	35.7633049	6.0720231	13.3801654	28.0541898	41.4343432
2020 (d)	-18.5623313	49.1973559	4.3662159	61.6549061	-11.4955668	50.1593393	-14.1154580	36.0438813	6.1904750	13.0268318	28.5959976	41.6228294

TABLE B-18: VARIABLE OMP&R COMPONENT OF

(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 Valley Water District	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1962	0	0	0	2,050	34,914	0	36,964	0	0	0
1963	0	0	0	7,899	49,804	0	57,703	0	0	0
1964	0	0	0	5,928	68,166	0	74,094	0	0	0
1965	0	0	0	10,913	68,731	62,896	142,540	0	0	0
1966	0	0	0	19,321	52,112	121,089	192,522	0	0	0
1967	0	0	0	19,392	56,932	160,597	236,921	0	0	0
1968	6,989	0	6,989	29,357	118,790	335,567	483,714	0	0	0
1969	8,551	0	8,551	31,168	3,819	292,491	327,478	0	0	0
1970	13,598	0	13,598	49,520	0	429,991	479,511	0	0	0
1971	10,609	0	10,609	23,788	28,264	415,382	467,434	0	0	0
1972	14,434	0	14,434	54,749	144,432	523,353	722,534	0	0	0
1973	14,449	0	14,449	18,331	15,534	545,810	579,675	0	0	0
1974	14,969	0	14,969	8,594	26	575,566	584,186	0	0	0
1975	15,000	0	15,000	81,464	104,376	448,054	633,894	0	0	0
1976	11,000	0	11,000	87,119	107,885	445,723	640,727	0	0	0
1977	10,000	0	10,000	104,244	125,772	498,557	728,573	0	0	0
1978	11,000	0	11,000	119,432	140,759	536,225	796,416	0	0	0
1979	11,000	0	11,000	139,523	160,317	590,287	890,127	0	0	0
1980	20,329	7,347	27,676	141,368	159,361	565,473	866,202	0	0	0
1981	21,048	7,789	28,837	148,171	167,497	566,916	882,584	0	0	0
1982	19,792	8,188	27,980	146,380	165,897	536,725	849,002	60,892	0	60,892
1983	73,619	33,096	106,715	563,747	640,416	1,984,387	3,188,550	289,226	0	289,226
1984	81,473	37,964	119,437	576,888	656,765	1,952,545	3,186,198	391,518	0	391,518
1985	79,659	39,269	118,928	605,049	690,204	1,972,009	3,267,262	261,488	929,854	1,191,342
1986	76,910	41,480	118,390	598,346	685,961	1,880,518	3,164,825	269,840	1,119,284	1,389,124
1987	78,371	45,362	123,733	626,868	719,817	1,902,219	3,248,904	351,408	1,421,262	1,772,670
1988	76,931	71,262	148,193	614,147	706,269	1,801,498	3,121,914	350,514	1,367,693	1,718,207
1989	80,372	82,159	162,531	644,613	742,345	1,871,458	3,258,416	391,483	1,478,931	1,870,414
1990	74,462	107,747	182,209	652,606	752,537	1,876,244	3,281,387	377,302	1,400,990	1,778,292
1991	80,294	112,731	193,025	650,348	761,383	1,863,803	3,275,534	418,972	1,460,430	1,879,402
1992	83,977	115,929	199,906	649,447	771,218	1,855,563	3,276,228	525,902	1,729,373	2,255,275
1993	126,261	105,048	231,309	658,987	793,083	1,877,346	3,329,416	516,640	1,614,672	2,131,312
1994	135,036	109,122	244,158	669,451	798,777	1,901,850	3,370,078	565,083	1,691,260	2,256,343
1995	135,297	108,871	244,168	690,823	805,960	1,918,953	3,415,736	599,392	1,727,480	2,326,872
1996	131,411	105,868	237,279	725,822	828,384	1,972,344	3,526,550	644,456	1,800,261	2,444,717
1997	138,330	109,803	248,133	717,376	801,324	1,907,915	3,426,615	683,429	1,856,483	2,539,912
1998	135,319	105,957	241,276	713,017	779,861	1,856,813	3,349,691	750,607	1,988,226	2,738,833
1999	136,718	105,572	242,290	746,547	799,871	1,904,455	3,450,873	788,963	2,042,639	2,831,602
2000	143,680	109,466	253,146	741,147	778,204	1,852,867	3,372,218	828,218	2,100,150	2,928,368
2001	138,849	104,481	243,330	742,108	763,935	1,818,890	3,324,933	818,469	2,028,525	2,846,994
2002	139,450	102,937	242,387	752,590	759,826	1,809,111	3,321,527	956,170	2,321,719	3,277,889
2003	141,160	102,253	243,413	790,389	782,932	1,864,126	3,437,447	993,132	2,367,279	3,360,411
2004	146,270	104,075	250,345	812,588	790,016	1,880,990	3,483,594	1,023,615	2,399,362	3,422,977
2005	153,242	133,995	287,237	786,397	750,651	1,787,266	3,324,314	1,024,558	2,364,682	3,389,240
2006	156,887	137,230	294,117	814,021	770,020	1,833,381	3,417,422	1,065,439	2,459,034	3,524,473
2007	154,196	133,075	287,271	805,946	755,574	1,798,985	3,360,505	1,030,541	2,378,488	3,409,029
2008	156,084	132,219	288,303	812,132	754,636	1,796,753	3,363,521	1,030,204	2,377,709	3,407,913
2009	156,633	129,761	286,394	827,417	762,095	1,814,509	3,404,021	1,028,411	2,373,570	3,401,981
2010	162,166	132,140	294,306	832,016	759,667	1,808,731	3,400,414	1,032,406	2,382,794	3,415,200
2011	165,671	132,617	298,288	829,209	757,104	1,802,627	3,388,940	1,037,219	2,393,902	3,431,121
2012	168,000	132,300	300,300	829,934	757,765	1,804,203	3,391,902	1,041,286	2,403,285	3,444,571
2013	168,944	130,425	299,369	835,549	762,893	1,816,413	3,414,855	1,034,948	2,388,660	3,423,608
2014	171,052	129,357	300,409	841,159	768,015	1,828,605	3,437,779	1,043,084	2,407,437	3,450,521
2015	174,550	129,841	304,391	831,146	758,872	1,806,838	3,396,856	1,039,612	2,399,424	3,439,036
2016	175,426	128,032	303,458	834,825	762,232	1,814,839	3,411,896	1,038,778	2,397,500	3,436,278
2017	180,136	129,276	309,412	826,397	754,536	1,796,517	3,377,450	1,039,589	2,399,369	3,438,958
2018	180,978	127,500	308,478	830,449	758,236	1,805,325	3,394,010	1,035,853	2,390,749	3,426,602
2019	180,562	125,008	305,570	843,543	770,191	1,833,788	3,447,522	1,035,860	2,390,762	3,426,622
2020	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2021	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2022	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2023	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2024	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2025	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2026	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2027	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2028	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2029	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2030	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2031	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2032	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2033	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2034	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
2035	384,879	140,131	525,010	830,990	758,731	1,806,501	3,396,222	1,040,571	2,401,637	3,442,208
TOTAL	11,299,208	6,188,648	17,487,856	41,867,595	41,924,659	105,229,402	189,021,656	45,063,643	109,179,430	154,243,073

a) Unadjusted for prior overpayments or underpayments of charges.

TRANSPORTATION 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		County of Kings	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agricultural				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
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	29,675	66,393	4,982	0	0	428,416	2,267	4,489	63,219	599,441
1969	29,556	53,425	95	4,840	0	306,272	170	3,041	12,057	409,456
1970	39,308	69,413	6,772	16,454	0	468,796	0	5,554	0	606,297
1971	34,820	52,958	7,727	8,590	0	754,491	4,773	6,335	149,416	1,019,110
1972	44,444	61,445	8,389	8,480	0	1,104,785	2,027	7,325	365,606	1,602,501
1973	27,810	32,956	4,483	4,333	0	741,099	2,241	2,940	71,067	886,929
1974	29,013	47,132	4,234	4,658	45,332	661,211	2,118	2,982	97,381	894,061
1975	32,932	55,174	4,617	5,541	50,268	755,322	2,462	3,574	126,971	1,036,861
1976	37,128	42,940	4,552	5,918	112,923	778,490	2,428	3,432	77,080	1,064,891
1977	48,330	56,043	5,531	7,743	136,113	1,017,289	3,134	4,700	101,025	1,379,908
1978	51,554	55,333	5,108	7,832	139,497	1,121,334	3,235	4,007	99,940	1,487,840
1979	58,563	87,110	7,553	12,336	203,162	1,631,983	5,035	7,391	157,603	2,170,736
1980	52,533	62,676	5,124	8,880	158,961	1,362,449	3,757	4,051	113,567	1,771,998
1981	52,001	68,861	5,324	9,938	174,429	1,555,634	4,082	4,402	124,944	1,999,615
1982	48,601	70,778	5,179	10,185	185,500	1,623,072	4,315	4,535	128,264	2,080,429
1983	186,898	302,077	21,124	43,657	760,803	6,802,737	19,716	21,288	550,639	8,708,939
1984	174,630	246,384	16,389	35,510	700,540	6,315,869	16,936	13,528	448,518	7,968,304
1985	179,196	303,127	19,266	44,313	844,263	7,408,742	21,835	18,643	552,307	9,391,692
1986	169,060	301,271	18,333	43,999	876,266	7,565,307	22,610	17,809	549,988	9,564,643
1987	179,036	330,440	19,286	48,216	981,957	8,366,945	25,715	19,624	603,664	10,574,883
1988	169,187	335,562	18,817	48,923	1,038,637	8,548,373	25,089	19,847	613,420	10,817,855
1989	172,306	349,651	18,866	51,567	1,112,682	9,035,006	25,154	19,756	639,560	11,424,548
1990	178,229	439,045	22,827	64,677	1,324,461	10,523,382	30,436	29,481	837,002	13,449,540
1991	171,574	383,476	19,938	56,492	1,229,381	9,677,742	26,584	23,359	731,064	12,319,610
1992	170,463	349,169	18,154	51,437	1,168,107	9,164,218	24,206	19,534	665,661	11,630,949
1993	175,800	419,256	21,798	61,762	1,284,570	10,191,925	29,064	27,849	799,275	13,011,299
1994	174,849	402,232	20,913	59,254	1,267,297	9,992,722	27,884	25,656	766,820	12,737,627
1995	176,514	414,745	21,564	61,098	1,287,895	10,187,085	28,751	26,959	790,674	12,995,285
1996	183,878	463,227	24,084	68,240	1,378,328	10,980,627	32,113	32,101	883,102	14,045,700
1997	173,284	403,317	20,970	59,414	1,274,230	10,038,436	27,960	25,644	768,887	12,792,142
1998	168,383	397,132	20,648	58,503	1,255,252	9,834,252	27,531	25,493	757,097	12,544,291
1999	174,782	429,475	22,330	63,267	1,316,986	10,386,210	29,773	28,732	818,757	13,270,312
2000	166,097	381,589	19,840	56,213	1,226,370	9,582,302	26,454	23,714	727,468	12,210,047
2001	162,930	386,556	20,099	56,945	1,234,803	9,626,704	26,797	24,741	736,935	12,276,510
2002	162,020	389,617	20,257	57,396	1,240,493	9,664,648	27,010	25,094	742,771	12,329,306
2003	172,375	424,967	22,095	62,604	1,311,634	10,314,256	29,461	28,856	810,162	13,176,410
2004	167,153	399,101	20,751	58,793	1,265,312	9,889,250	27,668	26,111	760,852	12,614,991
2005	161,645	384,867	20,010	56,696	1,236,174	9,608,532	26,681	25,055	733,715	12,253,375
2006	166,706	397,470	20,666	58,553	1,270,848	9,914,601	27,554	25,932	757,742	12,640,072
2007	163,636	393,095	20,438	57,908	1,251,469	9,750,126	27,251	25,895	749,400	12,439,218
2008	163,764	394,222	20,497	58,075	1,253,766	9,769,143	27,329	26,015	751,550	12,464,361
2009	167,042	413,214	21,485	60,872	1,292,662	10,089,791	28,645	28,106	787,756	12,889,573
2010	165,632	398,878	20,739	58,760	1,273,512	9,905,877	27,652	26,506	760,426	12,637,982
2011	165,234	394,612	20,517	58,132	1,266,377	9,842,241	27,356	26,042	752,293	12,552,804
2012	165,205	393,388	20,454	57,951	1,264,389	9,824,941	27,271	25,895	749,960	12,529,454
2013	167,221	405,556	21,086	59,744	1,286,777	10,024,772	28,115	27,184	773,156	12,793,611
2014	168,811	413,874	21,519	60,969	1,301,772	10,161,816	28,692	28,057	789,013	12,974,523
2015	165,552	395,510	20,564	58,264	1,267,771	9,857,394	27,419	26,134	754,006	12,572,614
2016	166,923	403,655	20,988	59,464	1,283,481	9,994,583	27,983	26,975	769,533	12,753,585
2017	164,044	386,199	20,080	56,892	1,250,776	9,703,668	26,772	25,131	736,253	12,369,815
2018	165,438	395,264	20,551	58,228	1,267,499	9,853,540	27,402	26,107	753,538	12,567,567
2019	169,928	421,680	21,925	62,119	1,315,304	10,284,614	29,232	28,915	803,896	13,137,613
2020	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2021	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2022	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2023	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2024	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2025	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2026	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2027	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2028	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2029	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2030	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2031	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2032	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2033	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2034	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
2035	165,440	394,458	20,509	58,109	1,267,066	9,846,194	27,346	25,996	751,999	12,557,117
TOTAL	9,558,733	21,436,865	1,167,682	3,140,379	65,942,085	524,532,124	1,473,681	1,406,462	40,696,984	669,354,995

TABLE B-18: VARIABLE OMP&R COMPONENT OF

(in dollars)

Sheet 3 of 4

Calendar Year	SOUTHERN CALIFORNIA AREA									
	Antelope Valley East Kern Water Agency	Castaika Lake Water Agency	Coachella Valley County Water District	Crestline Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Water District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
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	706	0	0	6,731	0	4,074	797	0	15,477	0
1973	267	0	96,146	6,448	149,191	3,626	0	0	256,234	0
1974	15,775	0	104,033	10,192	162,552	5,002	229	0	192,418	7,093
1975	53,917	0	99,404	10,934	156,206	6,157	0	0	487,149	40,920
1976	173,463	0	121,877	14,946	192,440	8,252	0	1,290	567,958	65,471
1977	618,151	0	139,329	20,367	215,091	9,678	0	3,977	639,259	94,500
1978	845,756	0	173,816	28,399	263,300	13,650	0	8,902	797,482	139,557
1979	978,120	17,320	194,509	34,638	289,935	16,238	289,935	15,611	809,268	163,149
1980	1,040,357	23,262	209,300	40,230	326,911	17,476	288,450	22,794	849,306	190,607
1981	1,096,924	24,339	238,755	47,435	374,752	19,685	295,856	32,552	933,366	226,869
1982	1,171,426	24,448	260,362	67,990	410,295	21,744	410,295	57,904	948,861	224,781
1983	3,832,667	157,864	912,113	236,383	1,442,126	73,767	1,504,826	258,182	3,557,892	822,614
1984	4,075,044	236,800	1,017,795	262,066	1,613,704	80,495	1,742,801	341,232	3,883,688	871,937
1985	4,235,440	292,947	1,076,180	275,555	1,710,333	86,128	1,900,372	418,194	3,990,405	871,523
1986	4,504,939	325,355	1,174,193	299,189	1,869,940	93,492	2,127,864	517,259	4,150,199	881,795
1987	4,694,933	446,921	1,255,023	318,422	2,034,542	99,752	2,325,192	608,687	4,347,932	894,989
1988	4,983,460	514,342	1,343,620	339,613	2,212,040	107,609	2,537,341	714,267	4,598,738	918,757
1989	5,219,832	611,109	1,441,957	363,241	2,406,226	114,959	2,768,808	814,688	4,889,039	949,581
1990	5,429,643	675,720	1,496,815	375,823	2,468,773	121,181	2,915,875	911,486	5,001,461	941,162
1991	5,687,492	749,809	1,521,768	382,091	2,509,928	122,662	3,162,112	922,628	5,210,110	983,115
1992	5,936,281	757,249	1,541,389	387,016	2,542,291	123,878	3,389,723	931,783	5,294,608	1,012,479
1993	6,032,231	786,584	1,496,642	375,781	2,468,487	121,892	3,291,317	916,838	5,076,649	983,663
1994	6,325,296	864,238	1,524,871	382,867	2,515,044	123,918	3,353,396	932,089	5,183,930	1,017,586
1995	6,495,347	855,722	1,518,706	381,319	2,504,880	123,481	3,339,839	928,790	5,190,280	1,031,985
1996	6,643,436	880,064	1,506,759	378,320	2,485,176	122,673	3,313,570	922,712	5,025,940	1,012,046
1997	6,900,795	925,543	1,525,879	383,121	2,516,708	123,864	3,355,612	931,670	5,144,036	1,048,863
1998	7,113,838	955,289	1,523,051	382,411	2,512,044	124,155	3,349,392	933,863	5,036,571	1,039,712
1999	7,317,950	1,009,529	1,523,336	382,482	2,512,515	124,349	3,350,019	935,316	5,147,398	1,075,635
2000	7,526,716	1,041,614	1,531,283	384,477	2,525,623	124,594	3,367,498	937,168	5,144,392	1,088,044
2001	7,578,746	1,072,061	1,530,669	384,324	2,524,612	125,438	3,366,150	943,518	5,028,184	1,077,187
2002	7,617,680	1,133,778	1,539,360	386,506	2,538,943	126,115	3,385,259	948,599	5,171,597	1,122,025
2003	7,556,156	1,157,253	1,523,905	382,625	2,513,454	125,040	3,351,272	940,513	5,151,040	1,131,623
2004	7,583,729	1,189,383	1,533,694	385,083	2,529,597	125,509	3,372,797	944,051	5,201,913	1,156,995
2005	7,679,782	1,255,766	1,544,643	387,832	2,547,659	127,103	3,396,878	956,038	5,032,786	1,133,112
2006	7,632,494	1,328,387	1,543,724	387,600	2,546,141	126,317	3,394,856	950,119	5,074,302	1,157,298
2007	7,666,828	1,332,848	1,543,425	387,527	2,545,647	126,889	3,394,197	954,421	5,041,351	1,164,521
2008	7,671,849	1,365,626	1,541,713	387,098	2,542,826	126,970	3,390,434	955,043	5,039,853	1,178,914
2009	7,672,364	1,454,923	1,540,593	386,814	2,540,977	126,984	3,387,969	955,147	5,074,969	1,201,967
2010	7,758,369	1,473,044	1,557,016	390,939	2,568,067	128,431	3,424,090	966,015	5,074,663	1,216,733
2011	7,782,393	1,481,698	1,564,827	392,901	2,580,950	128,838	3,441,266	969,081	5,075,525	1,231,779
2012	7,775,581	1,496,527	1,563,112	392,470	2,578,119	128,716	3,437,493	968,163	5,048,630	1,240,016
2013	7,767,432	1,489,600	1,559,672	391,606	2,572,448	128,585	3,429,930	967,179	5,035,216	1,251,443
2014	7,755,595	1,485,807	1,556,122	390,714	2,566,592	128,390	3,422,124	965,720	5,008,101	1,259,347
2015	7,758,369	1,495,566	1,562,300	392,265	2,576,780	128,612	3,435,707	967,390	5,029,743	1,279,496
2016	7,771,548	1,490,660	1,560,598	391,839	2,573,972	128,651	3,431,963	967,685	5,031,721	1,299,615
2017	7,783,550	1,484,570	1,564,549	392,829	2,580,489	128,843	3,440,651	969,131	5,058,422	1,326,235
2018	7,772,012	1,494,838	1,562,456	392,304	2,577,039	128,660	3,436,051	967,745	5,038,906	1,340,760
2019	7,736,560	1,484,177	1,551,632	389,588	2,559,187	128,058	3,412,248	963,207	5,017,519	1,354,632
2020	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2021	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2022	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2023	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2024	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2025	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2026	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2027	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2028	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2029	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2030	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2031	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2032	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2033	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2034	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
2035	7,790,773	1,495,821	1,565,249	393,006	2,581,643	128,971	3,442,192	970,079	5,047,650	1,416,885
TOTAL	379,934,352	62,275,716	81,056,905	20,259,447	133,260,840	6,624,116	172,207,526	47,759,911	269,366,887	64,392,291

a) Unadjusted for prior overpayments or underpayments of charges.

TRANSPORTATION CHARGE FOR EACH CONTRACTOR^(a)

(in dollars)

Sheet 4 of 4

Calendar Year	SOUTHERN CALIFORNIA AREA (continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR	GRAND TOTAL
	San Geronio Pass Water Agency	The Metropolitan Water District of Southern California	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)	
1962	0	0	0	0	0	0	0	0	0	36,964
1963	0	0	0	0	0	0	0	0	0	57,703
1964	0	0	0	0	0	0	0	0	0	74,094
1965	0	0	0	0	0	0	0	0	0	142,540
1966	0	0	0	0	0	0	0	0	0	192,522
1967	0	0	0	0	0	0	0	0	0	236,921
1968	0	0	0	0	0	0	0	0	0	1,090,144
1969	0	0	0	0	0	0	0	0	0	745,485
1970	0	0	0	0	0	0	0	0	0	1,099,406
1971	0	0	0	0	0	0	0	0	0	1,497,153
1972	0	746,756	0	774,541	0	0	0	0	0	3,114,010
1973	0	1,094,028	0	1,605,940	0	0	0	0	0	3,086,993
1974	0	2,113,208	0	2,610,502	0	0	0	0	0	4,103,718
1975	0	4,296,559	0	5,151,246	0	0	0	0	0	6,837,001
1976	0	5,497,873	0	6,643,570	0	0	0	0	0	8,360,188
1977	0	6,711,570	0	8,451,922	0	0	0	0	0	10,570,403
1978	0	9,289,785	0	11,560,647	0	0	0	0	0	13,855,903
1979	0	9,378,455	0	12,187,178	0	0	0	0	0	15,259,041
1980	88,173	9,284,867	5,816	12,387,549	0	0	0	0	0	15,053,425
1981	106,282	9,083,014	8,046	12,487,875	0	0	0	0	0	15,398,911
1982	116,784	8,819,709	9,069	12,543,668	0	0	0	0	0	15,561,971
1983	468,018	34,839,757	62,368	48,168,577	0	0	0	0	0	60,462,007
1984	537,740	37,407,538	97,353	52,168,193	0	0	0	0	0	63,833,650
1985	577,752	37,283,486	123,781	52,842,096	0	0	0	0	0	66,811,320
1986	629,853	37,950,574	163,701	54,688,353	0	0	0	0	0	68,925,335
1987	683,944	41,698,914	253,931	59,663,182	0	0	0	0	0	75,383,372
1988	746,676	43,882,254	346,448	63,245,165	0	0	0	0	0	79,051,334
1989	816,519	49,160,166	465,606	70,021,731	0	0	0	0	0	86,737,640
1990	852,465	54,259,808	595,350	76,045,562	0	0	0	0	0	94,736,990
1991	878,506	58,393,203	639,769	81,163,193	0	0	0	0	0	98,830,764
1992	892,754	59,369,380	626,341	82,805,172	0	0	0	0	0	100,167,530
1993	856,003	59,605,510	631,286	82,642,883	0	0	0	0	0	101,346,219
1994	874,095	63,648,876	673,605	87,419,811	0	0	0	0	0	106,028,017
1995	875,164	63,543,878	648,274	87,437,665	0	0	0	0	0	106,419,726
1996	847,455	63,508,772	648,537	87,295,460	0	0	0	0	0	107,549,706
1997	867,364	65,983,612	663,947	90,371,014	0	0	0	0	0	109,377,816
1998	849,245	66,491,638	667,569	90,978,778	0	0	0	0	0	109,852,869
1999	867,932	69,332,784	687,690	94,266,935	0	0	0	0	0	114,062,012
2000	867,428	70,534,508	692,103	95,765,448	0	0	0	0	0	114,529,227
2001	847,834	70,343,271	685,461	95,507,455	0	0	0	0	0	114,199,222
2002	872,013	72,970,586	698,569	98,511,030	0	0	0	0	0	117,682,139
2003	868,549	73,123,411	688,023	98,512,864	0	0	0	0	0	118,730,545
2004	877,125	73,999,946	683,161	99,582,983	0	0	0	0	0	119,354,890
2005	848,608	74,885,844	697,648	100,493,699	0	0	0	0	0	119,747,865
2006	855,608	76,852,595	716,112	102,565,553	0	0	0	0	0	122,441,637
2007	850,053	75,783,538	697,828	101,489,073	0	0	0	0	0	120,985,096
2008	849,800	75,990,144	694,974	101,735,244	0	0	0	0	0	121,259,342
2009	855,720	78,442,405	720,258	104,361,090	0	0	0	0	0	124,343,059
2010	855,667	78,072,038	709,902	104,194,974	0	0	0	0	0	123,942,876
2011	855,813	79,478,226	714,070	105,697,367	0	0	0	0	0	125,368,520
2012	851,279	79,852,247	721,217	106,053,570	0	0	0	0	0	125,719,797
2013	849,017	79,536,637	717,880	105,696,645	0	0	0	0	0	125,628,088
2014	844,446	79,256,568	716,051	105,355,577	0	0	0	0	0	125,518,809
2015	848,097	79,716,086	720,754	105,921,910	0	0	0	0	0	125,634,807
2016	848,430	79,554,819	718,391	105,769,892	0	0	0	0	0	125,675,109
2017	852,930	79,486,184	715,454	105,783,837	0	0	0	0	0	125,279,472
2018	849,640	79,740,326	720,404	106,021,141	0	0	0	0	0	125,717,798
2019	846,034	79,250,500	715,267	105,408,609	0	0	0	0	0	125,725,936
2020	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2021	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2022	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2023	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2024	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2025	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2026	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2027	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2028	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2029	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2030	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2031	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2032	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2033	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2034	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
2035	851,114	79,822,173	720,878	106,226,434	0	0	0	0	0	126,146,991
TOTAL	44,144,639	3,786,700,621	33,696,062	5,101,679,313	0	0	0	0	0	6,131,786,893

TABLE B-19: TOTAL TRANSPORTATION

(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 Valley Water District	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1962	0	0	0	11,751	43,784	0	55,535	0	0	0
1963	0	0	0	147,866	184,135	438,185	770,186	0	0	0
1964	0	0	0	165,524	259,243	606,966	1,031,733	8,475	21,008	29,483
1965	0	0	0	239,126	358,753	1,133,916	1,731,795	14,098	34,304	48,402
1966	18,717	0	18,717	264,212	368,194	1,383,506	2,015,912	23,170	55,696	78,866
1967	42,106	0	42,106	344,237	451,708	1,667,767	2,463,712	41,222	98,012	139,234
1968	127,605	0	127,605	384,107	545,517	1,951,027	2,880,651	66,625	157,505	224,130
1969	248,419	0	248,419	432,284	476,459	2,030,718	2,939,461	121,170	284,972	406,142
1970	270,263	0	270,263	448,200	469,848	2,160,836	3,078,884	134,136	315,333	449,469
1971	215,102	0	215,102	409,462	489,375	2,129,297	3,028,134	135,044	317,536	452,580
1972	219,296	0	219,296	499,912	615,751	2,280,759	3,396,422	141,412	332,521	473,933
1973	216,898	27,672	244,570	464,078	486,396	2,296,824	3,247,298	139,448	327,996	467,444
1974	232,153	29,071	261,224	483,057	498,054	2,396,469	3,377,580	141,187	332,139	473,326
1975	233,934	30,659	264,593	589,150	635,381	2,360,792	3,585,323	128,265	302,022	430,287
1976	242,873	38,092	280,965	596,826	640,809	2,363,206	3,600,841	232,152	544,890	777,042
1977	266,249	61,413	327,662	614,710	659,430	2,417,903	3,692,043	237,450	557,481	794,931
1978	303,738	97,998	401,736	630,339	674,810	2,456,343	3,761,492	265,454	631,499	896,953
1979	438,619	250,662	689,281	650,768	694,668	2,510,891	3,856,327	305,085	734,635	1,039,720
1980	749,086	579,630	1,328,716	653,026	694,069	2,486,827	3,833,922	449,008	1,102,376	1,551,384
1981	760,540	588,976	1,349,516	660,546	702,873	2,489,960	3,853,379	911,188	2,388,520	3,299,708
1982	761,393	592,070	1,353,463	660,452	702,885	2,464,185	3,827,522	1,446,823	3,699,507	5,146,330
1983	819,816	620,837	1,440,653	1,086,777	1,186,058	3,932,858	6,205,693	1,776,974	4,016,730	5,793,704
1984	829,202	626,669	1,455,871	1,100,197	1,202,628	3,901,320	6,204,145	1,888,997	4,042,010	5,931,007
1985	827,275	627,761	1,455,036	1,129,240	1,236,886	3,922,795	6,288,921	1,748,978	4,927,861	6,676,839
1986	823,155	629,307	1,452,462	1,122,561	1,232,654	3,831,458	6,186,673	1,759,608	5,119,207	6,878,815
1987	824,552	633,054	1,457,606	1,151,301	1,266,725	3,853,719	6,271,745	1,846,383	5,438,338	7,284,721
1988	822,975	658,922	1,481,897	1,137,467	1,252,096	3,750,155	6,139,718	1,840,606	5,369,511	7,210,117
1989	826,281	669,616	1,495,897	1,168,056	1,288,294	3,820,408	6,276,758	1,883,589	5,485,943	7,369,532
1990	820,499	695,398	1,515,897	1,175,606	1,298,070	3,824,191	6,297,867	1,866,398	5,397,012	7,263,410
1991	826,404	700,493	1,526,897	1,173,383	1,306,931	3,811,770	6,292,084	1,907,747	5,455,401	7,363,148
1992	830,487	704,119	1,534,606	1,172,976	1,317,237	3,804,883	6,295,096	2,018,118	5,736,311	7,754,429
1993	872,743	693,129	1,565,872	1,182,407	1,339,006	3,826,530	6,347,943	2,006,284	5,612,083	7,618,367
1994	881,578	697,294	1,578,872	1,192,868	1,344,695	3,851,026	6,388,589	2,054,885	5,689,167	7,744,052
1995	881,745	696,948	1,578,693	1,214,126	1,351,769	3,867,808	6,433,703	2,088,632	5,723,492	7,812,124
1996	877,392	693,450	1,570,842	1,248,484	1,373,588	3,919,460	6,541,532	2,133,424	5,795,632	7,929,056
1997	884,370	697,472	1,581,842	1,239,832	1,346,321	3,854,530	6,440,683	2,172,026	5,850,727	8,022,753
1998	881,069	693,303	1,574,372	1,234,827	1,324,233	3,801,763	6,360,823	2,239,351	5,983,720	8,223,071
1999	882,462	692,910	1,575,372	1,268,511	1,344,397	3,849,776	6,462,684	2,277,689	6,037,809	8,315,498
2000	889,481	696,891	1,586,372	1,262,946	1,322,564	3,797,789	6,383,299	2,316,660	6,094,425	8,411,085
2001	884,577	691,795	1,576,372	1,263,762	1,308,152	3,763,462	6,335,376	2,305,183	6,016,506	8,321,689
2002	885,155	690,217	1,575,372	1,274,207	1,304,008	3,753,597	6,331,812	2,444,722	6,316,650	8,761,372
2003	886,855	689,517	1,576,372	1,312,179	1,327,289	3,809,033	6,448,501	2,481,182	6,360,393	8,841,575
2004	891,992	691,380	1,583,372	1,334,442	1,334,436	3,826,404	6,494,927	2,511,310	6,390,902	8,902,212
2005	899,405	721,967	1,621,372	1,307,916	1,294,738	3,731,518	6,334,172	2,510,816	6,351,403	8,862,219
2006	903,097	725,275	1,628,372	1,335,708	1,314,274	3,778,040	6,428,022	2,552,876	6,449,591	9,002,467
2007	900,346	721,026	1,621,372	1,327,504	1,299,699	3,743,330	6,370,533	2,516,965	6,365,757	8,882,722
2008	902,220	720,152	1,622,372	1,333,680	1,298,752	3,741,077	6,373,509	2,516,623	6,364,955	8,881,578
2009	902,733	717,639	1,620,372	1,349,013	1,306,259	3,758,946	6,414,218	2,514,891	6,360,907	8,875,798
2010	908,302	720,070	1,628,372	1,353,597	1,303,816	3,753,132	6,410,545	2,519,209	6,370,996	8,890,205
2011	911,814	720,558	1,632,372	1,350,779	1,301,242	3,746,998	6,399,019	2,524,101	6,382,412	8,906,513
2012	914,138	720,234	1,634,372	1,351,509	1,301,907	3,748,588	6,402,004	2,528,242	6,392,079	8,920,321
2013	915,055	718,317	1,633,372	1,248,772	1,207,147	3,404,689	5,860,608	2,521,849	6,377,155	8,899,004
2014	917,146	717,226	1,634,372	1,219,903	1,158,721	3,255,722	5,634,346	2,521,698	6,375,580	8,897,278
2015	920,651	717,721	1,638,372	1,172,736	1,087,689	2,873,599	5,134,024	2,512,446	6,353,815	8,866,261
2016	902,784	715,871	1,618,655	1,157,102	1,067,168	2,710,141	4,934,411	2,502,570	6,330,542	8,833,112
2017	884,123	717,143	1,601,266	1,114,280	1,027,831	2,569,867	4,711,978	2,485,258	6,289,953	8,775,211
2018	806,429	715,327	1,521,756	1,077,983	993,391	2,459,962	4,531,336	2,467,408	6,248,102	8,715,510
2019	762,963	712,780	1,475,743	1,055,160	972,761	2,392,717	4,420,638	2,463,565	6,238,994	8,702,559
2020	963,322	728,239	1,691,561	1,028,328	947,785	2,325,508	4,301,621	2,466,571	6,245,920	8,712,491
2021	960,716	728,239	1,688,955	1,025,192	944,767	2,318,229	4,288,188	2,465,270	6,242,797	8,708,067
2022	959,262	728,239	1,687,501	1,024,496	943,961	2,313,794	4,282,251	2,464,292	6,240,397	8,704,689
2023	958,193	700,567	1,658,760	1,023,834	943,329	2,310,484	4,277,647	2,463,771	6,239,120	8,702,891
2024	955,275	699,168	1,654,443	1,023,313	942,800	2,308,491	4,274,604	2,463,320	6,237,986	8,701,306
2025	949,446	697,580	1,647,026	1,022,514	941,898	2,304,789	4,269,201	2,462,885	6,236,922	8,699,807
2026	941,249	690,147	1,631,396	1,021,908	941,283	2,302,783	4,265,974	2,359,917	5,996,193	8,356,110
2027	920,803	666,825	1,587,628	1,021,267	940,655	2,300,940	4,262,862	2,358,510	5,992,690	8,351,200
2028	887,707	630,241	1,517,948	1,020,362	939,804	2,298,783	4,258,949	2,330,503	5,918,662	8,249,165
2029	751,838	477,577	1,229,415	1,019,559	939,070	2,297,033	4,255,662	2,290,990	5,815,803	8,106,793
2030	503,165	248,544	751,709	1,018,804	938,379	2,295,385	4,252,568	2,146,945	5,447,776	7,594,721
2031	489,180	237,472	726,652	1,018,424	938,032	2,294,558	4,251,014	1,684,967	4,162,105	5,847,072
2032	487,725	235,447	723,172	1,018,138	937,771	2,293,935	4,249,844	1,287,458	3,057,858	4,345,316
2033	487,240	234,689	721,929	1,017,601	937,280	2,292,766	4,247,647	1,220,379	2,862,573	4,082,952
2034	486,864	234,120	720,984	1,016,895	936,634	2,291,227	4,244,756	1,206,194	2,819,047	4,025,241
2035-	486,864	234,120	720,984	1,016,176	935,977	2,289,661	4,241,814	1,200,155	2,803,309	4,003,464
TOTAL	49,737,111	36,139,145	85,876,256	70,888,241	72,244,999	210,907,449	354,040,689	121,040,802	312,669,181	433,709,983

a) Unadjusted for prior overpayments or underpayments of charges.

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		County of Kings	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agricultural				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
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	65,237	0	0	0	0	65,237
1966	0	0	0	0	120,751	0	0	0	0	120,751
1967	0	0	0	0	233,116	0	0	0	0	233,116
1968	69,605	170,575	10,068	5,364	393,541	1,456,292	12,670	10,311	187,538	2,315,964
1969	116,312	165,148	11,837	23,129	468,484	2,239,346	11,345	9,213	290,321	3,335,135
1970	139,797	188,499	18,538	35,363	514,375	2,738,971	11,445	11,959	224,928	3,883,875
1971	143,650	182,784	19,478	26,559	544,106	3,573,712	16,344	13,196	385,094	4,904,923
1972	165,670	203,706	20,273	28,293	569,964	4,634,365	13,801	18,425	946,248	6,600,745
1973	155,919	185,983	16,395	25,814	580,029	4,576,853	14,079	10,352	342,197	5,907,621
1974	166,652	258,090	16,372	28,692	637,216	4,868,946	14,206	11,246	503,582	6,505,002
1975	169,843	233,777	16,871	31,310	647,798	5,174,518	14,694	11,692	437,893	6,738,396
1976	183,304	233,218	16,894	33,419	716,054	5,587,323	14,784	11,797	408,751	7,205,544
1977	205,848	256,629	17,894	36,776	742,506	6,189,460	15,558	13,388	451,323	7,929,382
1978	209,067	265,595	17,455	38,796	747,860	6,666,370	15,724	13,010	467,232	8,441,109
1979	216,161	307,493	19,908	44,804	814,460	7,554,375	17,606	16,560	542,689	9,534,056
1980	210,043	292,493	17,454	42,751	771,233	7,649,990	16,375	13,539	515,218	9,529,096
1981	209,653	308,895	17,668	45,821	788,869	8,277,867	16,749	14,072	544,584	10,224,178
1982	206,274	321,702	17,547	47,614	803,427	8,751,254	17,054	14,552	566,260	10,745,684
1983	348,242	567,260	33,747	83,338	1,395,919	14,534,991	32,839	31,592	1,015,820	18,043,748
1984	335,702	521,044	28,968	76,532	1,340,577	14,427,707	30,239	24,141	929,496	17,714,406
1985	340,347	588,181	31,865	87,374	1,497,088	15,928,740	35,531	29,424	1,051,564	19,590,114
1986	332,687	595,796	30,909	88,466	1,538,731	16,451,499	36,631	28,916	1,066,289	20,169,924
1987	342,823	635,145	31,873	94,195	1,645,010	17,659,175	39,745	30,904	1,137,876	21,616,746
1988	332,576	649,721	31,378	96,310	1,700,571	18,198,953	39,094	31,443	1,164,205	22,244,251
1989	335,822	673,885	31,433	100,944	1,774,902	18,958,378	39,164	31,688	1,208,072	23,154,288
1990	341,776	773,805	35,421	115,615	1,988,238	20,741,071	44,473	41,590	1,443,773	25,525,762
1991	335,036	717,786	32,510	107,365	1,891,942	19,883,029	40,600	35,459	1,337,029	24,380,756
1992	334,112	683,446	30,726	102,305	1,830,480	19,369,362	38,221	31,637	1,271,596	23,691,885
1993	339,524	754,128	34,397	112,717	1,948,538	20,412,983	43,106	39,966	1,406,259	25,091,618
1994	338,621	737,015	33,508	110,197	1,931,013	20,211,722	41,924	37,771	1,373,657	24,815,428
1995	340,207	749,586	34,160	112,050	1,951,781	20,407,112	42,794	39,075	1,397,613	25,074,378
1996	347,513	798,206	36,687	119,211	2,042,694	21,204,670	46,161	44,216	1,490,266	26,129,624
1997	336,782	737,758	33,548	110,306	1,937,196	20,248,034	41,983	37,748	1,375,087	24,858,442
1998	331,616	731,285	33,212	109,354	1,917,524	20,034,822	41,537	37,587	1,362,762	24,599,699
1999	338,146	763,965	34,910	114,167	1,980,125	20,596,219	43,797	40,833	1,425,033	25,337,195
2000	329,367	715,667	32,402	107,052	1,888,407	19,780,963	40,458	35,807	1,333,009	24,263,132
2001	326,088	720,587	32,657	107,777	1,896,762	19,823,700	40,801	36,832	1,342,379	24,327,583
2002	325,178	723,680	32,816	108,233	1,902,541	19,862,471	41,014	37,186	1,348,275	24,381,394
2003	335,701	759,383	34,670	113,491	1,974,598	20,422,163	43,480	40,555	1,416,302	25,244,743
2004	330,386	733,293	33,316	109,649	1,927,683	20,090,755	41,678	38,206	1,366,595	24,671,561
2005	324,791	718,885	32,567	107,527	1,898,106	19,805,155	40,684	37,147	1,339,139	24,304,001
2006	329,938	731,688	33,234	109,414	1,933,273	20,116,790	41,565	38,028	1,363,537	24,697,467
2007	326,820	727,217	33,001	108,753	1,913,651	19,949,471	41,257	37,989	1,355,011	24,493,175
2008	326,950	728,338	33,059	108,918	1,915,949	19,968,528	41,336	38,109	1,357,153	24,518,340
2009	330,294	747,501	34,056	111,742	1,955,292	20,293,954	42,661	40,203	1,393,662	24,949,365
2010	328,849	733,062	33,305	109,616	1,935,862	20,107,083	41,663	38,601	1,366,150	24,694,191
2011	328,443	728,777	33,081	108,984	1,928,670	20,042,814	41,365	38,137	1,357,984	24,608,255
2012	328,414	727,556	33,018	108,803	1,926,676	20,025,458	41,279	37,990	1,355,658	24,584,852
2013	330,473	739,837	33,656	110,612	1,949,363	20,228,522	42,128	39,282	1,379,059	24,852,932
2014	332,091	748,218	34,093	111,847	1,964,526	20,367,448	42,710	40,156	1,395,024	25,036,113
2015	328,765	729,685	33,128	109,117	1,864,849	20,058,238	41,428	38,229	1,359,715	24,563,154
2016	330,168	737,915	33,556	110,328	1,825,259	20,197,773	41,996	39,072	1,375,400	24,691,467
2017	327,228	720,299	32,642	107,734	1,679,773	19,902,372	40,778	37,225	1,341,832	24,189,883
2018	328,650	729,435	33,115	109,081	1,594,716	20,054,309	32,942	38,202	1,359,243	24,279,693
2019	333,231	756,093	34,502	113,006	1,587,316	20,492,240	34,281	41,015	1,410,030	24,801,714
2020	328,654	728,636	33,073	108,962	1,507,152	20,047,030	32,139	38,091	1,357,716	24,181,453
2021	328,654	728,636	33,073	108,962	1,485,812	20,047,030	31,998	38,091	1,357,716	24,159,972
2022	328,654	728,636	33,073	108,962	1,475,922	20,047,030	31,931	38,091	1,357,716	24,150,015
2023	328,654	728,636	33,073	108,962	1,471,497	20,047,030	31,896	38,091	1,357,716	24,145,555
2024	328,654	728,636	33,073	108,962	1,469,317	20,047,030	31,875	38,091	1,357,716	24,143,354
2025	328,654	728,636	33,073	108,962	1,467,054	20,047,030	31,853	38,091	1,357,716	24,141,069
2026	328,654	728,636	33,073	108,962	1,464,583	20,047,030	31,818	38,091	1,357,716	24,138,563
2027	328,654	728,636	33,073	108,962	1,461,816	20,047,030	31,769	38,091	1,357,716	24,135,747
2028	328,654	728,636	33,073	108,962	1,459,145	20,047,030	31,690	38,091	1,357,716	24,132,997
2029	328,654	728,636	33,073	108,962	1,456,808	20,047,030	31,615	38,091	1,357,716	24,130,585
2030	328,654	728,636	33,073	108,962	1,454,532	20,047,030	31,545	38,091	1,357,716	24,128,239
2031	328,654	728,636	33,073	108,962	1,452,897	20,047,030	31,509	38,091	1,357,716	24,126,568
2032	328,654	728,636	33,073	108,962	1,450,501	20,047,030	31,459	38,091	1,357,716	24,124,122
2033	328,654	728,636	33,073	108,962	1,446,017	20,047,030	31,340	38,091	1,357,716	24,119,519
2034	328,654	728,636	33,073	108,962	1,438,590	20,047,030	31,114	38,091	1,357,716	24,111,866
2035	328,654	728,636	33,073	108,962	1,427,055	20,047,030	30,740	38,091	1,357,716	24,099,957
TOTAL	20,159,619	41,567,891	2,008,946	6,170,027	101,323,325	1,121,650,801	2,222,068	2,165,129	77,308,868	1,374,576,674

TABLE B-19: TOTAL TRANSPORTATION

(in dollars)

Sheet 3 of 4

Calendar Year	SOUTHERN CALIFORNIA AREA									
	Antelope Valley East Kern Water Agency	Castaic Lake Water Agency	Coachella Valley County Water District	Crestline Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Water District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1962	0	0	0	0	0	0	0	0	0	0
1963	34,183	0	0	0	0	0	0	0	52,007	0
1964	63,735	20,285	14,348	4,288	37,236	1,153	28,413	8,290	81,395	34,799
1965	119,260	38,311	24,969	7,102	40,576	2,089	50,192	15,280	133,532	35,031
1966	215,757	72,170	44,455	12,349	72,712	3,748	89,961	27,650	230,380	60,989
1967	416,354	148,173	85,541	23,260	140,471	7,259	174,123	53,852	429,800	114,718
1968	730,137	310,300	151,319	41,089	248,949	12,778	308,011	94,812	775,361	207,195
1969	1,048,599	467,602	223,181	60,654	367,466	18,527	453,784	136,846	1,191,864	318,078
1970	1,363,776	595,620	312,446	88,809	514,688	25,017	626,567	183,266	1,755,273	461,752
1971	1,689,199	749,054	429,128	127,305	707,116	31,585	849,164	229,408	2,508,677	651,846
1972	2,001,463	931,003	556,213	173,500	916,709	41,636	1,098,340	272,096	3,330,656	854,272
1973	2,095,628	971,345	687,459	182,348	1,123,790	42,939	1,169,695	285,117	3,893,936	938,840
1974	2,165,849	1,033,691	715,565	194,495	1,170,500	45,171	1,204,947	291,316	4,018,796	991,546
1975	2,275,236	1,067,394	740,928	202,020	1,213,619	48,030	1,268,252	303,156	4,451,601	1,064,603
1976	2,420,104	1,070,636	780,759	213,419	1,278,476	50,600	1,297,747	307,934	4,693,207	1,127,636
1977	2,875,304	1,078,631	801,029	216,765	1,305,776	52,241	1,309,545	312,190	5,142,548	1,152,827
1978	3,108,758	1,094,968	840,301	228,036	1,361,874	56,330	1,315,099	317,935	4,948,370	1,210,063
1979	3,246,110	1,144,584	861,525	234,002	1,389,390	59,004	1,607,017	325,299	4,954,891	1,232,946
1980	3,322,781	1,194,735	877,161	238,186	1,427,754	60,480	1,610,738	334,267	4,969,835	1,256,401
1981	3,407,829	1,240,301	913,513	248,558	1,486,980	63,169	1,629,380	347,629	5,110,275	1,305,608
1982	3,524,263	1,251,957	942,218	270,011	1,534,224	65,941	1,760,407	378,296	5,142,548	1,309,700
1983	6,341,229	1,418,219	1,639,949	452,610	2,641,887	120,744	2,944,524	598,365	8,004,603	1,972,387
1984	6,653,055	1,493,697	1,752,506	482,485	2,824,802	127,828	3,191,474	684,057	8,404,694	2,037,739
1985	7,199,387	1,570,261	1,808,725	490,428	2,917,852	133,770	3,355,268	763,347	8,412,762	2,019,143
1986	7,913,506	1,589,767	1,915,159	521,764	3,091,350	141,342	3,588,312	863,952	8,709,662	2,057,139
1987	8,100,847	1,721,802	1,999,776	545,323	3,262,200	147,627	3,786,276	955,546	8,984,397	2,085,475
1988	8,387,237	1,789,960	2,078,785	555,113	3,423,884	155,460	3,997,762	1,060,926	9,032,006	2,069,447
1989	8,625,146	1,855,809	2,185,679	588,564	3,632,183	162,842	4,230,568	1,161,574	9,497,130	2,134,627
1990	8,836,459	1,978,021	2,229,567	587,881	3,676,635	169,093	4,377,366	1,258,573	9,374,310	2,080,306
1991	9,093,574	2,032,594	2,261,592	602,447	3,729,454	170,570	4,624,318	1,269,671	9,729,774	2,150,977
1992	9,344,057	2,018,648	2,281,301	606,666	3,761,961	171,823	4,853,666	1,279,085	9,803,112	2,178,559
1993	9,440,861	2,068,672	2,236,454	595,867	3,687,997	169,842	4,754,078	1,264,192	9,592,800	2,151,022
1994	9,734,839	2,155,287	2,265,518	603,298	3,735,928	171,896	4,817,594	1,279,620	9,706,324	2,186,424
1995	9,904,687	2,122,333	2,259,567	602,196	3,726,120	171,452	4,803,649	1,276,280	9,720,506	2,202,275
1996	10,051,675	2,158,106	2,245,233	596,905	3,702,469	170,618	4,776,030	1,270,027	9,514,804	2,173,988
1997	10,307,975	2,188,468	2,268,838	607,023	3,741,407	171,798	4,818,419	1,278,886	9,727,491	2,229,332
1998	10,519,063	2,246,160	2,259,639	599,064	3,726,240	172,055	4,811,074	1,280,835	9,490,753	2,194,736
1999	10,724,497	2,291,070	2,260,061	599,049	3,726,932	172,274	4,812,234	1,282,460	9,600,033	2,230,448
2000	10,932,096	2,313,060	2,275,230	609,915	3,751,958	172,498	4,829,613	1,284,170	9,754,826	2,273,633
2001	10,983,968	2,363,442	2,275,534	610,904	3,752,454	173,349	4,828,208	1,290,529	9,658,824	2,266,702
2002	11,023,288	2,395,382	2,270,722	596,378	3,744,500	174,035	4,847,773	1,295,679	9,505,229	2,253,673
2003	10,962,595	2,453,054	2,266,401	606,209	3,737,396	172,967	4,813,566	1,287,665	9,728,428	2,310,791
2004	10,989,713	2,464,175	2,271,709	603,099	3,746,139	173,430	4,835,277	1,291,159	9,680,328	2,316,883
2005	11,085,608	2,549,016	2,283,185	606,310	3,765,074	175,030	4,859,750	1,303,174	9,519,428	2,294,671
2006	11,039,090	2,595,891	2,283,814	607,877	3,766,112	174,253	4,857,928	1,297,328	9,593,029	2,325,160
2007	11,072,958	2,622,251	2,280,522	604,216	3,760,677	174,823	4,857,123	1,301,592	9,496,163	2,319,880
2008	11,077,982	2,630,686	2,283,971	610,102	3,766,371	174,904	4,853,330	1,302,214	9,606,915	2,356,169
2009	11,079,050	2,738,374	2,278,177	604,050	3,756,811	174,926	4,850,992	1,302,389	9,539,502	2,359,240
2010	11,165,433	2,749,183	2,303,890	619,146	3,799,230	176,388	4,887,924	1,313,348	9,734,139	2,412,177
2011	11,189,653	2,762,887	2,302,265	609,401	3,796,540	176,801	4,905,477	1,316,450	9,526,979	2,386,704
2012	11,182,823	2,779,385	2,303,272	612,328	3,798,202	176,680	4,901,641	1,315,529	9,559,764	2,406,576
2013	11,140,783	2,766,291	2,300,240	611,982	3,779,629	176,550	4,894,027	1,314,577	9,503,558	2,406,584
2014	11,099,490	2,747,087	2,284,617	609,620	3,768,040	175,206	4,857,730	1,304,832	9,497,082	2,416,436
2015	11,057,057	2,745,656	2,276,137	603,388	3,754,053	174,483	4,849,607	1,299,468	9,378,355	2,405,356
2016	10,963,281	2,695,964	2,257,272	600,550	3,722,942	172,868	4,806,112	1,287,428	9,333,777	2,409,333
2017	10,774,266	2,614,074	2,219,750	590,139	3,661,059	169,544	4,730,667	1,262,628	9,152,419	2,380,541
2018	10,511,746	2,486,921	2,161,640	572,812	3,565,222	164,891	4,615,623	1,228,164	8,805,293	2,310,122
2019	10,178,801	2,321,061	2,082,479	551,374	3,434,673	158,891	4,453,496	1,184,205	8,382,362	2,217,310
2020	9,937,181	2,212,601	2,011,799	529,086	3,318,108	153,641	4,318,431	1,147,112	7,892,524	2,145,702
2021	9,678,173	2,079,291	1,907,127	493,627	3,145,479	148,188	4,120,720	1,109,312	7,192,811	1,970,358
2022	9,544,294	1,989,499	1,851,735	476,139	3,054,124	145,675	4,012,790	1,091,255	6,775,334	1,868,487
2023	9,494,042	1,973,343	1,834,146	471,282	3,025,116	144,696	3,977,296	1,084,365	6,634,396	1,831,802
2024	9,475,611	1,933,301	1,826,024	467,055	3,011,720	144,370	3,965,133	1,081,968	6,544,003	1,811,096
2025	9,451,901	1,921,212	1,812,962	463,356	2,990,179	143,950	3,938,973	1,078,891	6,462,792	1,789,716
2026	9,433,426	1,908,534	1,799,846	459,702	2,968,547	143,602	3,912,569	1,076,352	6,366,407	1,764,205
2027	9,424,447	1,899,673	1,793,897	458,161	2,958,736	143,413	3,900,336	1,074,975	6,322,503	1,755,028
2028	9,419,462	1,884,215	1,791,918	457,646	2,955,472	143,327	3,896,266	1,074,338	6,322,665	1,752,359
2029	9,414,558	1,848,274	1,791,017	457,412	2,953,986	143,246	3,894,410	1,073,732	6,318,447	1,751,214
2030	9,398,739	1,806,364	1,788,139	456,678	2,949,239	142,981	3,888,462	1,071,743	6,305,445	1,747,649
2031	9,372,027	1,774,830	1,783,285	455,450	2,941,235	142,534	3,878,430	1,068,387	6,283,715	1,741,687
2032	9,333,103	1,764,944	1,776,231	453,664	2,929,601	141,884	3,863,852	1,063,509	6,252,080	1,733,010
2033	9,275,041	1,756,907	1,768,787	451,779	2,917,325	141,198	3,848,465	1,058,360	6,218,703	1,723,854
2034	9,201,950	1,750,051	1,764,381	450,664	2,910,059	140,790	3,839,341	1,055,304	6,198,980	1,718,439
2035	8,817,053	1,744,727	1,761,213	449,863	2,904,834	140,496	3,832,759	1,053,097	6,184,812	1,714,544
TOTAL	557,483,108	129,221,240	120,273,741	31,894,243	197,908,449	9,155,239	249,818,091	66,097,263	507,952,200	126,129,965

a) Unadjusted for prior overpayments or underpayments of charges.

CHARGE FOR EACH CONTRACTOR^(a)

(in dollars)

Sheet 4 of 4

Calendar Year	SOUTHERN CALIFORNIA AREA (continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR	GRAND TOTAL
	San Gorgonio Pass Water Agency	The Metropolitan Water District of Southern California	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)
1962	0	0	0	0	0	0	0	0	0	55,535
1963	0	704,290	0	790,480	0	0	0	0	57,553	1,618,219
1964	21,605	1,280,919	9,493	1,605,959	0	0	0	0	95,103	2,762,278
1965	21,663	2,199,718	17,866	2,705,589	0	0	395	395	164,376	4,715,794
1966	37,662	3,911,815	33,453	4,813,101	0	0	551	551	190,179	7,238,077
1967	70,746	7,690,631	68,062	9,422,990	0	0	549	549	250,295	12,552,002
1968	127,841	15,283,947	142,325	18,434,064	0	0	551	551	323,068	24,306,033
1969	196,480	23,079,179	214,501	27,776,761	0	0	3,115	3,115	389,924	35,098,957
1970	285,997	30,503,808	272,347	36,989,366	0	0	14,761	14,761	426,842	45,113,460
1971	404,597	39,859,526	341,025	48,577,630	0	0	15,626	15,626	416,910	57,610,905
1972	530,436	52,703,203	421,122	63,830,649	0	0	16,961	16,961	442,843	74,980,849
1973	583,000	57,282,080	435,239	69,691,416	0	0	16,922	16,922	416,806	79,992,077
1974	611,706	62,569,460	459,565	75,472,607	0	0	17,068	17,068	437,589	86,544,396
1975	635,803	66,377,351	473,281	80,121,274	0	0	17,083	17,083	481,476	91,638,432
1976	660,111	68,480,344	476,234	82,857,207	0	0	17,083	17,083	482,727	95,221,409
1977	657,269	69,914,064	479,999	84,888,258	0	0	17,084	17,084	483,210	98,132,570
1978	665,117	73,381,490	487,369	89,015,710	0	0	17,082	17,082	483,334	103,017,416
1979	664,608	74,286,676	503,460	90,509,512	0	0	17,081	17,081	483,423	106,129,400
1980	750,030	76,092,206	529,644	92,664,218	0	0	17,081	17,081	483,443	109,407,860
1981	776,344	77,579,788	553,367	94,662,741	0	0	17,082	17,082	483,780	113,890,384
1982	790,491	77,915,340	559,812	95,445,208	0	0	17,083	17,083	484,753	117,020,043
1983	1,182,032	106,151,876	627,178	134,095,603	0	0	17,084	17,084	491,775	166,088,260
1984	1,262,034	109,681,856	661,946	139,258,173	0	0	17,084	17,084	491,697	171,072,383
1985	1,289,981	109,376,201	695,930	140,033,055	0	0	17,082	17,082	492,106	174,553,153
1986	1,360,103	110,716,086	732,155	143,200,297	0	0	17,084	17,084	491,927	178,397,182
1987	1,424,106	114,664,544	825,907	148,503,826	0	0	17,083	17,083	492,078	185,643,805
1988	1,460,778	116,303,148	918,523	151,233,029	0	0	17,083	17,083	491,206	188,817,301
1989	1,553,098	120,942,601	1,027,673	157,597,494	0	0	17,083	17,083	491,279	196,402,331
1990	1,558,969	127,505,880	1,176,433	164,809,493	0	0	17,083	17,083	490,976	205,920,488
1991	1,603,813	131,458,824	1,214,353	169,941,961	0	0	17,083	17,083	490,805	210,012,734
1992	1,616,847	131,698,559	1,194,116	170,808,400	0	0	17,083	17,083	491,017	210,592,516
1993	1,580,960	132,436,452	1,205,874	171,185,071	0	0	17,083	17,083	490,944	212,316,898
1994	1,599,985	136,911,733	1,251,167	176,419,613	0	0	17,083	17,083	490,983	217,454,620
1995	1,602,016	136,194,132	1,217,830	175,803,043	0	0	17,084	17,084	490,919	217,209,944
1996	1,568,878	136,011,866	1,221,765	175,462,364	0	0	17,083	17,083	490,560	218,141,061
1997	1,600,915	138,571,697	1,232,176	178,744,425	0	0	17,083	17,083	490,338	220,155,566
1998	1,566,152	139,525,730	1,244,839	179,636,340	0	0	17,082	17,082	489,859	220,901,246
1999	1,584,689	142,153,233	1,261,980	182,698,960	0	0	17,082	17,082	489,989	224,896,780
2000	1,604,357	143,454,253	1,263,054	184,518,663	0	0	17,082	17,082	489,813	225,669,446
2001	1,587,335	143,847,763	1,262,907	184,901,919	0	0	17,082	17,082	489,673	225,969,694
2002	1,573,585	144,686,729	1,266,274	185,633,247	0	0	17,082	17,082	489,635	227,189,914
2003	1,601,262	146,638,938	1,266,992	187,846,264	0	0	17,082	17,082	489,787	230,460,324
2004	1,597,202	146,595,838	1,255,224	187,820,176	0	0	17,082	17,082	489,837	229,979,167
2005	1,569,772	148,225,450	1,275,732	189,512,200	0	0	17,082	17,082	489,500	231,140,546
2006	1,580,897	149,196,192	1,285,829	190,603,400	0	0	17,082	17,082	489,653	232,866,463
2007	1,567,154	148,833,723	1,274,672	190,165,754	0	0	17,082	17,082	489,533	232,040,171
2008	1,581,245	148,534,887	1,263,845	190,442,621	0	0	17,082	17,082	489,518	231,945,020
2009	1,574,070	151,254,948	1,295,174	192,807,703	0	0	17,082	17,082	489,567	235,174,105
2010	1,599,010	151,148,030	1,282,437	193,190,335	0	0	17,082	17,082	489,536	235,320,266
2011	1,572,599	152,196,029	1,288,261	194,030,046	0	0	17,082	17,082	489,528	236,082,815
2012	1,575,685	152,859,252	1,295,961	194,767,098	0	0	17,082	17,082	489,532	236,815,261
2013	1,566,385	151,598,613	1,290,615	193,349,834	0	0	17,082	17,082	444,506	235,057,338
2014	1,563,386	151,075,558	1,280,892	192,679,976	0	0	17,082	17,082	408,168	234,307,335
2015	1,547,132	150,587,396	1,279,449	191,957,537	0	0	16,687	16,687	353,756	232,529,791
2016	1,537,895	148,434,632	1,257,928	189,479,982	0	0	16,531	16,531	329,981	229,904,139
2017	1,508,208	144,723,222	1,220,434	185,006,951	0	0	16,533	16,533	287,059	224,588,881
2018	1,452,170	138,243,672	1,162,150	177,280,426	0	0	16,531	16,531	212,058	216,557,310
2019	1,382,483	130,201,524	1,086,504	167,635,163	0	0	13,967	13,967	149,620	207,199,404
2020	1,304,288	123,794,432	1,037,763	159,802,668	0	0	2,321	2,321	127,745	198,819,860
2021	1,194,737	115,460,449	978,784	149,479,056	0	0	1,514	1,514	123,706	188,449,458
2022	1,131,300	108,576,712	940,623	141,457,967	0	0	161	161	122,829	180,405,413
2023	1,108,468	106,286,579	937,173	138,802,704	0	0	161	161	122,087	177,709,805
2024	1,095,295	104,258,342	922,380	136,536,298	0	0	159	159	121,593	175,431,757
2025	1,082,024	103,293,993	917,864	135,347,813	0	0	156	156	119,819	174,224,891
2026	1,066,158	102,232,005	912,247	134,043,600	0	0	156	156	119,201	172,555,000
2027	1,060,486	101,705,375	908,266	133,415,296	0	0	156	156	118,788	171,871,677
2028	1,058,843	101,105,636	900,990	132,763,137	0	0	156	156	118,409	171,040,761
2029	1,058,138	99,822,492	883,692	131,410,618	0	0	156	156	118,104	169,251,333
2030	1,055,949	98,280,381	863,798	129,755,567	0	0	156	156	117,817	166,600,777
2031	1,052,286	97,054,201	849,021	128,397,088	0	0	156	156	117,681	163,466,231
2032	1,046,954	96,537,023	844,350	127,740,205	0	0	156	156	117,579	161,300,294
2033	1,041,329	96,076,248	840,478	127,118,474	0	0	156	156	117,387	160,408,064
2034	1,038,004	95,730,120	837,174	126,635,257	0	0	156	156	117,133	159,855,393
2035	1,035,615	95,467,373	834,608	125,940,994	0	0	156	156	116,875	159,124,244
TOTAL	82,478,568	7,609,418,263	63,751,554	9,751,581,924	0	0	856,081	856,081	26,293,105	12,026,934,712

TABLE B-20: CALCULATION OF DELTA WATER RATES

[values in millions of dollars (\$) or millions of acre-feet (AF)
discounted to 1975 at 4.459 percent per annum, unless otherwise noted]

Procedure	Capital Cost Component		Minimum Operation Maintenance, Power and Replacement Component ^(a)		Total Delta Water Charge	
<u>In accordance with amendment to Articles 22(e) and 22(g)</u>						
<u>Commencing in 1976:</u>						
Total costs of "initial conservation facilities" to be reimbursed, and project water entitlements to be delivered, during the project repayment period	\$1,031.94 ^(b)	77.04 AF	\$208.59	77.04 AF	\$1,240.53	77.04 AF
less, project power revenues to be realized during the project repayment period ^(c)	\$ 454.81		\$ 41.25		\$ 496.06	
less, Delta Water Charges paid, and project water entitlements, prior to 1976 ^(d)	\$ 38.13	5.94 AF	\$ 9.82	5.94 AF	\$ 47.95	5.94 AF
Subtotal	\$ 539.00	71.10 AF	\$157.52	71.10 AF	\$ 696.52	71.10
Rate applicable 1976 thru 1987	\$ 7.58 per acre-foot		\$ 2.22 per acre-foot		\$ 9.80 per acre-foot	
<u>Commencing in 1988:</u>						
Additional costs to be reimbursed during the project repayment period for additional conveyance works	\$ 215.17		\$ 20.95		\$ 236.12	
less, Delta Water Charges paid, and project water entitlements delivered, during the period 1976-1987	\$ 168.43	22.22 AF	\$ 49.33	22.22 AF	\$ 217.76	22.22 AF
Cumulative Subtotal	\$ 585.74	48.88 AF	\$129.14	48.88	\$ 714.88	48.88 AF
Rate applicable 1988 thru 1995	\$11.98 per acre-foot		\$ 2.64 per acre-foot		\$14.62 per acre-foot	
<u>Commencing in 1996:</u>						
Additional costs to be reimbursed during the project repayment period for payments to the Corps of Engineers for initial block of storage	\$ 106.62		\$ 18.76		\$ 125.38	
less, Delta Water Charges paid, and project water entitlements delivered during the period 1988-1995	\$ 193.72	16.17 AF	\$ 42.69	16.17 AF	\$ 236.41	16.17 AF
Cumulative Subtotal	\$ 498.64	32.71 AF	\$105.21	32.71 AF	\$ 603.85	32.71 AF
Rate applicable 1996-2002	\$15.24 per acre-foot		\$ 3.22 per acre-foot		\$18.46 per acre-foot	
<u>Commencing in 2003:</u>						
Additional costs to be reimbursed during the project repayment period for payments to the Corps of Engineers for reserved block of storage	\$ 36.25		\$ 6.11		\$ 42.36	
less, Delta Water Charges paid, and project water entitlements delivered, during the period 1996-2002	\$ 158.95	10.43 AF	\$ 33.55	10.43 AF	\$ 192.50	10.43 AF
Cumulative Subtotal	\$ 375.94	22.28 AF	\$ 77.77	22.28 AF	\$ 453.71	22.28 AF
Rate applicable 2003 thru 2035	\$16.87 per acre-foot		\$ 3.49 per acre-foot		\$20.36 per acre-foot	
<u>Calculation under original provisions of the Contract</u>						
<u>Commencing in 1976:</u>						
Total costs of "initial" and "additional" project conservation facilities to be reimbursed, and project water entitlement to be delivered, during the project repayment period	\$1,389.98 ^(b)	77.04 AF	\$254.41	77.04 AF	\$1,644.39	77.04 AF
less, project power revenues to be realized during the project repayment period ^(c)	\$ 454.81		\$ 41.25		\$ 496.06	
less, Delta Water Charges paid, and project water entitlements delivered, prior to 1976 ^(d)	\$ 38.13	5.94 AF	\$ 9.82	5.94 AF	\$ 47.95	5.94 AF
TOTAL	\$ 897.04	71.10 AF	\$203.34	71.10 AF	\$1,100.38	71.10 AF
Rate applicable 1976 thru 2035	\$12.62 per acre-foot		\$ 2.86 per acre-foot		\$15.48 per acre-foot	

- a) Considering that all 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 for settlement as to the magnitude of project capital costs incurred prior to December 31, 1960, and net credits of \$5,309,973 for settlement as to the magnitude of project capital costs incurred during the 1961 through 1970 period.
- c) Applying all conservation power revenues to reimbursement of capital costs, except that portion equal to specific operating costs of power facilities under the Oroville Revenue Bond Resolution (\$1,500,000 annually beginning in 1970).
- d) Applying all Delta Water Charges paid prior to 1970 to reimburse capital costs (the Charge is not divided into components until 1970).

TABLE B-21: EQUIVALENT UNIT CHARGES FOR WATER SUPPLY FOR EACH CONTRACTOR (a)

(in dollars per acre-foot)

Project Service Area and Water Supply Contractor	Transportation Charge				Delta Water Charge	Total Equivalent Unit Charge
	Capital Cost Component	Minimum OMP&R Component	Variable OMP&R Component	Total		
	(1)	(2)	(3)	(4)	(5)	(6)
FEATHER RIVER AREA						
City of Yuba City	0	0	0	0	16.49	16.49
County of Butte	0	0	0	0	16.98	16.98
Plumas County Flood Control and Water Conservation District	14.84	0.12	0	14.96	15.97	30.93
Feather River Area	0.82	0.01	0	0.83	16.85	17.68
NORTH BAY AREA						
Napa County Flood Control and Water Conservation District	83.66	14.89	15.39	113.94	39.41	153.35
Solano County Flood Control and Water Conservation District	17.64	3.27	3.03	23.94	18.88	42.82
North Bay Area	33.52	6.06	6.00	45.58	23.82	69.40
SOUTH BAY AREA						
Alameda County Flood Control and Water Conservation District, Zone 7	13.14	7.33	15.42	35.89	15.48	51.37
Alameda County Water District	12.20	5.68	13.79	31.67	12.89	44.56
Santa Clara Valley Water District	16.17	5.11	12.48	33.76	11.99	45.75
South Bay Area	14.84	5.60	13.25	33.69	12.76	46.45
SAN JOAQUIN VALLEY AREA						
County of Kings	3.52	1.03	5.28	9.83	14.12	23.95
Devil's Den Water District	7.81	4.12	8.71	20.64	11.83	32.47
Dudley Ridge Water District	4.27	1.25	4.82	10.34	12.61	22.95
Empire West Side Irrigation District	3.01	0.88	4.11	8.00	11.60	19.60
Hacienda Water District	4.46	1.30	4.92	10.68	12.88	23.56
Kern County Water Agency	7.57	2.49	7.57	17.63	14.23	31.86
Oak Flat Water District	1.50	0.50	2.86	4.86	11.99	16.85
Tulare Lake Basin Water Storage District	4.08	1.19	4.71	9.98	12.57	22.55
San Joaquin Valley Area	6.99	2.30	7.11	16.40	13.93	30.33
CENTRAL COASTAL AREA						
San Luis Obispo County Flood Control and Water Conservation District	97.71	14.97	44.62	157.30	23.55	180.85
Santa Barbara County Flood Control and Water Conservation District	102.80	14.63	44.17	161.60	21.33	182.93
Central Coastal Area	101.40	14.73	44.31	160.44	21.96	182.40
SOUTHERN CALIFORNIA AREA						
Antelope Valley-East Kern Water Agency	29.74	6.70	47.87	84.31	17.57	101.88
Castaic Lake Water Agency	59.22	13.14	31.62	103.98	24.34	128.32
Coachella Valley County Water District	34.59	10.96	56.49	102.04	15.38	117.42
Crestline-Lake Arrowhead Water Agency	43.99	13.40	59.27	116.66	16.25	132.91
Desert Water Agency	35.14	11.14	56.91	103.19	15.46	118.65
Littlerock Creek Irrigation District	23.80	6.60	46.24	76.64	15.26	91.90
Mojave Water Agency	37.82	12.14	62.79	112.75	18.93	131.68
Palmdale Water District	29.42	8.14	52.76	90.32	20.48	110.80
San Bernardino Valley Municipal Water District	44.48	13.24	40.22	97.94	15.09	113.03
San Gabriel Valley Municipal Water District	55.31	16.77	42.48	114.56	20.08	134.64
San Geronio Pass Water Agency	53.59	16.20	47.03	116.82	16.25	133.07
The Metropolitan Water District of Southern California	47.40	11.70	32.37	91.47	17.83	109.30
Ventura County Flood Control District	45.53	10.42	32.12	88.07	17.28	105.35
Southern California Area	45.85	11.56	35.29	92.70	17.73	110.43
ALL AREAS	29.25	7.55	22.72	59.52	16.06	75.58

a) Hypothetical charges which, if assessed on all water delivered to date plus all entitlement water estimated to be delivered 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 at the project interest rate; 4.459 percent per annum.

TABLE B-22: EQUIVALENT UNIT COSTS OF WATER DELIVERED FROM OR THRU EACH AQUEDUCT REACH (a)

Aqueduct Reach	Unit Costs of Reach (b)				Cumulative Unit Costs from the Delta			
	Capital Costs	Minimum OMP&R	Variable OMP&R	Total	Capital Costs	Minimum OMP&R	Variable OMP&R	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
NORTH BAY AQUEDUCT								
1	15.80	3.40	2.87	22.07	15.80	3.40	2.87	22.07
2	6.70	.72	.00	7.42	22.50	4.12	2.87	29.49
3	47.26	8.04	13.02	68.32	69.76	12.16	15.89	97.81
SOUTH BAY AQUEDUCT								
1	5.11	3.63	10.38	19.12	6.18	4.14	13.97	24.29
2	.47	.42	.00	.89	6.65	4.56	13.97	25.18
4	1.69	.69	.00	2.38	8.34	5.25	13.97	27.56
5	3.65	.82	.00	4.47	11.99	6.07	13.97	32.03
6	.20	.03	.00	.23	12.19	6.10	13.97	32.26
7	1.68	.11	.00	1.79	13.87	6.21	13.97	34.05
8	2.52	.10	.00	2.62	16.39	6.31	13.97	36.67
9	4.91	.53	.00	5.44	21.30	6.84	13.97	42.11
CALIFORNIA AQUEDUCT								
1	1.07	.51	3.59	5.17	1.07	.51	3.59	5.17
2A	.87	.12	.00	.99	1.94	.63	3.59	6.16
2B	.42	.06	.00	.48	2.36	.69	3.59	6.64
3	.38	.07	.00	.45	2.74	.76	3.59	7.09
4	.64	.36	2.00	3.00	3.38	1.12	5.59	10.09
5	.58	.08	.00	.66	3.96	1.20	5.59	10.75
6	.16	.02	.00	.18	4.12	1.22	5.59	10.93
7	.45	.06	.00	.51	4.57	1.28	5.59	11.44
8C	.01	.01	.00	.02	4.58	1.29	5.59	11.46
8D	.28	.08	.00	.36	4.86	1.37	5.59	11.82
9	.21	.06	.00	.27	5.07	1.43	5.59	12.09
10A	.24	.06	.00	.30	5.31	1.49	5.59	12.39
11B	.35	.05	.00	.40	5.66	1.54	5.59	12.79
12D	.33	.05	.00	.38	5.99	1.59	5.59	13.17
12E	.22	.06	.00	.28	6.21	1.65	5.59	13.45
13B	.48	.12	.00	.60	6.69	1.77	5.59	14.05
14A	1.76	.60	3.37	5.73	8.45	2.37	8.96	19.78
14B	.27	.09	.00	.36	8.72	2.46	8.96	20.14
14C	.23	.08	.00	.31	8.95	2.54	8.96	20.45
15A	1.25	.54	3.70	5.49	10.20	3.08	12.66	25.94
16A	2.05	.90	7.58	10.53	12.25	3.98	20.24	36.47
17E	7.23	1.46	26.72	35.41	19.48	5.44	46.96	71.88
17F	2.01	.04	.00	2.05	21.49	5.48	46.96	73.93
18A	.88	.35	-.83	.40	22.37	5.83	46.13	74.33
19	1.27	.43	.00	1.70	23.64	6.26	46.13	76.03
19C	13.93	.13	.00	14.06	37.57	6.39	46.13	90.09
20A	1.11	.44	.00	1.55	24.75	6.70	46.13	77.58
20B	1.55	.44	.00	1.99	26.30	7.14	46.13	79.57
21	.75	.22	.00	.97	27.05	7.36	46.13	80.54
22A	.55	.16	.00	.71	27.60	7.52	46.13	81.25
22B	6.13	2.93	10.15	19.21	33.73	10.45	56.28	100.46
23	.33	.10	.00	.43	34.06	10.55	56.28	100.89
24	4.06	.94	.00	5.00	38.12	11.49	56.28	105.89
25	2.02	.03	.00	2.05	40.14	11.52	56.28	107.94
26A	2.92	1.27	-13.53	-9.34	43.06	12.79	42.75	98.60
28G	3.94	.38	.00	4.32	47.00	13.17	42.75	102.92
28H	3.99	.10	.00	4.09	50.99	13.27	42.75	107.01
28J	11.40	2.96	.00	14.36	62.39	16.23	42.75	121.37
WEST BRANCH								
29A	1.98	1.28	3.57	6.83	23.47	6.76	50.53	80.76
29F	1.30	.50	.00	1.80	24.77	7.26	50.53	82.56
29G	4.21	.97	-10.94	-5.76	28.98	8.23	39.59	76.80
29H	3.03	.58	.00	3.61	32.01	8.81	39.59	80.41
29J	5.37	.17	-13.15	-7.61	37.38	8.98	26.44	72.80
30	9.07	1.05	.00	10.12	46.45	10.03	26.44	82.92
COASTAL BRANCH								
31A	5.41	4.09	4.97	14.47	10.27	5.46	10.56	26.29
33A	64.93	4.51	31.00	100.44	75.20	9.97	41.56	126.73
34	5.81	.55	.00	6.36	81.01	10.52	41.56	133.09
35	18.91	1.18	.00	20.09	99.92	11.70	41.56	153.18

a) Representative of water transportation costs only; does not include conservation costs. The Delta Water Rate should be added to these values in order to approximate total water costs at canalside.

b) Hypothetical rates which, if assessed on all water delivered to date plus all entitlement water to be delivered during the project repayment period, would total a sum at the end of the period equivalent to all Transportation Charges, together with interest at the project interest rate; 4.459 percent per annum.

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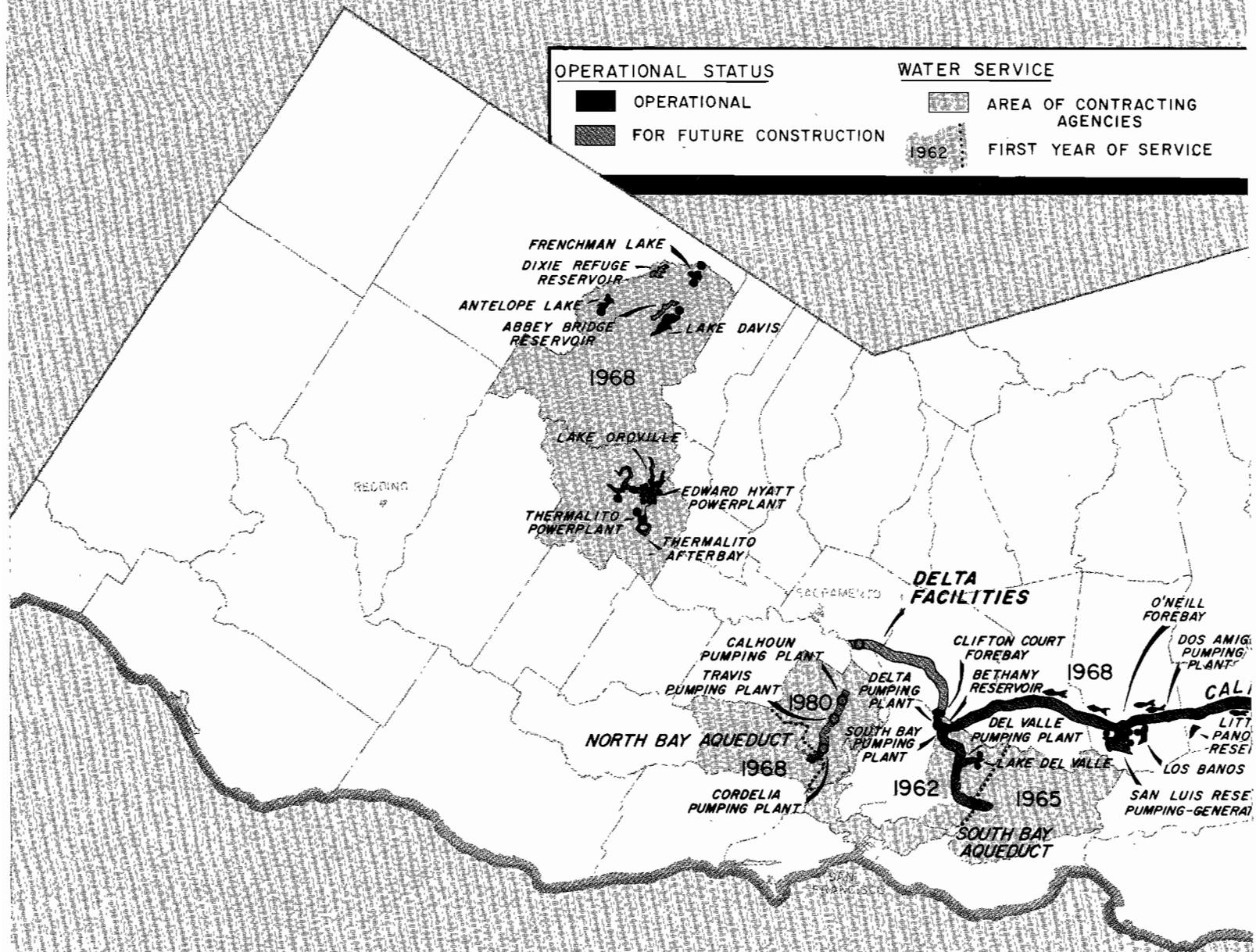
SUBJECT MATTER	BULLETIN 132-75		CORRESPONDING TABLE NOS. IN PREVIOUS BULLETINS 132											
	TABLE NO.	TABLE TITLE	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963
	MAIN TEXT (with allowance for future capital price escalation, for financial planning purposes)													
PROJECTED ANNUAL OPERATIONS	1	Annual Water Requirements	1	1	1	1	1	1	3	4	5	7	8	6,9
	4	Annual Project Energy Requirements for Pumping	3	3	3	3	3	3	4,5	6,7	6,7	8,9	9,10	10,11
ACTUAL OPERATIONS FOR PRIOR YEAR	2	Entitlement and Surplus Water	none	none	none	none	none	none	none	none	none	none	none	none
	3	Water Deliveries in 1974	2	2	2	2	2	none	none	none	none	none	none	none
	5	Water Quality Measurements at Selective Stations	4	4	none	none	none	none	none	none	none	none	none	none
PROJECTED ANNUAL FINANCING OF CAPITAL AND OPERATING EXPENDITURES	6	Monthly Power Operations in 1974	5	5	7	7	7	7	none	none	none	none	none	none
	7	Project Financial Analysis, December 31, 1974	6	6	8	14-16	13-15	14-16	21-24	23-26	23,24 26	24-27	24,25 27-31	40,42
	8	Project Construction Expenditures	7	7	9	9,11	8,10	8,11	10,13	19,15	19,15	20,16	22,17	12
	9	Bond Sales and Project Interest Rates	8	8	10	8	none	none	none	none	none	none	none	none
	10	Project Operating Costs	9	9	11	12,13	11,12	12,13	18,19	14,16	14,16	15,17	15,20 21	15
11	Annual Service on Bonds Sold as of December 31, 1974	10	10	12,13	none	none	none	none	none	none	none	none	none	
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	B-5	Annual Quantities Delivered from Each Aqueduct Reach to Each Contractor	B-5	B-5	B-5	B-5	B-5	B-7	B-4	B-4	B-5	C-4	5	
	B-6	Annual Quantities Conveyed thru Each Pumping and Power Recovery Plant of Project Transportation Facilities	B-6	B-6	B-6	B-6	B-6	B-6	B-3	B-5	B-5	B-6	C-5	8
RECONCILIATION OF CAPITAL EXPENDITURES	B-7	Reconciliation of Capital Costs Allocated to Water Supply and Power Generation for the Project Construction Period 1952-1985	B-7	B-7	B-7	B-7	B-7	B-7	B-8	none	none	none	none	
	B-8	Capital Costs of Requested Delivery Structures to be Built by the State	B-8	B-8	B-8	B-8	B-8	B-8	B-9	none	none	none	none	
	B-9	Capital Costs of Requested Excess Peaking Capacity	B-9	B-9	B-9	B-9	B-9	B-9	B-10	B-6	B-6	B-7	none	
C O S T S TRANSPORTATION CHARGE	B-10	Capital Costs of Each Aqueduct Reach to be Reimbursed thru Capital Cost Component of Transportation Charge	B-10	B-10	B-10	B-10	B-10	B-10	B-11	B-7	B-7	B-8	C-6	
	B-11	Minimum OMP&R Costs of Each Aqueduct Reach to be Reimbursed thru Minimum OMP&R Component of Transportation Charge	B-11	B-11	B-11	B-11	B-11	B-11	B-13	B-9	B-9	B-11	C-8	
	B-12	Variable OMP&R Costs to be Reimbursed thru Variable OMP&R Component of Transportation Charge	B-12	B-12	B-12	B-12	B-12	B-12	B-14	B-10	B-10	B-12	C-9	
T H U DELTA WATER CHARGE	B-13	Capital and Operating Costs of Project Conservation Facilities to be Reimbursed thru Delta Water Charge	B-13	B-13	B-13	B-13	B-13	B-13	B-12	none	none	none	16	
RE-DETERMINED ANNUAL TRANSPORTATION CHARGE FOR EACH WATER CONTRACTOR	B-14	Capital Costs of Transportation Facilities Allocated to Each Contractor	B-14	B-14	B-14	B-14	B-14	B-14	B-17	B-11	B-11	B-13	C-10	
	B-15	Capital Cost Component of Transportation Charge for Each Contractor	B-15	B-15	B-15	B-15	B-15	B-15	B-18	B-12	B-12	B-14	C-11	
	B-16	Minimum OMP&R Component of Transportation Charge for Each Contractor	B-16	B-16	B-16	B-16	B-16	B-16	B-19	B-13	B-13	B-15	C-12	
	B-17	Unit Variable OMP&R Component of Transportation Charge	B-17	B-17	B-17	B-17	B-17	B-17	B-5	B-14	B-14	B-16	C-13	
	B-18	Variable OMP&R Component of Transportation Charge for Each Contractor	B-18	B-18	B-18	B-18	B-18	B-18	B-20	B-15	B-15	B-17	C-14	
B-19	Total Transportation Charge for Each Contractor	B-19	B-19	B-19	B-19	B-19	B-19	B-21	B-16	B-16	B-18	C-15		
FUTURE DELTA WATER RATES	B-20	Calculation of Delta Water Rates	B-20	B-20	B-20	B-20	B-20	B-20	none	none	none	none	50	
EQUIVALENT COSTS OF WATER	B-21	Equivalent Unit Charges for Water Supply for Each Contractor	B-21	B-21	B-21	B-21	B-21	B-23	B-23	none	none	none	39	
	B-22	Equivalent Unit Costs of Water Delivered From or Thru Each Aqueduct Reach	B-22	B-22	B-22	B-22	none	none	none	none	none	none	none	

OPERATIONAL STATUS

- OPERATIONAL
- FOR FUTURE CONSTRUCTION

WATER SERVICE

- AREA OF CONTRACTING AGENCIES
- 1962 FIRST YEAR OF SERVICE



25 DAMS AND RESERVOIRS

Name of Reservoir	Reservoirs			Dams			
	Capacity (Acre-feet)	Surface Area (acres)	Shore-line (miles)	Spillway Elevation (feet)	Structural Height (feet)	Crest Length (feet)	Volume (cubic yards)
Frenchman Lake	55,477	1,580	21	5,588	139	720	537,000
Antelope Lake	22,566	931	15	5,002	120	1,320	380,000
Lake Davis	84,371	4,026	32	5,775	132	800	253,000
Abbey Bridge	45,000	1,950	21	5,450	117	1,150	500,000
Dixie Refuge	16,000	900	15	5,740	100	1,050	400,000
Lake Oroville	3,537,577	15,805	167	900	770	6,920	80,000,000
Thermalito Diversion Pool	13,328	323	10	225	143	1,300	154,000
Fish Barrier Pool	580	52	1	149	91	600	10,500
Thermalito Forebay	11,768	630	10	225	91	15,900	1,840,000
Thermalito Afterbay	57,041	4,302	26	136	39	42,000	5,020,000
Clifton Court Forebay	28,653	2,109	8	5	30	36,500	2,440,000
Bethany	4,804	161	6	243	121	3,940	1,400,000
Lake Del Valle	77,106	1,060	16	745	235	880	4,150,000
San Luis	2,038,771	12,700	65	544	385	18,600	77,645,000
O'Neill Forebay	56,426	2,700	12	225	88	14,350	3,000,000
Los Banos	34,562	623	12	354	167	1,370	2,100,000
Little Panoche	13,236	354	10	670	152	1,440	1,210,000
Bettes	21,800	580	6	—	190	2,230	3,130,000
Silverwood Lake	74,970	976	13	3,355	249	2,230	7,800,000
Lake Perris	131,452	2,318	10	1,580	128	11,600	20,000,000
Quail Lake	5,020	223	3	3,317	40	—	—
Pyramid Lake	171,196	1,297	21	2,579	400	1,090	6,860,000
Elderberry Forebay	28,231	460	7	1,530	200	1,990	6,000,000
Castaic Lake	323,702	2,235	29	1,515	425	4,900	46,000,000
Castaic Lagoon	5,662	196	3	1,136	25	—	—
Totals	6,859,299	58,491	539			172,880	270,629,500

AQUEDUCTS

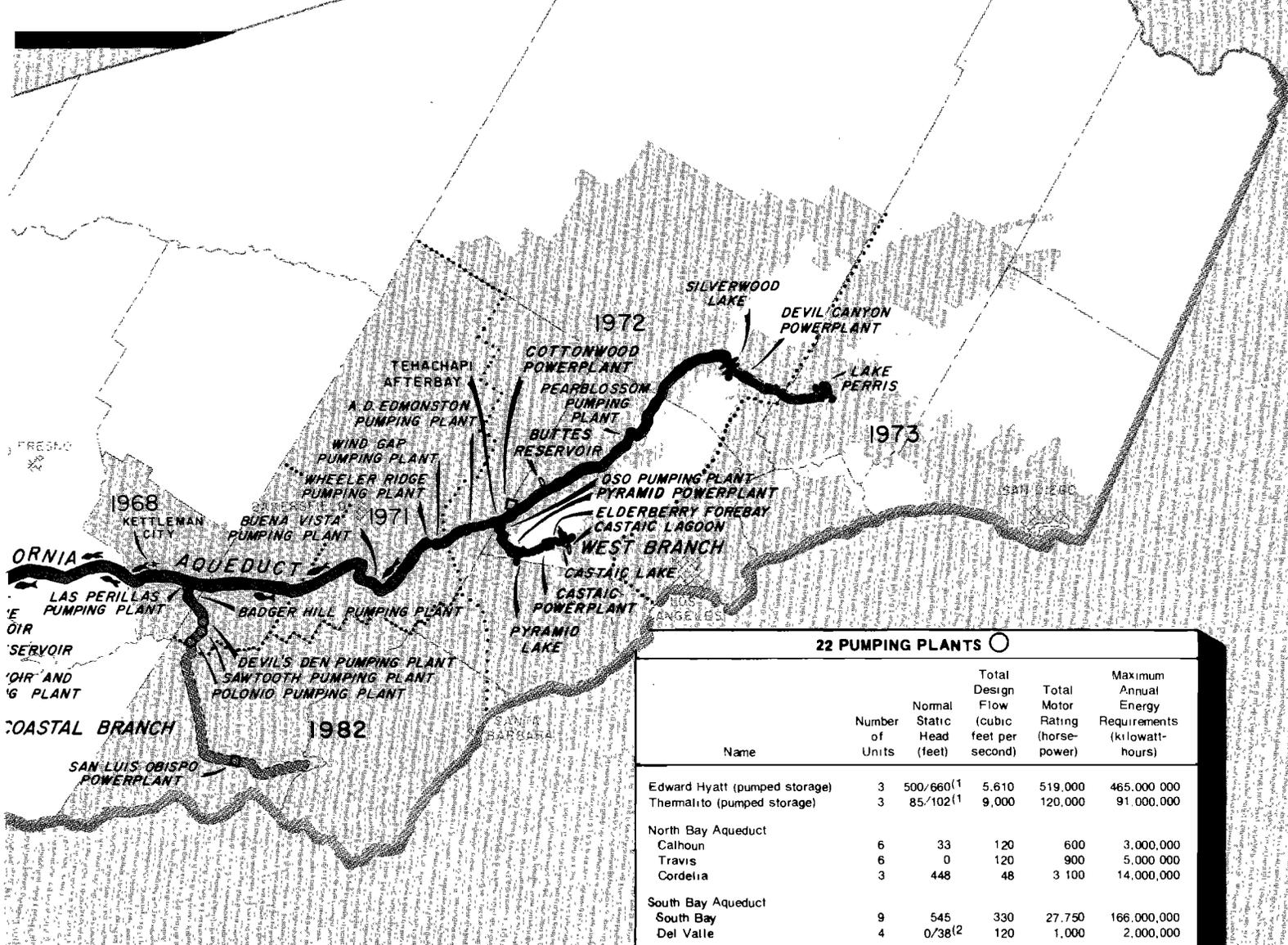
Name	Length (miles)				Channel and Reservoir
	Total	Canal	Pipeline	Tunnel	
North Bay Aqueduct	26.5	14.3	12.2	0	0
South Bay Aqueduct	42.9	8.4	32.9	1.6	0
Peripheral Canal	43.0	42.0	1.0	0	0
Subtotal	112.4	64.7	46.1	1.6	0
California Aqueduct (main line):					
Delta to O'Neill Forebay	68.4	67.0	0	0	1.4
O'Neill Forebay to Kettleman City	105.7	103.5	0	0	2.2
Kettleman City to A. D. Edmonston Pumping Plant	120.9	120.9	0	0	0
A. D. Edmonston Pumping Plant thru Tehachapi Afterbay	10.6	0.2	2.5	7.9	0
Tehachapi Afterbay thru Lake Perris	138.4	93.4	38.3	3.8	2.9
Subtotal, main line	444.0	385.0	40.8	11.7	6.5
California Aqueduct (branches):					
West Branch	31.9	9.1	6.4	7.2	9.2
Coastal Branch	96.2	14.8	81.4	0	0
Subtotal, branches	128.1	23.9	87.8	7.2	9.2
Totals	684.5	473.6	174.7	20.5	15.7

STATISTICS

RECREATION

RECREATION AREAS

FISHING ACCESS SITES



22 PUMPING PLANTS ○

Name	Number of Units	Normal Static Head (feet)	Total Design Flow (cubic feet per second)	Total Motor Rating (horsepower)	Maximum Annual Energy Requirements (kilowatt-hours)
Edward Hyatt (pumped storage)	3	500/660 ⁽¹⁾	5,610	519,000	465,000,000
Thermalito (pumped storage)	3	85/102 ⁽¹⁾	9,000	120,000	91,000,000
North Bay Aqueduct					
Calhoun	6	33	120	600	3,000,000
Travis	6	0	120	900	5,000,000
Cordelia	3	448	48	3,100	14,000,000
South Bay Aqueduct					
South Bay	9	545	330	27,750	166,000,000
Del Valle	4	0/38 ⁽²⁾	120	1,000	2,000,000
California Aqueduct (main line)					
Delta	11	244	10,303	333,000	1,355,000,000
San Luis					
Total	8	99/327 ⁽²⁾	11,000	504,000	
State Share			5,762	264,000	313,000,000
Dos Amigos					
Total	6	113	13,200	240,000	
State Share			7,100	130,000	607,000,000
Buena Vista	10 ⁽³⁾	205	5,049	136,000	746,000,000
Wheeler Ridge	9 ⁽³⁾	233	4,598	140,000	797,000,000
Wind Gap	9 ⁽³⁾	518	4,410	308,000	1,761,000,000
A. D. Edmonston	14 ⁽³⁾	1,926	4,095	1,040,000	5,916,000,000
Pearblossom	6	540	1,380	113,200	647,000,000
California Aqueduct (branches)					
Oso	8	231	3,128	93,800	446,000,000
Las Perillas	6	55	450	4,050	20,000,000
Badger Hill	6	151	450	10,500	56,000,000
Devil's Den	4	409	126	8,000	51,000,000
Sawtooth	4	331	126	6,500	41,000,000
Polonio	4	810	126	16,000	101,000,000
Peripheral Canal					
Total	9 ⁽³⁾	10	21,800	35,200	
State Share			10,900	17,440	88,000,000
Total, State Share					13,691,000,000

8 POWERPLANTS □

Name	Number of Units	Normal Static Head (feet)	Total Design Flow (cubic feet per second)	Power Generator Output (kilowatts)	Maximum Annual Energy Output (kilowatt-hours)
Edward Hyatt	6	410/676 ⁽¹⁾	14,550	678,750	2,475,000,000
Thermalito	4	85/100 ⁽¹⁾	16,900	119,600	383,000,000
San Luis					
Total	8	99/327 ⁽¹⁾	13,120	424,000	
State Share			6,872	222,100	170,000,000
Cottonwood	1	140	1,637	15,000	115,000,000
Devil Canyon	2	1,418	1,200	119,700	1,003,000,000
Pyramid	2	740	3,100	157,000	1,001,000,000
Castaic					
Total	7	1,063	18,400	1,250,000	
State Share ⁽²⁾			3,092	214,000	1,457,000,000
San Luis Obispo	1	730	111	5,900	41,000,000
Total, State Share				6,645,000,000	

1) Minimum and maximum static heads.
 2) 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 electrical power and energy equivalent to the generation from a 213,984-kilowatt powerplant the State originally planned to construct.

1) Minimum and maximum total pumping heads.
 2) Minimum and maximum static heads.
 3) Includes one spare unit.