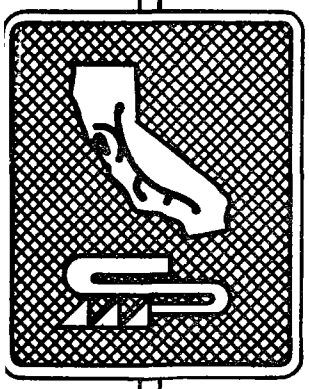

STATE OF CALIFORNIA

The Resources Agency

Department of Water Resources

BULLETIN No. 132-68

THE CALIFORNIA STATE WATER PROJECT IN 1968

JUNE 1968

RONALD REAGAN
Governor
State of Calif rnia

WILLIAM R. GIANELLI
Director
Department of Water Resources

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FOREWORD

This is the sixth in a series of annual reports by the Department of Water Resources on the California State Water Project, published for the information of the State Legislature; the California Water Resources Development Finance Committee; the California Water Commission; project water and power users; bond underwriters, dealers, and investors; and the public.

The Project's financial problem has been in the limelight since completion of reappraisals instituted by Governor Reagan shortly after taking office in 1967. This problem is very real. The capability provided by the $1.75 billion in general obligation bonds, approved by Californians in the General Election of November 1960 to assist in financing the Project, and by other available funds has been eroded due to the significant escalation of construction prices that has been experienced in recent years.

In such an unprecedented and complex undertaking as the State Water Project, the multitude of attendant large and small problems seem, at times, to overshadow the accomplishments attained. These accomplishments are also real and significant. Completed Oroville Dam stands ready to protect the downstream Yuba City-Marysville area from a recurrence of the devastation wrought by the December 1955 flood. Project facilities have been serving the Upper Feather area and South San Francisco Bay area since 1962. Water lifted from the Sacramento-San Joaquin Delta is flowing to a point 28 miles within Kern County -- for 221 miles of the 444-mile main line of the California Aqueduct. Deliveries of project water to the San Joaquin Valley have commenced in accordance with a timetable established eight years ago in the spring of 1960.

Whether or not benefits are being realized according to plan constitutes the only reliable yardstick for measuring the success or failure of such an unprecedented undertaking as the State Water Project. Viewing the tremendous activity along the west side of the San Joaquin Valley, where barren sagebrush lands are being transformed into irrigated fields, one cannot doubt the success of the entire State Water Project as construction is pushed to completion.

William R. Gianelli

William R. Gianelli, Director
Department of Water Resources
The Resources Agency
State of California
May 20, 1968

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ABSTRACT

This bulletin reports progress on the construction, operation, financing, and management of the State Water Project since about April 1, 1967. / Oroville Dam, the key conservation feature of the Project, was completed in October 1967. Storage of water began in November 1967. Water deliveries through Phase II of the North Bay Aqueduct were initiated to Napa County in April 1968. Construction of 221 miles of the 444-mile main line of the California Aqueduct are essentially complete, together with the first 15 miles of the Coastal Branch. Water deliveries are being made to agencies in the arid west side of the San Joaquin Valley in accordance with a timetable established in 1960. / A Division of Operations and Maintenance was established providing for strong, centralized control of project operations and maintenance activities. The Project's water rights applications were approved in May 1967. Contracts were completed for the purchase of Northwest power to supplement the power supply for pumping project water at the lowest possible cost. A contract for the sale of high-value Oroville-Thermalito power was executed with the California Power Pool Companies in November 1967. / Execution of the power sale contract permitted the first sale of revenue bonds in April 1968. Additional construction funds in the total amount of $219 million are expected to be derived from the proceeds of such sales. In spite of these additional funds, and of the many actions taken by the Department to conserve available funds, a long-term financial deficiency of $269 million is indicated. The current estimate of the total capital cost of the Project is $2,778 million, exclusive of the future design and construction costs for the San Joaquin Drainage Facilities. / The Bulletin 132 series, a continuing annual progress report, provides a central reference for current project data. It systematically updates the Project's long-range cost and financial projections.

Note:

The actual and estimated cost and water data summarized in this bulletin are current as of December 31, 1967, in order to allow time to complete necessary analyses. Actions and events described in this bulletin are current as of about April 1, 1968. However, the operations and maintenance activities described in Chapter IV are current as of December 31, 1967, since that chapter relates directly to actual water and power operations data.

CHAPTER I. CONTINUING HISTORY OF THE PROJECT

The Department's Bulletin 132 series constitutes the annual report on the State Water Project: it documents project management for past years, it supports the determination of charges for project water service during the following year, and it outlines project management plans for future years.

Several other continuing series of reports relate to the State Water Project, and include:

1. The annual "Report of the California Water Resources Development Finance Committee and Department of Water Resources to the Legislature on the State Water Resources Development System";

2. The annual Bulletin 153 series, "Allocations of Costs Among Purposes of the California State Water Project";

3. The monthly "State Water Project: Operations, Maintenance, Revenues, Expenditures"; and

4. The biennial Bulletin 160 series, "Implementation of the California Water Plan".

In addition, many special reports document such aspects as the design and construction of respective project facilities, financial feasibility of service to individual water contractors, planning studies for proposed project facilities, and development of recreation plans for project facilities.

The Bulletin 132 series correlates the results of the many project-related reports published in the past and provides the basic foundation for such reports to be published in the future. Thus, the Bulletin 132 series fulfills a fundamental need for a current reference on a complex and dynamic project.

Previous Bulletins of the 132 series have noted those specific actions which have affected the course of the State Water Project prior to about April 1, 1967. The documents noted therein are bound and placed in the Department's Reference Collection and are a permanent part of the Project's historical records.

This chapter records specific actions occurring during the approximate period April 1, 1967, to April 1, 1968, for the continuing documentation of the Project's history. These actions concern either the management of the Project as a whole or the individual facilities of the Project itself. Actions relating to individual management programs are recorded in the progress reports on such programs, described in subsequent chapters.

Actions Affecting Project Management

In regard to overall project management, the State Water Project Utility Committee was abolished on September 25, 1967, by order of its chairman.1/ The Utility Committee was established on May 20, 1963, with membership drawn from the upper management officers of the Department -- formerly listed at the beginning of each Bulletin 132. Its purpose was to analyze and review major decisions affecting policy and operations of the utility constituted by the Project. The purpose of the Committee has been consolidated with that of the Department's Executive Staff.

The primary direction of projectwide actions taken during the past year was toward alleviating a predicted deficiency in funds available for completing project construction. These actions related to the need for conservation of presently available project funds, acquisition of additional project funds, and adjustments of financial capabilities due to the adverse effects of prolonged inflation. These actions not only extended to the capital requirements of the Project itself, but also to the recurring operation and maintenance costs of the Project and to the costs of such project-associated works as recreation developments and water contractor distribution systems.

Conservation of Available Project Funds

The obvious possibilities for conserving available project funds include the deferral or elimination of nonessential project construction.

Deferral of Construction Schedules. The report of the Water Resources Task Force, appointed by Governor Reagan, was noted in last year's bulletin.2/ The Task Force concluded, among other things, that the Project faced a possible short-term

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1/ *Department of Water Resources - State Water Project Utility Committee memorandum by W. R. Gianelli, "Cancellation of Utility Committee", September 25, 1967.*

2/ *See pp. 8-10, Bulletin 132-67.*

financial deficiency of up to $300 million through 1972 and a long-term deficiency of up to $600 million through 1985 -- if construction continued on the schedules then set forth in the published annual reports of the Department (i.e., in the Bulletin 132 series). The Task Force listed 20 recommendations that the Department should consider in efforts to alleviate the indicated deficiencies.

In May 1967, Director Gianelli appointed a special committee within the Department for follow-up of the recommendations contained in the Governor's Water Resources Task Force report.3/

After three months of intensive study by the Committee, the Department released a two-volume report in response to the Task Force's recommendations.4/ Volume I investigated three specific recommendations that concerned the financial requirements and construction scheduling of the Project. Volume II analyzed the remaining 17 recommendations that pertained to administration, department organization, project operation, water service contracts and construction contracts, legality, future project facilities, and water quality studies.

The Committee presented alternative schedules for proceeding with construction of the Project in Volume I of the Department's "response". The Committee followed a criterion that project water must be delivered from Castaic Lake in 1971 and from the East Branch to the Santa Ana Valley in 1972. Under this criterion, the Committee designated the

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3/ *Department of Water Resources memorandum from W. R. Gianelli to A. R. Golze', "Special Committee for Follow-up of Report by Governor's Task Force on State Water Project", June 2, 1967. Committee membership consisted of: Alfred R. Golze', Deputy Director (Chairman); John R. Teerink, Deputy Director (Vice Chairman); Haywood G. Dewey, Jr., Assistant Chief Engineer; Wesley E. Steiner, Assistant Chief Engineer; Robin R. Reynolds, Chief of Statewide Operations; Vernon E. Valantine, Chief of Operations, Southern District; John E. Hunt, Financial Adviser; and Porter A. Towner, Chief Counsel.*

4/ *Department of Water Resources Bulletin (unnumbered), "Response to the Governor's Water Resources Task Force", September 1967: Volume I, "Alternatives for State Water Project Construction and Financing through 1975"; Volume II, "Remaining Considerations". (See Water Service Contractors Council Memo No. 307, "Construction Scheduling and Financing", September 7, 1967.)*

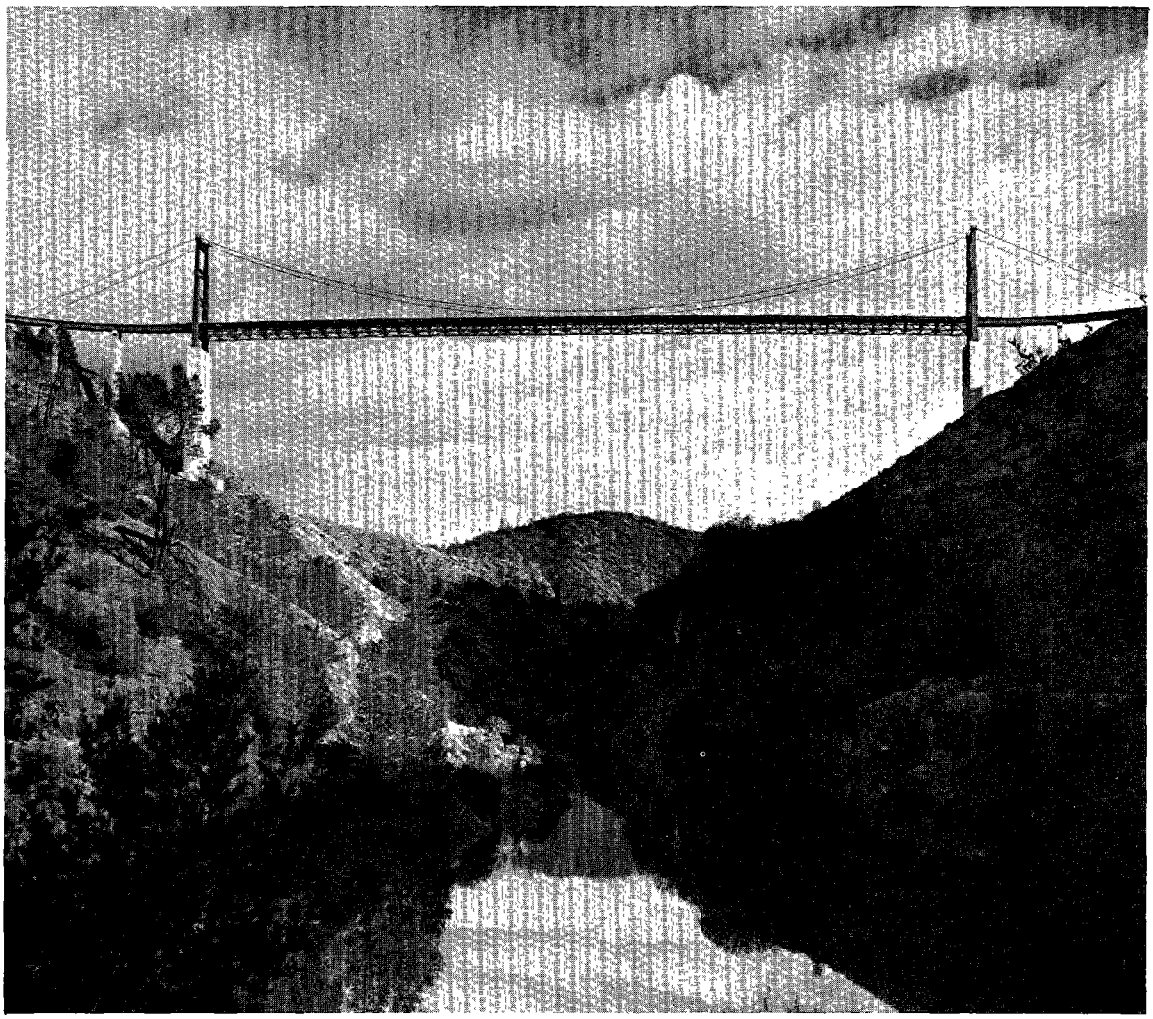
following 16 project units, not yet under construction, that should be considered for adjustment -- either in regard to the allowance for the future costs thereof or to the schedule of future construction thereof:

1. Abbey Bridge Dam and Reservoir.
2. Dixie Refuge Dam and Reservoir.
3. Right-of-way for Phase II construction of the North Bay Aqueduct.
4. Cottonwood Powerplant.
5. Buttes Dam and Reservoir.
6. Two pump units of the Pearblossom Pumping Plant.
7. Devil Canyon Powerplant.
8. California Aqueduct from Devil Canyon Powerplant to Lake Perris (Santa Ana Valley Pipeline).
9. Perris Dam and Lake Perris.
10. West Branch of the California Aqueduct from Oso Pumping Plant to Pyramid Powerplant.
11. Pyramid Powerplant.
12. Coastal Branch of the California Aqueduct from, and including, the Devil's Den Pumping Plant to the Santa Maria terminus, together with certain pump units in the Las Perillas and Badger Hill Pumping Plants.
13. Peripheral Canal.
14. San Joaquin Drainage Facilities.
15. Middle Fork Eel River Development.
16. Augmentation of the San Luis Canal capacity in the mid-1980's.

The Committee restricted the scope of its investigation to the "short-term" financial deficiency and analyzed estimated costs and schedules through 1975 only -- recognizing the highly conjectural nature of estimates for conditions occurring more than eight years in the future. The Committee developed three alternative construction programs for those project units subject to adjustment during the period through 1975 -- identified as Case I, II, and III in the Department's "response".

Case I corresponded to the program described in Bulletin 132-67. Under this program, the Committee's analyses indicated that available funds would be exhausted in 1971, deficient by about $51 million through 1972, and deficient by about $77.5 million through 1975.

Case II presented a program with minimum construction deferrals but with certain increases in allowances for estimated construction costs that the Committee deemed prudent. Under this program analyses indicated that available funds



The Bidwell Bar Bridge

would be exhausted in 1971, deficient by about $21.5 million through 1972, and deficient by about $39 million through 1975.

Case III presented a program with maximum construction deferrals of the applicable 16 units without infringing upon the Project's capability to meet the 1971-72 initial water delivery dates in Southern California. Under this program, analyses indicated that there would be a balance of available funds after financing costs through 1972 of $96.9 million, and through 1975 of $65.8 million.

On September 6, 1967, Director Gianelli transmitted the Department's two-volume "response" to the California Water Commission.5/ The Director suggested that the Commission and the Department schedule joint hearings on the alternatives discussed in Volume I, to receive comments from parties concerned and interested in the Project. The impact of possible construction deferrals upon water contractor plans was especially desired.

These joint hearings were held in Los Angeles on September 25, 1967, and in Sacramento on September 26, 1967.6/ After considering the testimony received, the Commission expressed its conclusions and recommendations as to the alternative construction programs in a memorandum to the Director.7/ The Commission emphasized ". . . It would be foolhardy to continue construction on the established schedule based only on an expectation of new funds at whatever date." The Commission recommended the utilization of available funds for construction of only the most essential project units and suggested the following guidelines as to establishing priorities for such construction:

1. Water delivery facilities required to satisfy the State's obligations under executed water supply contracts.

2. Revenue-producing facilities planned to reduce the costs of project water service.

5/ *Department of Water Resources memorandum from W. R. Gianelli to Mr. Ira J. Chrisman, Chairman, California Water Commission, September 6, 1967.*

6/ *See the document referred to in footnote 8, p. 7, for a summary of the testimony received at these hearings.*

7/ *Memorandum from California Water Commission to William R. Gianelli, "Response to the Governor's Water Resources Task Force", October 6, 1967. (See Water Service Contractors Council Memo No. 319, "Commission Recommendations on Project Scheduling and Financing", October 16, 1967.)*

3. Regulatory and/or emergency storage facilities needed to operate the Project most efficiently.

4. Recreation and fish and wildlife enhancement facilities, together with any other desirable but nonessential project units.

On October 17 and 18, 1967, the Senate and Assembly Water Committees held joint hearings on the financial problems facing the State Water Project. Preparatory to the hearings, the Department furnished a 69-page document in response to letters posing 21 questions by the chairmen of the Committees.8/ At the hearings, the Director stated that in accordance with the California Water Commission's guidelines, the Department planned to defer the construction of all 16 project units identified in Volume I of the Department's "response", with certain exceptions:9/

1. Construction of the Santa Ana Valley Pipeline will proceed as originally scheduled in view of testimony by The Metropolitan Water District of Southern California that the Pipeline is a necessary, integral part of the water delivery system required for utilization of project water;10/ and

2. Preparation of a feasibility study of Buttes Dam will proceed in order that its future construction could be either scheduled or abandoned.11/

8/ *Letter from W. R. Gianelli to Honorable Carley V. Porter, Chairman, Assembly Committee on Water, and Honorable Gordon Cologne, Chairman, Senate Water Resources Subcommittee, October 11, 1967. (See Water Service Contractors Council Memo No. 324, "Project Financing and Construction", October 19, 1967.)*

9/ *Mimeographed "Opening Statement" by William R. Gianelli, presented before the Senate Subcommittee on Water Resources of the Senate General Research Committee and the Assembly Committee on Water, October 17-18, 1967, Sacramento, California. (See Water Service Contractors Council Memo No. 324, "Project Financing and Construction", October 19, 1967.)*

10/ *For a summary of the District's testimony before the joint California Water Commission-Department of Water Resources hearings, see Footnote 8, above.*

11/ *See p. 40.*

The Department immediately adopted a construction program that conformed with the Director's statement before the legislative hearing.12/

During and after the legislative hearing, a great deal of support developed for providing additional financing to meet the short-term capital requirements of the Project, so that construction could proceed essentially in accordance with the original plan.

In view of this support and the pledge announced November 8, 1967, by the State Administration and by the chairmen of the Senate and Assembly Water Committees to seek enactment of legislation that would provide additional financing,13/ the Director approved a revised construction program in late November.14/ Under this program, plans and designs will proceed on Devil Canyon Powerplant, Pyramid Powerplant, the aqueduct from Oso Pumping Plant to Pyramid Powerplant, Perris Dam and Lake Perris, and Abbey Bridge Dam and Reservoir. Preliminary design work was also permitted to resume in order to define right-of-way requirements for Phase II construction of the North Bay Aqueduct.

Efficiency and Cost Control. Soon after taking office in January 1967, Governor Reagan established a special survey of operations throughout state government that was conducted by volunteer business and industrial executives.15/ Completion of a partial report of the "Governor's Survey on Efficiency and Cost Control" in the Department of Water Resources was announced in November 1967. Primarily, the Survey's recommendations dealt with organization, program

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12/ *Department of Water Resources memorandum from Alfred R. Golze' to William R. Gianelli, "Revision to Project Schedules", October 18, 1967, approved October 18, 1967.*

13/ *Governor's Press Release dated November 8, 1967. For a description of the legislation introduced during the 1968 Regular Session, see p. 20.*

14/ *Department of Water Resources memorandum from Alfred R. Golze' to William R. Gianelli, "Revision to Project Schedules", November 28, 1967, approved November 29, 1967.*

15/ *Survey personnel assigned to the Department were: Hunt Conrad, Manager, Industry Affairs, Kern County Land Company; John Hopkins, Refinery Manager, Union Oil Company of California; Douglas McCauley, Industrial Relations Supervisor, Union Oil Company of California; and John Morgan, Director of Planning, California-Western States Life Insurance Company.*

development and control, manpower control, and related matters. At the time of the announcement, the Department had taken 16 actions implementing recommendations of the Survey. Of these, the following seven recommendations and corresponding actions directly pertained to the State Water Project:

1. Establish a line Division of Operations and Maintenance. On November 15, 1967, the Director approved the establishment of the Division of Operations and Maintenance and five operating Field Divisions therein.16/ The new Division combines all line activities concerning the operations and maintenance of project facilities under the centralized direction and control of the Division Engineer. Personnel in Field Divisions (formerly termed "Zones") will perform actual project operations and maintenance activities under Field Division Managers (formerly termed "Zone Chiefs") reporting directly to the Division Engineer.17/ The Division's headquarters, in Sacramento, will provide direction, management coordination, development and monitoring of standards and procedures, and technical support of actual operations and maintenance where special knowledge is required.

   The Director formally announced establishment of the Division of Operations and Maintenance, effective January 1, 1968.18/

2. Appoint a chief of the Division of Operations and Maintenance. Effective March 1, 1968, Mr. Robert B. Jansen was appointed Division Engineer of the new Division of Operations and Maintenance. Mr. Jansen was Chief of the Department's Division of Safety of Dams for the last three years. Previously, he was Deputy Division Engineer of the Division of Design and Construction for five years. Mr. Jansen was

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16/ *Department of Water Resources memorandum from Alfred R. Golze' to William R. Gianelli, "Progress Report Relating to Division of Operations and Maintenance", November 6, 1967, approved November 15, 1967.*

17/ *See Figure 4, p. 99, for a delineation of the project facilities within each Field Division Manager's responsibility.*

18/ *Department of Water Resources memorandum from William R. Gianelli to Executive Staff, "Division of Operations and Maintenance", January 5, 1968.*

appointed from a civil service eligibility list in a competitive examination that attracted 125 applicants from throughout the United States.

3. Reduce the amount of legal review of proposed change orders to construction contracts. On August 1, 1967, the Director established new administrative procedures to reduce the amount of prior legal review of construction change orders and to promote an attorney-client relationship between the Department's legal staff and construction staff.19/ In addition, authority was delegated to lower levels in connection with the processing of change orders.20/

4. Review and tighten control of the relocation of automobiles from one project office to another. The Department established a very rigid review and control program concerning the relocation of state automobiles among project offices, as the workload declines in one and accelerates in another. Through continuing review and control of the use of vehicles, the Department was able to confine the demand for automobiles for fiscal year 1968-69 to the same number of vehicles presently on hand.

5. Review design work remaining to be done on the Project. The indicated deficiency in funds available necessitates that design and specification requirements be kept at the minimum necessary for a viable and sound project without frills of any kind.

   On December 26, 1967, the Director formed a consulting "Board on Evaluation of Design and

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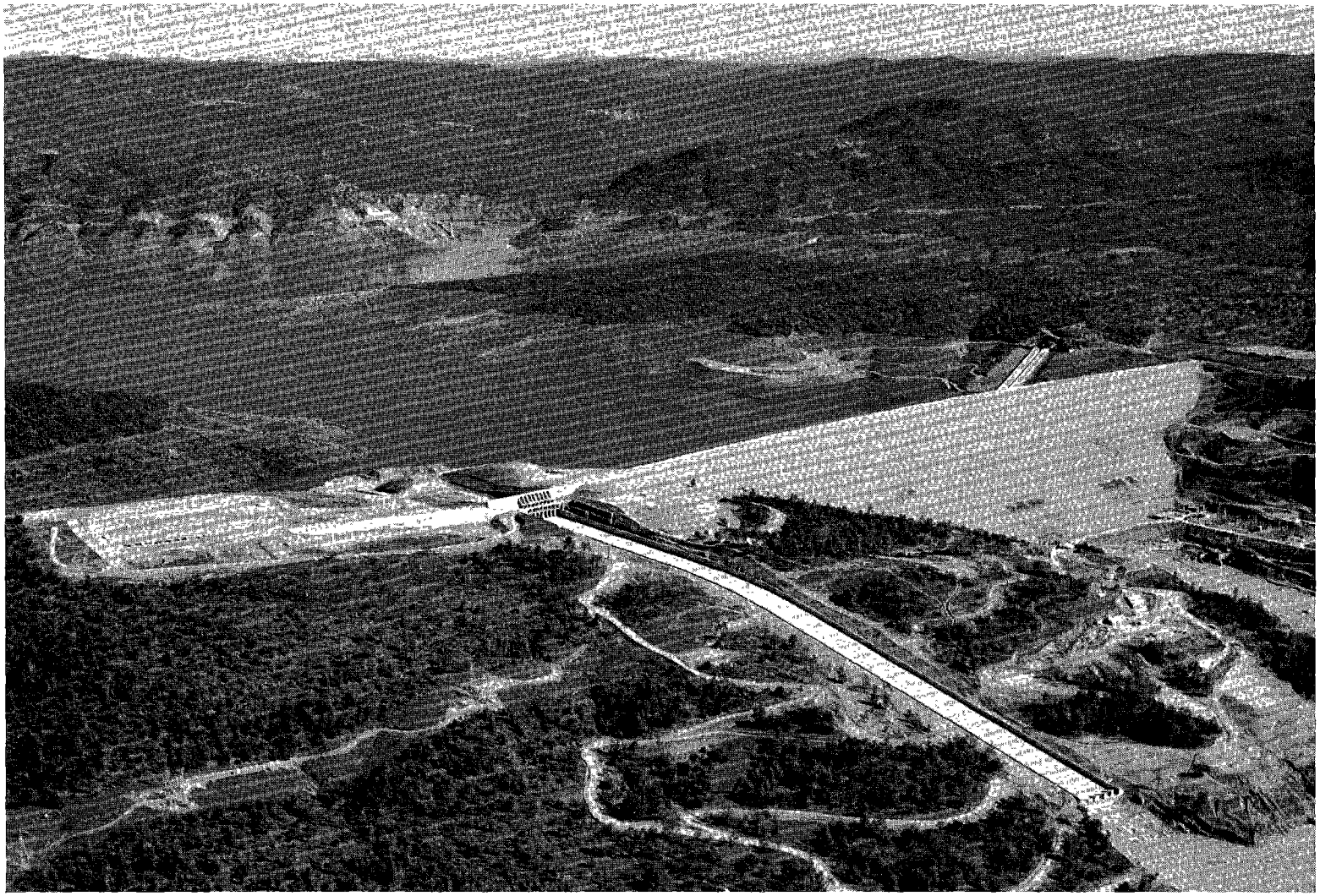
19/ *Department of Water Resources memorandum from W. R. Gianelli to Messrs. A. R. Golze', P. A. Towner, Clyde Shields, "Administration and Legal Review of Construction Contract Change Orders", August 1, 1967.*

20/ *Director of Water Resources Delegation Order No. 4(v) and Water Resources Directorate Delegation Order No. 202(g), "Approval of Contract Change Orders", March 12, 1968.*



Oroville Dam

Construction, State Water Project".21/ The Board's purpose is to determine economies that can be achieved in the design and construction of project facilities. The Board's assigned missions are: (1) to review the Department's design criteria and final designs and specifications; and (2) to examine the Department's construction practices, including the administration of construction contracts. In considering economies, the Board is to make certain that no adverse effects will result regarding the quality of work or timeliness of completion.

In this regard, the Department effected noticeable savings in reducing the elaborateness of visitor facilities and operation and maintenance centers -- at an estimated savings of at least $2 million.

6. Provide for reducing scope of work in construction contracts. All construction contracts to be awarded in the future will provide that the scope of work covered therein will be reduced to the maximum extent permitted by law in the event changed circumstances arise during the term of the respective contracts. Such provisions should limit the scope of work done under change orders to original construction contracts. Such work has caused the final costs of construction contracts to exceed, noticeably, the original bases for contract awards.

7. Reduce the scope of technical records of the Project. The Department limited the scope of a program to preserve design and construction technical records and reduced the planned

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21/ *Department of Water Resources memorandum from William R. Gianelli to Executive Staff, "Consulting Board", December 26, 1967. The Board's Chairman is Robert L. Skinner of Los Angeles, recently retired as the General Manager of The Metropolitan Water District of Southern California. The other members, all consulting engineers, are Paul Bauman of Los Angeles; J. R. Morton, Sacramento; and Robert G. Schuknecht, Portland, Oregon.*

expenditures over the next seven years for this program by about $800,000.22/

The Department plans to implement other recommendations made by the "Governor's Survey on Efficiency and Cost Control". The Department also continues, independently, to initiate actions permitting greater efficiency, and cost control in its activities, particularly with respect to its expanding responsibilities for project operations and maintenance.

An illustration of such independent actions is the memorandum of understanding signed by the Directors of the Departments of Public Works and Water Resources concerning the feasibility of "pooling" state operation and maintenance work forces, equipment, and lands in the San Joaquin Valley.23/ Possibilities for joint participation by the two state agencies include storage facilities for equipment and materials, fueling facilities, communications networks, and office space; preventive maintenance of automotive and other equipment; and possible use of the same equipment and personnel for similar types of maintenance.

Interest in such joint undertakings was stimulated by current construction of the California Aqueduct and the Westside Freeway (Interstate 5) which follow almost identical routes for about 200 miles between Tracy in San Joaquin County and Lost Hills in Kern County.

Initial steps are already being undertaken to extend the cooperative concept into Southern California where the California Aqueduct will be adjacent to highways in the Castaic, Lancaster, Palmdale, Cajon, and San Bernardino areas.24/ Possibilities also exist in North and South Bay Aqueducts and the Upper Feather and the Oroville Areas, not only between the Departments of Public Works and Water Resources, but among other state agencies as well.

22/ *Department of Water Resources memorandum from J. W. Keysor to Messrs. Dewey, Golze' and Gianelli, "Reevaluation of Technical Records Program", July 7, 1967, approved November 9, 1967.*

23/ *Resources Agency memorandum to Messrs. William R. Gianelli and Samuel B. Nelson from Department of Water Resources and Department of Public Works, Division of Highways, February 1, 1968, approved February 15, 1968.*

24/ *Department of Water Resources memorandum from Robin R. Reynolds to Messrs. Jansen, Teerink, Golze', and Gianelli, "Study of Joint Maintenance with Division of Highways", March 22, 1968, approved April 2, 1968.*

The review by the Administrator of the Resources Agency of the recreation and fish and wildlife enhancement program for the State Water Project is an example of project cost controls instituted independently at the State Agency level.

Last year's bulletin noted the Administrator's appointment of an interdepartmental task force to review the costs, quality, and adequacy of the program.25/ The "Recreation Task Force" completed its review and presented its report to the Administrator in August, 1967.26/

The Recreation Task Force reviewed plans for some 49 proposed recreation developments for the State Water Project having an estimated total capital cost of $176.6 million. Most of the costs of such developments would be financed by the State General Fund pursuant to the Davis-Dolwig Act.27/ However, the Department is purchasing lands required for recreation developments concurrently with project lands, using project funds under the authority of California Water Code Section 346. The Recreation Task Force recommended that only lands for recreation developments at project reservoirs be acquired concurrently with other project lands and that the acquisition of lands for other types of developments be delayed or, in certain cases, eliminated. The Department estimated that if this recommendation were implemented, the possible costs of such lands to be purchased with project funds could be reduced from about $14 million to about $8 million -- an indicated $6-million savings.28/ Such expenditure of project funds will eventually be reimbursed by state tideland gas and oil revenues through a procedure covered by a 1966 amendment of the Davis-Dolwig Act.29/ However, these reimbursements are limited to $5 million annually and are expected to continue well beyond the construction period of the Project in any event.30/ Thus, for all practical purposes, decreases in the cost of recreation lands effect corresponding decreases in the demand upon project funds available for completing the Project.

25/ See p. 10, Bulletin 132-67.
26/ Resources Agency Bulletin (unnumbered), "Report of the Recreation Task Force on the State Water Project", August 1967. (See Water Service Contractors Council Memo No. 310, "Report of the Recreation Task Force on the State Water Project", September 18, 1967.)
27/ California Water Code Sections 11900-11925.
28/ See pp. 10-12 of the document referred to in Footnote 8, p. 7.
29/ See p. 16.
30/ See Table 15, p. 171.

Between August 1967 and April 1968 the recommendations of the Recreation Task Force were considered by the Administrator and the member departments of the Resources Agency. A status report was given to the Senate Committee on Water Resources at a hearing in November 1967.31/ In April 1968 the Resources Agency adopted the following priorities and policies for recreation and fish and wildlife enhancement developments associated with the State Water Project:32/

1. Developments at project reservoirs formed by completed dams, including Frenchman and Antelope Lakes, Lakes Davis and Oroville, Los Banos Detention Reservoir, San Luis and Bethany Reservoirs, O'Neill Forebay, and Thermalito Forebay and Afterbay.

2. Developments at project reservoirs formed by dams currently under construction, including Castaic Lake, Clifton Court Forebay, and Lake Del Valle.

3. Developments at project reservoirs formed by dams to be constructed in the future, including Silverwood and Pyramid Lakes, Lake Perris, and Abbey Bridge and Dixie Refuge Reservoirs.

4. Fishing access sites along the California Aqueduct from the Delta to Silverwood Lake. (The responsibility for these developments is to be assumed by the Wildlife Conservation Board, and the minimal land requirements for such developments will be purchased with project funds.)

5. Miscellaneous developments, including aquatic recreation, wildlife habitat, and ecological areas and hatcheries for the enhancement of fish. (These developments will be considered on an individual basis, taking into account factors including the availability of project funds, for the acquisition of land, and of general funds, for the completion of onshore facilities.)

31/ *Mimeographed statement, "Resources Agency Recreation Task Force Report on the State Water Project", presented by Norman B. Livermore, Jr., Administrator, The Resources Agency, before the Senate Committee on Water Resources in Sacramento, California, on November 14, 1967.*

32/ *Office of the Administrator memorandum from N. B. Livermore, Jr., to Honorable William R. Gianelli, "Resources Agency Policy: Davis-Dolwig Act", April 10, 1968. (See Water Service Contractors Council Memo No. 379, "Projects for Development under Davis-Grunsky Program", April 23, 1968.)*

These policies generally reflect the Task Force's recommendations. However, not all of the 49 developments considered by the Task Force have been formulated and included in the Project's land acquisition program. Also, future decisions will depend on the availabiligy of project funds. Thus, the financial impact of these policies on project financing cannot be defined at this time.

Acquisition of Additional Project Funds

In addition to those actions taken to conserve available project funds, several actions were initiated and/or completed during the past year to supplement such funds.

Approval of Reported Expenditures for Recreation and Fish and Wildlife Enhancement. California Statutes of 1966, Chapter 27,33/ provides a procedure whereby additional project funds may be obtained in amounts equal to the Department's expenditures for recreation and fish and wildlife enhancement at state water projects.

The law requires the Department to report, annually, the joint capital costs of such projects allocated to recreation and fish and wildlife enhancement. Also to be reported are the expenditures made for acquiring rights-of-way, easements, and property for recreation development associated with such projects. The law also provides that up to $5 million annually from state tideland oil and gas revenues, shall be made available for expenditure by the Department, to the extent the Legislature approves the reported costs and expenditures.

Last year, the Department reported to the Legislature $6,047,340 for joint capital costs of completed Frenchman and Antelope Dams and Lakes allocated to recreation and fish and wildlife enhancement, and $2,213,501 for expenditures made through June 30, 1966, for recreation land acquisitions associated with all project facilities.34/

Senate Bill 1046 was introduced during the 1967 Regular Session to provide legislative approval of the $8,260,841 the Department had reported. However, the Legislative Analyst raised certain questions concerning interpretation of the law. As a result, the Bill was enacted with language permitting the Department's expenditures of a like amount of tideland funds, but reserving to the Legislature the right to review the costs and expenditures in the future.35/

33/ *See p. 11, Bulletin 132-66.*
34/ *See pp. 10-11, Bulletin 132-67.*
35/ *Calif. Stats. of 1967, Chapter 1672.*

Thermalito Diversion Dam, Power Canal, and Forebay (in background)

The Legislative Analyst's contentions were the subject of a legislative hearing on September 6, 1967. At that time, Director Gianelli presented a comprehensive statement of the Department's position on the policy questions raised[36/] -- that: (1) there is no ambiguity in the law; (2) what the Legislative Analyst is really arguing is that the law should be amended; and (3) the policy of the law is sound and should not be amended at this time.

This year, the Department's report to the Legislature[37/] repeats the costs and expenditures previously listed, together with an additional $4,521,114 for allocated joint capital costs, including those of Grizzly Valley Dam and Lake Davis, and an additional $729,339 for recreation land expenditures through June 30, 1967.[38/]

Only the capital costs allocated to recreation and fish and wildlife enhancement are reported to the Legislature under the described procedure. Annual operating costs allocated to these purposes are not reported and are to be covered by appropriations from the State General Fund. The Department's General Fund budget request for 1968-69 includes $500,000 to cover that portion of the operating costs of the California Aqueduct allocable to recreation and fish and wildlife enhancement. Part of the $500,000 would apply to fiscal year 1967-68, but the major portion would apply to fiscal year 1968-69. Annual appropriations have been made to date for the relatively small amounts of joint operating costs of Frenchman and Antelope Lakes and Lake Davis allocated to recreation and fish and wildlife enhancement. Under conditions of full project development, the annual operating costs of project facilities allocable to recreation and fish and wildlife enhancement are estimated to exceed $2 million annually.[39/]

36/ Mimeographed "Statement for the Senate Committee on Water Resources", by William R. Gianelli, Director, Department of Water Resources, presented in Sacramento, California, on September 6, 1967.

37/ Department of Water Resources Bulletin 153-68, "Allocations of Costs Among Purposes of the California State Water Project", February 1968.

38/ Senate Bill 867 of the 1968 Regular Session, introduced April 4, 1968, by Senator Cologne (Coauthor: Assemblyman Porter), would provide legislative approval in the total amount of $13,511,294 and would permit the potential release of an additional $5,250,453 to the Department for expenditure.

39/ See Table 19, pp. 175 through 179.

Oroville-Thermalito Power Revenue Bonds. In November 1967 a 50-year contract[40] was entered into between the Department and three major utility companies[41] in California for the sale of the generation of the Edward Hyatt and Thermalito Powerplants. The Companies will pay the Department $16.15 million annually for the total energy generated by the powerplants up to full generating capacity. If generation exceeds 2.1 billion kilowatt-hours of energy annually, additional payments will be made. More than $800 million will be paid to the Department during the life of the contract. The contract terms were negotiated by the Department with the objective of supporting a revenue bond issue.

On March 19, 1968, the Department adopted a resolution[42] authorizing the issuance of revenue bonds in an amount equal to the estimated construction costs of the Oroville Division allocable to generation and transmission of power. Proceeds of the sale of the bonds will be used to reimburse the State for such power construction costs paid before the delivery date of the revenue bonds and to pay directly such costs after such date. Payment of principal and interest on the bonds will be met from revenues from the sale of power generated by the power facilities. Payment of such bond service will not constitute a debt, liability, or obligation of the State of California. The bonds are to be issued in two or more series.

On April 3, 1968, a resolution supplemental to the Resolution of March 19, 1968 was adopted to authorize the issuance of Series "A" bonds, in the principal amount of $150 million.[43] On that date, Series "A" bonds were sold to a syndicate of more than 180 financial firms headed by Blyth & Co., Inc., -- the only bidder -- at a net interest cost of 5.197447 percent. At an interest rate of

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40/ *DWR Contract No. 860502, "Oroville-Thermalito Power Sale Contract", November 29, 1967. (For a summary of the provisions of this contract, see page 87. Also, see Water Service Contractors Council Memo No. 351, "Oroville-Thermalito Electric Power Generation and Energy Requirements", February 7, 1968.)*

41/ *Pacific Gas and Electric Company, Southern California Edison Company, and San Diego Gas and Electric Company.*

42/ *Department of Water Resources, "Resolution No. DWR-OD2 Creating an Issue of State of California Department of Water Resources Central Valley Project Revenue Bonds, Oroville Division", adopted March 19, 1968.*

43/ *Department of Water Resources, "First Supplemental Resolution No. DWR-OD3 Authorizing the Issuance of $150,000,000 Principal Amount of Central Valley Project Revenue Bonds, Oroville Division, Series A", adopted April 3, 1968.*

5.20 percent, Oroville-Thermalito power revenues will support the issuance of future series in the additional principal amount of about $101.5 million.44/

Proposed Legislation to Provide Additional Funds. Two identical bills were introduced in the 1968 Regular Session to provide additional short-term financing for the State Water Project. The proposed legislation was based on the needs disclosed at the joint hearings held by the Senate and Assembly Water Committees in Sacramento on October 17-18, 1967,45/ and was formulated on November 8, 1967, when the State Administration and the Chairmen of the Committees agreed upon the approach to alleviate those needs.46/

Enactment of either Assembly Bill 15 or Senate Bill 11,47/ as amended on March 7, 1968, would:

1. Eliminate bond "offsets" that could otherwise result from the future expenditure of California Water Fund moneys through fiscal year 1971-72, thus providing at least an additional $22 million in funds for constructing the initial facilities of the Project.

2. Increase the annual amount deposited in the California Water Fund from $11 million to $25 million, commencing with the fiscal year 1970-71, thus providing an additional $42 million in funds through fiscal year 1972-73 for constructing all facilities of the Project.

44/ *Department of Water Resources, "Official Statement Relating to $150,000,000 Central Valley Project Revenue Bonds, Oroville Division, Series A", dated April 3, 1968.*

45/ *See p. 7.*

46/ *See p. 8.*

47/ *Assembly Bill 15, introduced January 9, 1968, by Assemblymen Porter, Biddle, Chappie, Russell, Badham, Collier, Conrad, Deddeh, Hinckley, Harvey Johnson, Meyers, Mobley, Monagan, Moorehead, Quimbly, Stacey, Stull, and Wakefield. Senate Bill 11, introduced January 10, 1968, by Senators Cologne, Harmer, Petris, Dymally, Mills, Way, Cusanovich, Bradley, Burgener, Lagomarsino, Sherman, and Schrade. (See Water Service Contractors Council Memo No. 344, "SB 11 - AB 15", January 17, 1968.)*

Under present law,48/ the first $11 million of the State's annual share of Long Beach tideland oil and gas revenues is deposited in the California Water Fund. The Burns-Porter Act provides that the moneys so deposited must be expended in lieu of Water Bond proceeds for construction of the State Water Facilities -- the initial facilities of the Project. The Act also provides that to the extent of such expenditures, equal amounts of Water Bond proceeds are "offset" (reserved) for the construction of additional facilities.

Assembly Bill 15 and Senate Bill 11 would eliminate future "offsets" by providing for the deposit of the $11 million annual accrual in the Central Valley Water Project Construction Fund, rather than in the California Water Fund. Annual accruals would be so deposited for the balance of fiscal year 1967-68 and for the following fiscal years through 1972-73 when no further Water Bond proceeds are expected to be subject to the "offset" provision. The accruals deposited in the Construction Fund would be appropriated for construction of the State Water Facilities. Expenditures from the Construction Fund are not subject to the "offset" provision of the Burns-Porter Act.

Another bill introduced during the 1968 Regular Session would provide up to $13.74 million additional for project construction.49/ These moneys were encumbered by the 1958 and 1959 Legislatures from the then Investment Fund (subsequently renamed the California Water Fund) for the purpose of underwriting the costs of the federal Black Butte and New Hogan Dam and Reservoir Projects allocated to water conservation.

Under the terms of the applicable federal-state agreements,50/ the encumbered funds would be released if the Bureau of Reclamation executes long-term contracts with local water agencies for service from these projects prior to December 31, 1970 -- or if these projects were integrated with the federal Central Valley Project on or before that date.

If the $13.74 million were so released, $3.74 million would revert to the California Water Fund under existing legislation and would be available for expenditure for construction costs of the State Water Project, subject to the

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48/ *See p. 10, Bulletin 132-65.*

49/ *Assembly Bill 430, introduced February 6, 1968, by Assemblymen Porter, Stull, Moorhead, Badham, and Russell (Coauthor: Senator Cologne), as amended March 26, 1968.*

50/ *Contract Nos. 14-06-200-8209 (DWR-151168) and 14-06-200-8213 (DWR-151169), respectively, March 2, 1960.*

"offset" provision of the Burns-Porter Act. The remaining $10 million would also revert to the California Water Fund for special purposes designated by the Legislature and would not be available for general State Water Project construction.

The proposed legislation would transfer the unexpended balance of the $13.74 million to the Central Valley Project Construction Fund and would declare the legislative intent that there be included in the Department's budget, each year, an appropriation from the General Fund necessary to meet any commitments under the applicable federal-state agreements. However, the legislation would not become effective until (1) the United States and the State have amended the existing contracts to substitute the declaration of legislative intent for the encumbrance of funds, and (2) the Yuba County Water Agency has received all moneys representing the federal flood control contributions for the Yuba River Development.

The Sacramento office of the Bureau of Reclamation has indicated that they will explore the possibility of amending the existing contracts.51/ However, they indicated that there would need to be some offsetting benefits to the United States since the proposal involves a modification in the contracts that would provide a lesser degree of repayment assurance.

In compliance with a recommendation of the Governor's Water Resources Task Force, the Department is also attempting to have federal legislation introduced to integrate the New Hogan and Black Butte Dam and Reservoir Projects into the federal Central Valley Project so as to release the $13.74 million in state funds. While this approach is favored by the Bureau of Reclamation, no legislation has been introduced to date.52/

Financial Assistance to Project Water Contractors

Current financial problems are not limited to only the state-constructed works of the Project. Adverse financial conditions prevailing throughout the nation -- causing ever higher interest rates on borrowed capital -- are also affecting water supply contractors in their construction of project-associated distribution systems.

Several bills were enacted during the 1967 Regular Session to provide some measure of financial relief to the water supply contractors for such construction in the form

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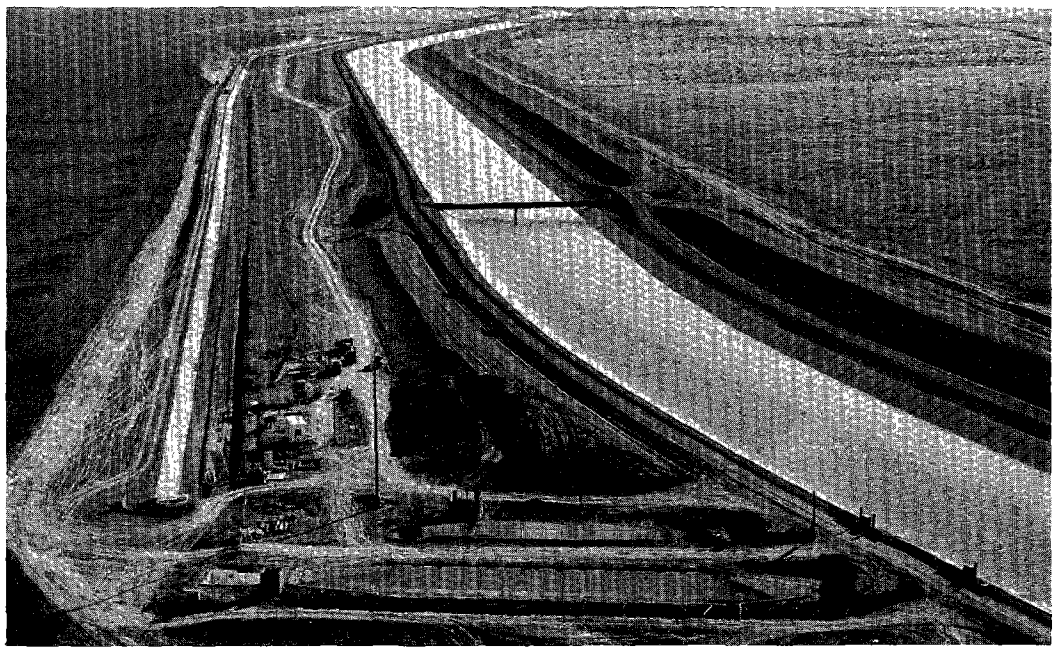
51/ *Letter from E. F. Sullivan, Acting Regional Director, Region 2, Bureau of Reclamation, to Mr. W. R. Gianelli, March 21, 1968.*

52/ *Ibid.*

of state loan commitments and authorized increases in interest rate "ceilings" on bond payments by local water agencies. Additional legislation is pending.

State Loan Commitments for Local Agency Bond Payments. Enactment of Assembly Bill 2119 of the 1967 Legislature[53/] provides up to $8 million to the Department from the unused portion of a prior California Water Fund appropriation. The moneys so provided are for the purpose of underwriting the service on those general obligation bonds to be sold by public agencies for financing the construction of works necessary for the utilization of project water. When specifically authorized by future enactments, the Department will make certain loan commitments to pay the difference between the amount of bond principal and interest due and the amount such public agencies are able to raise.

The enactment required the Department to submit to the Legislature, by the fifth legislative day of the 1968 Regular Session, a report on its proposed plan for implementing the loan commitment program.



Contractor turnouts (in foreground) and distribution canal (on left) served by the California Aqueduct (on right)

53/ *Calif. Stats. of 1967, Chapter 1610. (See Water Service Contractors Council Memo No. 313, "Chapter 1610, Statutes of 1967, AB 2119", September 21, 1967.)*

After contacting all applicable local agencies through the Project's water supply contractors, and after consulting with financial experts, the Department transmitted its report to the Legislature on January 11, 1968.54/

The Department concluded that:

1. Interest rates on local agency bonds will not be appreciably affected by loan commitments of less than the full value of the bonds; and

2. Loan commitments may permit the sale of bonds where this would not otherwise be possible.

The Department recommended the following administrative procedures:

1. The Legislature, during the 1968 General Session, would authorize the Department to enter loan commitments with 11 named agencies for amounts up to 15 percent of the amounts of the next bond sales of the respective agencies.

2. Each agency would be required to complete submittal of its formal application and all financial data requested by the Department prior to the proposed date of bond sale and to obtain approval of the California Districts Securities Commission for certification of its bonds.

3. Each agency would proceed to market its bonds and, in the event no bids are received, the Department would:

   a. Determine whether or not to approve a loan commitment to the agency, and the appropriate amount of such a commitment based upon the information then available, and if approved;

   b. Enter into a loan commitment contract with the agency.

54/ *Letter report by W. R. Gianelli, Director, Department of Water Resources to Honorable James D. Driscoll, Chief Clerk of the Assembly, "State Loan Commitments for Local Agency Bond Payments", January 11, 1968.*

The foregoing procedures would be implemented under pending legislation.55/ That bill would authorize the Department to enter into loan commitments with the Dudley Ridge Water District and the following existing or potential member units of the Kern County Water Agency: Belridge, Buena Vista, Rosedale-Rio Bravo, and Semitropic Water Storage Districts (the latter including the Buttonwillow and Pond-Poso Improvement Districts); Cawelo, Kern Delta, and Lost Hills Water Districts; and Tehachapi-Cummings County Water District.

Legislation Increasing Interest Rate "Ceilings". The following bills were enacted during the 1967 Regular Session to raise those maximum allowable bond interest rates set forth in the basic legislation authorizing the formation of several of the Project's water contracting agencies:

1. Assembly Bill 1502 that raises the interest ceiling of the Kern County Water Agency from 5 percent to 6-1/2 percent;56/

2. Senate Bill 125 that raises the interest ceiling of municipal water districts from 5 percent to 6-1/2 percent;57/ and

3. Senate Bill 141 that raises the interest ceiling of the Ventura County Flood Control District from 5 percent to 6 percent.58/

Actions Affecting Responsibilities of the California Water Commission

The California Water Commission is primarily an advisory board to the Director.59/ However, the Commission:

1. Has the responsibility for final approval of state loans and grants to local agencies under the financial assistance program of the Davis-Grunsky Act.60/

55/ *Assembly Bill 433, introduced February 6, 1968, by Assemblymen Stacey, Ketchum, and Duffy (Coauthors: Senators Cologne and Stiern) would provide the required authorization for the Department to enter into loan commitments with the local agencies specified therein.*
56/ *Calif. Stats. of 1967, Chapter 1073.*
57/ *Calif. Stats. of 1967, Chapter 105.*
58/ *Calif. Stats. of 1967, Chapter 4.*
59/ *Calif. Water Code Section 161.*
60/ *Calif. Water Code Sections 12883 and 12885.*

2. Must concur in the Director's declaration of public interest and necessity before the Department can enter into eminent domain proceedings for acquisition of project lands.61/

3. Must approve all rules and regulations of the Department, except those for purely internal operations.62/

Legislation was enacted during the 1967 Regular Session to increase those responsibilities of the Commission concerning the management of the State Water Project, as well as in other areas of the Department's activity.

Naming of State-Owned Water Facilities. Assembly Bill 2583 of the 1967 Regular Session, as enacted,63/ authorized the Commission to name, by resolution and after holding a public hearing, all state-owned facilities of the State Water Resources Development System.

Subsequently, the Commission established the following guidelines for establishing facility names:64/

1. As a general policy, geographic names, particularly those used from the inception of project planning and formulation, will be given first priority.

2. If the Commission should contemplate naming a project unit after a person, such name will be considered only if said person has made a particularly outstanding contribution, over a period of several years, to the planning and/or development of the State Water Resources Development System.

3. As a general rule, the Commission will not change existing nomenclature unless and until the existing name is found, after due hearings and investigations, to be inappropriate.

4. Names chosen should be euphonious and should lend dignity and a sense of history or beauty to the project unit.

61/ *Calif. Water Code Sections 251 and 11581.*
62/ *Ibid., Section 161.*
63/ *Calif. Stats. of 1967, Chapter 1486.*
64/ *California Water Commission, "Notice of Public Hearing", February 15, 1968.*

The Commission moved quickly to name the dam and reservoir at Oroville. After public hearings were held in Los Angeles on December 1, 1967, and in Sacramento on January 5, 1968, the Commission officially established the names "Oroville Dam"[65/] and "Lake Oroville".[66/] Twenty-six names had been offered for the Commission's consideration for the reservoir and eight for the dam.

The Commission then acted on 63 names for selected units throughout the State Water Project, based upon tentative names used by the Department for planning and design purposes. Hearings were held in San Bernardino on March 1, 1968, and in Sacramento on March 26, 1968. The 63 names were officially established during the Commission's April 5, 1968 meeting in San Diego.[67/]

The following list denotes those names used previously by the Department that were modified by the Commission's April 5, 1968 action:

Previously used	Officially established
Oroville Powerplant	Edward Hyatt Powerplant
Del Valle Reservoir	Lake Del Valle
Tehachapi Pumping Plant	A. D. Edmonston Pumping Plant
Perris Reservoir	Lake Perris
Pyramid Reservoir	Pyramid Lake
Castaic Reservoir	Castaic Lake

The Commission thus recognized the exceptional contributions made to the planning and development of the State Water Resources Development System by the late Edward Hyatt[68/] and the late A. D. Edmonston.[69/]

65/ *Letter from Ira J. Chrisman to Honorable William R. Gianelli, January 11, 1968.*

66/ *Ibid., February 6, 1968.*

67/ *Ibid., April 9, 1968.*

68/ *Edward Hyatt was State Engineer from 1927 to 1950. He directed the surveys which culminated in formulation of the State Water Plan, predecessor to The California Water Plan. Moreover, he was instrumental in initiating the investigations that led to The California Water Plan, and determined many of the concepts upon which it is based.*

69/ *A. D. Edmonston succeeded Mr. Hyatt as State Engineer in 1950. Mr. Edmonston vigorously carried forward the work on The California Water Plan, and was directly responsible for the authorization of the Feather River Project in 1951 -- now known as the State Water Project. He retired on November 1, 1955.*

Other Project Management Responsibilities Assigned to the Commission. Assembly Bill 150, also enacted during the 1967 Regular Session, assigned several additional responsibilities to the Commission.[70] Those new responsibilities that relate directly to the management of the State Water Project are as follows:

1. The Commission is designated as the coordinator for federal water project appropriation requests--a role the Commission has been performing informally for some time;

2. The Commission is required to conduct an annual review concerning the progress of construction and operation of the State Water Resources Development System and to make a report on its findings to the Department and to the Legislature;

3. The Commission is required to hold public hearings on all additional facilities proposed to be added to the System through administrative action by the Department; and

4. The Commission is required to advise the Department and the Governor in matters concerning the coordination of planning, construction, and operation of federal water development and flood control projects in the State with state and local projects.

Actions Affecting Individual Project Facilities

The remainder of this chapter describes significant actions and events pertaining to individual facilities of the State Water Project that occurred during the general period April 1, 1967, to April 1, 1968. The location of project facilities is shown on the multiple-color map that is inserted immediately before the back cover of this bulletin.

Upper Feather Area

The following names were officially established by the California Water Commission: Frenchman Dam, Frenchman Lake, Antelope Dam, Antelope Lake, Grizzly Valley Dam, Lake Davis, and Grizzly Valley Pipeline.[71]

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[70] *Calif. Stats. of 1967, Chapter 180.*
[71] *See Footnote 67, p. 27.*

Transfer of Grizzly Valley Dam and Lake Davis from a construction to an operational status was approved January 2, 1968.72/

The Beckwourth Operation and Maintenance Center welcomed its neighbors to an open house January 24, 1968. The Beckwourth Operation and Maintenance Center has the responsibility for operating and maintaining the three State Water Project reservoirs in Plumas County -- Frenchman Lake, Antelope Lake, and Lake Davis. In the future, Abbey Bridge and Dixie Refuge Reservoirs will also be operated and maintained from this center.

The construction of Abbey Bridge and Dixie Refuge Dams was deferred by the Department after a thorough staff review of the fiscal year 1968-69 budget. Director Gianelli made the formal announcement of this decision before the California Water Commission in Redding on July 7, 1967.

Oroville Area

The following names were officially established by the California Water Commission: Oroville Dam, Lake Oroville, Edward Hyatt Powerplant (formerly Oroville Powerplant), Parish Camp Saddle Dam, Bidwell Canyon Saddle Dam, Bidwell Bar Bridge, Feather River Fish Barrier Dam, and Feather River Fish Hatchery.73/

Transfer of the Bidwell Bar Bridge from a construction to an operational status was approved on January 2, 1968.74/

Oroville Dam and Lake Oroville were formally dedicated on May 4, 1968. Governor Reagan was the principal speaker. The Lake was filled to approximately one-half of its 3,538,000-acre-foot capacity at the time. Dedication of the Feather River Fish Hatchery was held October 11, 1967, under the direction of the State Department of Fish and Game.

In November 1967, the Department released a report on a comprehensive investigation of seepage conditions along

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72/ *Department of Water Resources memorandum from Alfred R. Golze' to Mr. William R. Gianelli, "Transfer of Completed Project Facilities, Construction Branch to Statewide Operations Office", January 2, 1968.*

73/ *See footnotes 65, 66, and 67 on p. 27.*

74/ *See footnote 72, above.*

the Sacramento and Feather Rivers.[75] One of the primary purposes of this investigation was to estimate the effects on seepage conditions due to the changed regimen of river flows under the operation of future water facilities, including those of the Oroville Area. A principal conclusion of the study was that the operation of Lake Oroville will reduce the present level of seepage and should not cause seepage during the summer months along the Feather River.

Legislation was passed during the 1968 Regular Session that provided funds to the Department of Parks and Recreation, as an urgency measure, in the amount of $152,262 for initial recreation development at Thermalito Forebay.[76] The funds were originally appropriated by the Budget Act of 1965 for initial development of Lime Saddle area on the northwestern shore of Lake Oroville. Thermalito Forebay area is considered the more desirable for initial development, in view of the limited funds available.

A plan for the disposal of surplus employee houses and lots in the Glen Drive complex was approved in October 1967.[77] A total of 50 houses and 25 lots will be sold as rapidly as they can be absorbed by the local market. Sales will be managed to maximize the return to the State and to prevent adverse effects upon the Oroville real estate market.

Last year's bulletin pointed out two potential problems that could affect the funds available for project financing. These potential problems concern Oroville flood control contributions and the Miners Ranch Canal.

Oroville Flood Control Contributions. Each year, the Congress has appropriated an amount less than that required by the contract between the State and the United States for federal flood control contributions at Oroville Dam.[78] As a result, there is an accrued deficit of over $5,147,000 as summarized in the tabulation on page 132.

75/ Department of Water Resources Bulletin 125, "Sacramento Valley Seepage Investigation", August 1967. (See Water Service Contractors Council Memo No. 332, "Bulletin No. 125", November 14, 1968.)

76/ Assembly Bill 691, introduced February 22, 1968, by Assemblyman Ray E. Johnson (Coauthor: Senator Marler), signed by the Governor on April 4, 1968.

77/ Department of Water Resources memorandum from Carl A. Werner to Messrs. Morrow, Dewey, Eiland, and Gianelli, "Glen Drive Complex, Oroville Division, Disposal Plan for Surplus Houses and Lots", August 29, 1967, approved October 30, 1967.

78/ See p. 15, Bulletin 132-67.

Thermalito Powerplant

Fiscal Year	Federal Share of Costs	Federal Appropriations	Federal Payments	Deficiency in Federal Payments	
				Annual	Cumulative
	(in thousands of dollars)				
1962-63	14,214	14,000	13,950	264	264
1963-64	5,344	4,555	4,500	844	1,108
1964-65	9,548	8,390	8,540	1,008	2,116
1965-66	7,546	7,330	8,000	- 454	1,662
1966-67	14,632	13,195	12,405	2,227	3,889
1967-68	8,513	9,275	7,255	1,258	5,147
1968-69[a/]	1,975	-	1,975	-	5,147
TOTAL	61,772	56,745	56,625	5,147	-

a/ Partial only.

Since construction expenditures for Oroville Dam are nearly complete, 1968-69 is the last year when a substantial amount of federal payments will come due.

The Department has supplied information on this problem to the California congresssional delegation and to the water supply contractors.[79/] Furthermore, the Department has supplied additional information to the staff of the House Appropriations Committee.[80/] As a result of conferences held between Director Gianelli and the Committee's staff late in April, there is some optimism that the United States eventually will honor its contract with the State.

Miners Ranch Canal. The existing Miners Ranch Canal of the Oroville-Wyandotte Irrigation District is located in the close proximity to Lake Oroville for approximately 7.5 miles.[81/] The District contends that operation of the Lake will conflict with the operation of its system, create major slides, and cause substantial damage.

In 1966, the District petitioned the California Public Utilities Commission to require the Department to construct a replacement facility, and the Office of Attorney General filed an action in the Federal District Court asking that the Commission be enjoined from proceeding further on

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79/ Department of Water Resources Water Service Contractors Council Memo No. 338, "Federal Flood Control Contribution to Oroville Dam", December 13, 1967.

80/ Letter from W. R. Gianelli to Mr. Eugene B. Wilhelm, Staff Member, House Committee on Appropriations, February 29, 1968 (See Water Service Contractors Council Memo No. 370, "Federal Flood Control Contribution to Oroville Dam", March 20, 1968.)

81/ See p. 14, Bulletin 132-67.

the District's application. In 1967, the Court dismissed the action on the basis of lack of jurisdiction. The Office of Attorney General appealed the dismissal to the Federal Circuit Court of Appeals. No action has been taken on the appeal as yet.

In the meantime, the District submitted "as-built" drawings of the Canal for approval by the Federal Power Commission. The Department filed objections to the Commission, asserting that the Canal was not designed to withstand the operational fluctuation of the surface of Lake Oroville. A preliminary decision, filed in March 1968 by the Commission's examiner, supports the position of the Department and recommends resubmittal of the District's plans for the Canal, to incorporate modifications that would accommodate the operational effects of Lake Oroville.

North Bay Aqueduct

The following names were officially established by the California Water Commission: North Bay Aqueduct, Calhoun Pumping Plant, and Cordelia Pumping Plant.82/

Phase I construction of the North Bay Aqueduct, extending from Cordelia to Napa turnout, was completed sufficiently to permit initial deliveries of water in April 1968.

Phase II construction of the North Bay Aqueduct, extending from the Delta to Cordelia Surge Tank, is scheduled for completion by 1980. Certain areas on the aqueduct route are currently undergoing urban development. The Department had considered the acquisition of all right-of-way in advance of Phase II construction to reduce total capital costs. However, since delay of such right-of-way purchases will decrease short-term financial requirement without affecting the water delivery capability of the Project, the Department recently proposed to delay the majority of such acquisition until 1975.83/

Solano County officials urged early purchase of right-of-way in those critical areas susceptible to significant escalation in land prices.84/ Thereupon, the Department agreed to continue design work necessary to locate and define right-of-way requirements in order to reevaluate the need for proceeding with the acquisition of these critical areas.85/ If additional project funds are made available, some right-of-way through potential urban areas will be acquired.

82/ *See footnote 67, p. 27.*
83/ *See footnote 4, p. 3.*
84/ *Letter from David Balmer, County Administrator, Solano County, to Mr. William R. Gianelli, November 14, 1967.*
85/ *Letter from W. R. Gianelli to Mr. David Balmer, November 27, 1967.*

South Bay Aqueduct

The following names were officially established by the California Water Commission: South Bay Pumping Plant, Patterson Reservoir, Del Valle Dam, Lake Del Valle, Del Valle Pumping Plant, La Costa Tunnel, Mission Tunnel, and Santa Clara Terminal Facilities.86/

The South Bay Aqueduct from Patterson Reservoir to the Santa Clara Terminal Facilities, inclusive, but exclusive of the Del Valle Branch, was transferred from a construction to an operational status on January 2, 1968.87/ The aqueduct reach from the South Bay Pumping Plant to Patterson Reservoir previously had been transferred to an operational status in 1962.

In January 1968, the Department received the first payment of the federal flood control contribution for the cost of constructing Del Valle Dam -- $781,239.

Efforts to authorize reevaluation of the costs of Del Valle Dam and Lake Del Valle allocable to flood control, and of the amount properly contributable by the Federal Government, were described in last year's bulletin.88/ On September 28, 1967, the full Senate Committee on Appropriations reported out H. R. 11641, a bill to authorize appropriations for certain public works. Included was an authorization of the use of funds, not to exceed $10,000, for a study to determine whether any modification should be made with respect to the magnitude of the federal contribution and to study the proper allocation of costs for the flood control benefits to be derived from Lake Del Valle. The review is currently under way by the San Francisco District, Corps of Engineers.

Delta Facilities

Considerable progress has been made during the past year in coordinating the future construction of the Peripheral Canal and the Westside Freeway (Interstate 5) in San Joaquin County.

In January 1968, an agreement was executed between the Department and the Department of Public Works.89/ This

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86/ *See footnote 67, p. 27.*
87/ *See footnote 72, p. 29.*
88/ *See p. 18, Bulletin 132-67.*
89/ *State of California Interagency Agreement Number 460526, "Peripheral Canal Borrow by Highways", January 18, 1968.*

agreement provides for the use of material to be excavated from the canal prism for highway fill. The Department of Public Works will advance about $2 million to the Department, as required, to purchase four segments of Peripheral Canal right-of-way. The canal prism included in these segments will provide up to 7 million cubic yards of fill. The Department will reimburse the Department of Public Works, without interest, on commencement of canal construction or on January 1, 1976, whichever is earlier. Estimates are that expenditures by the two departments will be reduced by about $5 million due to such coordinated construction. Any adverse effects of construction on the local economy will also be minimized.

In April 1968, a memorandum of understanding was executed between the Department and the Bureau of Reclamation whereby the State will be credited for moneys expended for right-of-way under the previously mentioned agreement as a portion of its cost share of a joint federal-state Canal.90/ The Department also signed a memorandum of understanding with the Department of Fish and Game relative to the ponds that will be formed as excavated segments of the Canal fill with water.91/ If canal construction commences later than three years after the Department of Public Works completes its borrow operations, a detailed agreement will be executed whereby the Department of Fish and Game will stock and maintain the ponds as a warmwater fishery until such time as they are needed for construction of the Canal.

On July 7, 1967, Director Gianelli announced before the California Water Commission the deferment of preliminary design work for the Peripheral Canal to allow additional time to obtain federal authorization of a joint project. A bill was introduced in the Congress that would authorize the Bureau of Reclamation to participate with the State in the design and construction of the Peripheral Canal, and would also authorize the Kellogg Unit of the Central Valley Project.92/ No action has been taken on this proposal. Another bill was recently introduced in the Congress that would authorize the Peripheral Canal only.93/

90/ *"Memorandum of Understanding on Coordination of Peripheral Canal and Westside Freeway", between the Department of Water Resources and the Bureau of Reclamation, approved April 23, 1968.*

91/ *"Memorandum of Understanding on Coordination of Peripheral Canal and Westside Freeway", between the Department of Water Resources and the Department of Fish and Game, approved January 22, 1968.*

92/ *House of Representatives 10297, 90th Congress, First Session (introduced by Congressman Craig Hosmer, May 24, 1967.)*

93/ *Senate 3312, 90th Congress, Second Session (introduced by Senators Kuchel and Murphy, April 1968).*

A coordinated study of the timing of construction of the Peripheral Canal in relation to the State's water quality objectives was completed in May 1967.94/

The results of the study confirmed those of previous analyses which indicated that the Peripheral Canal would have to be operational by 1974 in order to guarantee satisfaction of all water quality objectives set forth in water supply contracts. However, the study also indicated that the probabilities of not realizing maximum monthly water quality objectives are relatively minor if the Canal were not operational in 1974 or 1975. Furthermore, the State may be unable to satisfy the 10-year running average water quality objectives by a small amount in 1974 and 1975. However, the chances that maximum monthly water quality objectives would be exceeded increase markedly from 17 percent to over 80 percent if the Canal were not operational in 1976 and 1980, respectively.

A revised construction program schedule for the Peripheral Canal was established in December 1967,95/ in view of the results of the above study and the uncertain status of federal participation. New key dates are: December 1967, resume preliminary design; July 1969, initiate final design; July 1971, advertise first construction contract; and January 1976, initiate water deliveries.

The Resources Agency released a report in February 1968 that summarizes the more important findings of the Delta Fish and Wildlife Protection Study -- a cooperative study by the Departments of Water Resources and Fish and Game.96/ The report recommends construction of a joint federal-state Peripheral Canal as soon as possible. The report also concludes that with appropriate operation most, and perhaps all, of the Delta fishery needs can be met under those Delta water quality standards set forth in the "Agreement of November 19, 1965".97/

94/ *Department of Water Resources memorandum from Carl A. Werner to Messrs. Teerink, Golze', and Gianelli, "Timing and Implementation of Peripheral Canal", May 19, 1967, approved July 9, 1967.*

95/ *Department of Water Resources memorandum from Alfred R. Golze' to Mr. William R. Gianelli, "Peripheral Canal Program", December 15, 1967, approved December 20, 1967.*

96/ *The Resources Agency Summary Progress Report, Delta Fish and Wildlife Protection Study, Report No. 7, "Water Development and the Delta Environment", December 1967. (See Water Service Contractors Council Memo No. 358, "Transmittal of Report Regarding Peripheral Canal", February 15, 1968.)*

97/ *See p. 69, Bulletin 132-66.*

Delta Pumping Plant (in foreground), Bethany Reservoir, California Aqueduct (in background), and Delta-Mendota Canal of the federal Central Valley Project (on left)

California Aqueduct

Actions affecting the California Aqueduct are recorded herein by aqueduct divisions and branches tentatively established by the Department. The California Water Commission has not acted on their nomenclature. These divisions and branches are described in Appendix C.

On August 27, 1967, the Secretary of the Interior was authorized to construct, operate, and maintain the San Felipe Division of the federal Central Valley Project.*98/* Included in the San Felipe Division is the proposed Pacheco Pass Tunnel. The Tunnel was authorized as part of the Feather River Project (now known as the State Water Project) by administrative action in 1959, and was reauthorized as part of the "State Water Facilities" under the Burns-Porter Act. The Department has not studied the feature since 1960 when federal investigations of the San Felipe Division were authorized.

North San Joaquin Division. Names established by the California Water Commission for features located within the North San Joaquin Division include: Clifton Court Forebay, Delta Pumping Plant, Bethany Dams, and Bethany Reservoir.*99/*

The Delta Pumping Plant, the Delta Operations and Maintenance Center located nearby, and the 62-mile-long canal included in the Division, were dedicated September 9, 1967, by Governor Reagan and Director Gianelli. Governor Reagan turned the symbolic key that started a pump unit (No. 2).

In November 1967, the scheduled installation of the last two pump units of the Delta Pumping Plant was deferred from 1973 until the early 1980's.*100/*

The Department's order for possession for land necessary to construct Clifton Court Forebay was vacated by the Superior Court of Contra Costa County in June 1967 as a result of action taken by certain property owners. The owners contended that use of the land for a forebay would not constitute a public use. The Department notified the Court that judges residing in Contra Costa County were disqualified by law from hearing this matter and asked that an out-of-county judge be appointed by the Judicial Council.

98/ Public Law 90-72, 90th Congress, 1st Session (see p. 38, Bulletin 132-63).

99/ See Footnote 67, p. 27.

100/ Department of Water Resources memorandum from Robin R. Reynolds to Messrs. Golze', Wineland, "Installation Schedule of Future Units in Delta Pumping Plant", October 3, 1967, approved November 27, 1967.

The Council assigned Judge Warne, retired, of Tuolumne County to hear the matter on July 12, 1967. At that time, the attorney for one of the landowners involved exercised his right of peremptory challenge against Judge Warne. As a result, the Council was asked to appoint a second judge. Subsequently, the Council assigned the matter to Judge Lyle Cook of Alameda County. On August 25, 1967, Judge Cook restored the Department's right to condemn certain property at Clifton Court.

San Luis Division. The California Water Commission's authority to establish project names does not extend to those joint-use facilities comprising the San Luis Division. The Department of the Interior has established the names for O'Neill Dam and Forebay*101/* and the Dos Amigos Pumping Plant.

On April 20, 1968, the official dedication was held for San Luis Dam, Reservoir, and Pumping-Generating Plant and O'Neill Dam and Forebay. Secretary of the Interior Stewart L. Udall was the principal speaker at the ceremony.

South San Joaquin Division. The following names of features located in the South San Joaquin Division were officially established by the California Water Commission: Buena Vista, Wheeler Ridge, and Wind Gap Pumping Plants.*102/*

The Lost Hills Operation and Maintenance Subcenter was formally dedicated on December 15, 1967.

Tehachapi Division. The following names of features located in the Tehachapi Division were officially established by the California Water Commission: Tehachapi Tunnels Nos. 1, 2, and 3; Tehachapi Siphon No. 1; Pastoria Siphon; Carley V. Porter Tunnel; A. D. Edmonston Pumping Plant (formerly Tehachapi Pumping Plant); and Techachapi Afterbay.*103/*

Mojave Division. The following names of features located in the Mojave Division were officially established by the California Water Commission: Cottonwood Powerplant, Pearblossom Pumping Plant, and Cedar Springs Dam.*104/* Enactment of Assembly Bill 1637, 1967 Regular Session, establishes the name of the reservoir that will be formed by Cedar Springs Dam as "Silverwood Lake".*105/*

101/ See p. 22, Bulletin 132-67.
102/ See footnote 67, p. 27.
103/ Ibid.
104/ Ibid.
105/ Calif. Stats of 1967, Chapter 1599. (See p. 25, Bulletin 132-67 for previous legislative actions in this regard.)

In March 1968, an agreement was executed between the Department and the United States Forest Service clearing the way for issuance of permits to the Project for use of national forest lands at Silverwood Lake.106/ The agreement calls for mutual agreement and cooperation by the two agencies and establishes their respective responsibilities for fire prevention, debris disposal, repair and maintenance of improvements, preservation of scenic values, and enhancement of recreational values.

In February 1967, an amendment was executed to the water supply contract between the Department and the Antelope Valley-East Kern Water Agency.107/ The amendment provides for the monthly peaking of annual water deliveries to the Agency, conditioned upon the feasibility of constructing Buttes Dam. The amendment also provides for possible interim use of excess aqueduct capacity for such peaking service prior to construction of the Dam, with reimbursement to other contractors by the Agency for the capacity so "borrowed".

In November 1967, the Department notified the Agency that the scheduled completion of Buttes Dam would be delayed until 1978, under an option provided the State by the contract, and that interim peaking service could be provided the Agency from excess aqueduct capacity until that time.108/ Currently, the Department is conducting feasibility studies concerning Buttes Dam construction. If such construction proves to be infeasible, the Agency will be responsible under the contract for providing its own peaking service.

Santa Ana Division. The following names of features located in the Santa Ana Division were officially established by the California Water Commission: San Bernardino Tunnel, Devil Canyon Powerplant, Perris Dam, and Lake Perris.109/

106/ *"Memorandum of Understanding Between the Forest Service, United States Department of Agriculture and the Department of Water Resources, State of California, for Conduct of Work by the Department During the Construction and Subsequent Operation of the California Aqueduct on the San Bernardino National Forest", March 12, 1968.*

107/ *"Amendment No. 3 to Water Supply Contract Between the State of California, Department of Water Resources, and Antelope Valley-East Kern Water Agency", February 16, 1967 (See p. 66, Bulletin 132-67).*

108/ *Letter from W. R. Gianelli to Mr. Wallace G. Spinarski, General Manager, Antelope Valley-East Kern Water Agency, November 13, 1967.*

109/ *See footnote 67, p. 27.*

West Branch, California Aqueduct. The following names of features located in the West Branch were officially established by the California Water Commission: Oso Canal, Oso Pumping Plant, Quail Canal, Quail Lake, Peace Valley Pipeline, Pyramid Powerplant, Pyramid Dam, Pyramid Lake, Angeles Tunnel, Castaic Powerplant, Castaic Dam, and Castaic Lake.110/

Coastal Branch, California Aqueduct. The following names of features located in the Coastal Branch were officially established by the California Water Commission: Las Perillas Pumping Plant, Badger Hill Pumping Plant, Devil's Den Pumping Plant, Sawtooth Pumping Plant, and Polonio Pumping Plant.111/

The design and construction of the Coastal Branch from, and including, the Devil's Den Pumping Plant to the Santa Maria Terminus was rescheduled for the five-year period, 1975 through 1979, in accordance with requests from the Central Coastal water supply contractors -- Santa Barbara and San Luis Obispo County Flood Control and Water Conservation Districts.112/

Middle Fork (Upper) Eel River Development

In October 1967, the Department released a report113/ that summarized the results of the first phase of an advance planning study114/ for the then called "Upper Eel River Development". Based on the study, the Department concluded that:

1. The Glenn route is superior to the Clear Lake route as a means for diverting surplus Eel River water to the Sacramento River Basin -- by engineering and economic standards of comparison.

110/ *See footnote 67, p. 27.*
111/ *Ibid*
112/ *Letters from John R. Teerink to Mr. Fred C. Kimball, Chairman, Board of Supervisors, San Luis Obispo County Flood Control and Water Conservation District, and to the Clerk of the Board of Directors, Santa Barbara County Flood Control and Water Conservation District, December 6, 1967.*
113/ *Department of Water Resources Bulletin 171, "Upper Eel River Development, Investigation of Alternative Conveyance Routes", August 1967. (See Water Service Contractors Council Memo No. 322, "Upper Eel River Development, Bulletin No. 171", October 18, 1967.)*
114/ *See p. 31, Bulletin 132-65.*

2. The most likely plan of development for the Glenn route would be a combination of Dos Rios Reservoir, the Dos Rios-Grindstone Tunnel, the Stony Creek Conveyance Channel, and possible features of the Glenn Reservoir complex.

3. Future planning studies should determine the optimum size and construction staging of the respective facilities, identify local needs which could be served thereby, and evaluate the factors required for a comprehensive allocation of facility costs among project purposes.

The name "Middle Fork Eel River Development" constitutes the Department's designation for that combination of facilities listed in (2) above,115/ as differentiated from the various alternatives authorized by administrative action in 1964 as the "Upper Eel River Development".116/

The long-range plan for financing and constructing the Middle Fork Eel River Development was outlined in a memorandum of understanding signed in October 1967, by the Department and the Corps of Engineers.117/ The plan includes the following elements:

1. The Corps would seek authorization to construct and operate a large multiple-purpose Dos Rios Dam and Reservoir;

2. The Department would sponsor and support the Corps and would contract for use of the Reservoir's conservation storage under terms of the Water Supply Act of 1958; and

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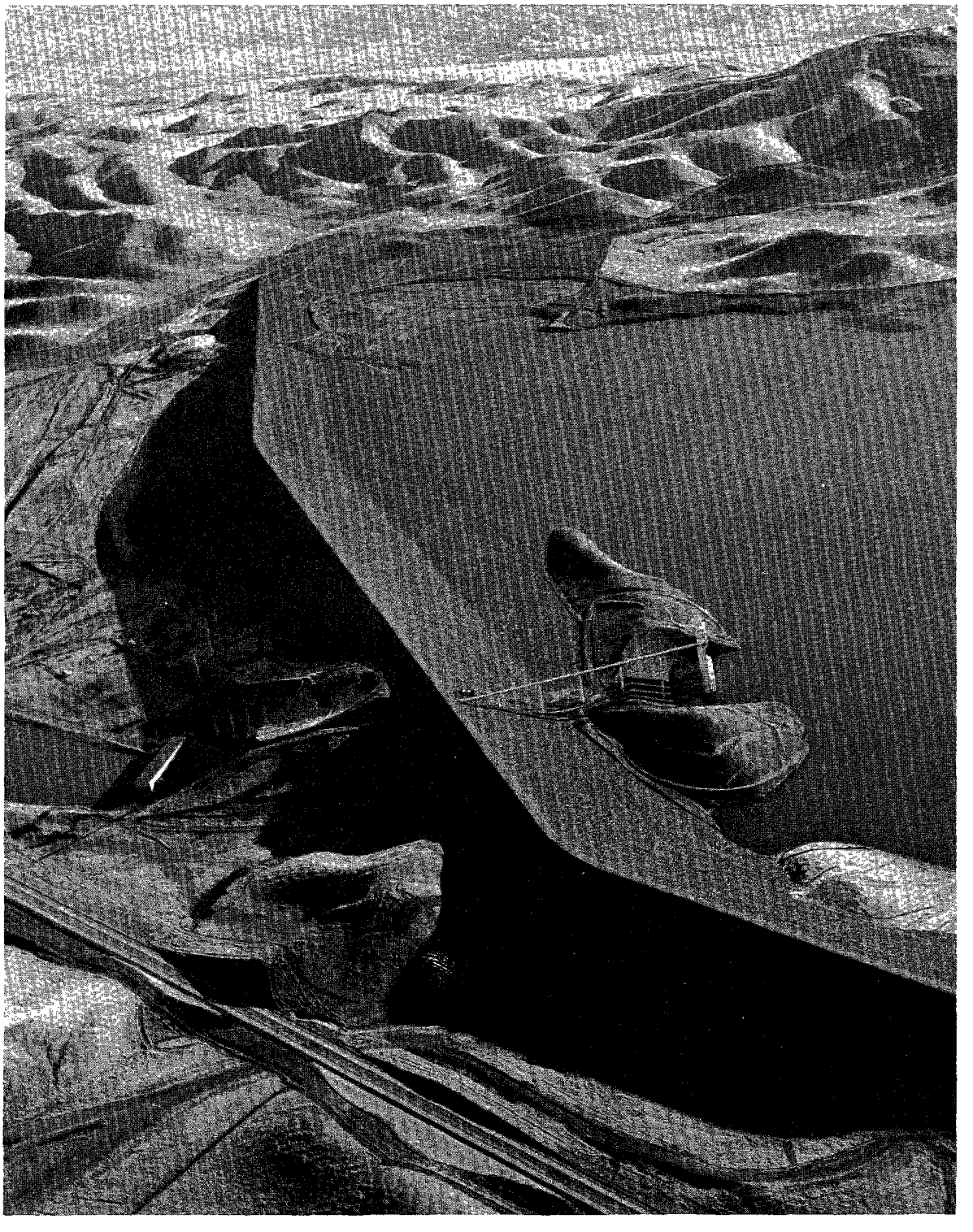
115/ *Mimeographed statement, "Plan for Financing and Constructing the Middle Fork Eel River Development", presented by John R. Teerink, Deputy Director, before the State Water Service Contractors Council at Los Angeles, November 9, 1967. (See Water Service Contractors Council Memo No. 342, "Minutes of Council Meeting of November 9, 1967, and Tentative Agenda for January 25, 1968", January 11, 1968.")*

116/ *See p. 42, Bulletin 132-64.*

117/ *"Memorandum of Understanding Between the U. S. Army Corps of Engineers, South Pacific Division, and the State of California, Department of Water Resources, for Development of the Middle Fork Eel River", October 5, 1967. (See Water Service Contractors Council Memo No. 321, "Federal-State Agreement on Middle Fork Eel", October 16, 1967.)*



San Luis Dam
(Looking south)

3. The Department would construct and operate conveyance works necessary to convey the conserved water supply to the Sacramento River Basin.

In November 1967, the Department made a study[118/] of the possible effects of the plan on project financing and water charges, based upon available cost and water yield estimates and upon assumptions as to the future effects of construction price inflation, interest rates, and contract provisions under terms of the Water Supply Act of 1958.

However, the Department's selection of the Glenn route for exporting Middle Fork Eel River water to the Sacramento Valley has been questioned.

The Board of Supervisors of Lake County employed consulting engineers to conduct an independent review of the Department's studies basic to the conclusion that the Glenn route is superior to the Clear Lake route. In their preliminary report to the Board, the consultants concluded that further studies of the Clear Lake route should be undertaken, including the impact of the route selection upon the satisfaction of future water requirements in the North San Francisco Bay region and the solution of water quality and algae problems in Clear Lake. The Department was asked to review the consultants' preliminary report, since most of the data studied was developed by the Department. The Department transmitted its comments to the consultants in February 1968.[119/]

The differences in the conclusions of the Department's and the consultants' reports result primarily from differences in planning objectives and in estimates of benefits that would result from Eel River water flowing through Clear Lake and from water sales in counties north of San Francisco Bay. The Department studies were directed toward the supplementation of water supplies in the Sacramento-San Joaquin Delta at the least capital cost. The consultants' studies encompassed the provision of additional water services within seven counties north of the San Francisco Bay as an

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118/ *Department of Water Resources, "Staff Study Re: Plan for Financing and Constructing the Middle Fork Eel River Development", November 1967. (See Water Service Contractors Council Memo No. 342, "Minutes of Council Meeting of November 9, 1967, and Tentative Agenda for January 25, 1968", January 11, 1968.)*

119/ *Letter from W. R. Gianelli to Mr. Frank T. Matthias, Vice President, Kaiser Engineers, February 6, 1968. (See Water Service Contractors Council Memo No. 352, "Eel River Routing", February 8, 1968.)*

integral part of the development of the Upper Eel River -- but at substantially greater cost. The Department considered that the future water needs of the counties, other than those within the Cache-Putah Creeks area, would be served through a series of staged water developments on sources other than the Upper Eel River.

The Department concurred with the conclusions of the consultants' report that further study of plans to meet local needs should be undertaken and that further study and research on Clear Lake water quality should be conducted. Following completion of these general planning studies, the State should have sufficient information to determine whether a broad multiple-basin plan need be considered further. Such further study may affect the Department's route selection for the export of Eel River water to the Sacramento Valley -- but not the selection of Dos Rios Dam and Reservoir as the logical multiple-purpose storage site for conserving such water.

The Corps of Engineers plans to present its feasibility report on Dos Rios this year.

The "Federal Water Projects Recreation Act"[120/] provides that in order for recreation and fish and wildlife enhancement to be included as purposes of a federal water project, nonfederal public agencies must indicate their intent, before the project is authorized, to: (1) administer recreation areas associated with the project, and (2) bear not less than one-half the separable capital costs and all operating costs of the project allocated to such purposes.

In the absence of a statement of such intent, only minimum recreation and fish and wildlife enhancement facilities would be provided -- unless such areas or facilities are included in a national recreation area or are administered as part of the national forest system or some other federal program. These latter possibilities do not appear likely at this time in regard to Dos Rios Dam and Reservoir.

Apparently, no local agency is financially capable or willing to underwrite the nonfederal share of the potential recreation and fish and wildlife enhancement costs of Dos Rios Dam and Reservoir.

120/ *See p. 7, Bulletin 132-66.*

However, the State "Porter-Cobey Federal Water Projects Recreation Act",[121] as amended in 1967,[122] authorizes the Administrator, with the approval of the Director of Finance and upon specific authorization of the Legislature, to indicate, in writing, the State's intent for purposes of the federal Act.[123]

San Joaquin Drainage Facilities

Last year's bulletin pointed out that while the State could not proceed immediately with construction of the San Joaquin Master Drain, the Department desired to participate with the Bureau of Reclamation in the acquisition of necessary lands for the federal San Luis Drain (formerly the Interceptor Drain) and to participate in certain pilot plant studies -- to facilitate future state construction of the San Joaquin Drainage Facilities.[124]

In May 1967, the Bureau notified the Department of its land acquisition schedule for the San Luis Drain, and requested an indication of the State's desires concerning a possible joint federal-state acquisition program. In July 1967, the Bureau was notified that the State did not plan to join in land acquisitions for drainage facilities south of the Kesterson Reservoir site.[125] This notification was extended to apply to land acquisitions north of that site in October 1967.[126] The following considerations, paraphrased from answers supplied by the Bureau[127] in response to queries by the Department, heavily influenced the State's decision:

1. The Bureau is not empowered to acquire land for a future state facility.

121/ *Calif. Stats. of 1966, First Extraordinary Session, Chapter 143.*

122/ *Calif. Stats. of 1967, Chapter 798.*

123/ *Assembly Bill 552, introduced February 14, 1968, by Assemblymen Belotti, Ray E. Johnson, Porter, Moorhouse, and Chappie, would specifically authorize the Administrator of the Resources Agency to indicate in writing the State's intent to agree to administer the project land and water areas at Dos Rios Dam and reservoir for recreation and/or fish and wildlife enhancement as provided in P.L. 89-72.*

124/ *See p. 29, Bulletin 132-67.*

125/ *Letter from W. R. Gianelli to Mr. R. J. Pafford, Jr., July 26, 1967.*

126/ *Ibid., October 5, 1967.*

127/ *Letter from R. J. Pafford, Jr. to Mr. William Gianelli, June 5, 1967.*

2. The Bureau does not wish to have the Department acquire right-of-way for the San Luis Drain.

3. To combine the San Luis Drain and a state-constructed drain into an integrated joint drainage facility in the future will probably require some additional authorization by the Congress.

4. The Bureau's acquisiton of right-of-way had begun.

Thus, joint participation in land acquisitions for the first and second stages of the San Luis Drain and the San Joaquin Drainage Facilities did not appear to be feasible.

However, joint federal-state studies were initiated to establish the economic feasibility of treatment of drain waters for the removal of nitrate nitrogen. The funds and personnel for these studies are being provided jointly by the Federal Water Pollution Control Administration, the Bureau of Reclamation, and the Department. These studies are scheduled to be concluded in 1970 when a decision will be made on the treatment of drainage waters. This decision will have a bearing on the location of the point of discharge for the drainage facilities.

On May 25, 1967, Director Gianelli met in Fresno with about 60 key individuals from various parts of the San Joaquin Valley to discuss the need for developing a common viewpoint on the water quality drainage problem in the valley and its proper solution, and to promote formation of a formal organization for united action concerning the San Joaquin Drainage Facilities. At the meeting, the San Joaquin Valley Drainage Advisory group was formed.128/

The purposes of the San Joaquin Valley Drainage Advisory Group are to develop (1) a physical plan for agricultural waste water disposal that will be suitable for meeting needs in the Valley, and (2) a means for repaying the reimbursable costs of the works contemplated under the plan. The Group has developed a preliminary plan and alignment for a proposed drainage facility that was distributed widely among interested agencies and individuals in April 1968. Currently, the Department is estimating the costs of the proposed facility for the Group.

128/ *Mr. Joseph B. Summers, Consulting Engineer in Corcoran, Chairman; Mr. James F. Sorensen, Consulting Engineer in Visalia, Vice Chairman; and, Mr. Carl L. Stetson, District Engineer for the Department's San Joaquin District, Secretary.*

Local Projects

The Davis-Grunsky Act authorizes state financial assistance by grants, loans, or both, to public agencies for local water projects. State loans are authorized for preparation of feasibility reports, the acquisition of reservoir sites, and construction of local projects. State grants are authorized for construction costs allocated to the enhancement of fish and wildlife and to recreation, and for initial water supply and sanitary facilities for recreation. Direct state participation in local projects is also authorized under certain conditions.

Prior to April 1, 1968, the Department had approved a total of $53,132,979 in grant and loan applications under the Davis-Grunsky program. The following loans and grants approved by the Department since April 1, 1967, account for $8,036,940 of the total:

1. A $4,000,000 loan to the town of Yreka City in Siskiyou County for construction of a municipal water distribution system.

2. A supplemental grant of $237,000 to the Siskiyou County Flood Control and Water Conservation District for contingencies only in constructing the Box Canyon Project.

3. A $7,500 loan to the North Shasta Lake Community Services District in Shasta County for the preparation of a feasibility report on a municipal water distribution system.

4. A $116,000 loan to the Redway Community Services District in Humboldt County for the construction of a municipal water distribution system.

5. A $1,031,340 loan to the Willow Creek Community Services District in Humboldt County for the construction of a municipal water distribution system.

6. A total of $2,099,100 in recreation, fish enhancement, and initial water supply and sanitary facilities grants to the San Bernardino Valley Municipal Water District in San Bernardino County for its Yucaipa Dam and Reservoir Project.

7. A $302,000 loan and $74,000 in recreation and sanitary facilities grants to the Trinity County Waterworks District No. 1 for constructing the Ewing Project near the community of Hayfork.

8. A $102,000 loan to the Groveland Community Services District in Tuolumne County for construction of a municipal water distribution system extension into the community of Big Oak Flat.

9. A $68,000 loan to the Klamath Community Services District in Del Norte County for construction of a municipal water distribution system.

Of the $8,036,940 in loans and grants approved during the past year, $5,626,840, or 70.0 percent, was for loans. Of the total $53,132,979 in loans and grants approved as of April 1, 1968, $9,831,530, or only 18.5 percent, was for loans.

Legislation was enacted during the 1967 Regular Session that will affect the Department's future administration of the program.

The Davis-Grunsky Act was recodified and subdivided into shorter sections by Assembly Bill 110.[129/] Only the section numbering was changed. The chapter number and location of the Act in the California Water Code were not changed.

Assembly Bill 147[130/] amends the Davis-Grunsky Act to provide that all loans and grants made under the Act shall be subject to the approval of the California Water Commission, and that hereafter legislative authorization for grants and loans in excess of the statutory maxima will not be made until after receipt of the Department's report on the application.

Assembly Bill 119[131/] liberalized the loan provisions of the Act by providing a 10-year development period in addition to the 50-year repayment period. It also establishes a 2.5 percent interest rate on loans and provides that no interest shall be charged on deferred interest payments.

Assembly Bill 201[132/] authorizes loans for acquiring real property, including reservoir sites, for a proposed project. However, if construction of the project has not been started within five years, the State may require the lands to be sold, and the loan repaid.

129/ *Calif. Stats. of 1967, Chapter 27.*
130/ *Calif. Stats. of 1967, Chapter 359.*
131/ *Calif. Stats. of 1967, Chapter 179.*
132/ *Calif. Stats. of 1967, Chapter 301.*

Two policies, jointly initiated by the Department and the California Water Commission, were made a part of the formal regulations for administering the Davis-Grunsky Act.133/ The policies relate to determinations of the amount of recreation grants. One policy limits the recreation activities to be considered in such determinations to those that will take place in, on, or adjacent to a reservoir. The other policy limits the recreation lands to be considered in such determinations to those that will be necessary to support water-associated recreation activities only.

133/ *California Water Commission Resolution No. 68-5, "Approving Proposed Additional Regulations for the Administration of the Davis-Grunsky Act", adopted January 5, 1968.*

CHAPTER II. PROJECT CONSTRUCTION ACTIVITIES

Project construction progress to date has followed a general schedule established almost eight years ago, in June 1960.[134/] The primary objectives for 1968 in that schedule were the initial operation of Lake Oroville and the California Aqueduct reaches between the Delta and northern Kern County.

The present schedule for the remaining reaches of the Aqueduct to Southern California is geared to objectives that would permit water deliveries from Castaic Lake in 1971 and from the East Branch to the Santa Ana Valley in 1972.

The migratory movement of construction activities according to plan requires continual coordination of design, land acquisition, and relocation activities. This chapter summarizes the status of these activities as of about April 1, 1968.

Design Activities

During the past year, the Department completed plans and specifications for 63 construction and procurement contracts that were subsequently advertised and awarded. Design work was well advanced for 80 additional contracts, scheduled to be advertised later in 1968.

Some of the more significant plans and specifications that were completed include: Del Valle Pumping Plant, Clifton Court Forebay, the California Aqueduct from Tupman Road to Buena Vista Pumping Plant, Buena Vista Pumping Plant, the California Aqueduct from Buena Vista Pumping Plant to Wheeler Ridge Pumping Plant, Wheeler Ridge Pumping Plant, Wind Gap Pumping Plant, A. D. Edmonston Pumping Plant, centrifugal pumps for the A. D. Edmonston Pumping Plant, the California Aqueduct from Cottonwood Powerplant to Fairmont, San Bernardino Tunnel, Oso Pumping Plant, and Castaic Dam.

Land Acquisition and Relocation Activities

Approximately $13.9 million was expended during the past year for the acquisition of land and right-of-way necessary for construction of the State Water Project -- about

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Department of Water Resources, Policy and Program Office Report, "Second Supplement to Information and Data on Proposed Program for Financing and Constructing State Water Facilities", June 1960, Table 22.

12.5 percent of the $111 million estimated total expenditure for project facilities with established land requirements.

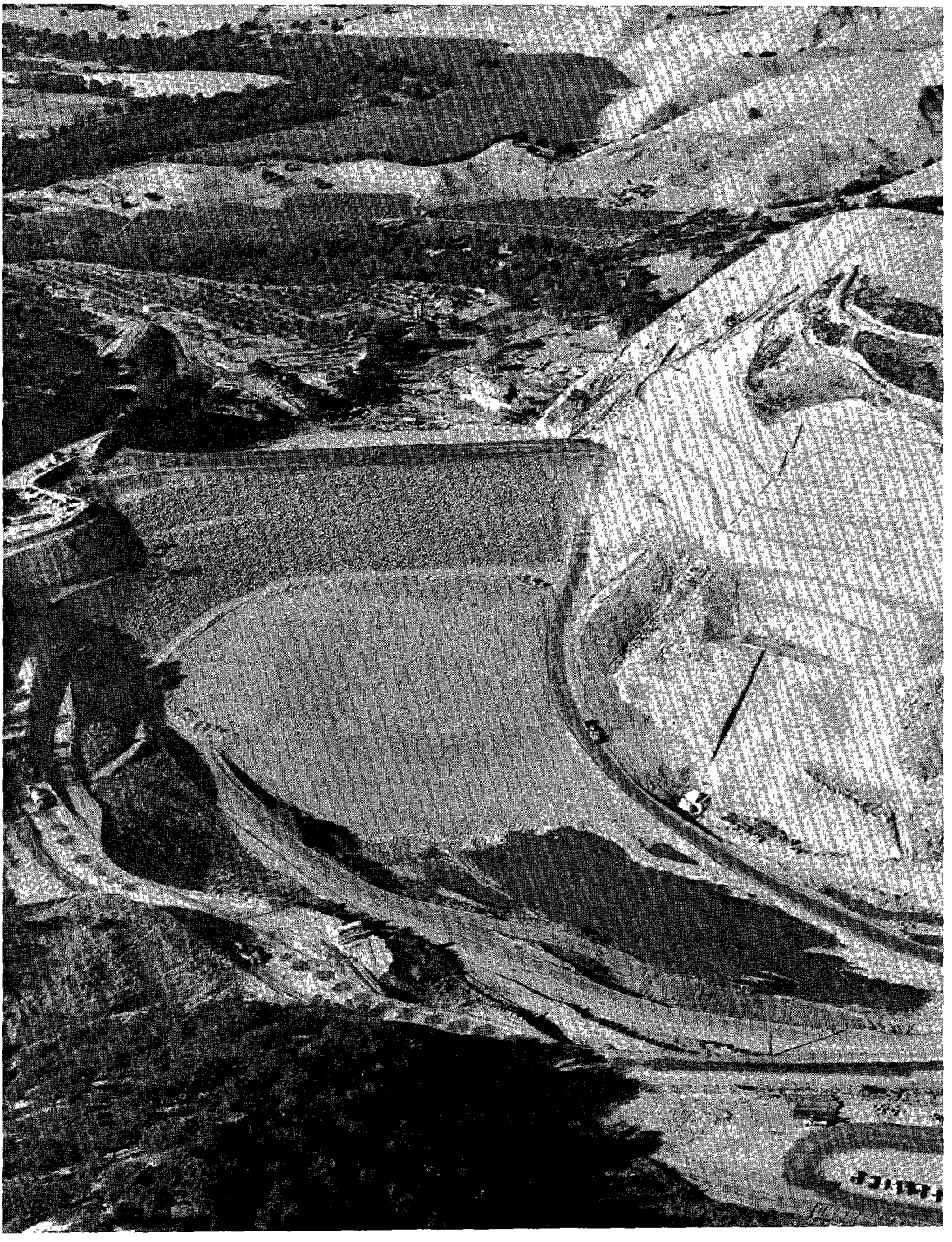
The total expenditure for land and right-of-way from inception of the Project through April 1, 1968, amounted to $78 million -- about 70 percent of the estimated total expenditure for facilities with established land requirements. In addition, $10.9 million was on deposit for property currently under condemnation proceedings as of April 1, 1968.

During the past year, title was taken to 46,457 acres involving 790 parcels. The status of the acquisition of land parcels for the Project is summarized in the following tabulation:

Project facilities with established land requirements	Estimated total parcels required	Parcels acquired during past year	Total parcels acquired to 4-1-68
Upper Feather Area	25	3	22
Oroville Area	949	98	839
Delta Borrow Area	17	0	0
North Bay Aqueduct (Phase I)	12	3	3
South Bay Aqueduct	214	53	171
California Aqueduct:			
North San Joaquin Division	203	24	159
San Luis Division	23	1	20
South San Joaquin Division	599	95	472
Tehachapi Division	2	0	0
Mojave Division	1,569	387	671
Santa Ana Division	574	53	317
West Branch	264	50	129
Coastal Branch (Phase I)	51	23	42
TOTAL	4,502	790	2,845

The Department prepared 115 condemnation resolutions that were presented to the California Water Commission, covering 583 parcels. The Commission postponed action on only one resolution.

Also, 155 agreements covering 245 relocations were executed in the amount of $13.0 million during the past year. The agreements provided for the relocation or modification of oil, gas, and water pipelines; transmission, power, and communication lines; and State highways and county roads. Total expenditure commitments for project relocations amounted to about $32.5 million on April 1, 1968 -- approximately 70 percent of the estimated $46.5 million total relocation expenditure for all facilities with established land requirements.



Construction of Del Valle Dam embankment nearing completion (looking downstream)

Construction Activities

A generalized construction schedule for the State Water Project is shown on Figure 1. Definite schedules have not been established for Dixie Refuge and Abbey Bridge Dams in the Upper Feather Area, the Middle Fork Eel River Development, or the San Joaquin Drainage Facilities. In addition, preliminary designs and land requirements have not been established for the North Bay Aqueduct (Phase II) east of the Cordelia Surge Tank; the Coastal Branch (Phase II) from, and including, Devil's Den Pumping Plant to the Santa Maria Terminus; or the Delta Facilities.

The construction of all those facilities with established schedules, preliminary designs, and land requirements will require 502 contracts and will involve an estimated total expenditure for direct pay items of $1,733 million. Of this total cost, $461 million had been incurred for 201 contracts with final progress payments completed, pending settlement of contractor claims. Also, $759 million had been incurred for 112 contracts in progress as of April 1, 1968. These expenditures and contracts include those of the Bureau of Reclamation's current construction program for the joint federal-state facilities of the San Luis Division. The status of construction contracts as of April 1, 1968, for each major division of the Project is shown in Table 1.

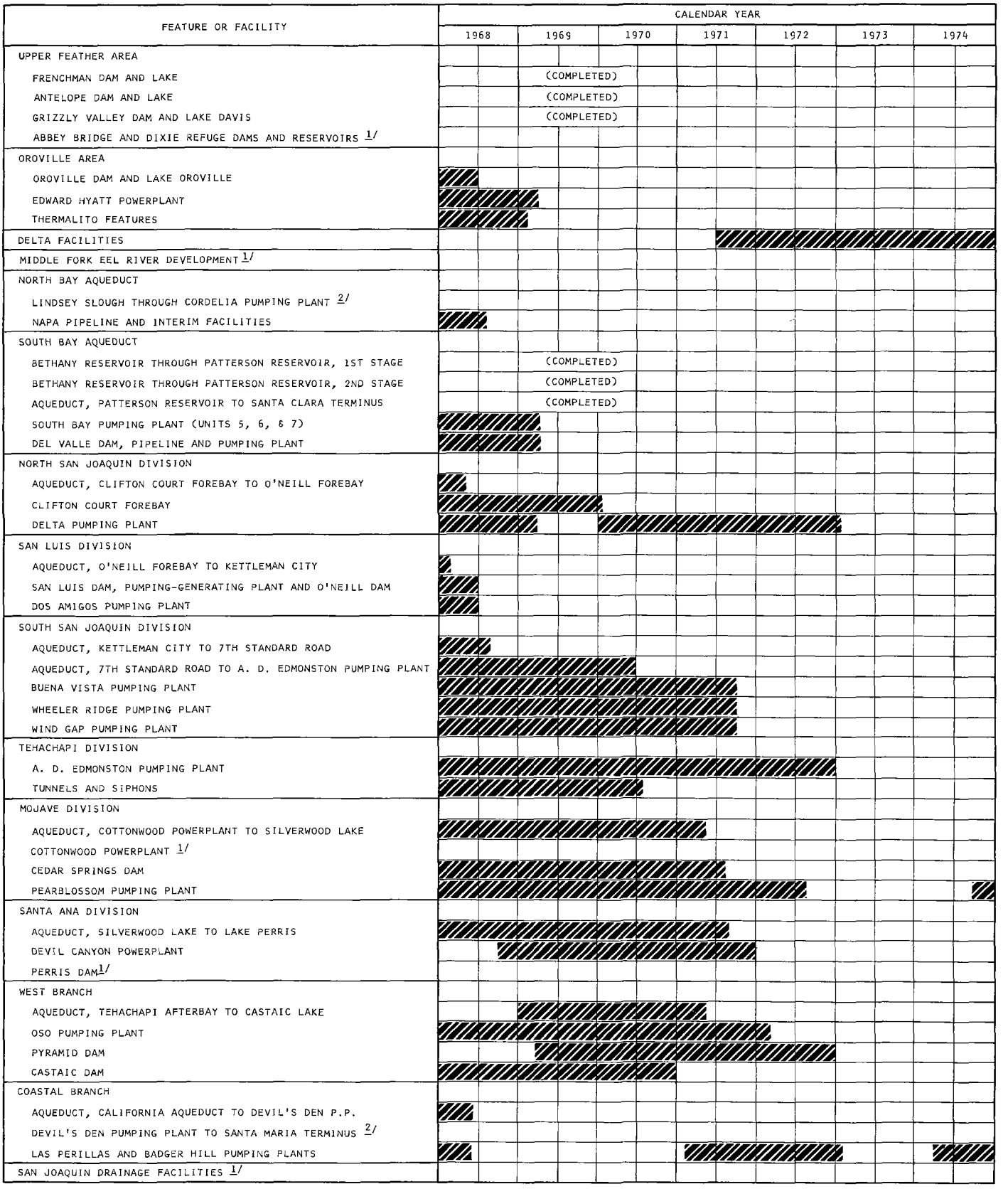
Pursuant to the Byrne Act,135/ local governments are to be reimbursed for the cost of additional services -- such as police and fire protection -- that must be supplied for increased population caused by the impact of the State Water Project construction.

A little more than $1 million has been paid to various local governments since the impact aid program began in July 1961. The largest total payment to date, about $550,000, was to the City of Oroville, and the next largest, nearly $400,000, to the County of Butte. El Medio Fire District, with payments of $16,000, is the only other agency affected in the Oroville area. San Luis area agencies and payments to date are: City of Los Banos, $63,000; County of Merced, $35,000; City of Gustine, $19,000; and Merced County Mosquito Abatement District, $14,000.

135/ California Water Code Sections 12950-12961.

FIGURE 1

STATE WATER PROJECT
GENERALIZED CONSTRUCTION SCHEDULE



1/ CONSTRUCTION NOT YET SCHEDULED.

2/ CONSTRUCTION SCHEDULED FOR 1975 THRU 1979.

The following sections briefly describe the status of construction activities for each project facility as of April 1, 1968:

Upper Feather Area

Construction of Grizzly Valley Dam was completed in 1967 -- however, water storage began in 1966.

Oroville Area

Oroville Dam embankment was "topped out" in October 1967.

Closure of Diversion Tunnel No. 1 occurred at 10:25 a.m., November 14, 1967, when a bulkhead gate was lowered into place. The construction contractor immediately dewatered the Tunnel and installed a 30-foot concrete safety plug behind the gate. In the final step, the contractor moved 1,600 feet downstream and installed another tunnel plug about 116 feet long. Closure was accomplished without any major problems. The procedure was facilitated by the cooperation of the Pacific Gas and Electric Company. The Company had greatly reduced the North Fork inflow by temporarily cutting back power releases from its upstream hydroelectric plants.

Parish Camp Saddle Dam and Bidwell Canyon Saddle Dam were completed in October 1967. Oroville Dam spillway was completed in February 1968. Power generation by the first unit of the Edward Hyatt Powerplant began in March 1968.

The Oroville-Quincy Road relocation and the Oroville-Feather Falls Road relocation, including the B. Abbott Goldberg Bridge over the South Fork of the Feather River, have been completed and these county roads are open to traffic. The Feather River Fish Hatchery was completed in December 1967.

Construction of the Thermalito Power Canal was completed in October 1967. The Thermalito Forebay and Afterbay contract has been essentially completed, and the facilities are operational. At the Thermalito Powerplant, one pump-generator unit (No. 4) became operational in February 1968, and another (No. 3) in April 1968.

Major construction activity during the next year in the Oroville Area will be directed to installation of the remaining units in the Edward Hyatt and Thermalito Powerplants.

North Bay Aqueduct

Phase I construction of the North Bay Aqueduct has been essentially completed. The interim pumping plant commenced operations with one unit on March 26, 1968. Installation of the remaining three pump units and related works will be completed by late summer of 1968.

South Bay Aqueduct

During the past year, contracts were awarded for the installation and completion of the last three pump units in the South Bay Pumping Plant, all pump units in the Del Valle Pumping Plant, the Del Valle Pumping Plant structure, and the Del Valle Branch Pipeline. The Del Valle Dam embankment was "topped out" in November 1967, and the contract is scheduled for completion by June 1968. Completion of the Branch Pipeline is scheduled for December 1968; and the Pumping Plant, for January 1969. The last unit to be installed in the South Bay Pumping Plant is scheduled to be operational in March 1969.

Fabrication and installation of the South Bay Aqueduct Control System Model is complete and undergoing operational tests.

California Aqueduct

During the past year, construction activities were distributed along the California Aqueduct from the Sacramento-San Joaquin Delta to the San Bernardino Mountains in Southern California.

North San Joaquin Division. Construction of Clifton Court Forebay commenced in January 1968, and is scheduled to be completed by January 1970. Water will be supplied to the Delta Pumping Plant directly from Italian Slough until the Forebay becomes operational -- scheduled for September 1969.

The Fish Protective Facility became operational in March 1968, and construction was completed in April 1968.

Bethany Reservoir and all 62 miles of concrete-lined canal in the North San Joaquin Division were operational by the end of 1967, and completed by March 1968.

Work on the Delta Pumping Plant completion contract (an amalgamation of many procurement contracts) is scheduled for completion by the end of 1968.

Two pump units of the Delta Pumping Plant (Nos. 1 and 2) became operational in September 1967. The next two units (Nos. 4 and 5) are scheduled to be operational in April 1968; three additional units (Nos. 3, 6, and 7), by the end of 1968; two more units (Nos. 8 and 9) by 1973; and the remaining two units (Nos. 10 and 11) by the early 1980's.

The contract for the construction and installation of pumps for a ground water relief system along the aqueduct will commence in April 1968, and is scheduled for completion by the end of 1968.

San Luis Division. Construction of San Luis and O'Neill Dams was completed during the summer of 1967.

At San Luis Pumping-Generating Plant, five pump-generator units (Nos. 3, 4, 6, 7, and 8) were operational as pumps and undergoing low head generating tests as of April 1, 1968. An additional unit (No. 2) was completed and in the initial testing phase as of that date. The remaining two units (Nos. 1 and 5) will be operational in April 1968, and in May 1968, respectively.

The concrete-lined canal between Dos Amigos Pumping Plant and Kettleman City was completed in January 1968.

At Dos Amigos Pumping Plant, three fixed-flow pump units (Nos. 2, 4, and 6) were operational as of April 1, 1968.

South San Joaquin Division. The entire 45 miles of concrete-lined canal between Kettleman City and 7th Standard Road will be operational by mid-April and completed in August 1968. The 32 miles of canal between 7th Standard Road and Buena Vista Pumping Plant will be completed in October 1969. The construction contract for the 28 miles of canal between the Buena Vista Pumping Plant and the Wheeler Ridge Pumping Plant was awarded in January 1968. The construction contract for the 15 miles of canal between Wheeler Ridge Pumping Plant and A. D. Edmonston Pumping Plant will be awarded in May 1968. Completion contracts will be advertised late in 1968 for Buena Vista, Wheeler Ridge, and Wind Gap Pumping Plants.

Tehachapi Division. Excavation of the A. D. Edmonston Pumping Plant site has been completed, and construction is currently under way on the Plant and the discharge lines therefrom. Major equipment contracts currently under way include those for the pumps, motors, discharge valves, and transformers. Contracts covering completion of the plant and construction of the surge tank are scheduled to be advertised in the latter part of 1968.

Placement of the concrete lining in Tehachapi Tunnels Nos. 1, 2, and 3 began in September 1967. The Pastoria Siphon will be advertised in August 1968. Construction of the Carley V. Porter Tunnel is scheduled for completion in 1969. Tunnel excavation was about 65 percent complete as of April 1, 1968.

Seventeen workmen were trapped by a cave-in deep inside the Carley V. Porter Tunnel a few days before Christmas, 1967, and were freed after more than 17 hours of swift efforts by rescue crews. Not a man was injured. The tunnel ceiling collapsed shortly after 5 a.m. on December 21, 1967, blocking the tunnel with an 80-foot wall of dirt and rock about 1,450 feet from its south portal. A rescue crew dug through the wall of debris to reach the men at 11 p.m.

Mojave Division. Site development for the Cottonwood Powerplant was completed in July 1967, and for the Pearblossom Pumping Plant in January 1968. Contracts for the Cedar Springs Dam Exploration Adit and the Cedar Springs Interim Water Supply Facilities are essentially complete. Work started on the aqueduct between Cottonwood Powerplant and Fairmont in November 1967, and is scheduled for completion in the fall of 1970.

During the next year, construction contracts are expected to be awarded for Cedar Springs Dam, Pearblossom Pumping Plant, and four of the five aqueduct segments remaining to be placed under construction in the Division.

Santa Ana Division. Construction of the San Bernardino Tunnel and intake tower started in September 1967, and is scheduled for completion in May 1971.

During the next year, construction contracts are expected to be awarded for Devil Canyon Powerplant and two of the four aqueduct segments to be constructed between Devil Canyon Powerplant and Lake Perris.

West Branch. Oso Pumping Plant site development and Quail embankment were completed in November 1967. Construction under the initial contract for Oso Pumping Plant began January 1968. Fabrication of the pumps and motors began in July 1967 and January 1968, respectively.

Construction under component contracts for Castaic Dam is progressing on schedule. The Castaic Diversion Tunnel will be completed in May 1968. This tunnel will divert flow from two creeks around the damsite when the embankment closure

is made during 1969. Construction of Lake Hughes Road relocation, Phase II, and of the outlet works will start late in 1968.

Castaic Powerplant site development by the City of Los Angeles, Department of Water and Power, will begin in April 1968.

Coastal Branch. The Las Perillas and Badger Hill Pumping Plants were placed in operation in January 1968 when first water deliveries were made to Berrenda Mesa Water District. Completion of all current contracts for the first 15 miles of the Branch is scheduled for August 1968.

CHAPTER III OPERATIONS SUPPORT ACTIVITIES

A significant portion of the Department's activities concern the preparation for full-scale project operations and the management and administration of that growing "utility" constituted by completed portions of the Project. These activities involve: defining and securing project water rights; negotiating and administering water sale, power sale, and power purchase contracts; and planning, implementing, and directing field operations and maintenance activities for completed portions of the Project. This chapter is a progress report on such activities conducted between about April 1, 1967, and April 1, 1968.

Water Rights Administration

An important action during the 1967 Legislative Session that will affect the administration of water rights for the State Water Project was the enactment of Assembly Bill 163.[136/] Effective December 1, 1967, the former State Water Rights Board and the State Water Quality Control Board were abolished. Their functions and members were combined in a newly established "State Water Resources Control Board".

Another important action during the 1967 Legislative Session was the enactment of Assembly Bill 1222.[137/] This legislation was in regard to the continuing exemption from the diligence requirements of the California Water Code of the Department's applications for the appropriation of water. The new law amends Water Code Section 10500 to extend the exemption until the 61st day after adjournment of the 1971 Regular Session. Prior to the amendment, which was effective June 7, 1967, relief from diligence was extended only until October 1, 1967.

Processing of Project Applications

Water rights activities during the past year included proceedings to obtain permits already under application before the State Water Resources Control Board.

Diversions within the Upper Feather Area. The Department petitioned the then State Water Rights Board for

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136/ *Calif. Stats. of 1967, Chapter 284. (See Water Service Contractors Council Memo No. 336, "1967 State Legislation", December 5, 1967.)*

137/ *Calif. Stats of 1967, Chapter 283. (See Memo No. 336.)*

assignment of applications for Abbey Bridge Reservoir on Red Clover Creek in Plumas County, as described in last year's bulletin.138/ Notice of the Department's petition was issued by the Board, and protests by downstream water users were received. The Department plans to negotiate with these users with the objective of executing agreements and stipulations allowing the Department to obtain a permit.

Diversions from the Feather River and the Sacramento-San Joaquin Delta. Activities leading to completion of hearings by the then State Water Rights Board were described in last year's bulletin concerning eight state applications for the appropriation of water from the Feather River at Oroville and from the Sacramento-San Joaquin Delta.139/ In May 1967, the State Water Rights Board issued a decision that approved these applications.140/

The decision included a number of favorable provisions. Most important, it determined that unappropriated water was available for the State Water Project. It incorporated all of the principal provisions of the stipulations that the Department had negotiated with most of the original protestants -- including the terms of the Agreement of November 19, 1965, in regard to minimum quality criteria for the Delta.141/ Also, as the Department had recommended, the State Water Rights Board reserved jurisdiction to make a final determination on water quality questions in the Delta -- to be exercised prior to mid-1970, unless a settlement is negotiated with all concerned parties or the time is extended.

However, two parts of the decision were unfavorable.

The Department was not granted the right to appropriate water during the months of July, August, and September, although the permits to the Bureau of Reclamation for the federal Central Valley Project include this period.

138/ *See p. 61, Bulletin 132-67.*

139/ *See pp. 59-60, Bulletin 132-67.*

140/ *State Water Rights Board Decision D 1275 "In the Matter of Applications 5629, 5630, 14443, 14444, 14445A, 17512, 17514A, and 17515A of California Department of Water Resources to Appropriate from Feather River, Sacramento-San Joaquin Delta, Lindsey Slough, Italian Slough, and San Luis Creek in Butte, Contra Costa, Sacramento, San Joaquin, Solano, Yolo, and Merced Counties, May 31, 1967. (See Water Service Contractors Council Memo No. 293, "Water Rights Decision", July 13, 1967.)*

141/ *See p. 69, Bulletin 132-66.*

Furthermore, the Department was not granted the right to divert water (except for power purposes) nor store water during the months of April, May, and June unless certain quality criteria were met (which would involve a Delta outflow of approximately 6,000 cubic feet per second). This requirement was prescribed for the period prior to mid-1970 when the Board could make a final determination on Delta water quality matters.

Petitions for reconsideration of the decision were filed with the Board by the Central Valley Regional Water Quality Control Board on June 29, 1967, and by the Contra Costa County Water Agency and the Department on June 30, 1967.142/ The Bureau of Reclamation filed a request that a hearing be held pursuant to the Department's petition and that the Bureau be given an opportunity to be heard.

Petitions of the Central Valley Regional Water Quality Control Board and the Contra Costa County Water Agency were denied and the petition of the Department was granted for limited purposes.143/

A further hearing was held by the State Water Rights Board on August 22, 1967, to receive additional evidence regarding the seasons of diversion, dates for completion of construction, protection of fish and wildlife, and the proposed Oroville-Thermalito power sale contract.

At the hearing, the Department presented additional exhibits and testimony in order to demonstrate that substantial quantities of unappropriated water probably will occur in the Delta during the months of July, August, and September. The Department did not offer any additional evidence regarding the availability of unappropriated water from the Feather River but contended that previously introduced studies indicate availability of such water during the months of July, August, and September.

142/ *Before the State of California, State Water Rights Board, "Petition by State Department of Water Resources for Reconsideration of Decision D 1275." (See Water Service Contractors Council Memo No. 293, "Water Rights Decision", July 13, 1967.)*

143/ *State Water Rights Board, "Order Granting for Limited Purposes Petition of the Department of Water Resources, and Denying Petitions of Central Valley Regional Water Quality Control Board and of the Contra Costa Water Agency for Reconsideration of Decision D 1275", July 19, 1967. (See Water Service Contractors Council Memo No. 299, "Reconsideration of Water Rights Decision", August 2, 1967.)*

On November 30, 1967, the State Water Rights Board modified its original decision[144/] to provide for a year-round direct diversion season on the Feather River and, with water quality limitations, in the Delta. The modified decision also provided for a year-round storage season in the Delta and for all months excluding August on the Feather River. Moreover, the Board reserved jurisdiction on the subjects of water quality and salinity in the Delta, the protection of the Delta fishery, and the coordinated operation of the State Water Project and the federal Central Valley Project.

The Contra Costa County Water Agency and the Jersey Island Reclamation District No. 830 appealed the decision of the State Water Resources Control Board by filing petitions for writs of mandate in the Superior Court of Contra Costa County on December 29, 1967.

Nothing in the appeal seeks to enjoin construction or operation of the Project.

Water users' organizations representing 95 percent of the agricultural land in the Sacramento-San Joaquin Delta -- the Sacramento River and Delta Water Association, the Delta Water Users Association, and the San Joaquin County Flood Control and Water Conservation District -- petitioned the Court for permission to intervene as interested parties in support of the State, and were granted leave to do so by the Court.

Diversions from Aqueduct Reservoirs. During the past year, a review was made of unappropriated local runoff at reservoir sites on the project transportation facilities -- including Lakes Del Valle and Perris and Silverwood, Quail, Castaic, and Pyramid Lakes.

After preliminary analyses of local water supply at the respective sites, the Department concluded that no action be taken regarding the filing of applications to appropriate local runoff at these sites at the present time; however, additional studies should be made of the quantities of water that could be appropriated at Castaic Lake.[145/]

144/ *State Water Rights Board Decision D 1291, "Decision Upon Reconsideration of Decision D 1275", November 30, 1967.*

145/ *Department of Water Resources memorandum from John M. Haley, Chief, Statewide Planning Office, "Natural Flow Storage in SWP Reservoir", June 8, 1967, approved (with qualifications) June 17, 1967.*

Alameda County Water District and Pleasanton Township County Water District have certain rights under permits issued by the then State Water Rights Board for storage and use of Arroyo Del Valle flows.146/ Contract negotiations between the Department and the two districts are nearing completion whereby such flows would be stored and regulated in Lake Del Valle to the extent that the Lake's capacity is not needed for other project purposes.

Local interests on Castaic Creek are attempting to reach agreement on the quantities of local runoff that could be covered by water rights. Also, the Department is investigating the relationship between the discharge of Santa Clara River flows into the Pacific Ocean with the Castaic Creek flows that could be conserved in Castaic Lake. Involved are local flows over and above those to be conserved and released at rates that will preserve the natural underflow from alluvium to be submerged by the Lake. These latter flows are covered by agreements previously described.147/

Negotiation of Water Rights Agreements

The Department continued negotiations with all users holding rights to water in the Feather River to define the quantities each user is entitled to divert. Negotiations also continued with users holding rights to water in channels of the Delta to define (1) the loss in respective entitlements to offshore water of satisfactory quality due to operation of the Project, and (2) the State's monetary responsibility as to such loss.

Feather River Service Area. The Pacific Gas and Electric Company and the Joint Water Districts have first priority appropriative rights to Feather River flows below Oroville -- and account for approximately 93 percent of the present Feather River flows used for irrigation.

Negotiation of agreements with the two agencies was substantially complete as of April 1, 1968 -- final contract language is being prepared. The agreement with the Pacific Gas and Electric Company will also define the entitlement to that water released from the Company's storage facilities located upstream from Lake Oroville. An interim agreement

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146/ *State Water Rights Board Application Nos. 17002 and 17003, and Decision D894, March 25, 1958, that approved those applications subject to a number of special conditions.*

147/ *See p. 63, Bulletin 132-67.*

was executed with the Company in March 1968.[148] This agreement specifies the methods and procedures for determining the quantities of water to be made available for diversion by the Company, into its Western Canal System, during the initial filling period of Lake Oroville.

Execution of all agreements with water users on the Feather River is expected during 1968.

Delta Service Area. The November 19, 1965 Agreement on Delta water quality criteria was signed by the Department, the Bureau of Reclamation, the Sacramento River and Delta Water Association and the San Joaquin Water Rights Committee, including the Delta Water Users Association. While the two associations represent water users throughout the Delta, except those in the northeastern portion of Contra Costa County, they are not authorized to commit their constituents to binding agreements. The formation of a master agency in the Delta, that could enter into such agreements with the United States and the State, would expedite contractual water quality and rights settlements in the Delta.[149]

Negotiation of water entitlement agreements with municipal water users in northeastern Contra Costa County is complete. In April 1967, an agreement was executed between the Department and the Contra Costa County Water District of Pittsburg, California,[150] and in April 1968, with the City of Antioch.[151]

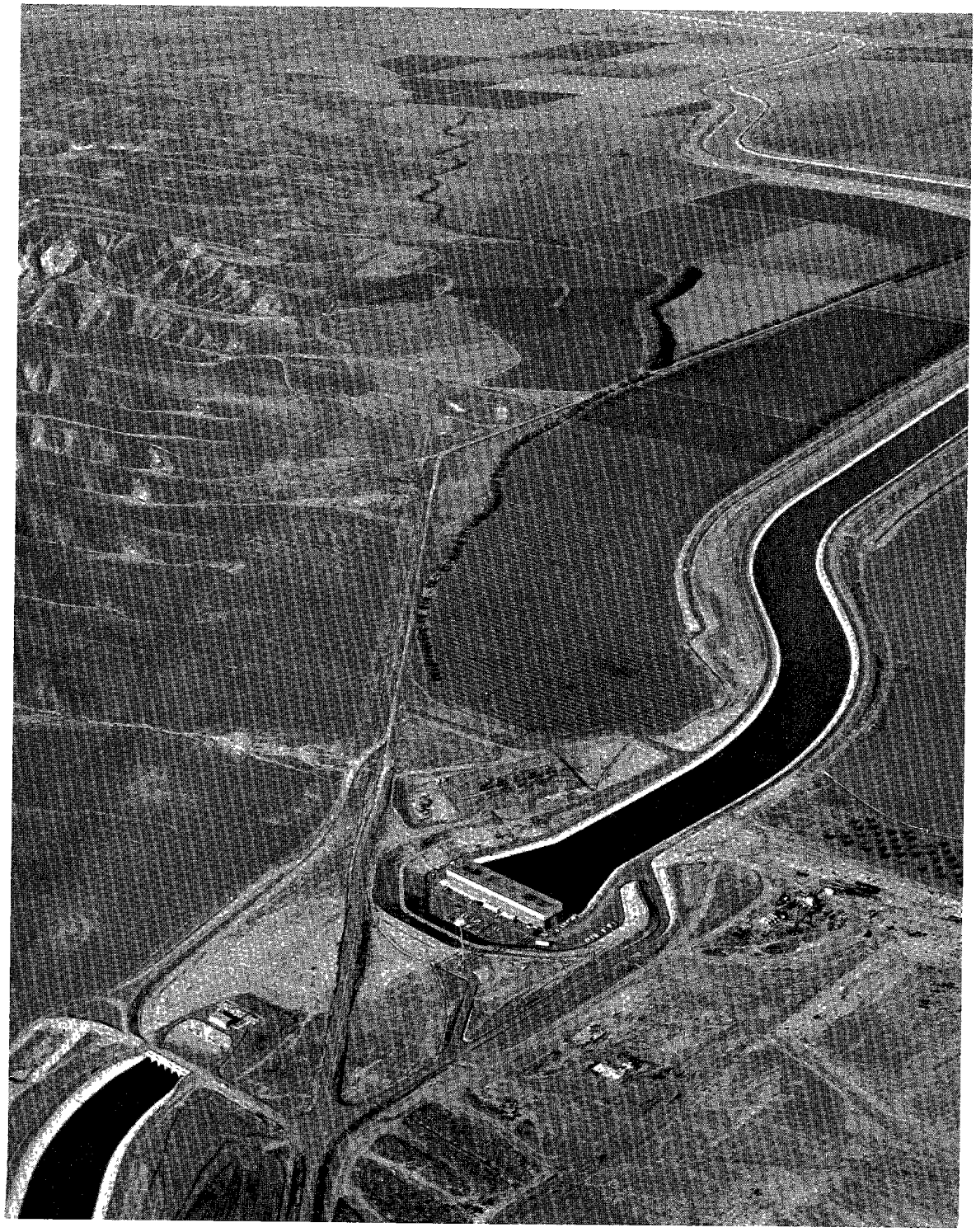
Negotiation of water entitlement agreements with industrial water users in northeastern Contra Costa County is well under way. Such users include the Fibreboard Corporation, Dow Chemical Company, E. I. duPont de Nemours and Company, United States Steel Corporation, Johns-Manville Products Corporation,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

148/ *Letter from Pacific Gas and Electric Company to Mr. Carl A. Werner, District Engineer, March 8, 1968, signed by the Director on March 19, 1968.*

149/ *Assembly Bill 942, introduced March 11, 1968, by Assemblymen Monagan, Z'berg, and Dunlap (Coauthors: Senators Marler and Short) would establish a Delta Water Agency for the purpose of negotiating and entering into one or more agreements with the United States and the State. (See Water Service Contractors Council Memo No. 375, "Delta Master Agency", April 3, 1968.)*

150/ *See p. 20, Bulletin 132-67.*

151/ *Agreement between the State of California, Department of Water Resources, and the City of Antioch, executed April 11, 1968.*



Dos Amigos Pumping Plant (looking north)

Negotiations with agricultural water users in northeastern Conta Costa County are progressing slowly.

Delta Water Quality Standards

Water quality standards, especially those applying to salinity control in the Delta, have a far-reaching effect upon the acquisition and administration of water rights for the Project. A situation developed during the past year whereby two agencies of the United States Department of the Interior -- the Federal Water Pollution Control Administration and the Bureau of Reclamation -- were in disagreement concerning water quality standards for the Delta. The Secretary of the Interior appointed a top-level task force to resolve this controversy.152/

In April 1967, the Central Valley Regional Water Quality Control Board held a hearing on its proposed regional policy for the Delta. This policy reflected salinity control objectives that were much higher than normal historic conditions in the Delta and higher than those of the Agreement of November 19, 1965. The Department opposed inclusion of the salinity control objectives on the basis that quality problems for the western Delta could be solved more economically by substitute conveyance facilities and that storage was not available to provide the necessary releases.

The criteria proposed by the Regional Board, including the salinity control objectives, were forwarded to the then State Water Quality Control Board (now State Water Resources Control Board). The State Board held a hearing in June 1967. At that time, the proposed criteria were protested by the Department,153/ the Bureau of Reclamation, the Delta Water Users Association, and others. The State Board ruled in favor of the protestants and the salinity control objectives were removed from criteria presented by the State Board to the Federal Water Pollution Control Administration for adoption as federal standards.

152/ *See p. 8, Bulletin 132-66.*

153/ *Mimeographed "Statement of Department of Water Resources to State Water Quality Control Board on Water Quality Control Policy Sacramento-San Joaquin Delta", presented by John R. Teerink to the State Water Quality Control Board at San Francisco on June 14, 1967. (See also Water Service Contractors Council Memos: No. 288, "Delta Water Quality", June 20, 1967; No. 290, "Delta Water Quality-Statements and Exhibits", June 30, 1967; and No. 300, "Water Quality Standards and Delta Salinity Control", August 9, 1967.*

While the Federal Water Pollution Control Administration did not establish federal water quality standards during the past year, it continued to favor the inclusion of the high salinity control objectives in such standards and to ignore the unique situation in the Delta.

The Department of Water Resources contends that the standards advocated by the Federal Water Pollution Control Administration are unrealistic and could necessitate the discharge to the ocean of an additional two million acre-feet of water annually -- a devastating requirement for not only the State Water Project and other projects, but the Bureau of Reclamation's Central Valley Project as well.

Water Contracts Management

On April 1, 1967, the Department had executed long-term water sale contracts with 30 local water agencies throughout the State, committing the service of 4,221,400 acre-feet annually, or 99.8 percent of the "minimum project yield" of 4,230,000 acre-feet. Water contract management betweem April 1, 1967, and April 1, 1968, included the following activities:

1. The remaining 8,600 acre-foot portion of the "minimum project yield" was committed under long-term contracts.

2. Planning continued in regard to the provision of long-term water service beyond the limits of the present "minimum project yield".

3. Certain provisions of executed long-term water contracts were amended to accommodate changing project conditions and contractor needs.

4. The first set of contracts covering the service and sale of surplus water was executed and the realignment of the surplus water program was initiated.

5. A review of the Department's detailed calculation of charges was continued with contractor representatives.

6. Arrangements for the location, construction, and operation of contractor delivery structures continued to be developed.

Negotiation of Long-Term Contracts

Long-term contracts executed pursuant to the "Standard Provisions for Water Supply Contract"[154/] for the conservation and transportation of project water limited the sale of water to a maximum annual quantity designated as the "minimum project yield". In addition, the Project is obligated to contract with, and conserve a supply for, areas located in and above the Sacramento-San Joaquin Delta, in certain instances, under the so-called "Area of Origin Law".[155/] Subject to the availability of funds, the Department also is authorized to conserve and supply "supplemental water" (as distinguished from "project water") to meet the continuing growth in water needs for areas throughout the State.

The number of contracts for long-term water service from the Project increased to 31 with the execution of a contract between the Department and the County of Kings on August 31, 1967 -- for a maximum annual entitlement of 4,000 acre-feet.

During the past year, the Department negotiated with various agencies concerning the possible service of the 4,600 acre-foot uncommitted remainder of the "minimum project yield". Negotiations with Riverside County interests and the City of Needles proved fruitless. In March 1968, the decision was made to amend the contract with the San Bernardino Valley Municipal Water District to provide for a 4,600 acre-foot increase of the maximum annual entitlement -- in accordance with the District's request through action taken by the District's Board of Directors on February 5, 1968.[156/]

Thus, the entire "minimum project yield" was committed as of April 1, 1968.

The location of the 31 contracting agencies and their maximum annual entitlements are shown on Figure 2. Pertinent agency data are summarized in Table 2.

Table 3 presents a summary of the annual entitlements for all contractors located in each of the major service

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154/ *See p. 159, Bulletin 132-63.*
155/ *California Water Code Sections 11460-11463 and 11128.*
156/ *Department of Water Resources Memorandum from James J. Doody, District Engineer, Southern District, to Messrs. Teerink and Gianelli, "Approval of Contract Admendment with San Bernardino Valley Municipal Water District for Increase in Maximum Annual Entitlement", March 13, 1968, approved March 28, 1968.*

regions of the Project. Also shown in that table are the estimated annual amounts of water required to bring water surfaces in project transportation facilities to operational levels (construction water), to compensate for evaporation and seepage losses in the project transportation facilities (operational losses) and to provide water consumed in recreational developments associated with the project transportation facilities (recreation water).

Since completion of Frenchman Dam and Lake in 1962, the Department has been negotiating a long-term water supply contract with the Last Chance Creek Water District in Plumas County. Negotiations with the District for a long-term supply are continuing. An interim contract for the 1968 irrigation season will be executed in April 1968.

During the year, the Contra Costa County Water District inquired concerning possible long-term water supplies from the State Water Project for a service area located, for the most part, in the Delta. The Department replied to a comprehensive list of questions raised by the District.157/ The Solano County Flood Control and Water Conservation District also inquired concerning a possible increase in its present maximum annual entitlement for use in a similar service area.

The possible sources for such additional service include (1) a potential enlargement of the present "minimum project yield"; (2) an additional upstream depletion upon the project supply in the Delta, and (3) a "supplemental water" supply developed from conservation facilities to be constructed in the future. These possibilities were discussed with the present water supply contractors in March 1968.158/

The East Bay Municipal Utility District, encompassing urban centers east of San Francisco Bay, also has inquired as to the possibilities of contracting for water from the State to supply the District's growth in water demands continuing beyond 1990. Such water could be developed from the Middle Fork Eel River Development. Several meetings have been held between representatives of the District and the Department. The Department documented the considerations

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157/ *Letter from W. R. Gianelli, Director, to Mr. John E. DeVito, General Manager, Contra Costa County Water District, March 11, 1968.*

158/ *Water Service Contractors Council Memo No. 382, "Minutes of Council Meeting of March 28, 1968, and Tentative Agenda for May 17, 1968".*

involved so that the District could complete studies of alternative sources of supply for its continuing water needs.159/

Planning studies indicate that a Middle Fork Eel River Development with a "high" Dos Rios Dam could make supplemental water available in excess of those annual amounts required to firm up the "minimum project yield". Under this condition, the Development would constitute both "additional project conservation facilities" and "supplemental conservation facilities" as these terms are defined in the "Standard Provisions for Water Supply Contract".

Amendments to the contracts that have been executed under the Standard Provisions would facilitate financing and constructing the Development at the larger, more economical, size. These amendments were proposed and discussed with the present water contractors in November 1967.160/

Under Articles 22(e) and 22(g) of the Standard Provisions, all estimated reimbursable costs of an "additional" or "supplemental" conservation facility must be included in the determination of the Delta Water Charge paid by all contractors "commencing in the year in which the State first incurs capital costs for the construction" of such a facility. Since all costs incurred subsequent to the authorization of the Middle Fork Eel River Development are capital costs as defined in Article 1(s) of the Standard Provisions, all past and projected costs of this facility would have to be included in the determination of the Charge -- commencing in 1970.

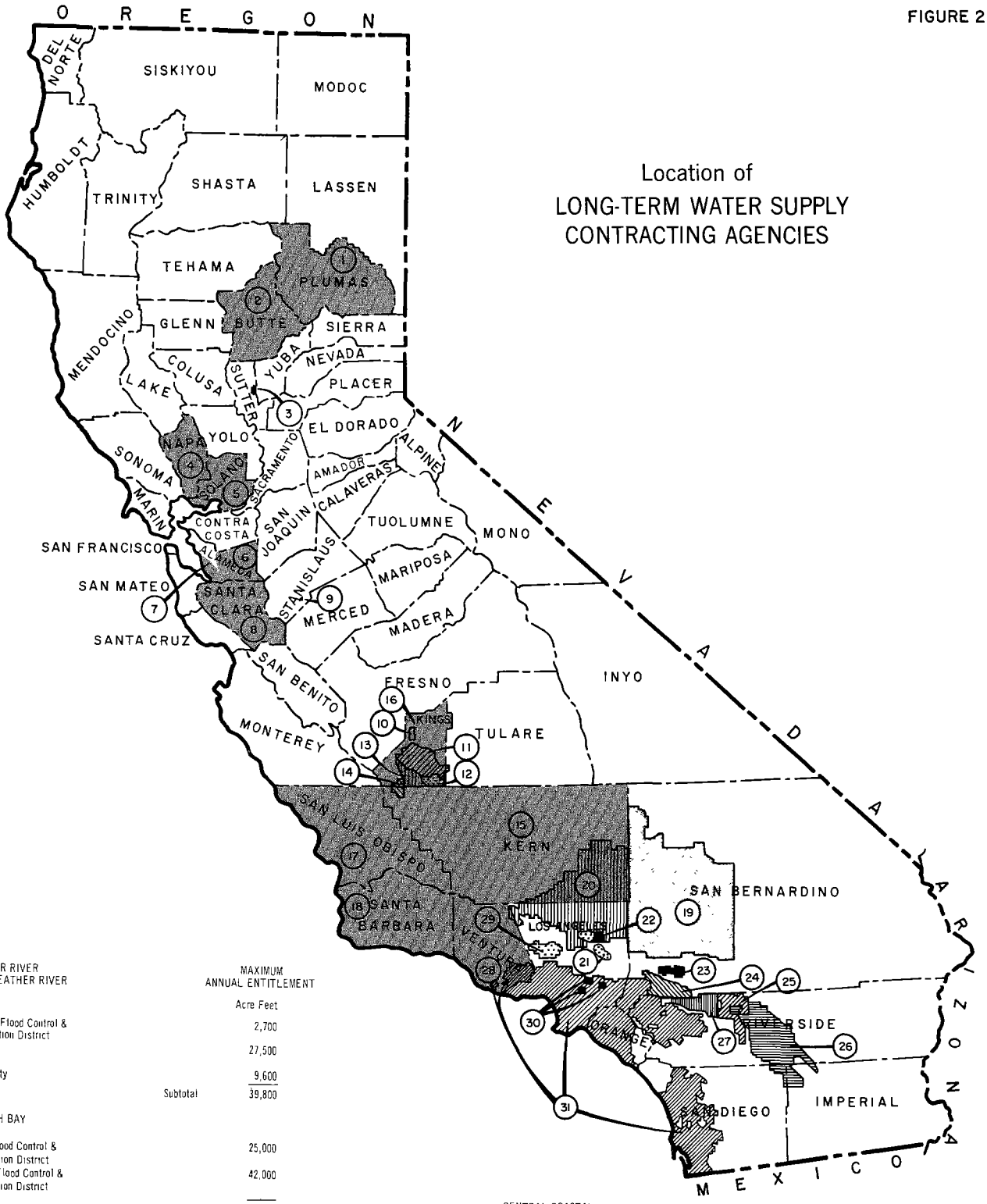
At the time the "Upper Eel River Development" was authorized in 1964, the Department indicated that amendments would be prepared before 1970 to carry out what all agreed was the original intent of the contracts -- i.e., that all estimated reimbursable costs of future conservation facilities be included in the determination of the Delta Water Charge at the time major construction activities commence.

Another proposed amendment concerns the use of Water Bond proceeds for financing the construction of "supplemental conservation facilities". Such use is precluded until after 1985 by Article 16(d) of the Standard Provisions. The amendment of Article 16(d) would be desirable to allow such use in the event future planning studies indicate that the Middle Fork Eel River Development would serve the purposes of "supplemental conservation facilities".

159/ *Letter from W. R. Gianelli, Director, to Mr. J. S. Harnett, Chief Engineer and Assistant General Manager, East Bay Municipal Utility District, October 3, 1967.*

160/ *See footnote 115.*

FIGURE 2



Location of LONG-TERM WATER SUPPLY CONTRACTING AGENCIES

		MAXIMUM ANNUAL ENTITLEMENT Acre Feet
	FEATHER RIVER AND UPPER FEATHER RIVER	
1	Plumas County Flood Control & Water Conservation District	2,700
2	Butte County	27,500
3	City of Yuba City	9,600
	Subtotal	39,800
	NORTH BAY	
4	Napa County Flood Control & Water Conservation District	25,000
5	Solano County Flood Control & Water Conservation District	42,000
	Subtotal	67,000
	SOUTH BAY	
6	Alameda County Flood Control & Water Conservation District-Zone 7	46,000
7	Alameda County Water District	42,000
8	Santa Clara County Flood Control & Water District	100,000
	Subtotal	188,000
	SAN JOAQUIN VALLEY	
9	Oak Flat Water District	5,700
10	Empire West Side Irrigation District	3,000
11	Tulare Lake Basin Water Storage District	110,000
12	Hacienda Water District	8,500
13	Dudley Ridge Water District	57,700
14	Devils Den Water District	12,700
15	Kern County Water Agency	1,153,400
16	Kings County	4,000
	Subtotal	1,355,000
	CENTRAL COASTAL	
17	San Luis Obispo County Flood Control & Water Conservation District	25,000
18	Santa Barbara County Flood Control & Water Conservation District	57,700
	Subtotal	82,700
	SOUTHERN CALIFORNIA	
19	Mojave Water Agency	50,800
20	Antelope Valley East Kern Water Agency	138,400
21	Palmdale Irrigation District	17,300
22	Littlerock Creek Irrigation District	2,300
23	Crestline-Lake Arrowhead Water Agency	5,800
24	San Bernardino Valley Municipal Water District	102,600
25	Desert Water Agency	38,100
26	Coachella Valley County Water District	23,100
27	San Gorgonio Pass Water Agency	17,300
28	Ventura County Flood Control District	20,000
29	Upper Santa Clara Valley Water Agency	41,500
30	San Gabriel Valley Municipal Water District	28,800
31	The Metropolitan Water District of Southern California	2,011,500
	Subtotal	2,497,500
	Grand Total	4,230,900

In view of the current status of planning studies and proposed legislation concerning project financing, the Department distributed a staff analysis of the effect of these proposed amendments and recommended that they be considered by the contractors -- looking to their possible execution at some future time.[161/]

Negotiation of Surplus Water Contracts

Surplus project water is being served in 1968 for the first time. Such service is permitted under the following provisions of the long-term water contracts:

1. The Agricultural and Ground Water Replenishment provisions, limited to quantities that can be served without causing an increase in the unit variable operation, maintenance, power, and replacement components of the Delta Water Charge and the Transportation Charge.

2. Article 21, limited to quantities that physically can be served over and above the surplus quantities of (1) at prices that would return to the State at least all additional costs incurred therefor.

Surplus Water Program for 1968. After a year of staff study and discussions with contractors concerning surplus water sales under two separate sets of contracts, corresponding with the two types provided for by the long-term contracts, Director Gianelli approved a modified appoach for 1968,[162/] whereby:

1. Surplus water would be served during 1968 without distinction as to type.

2. Contracts covering such combined service would provide for a specific surplus quantity at the applicable unit variable operation, maintenance, power, and replacement components of the Delta Water Charge and the Transportation Charge.

161/ *See footnote 115.*

162/ *Department of Water Resources memorandum from P. A. Towner, John R. Eaton to Mr. William R. Gianelli, "Surplus Water Program", December 13, 1967, approved December 14, 1967, as supplemented by Department of Water Resources memorandum from Porter A. Towner, Wesley E. Steiner to Mr. John R. Teerink, "Surplus Water Contracts for 1968", January 15, 1968, approved January 16, 1968.*

Department studies, completed in January 1968, indicated that 1968 entitlements and requested surplus water quantities could be served at unit costs less than if entitlements only were served. The indicated reduction in unit costs was due to a greater use factor thus permitted for ordered amounts of Canadian Entitlement power, in conjunction with the 1968 availability of Oroville-Thermalito power. These studies were documented as a basis for one-year contracts covering surplus water service in 1968.163/

The Department negotiated and executed contracts with the following eight long-term water contractors located in the South Bay area and San Joaquin Valley for the delivery of 154,397 acre-feet of surplus water during 1968:

	(in acre-feet)
Alameda County Water District	10,000
Devil's Den Water District	3,700
Dudley Ridge Water District	11,500
Empire West Side Irrigation District	3,000
Hacienda Water District	1,300
Kern County Water Agency	95,997
Oak Flat Water District	2,000
Tulare Lake Basin Water Storage District	26,900
Total	154,397

Realignment of Future Surplus Water Program. The Department initiated a program to investigate the possible enhancement of future surplus water service.164/

There are several potential suppliers of relatively inexpensive energy or short-term power suitable for pumping surplus water. The Project's present power supply contracts were negotiated with the objective of delivering annual entitlements under the long-term water contracts at the lowest overall cost. However, the desired characteristics of a power supply for pumping surplus water basically are different from those for pumping entitlement water. Delivery of surplus water at least cost requires that ordered amounts of power can be adjusted on relatively short notice without incurring price penalties. Furthermore, surplus water service should not require a guaranteed long-term source of power supply.

163/ *See second memorandum referred to in footnote 162.*

164/ *Department of Water Resources memorandum from John R. Eaton to Messrs. Steiner and Teerink, "Long-term Surplus Water Program", February 21, 1968, approved March 14, 1968. (See Water Service Contractors Council Memo No. 374, "Surplus Water Service", April 3, 1968.)*

In conjunction with securing a power supply ideally suited for pumping surplus water service, amendments to the long-term water supply contracts may be desirable in order to facilitate the purchasing arrangements for such power and to simplify the entire surplus water program of the Project.

The Department is striving to realign the surplus water program by September 1, 1968. In the event that negotiations are not sufficiently advanced by that date, surplus water service during 1969 may again be on the basis of one-year contracts, similar to the contracts for 1968.

Negotiation of Contract Amendments

The following amendments to three of the long-term water supply contracts were executed between April 1, 1967, and April 1, 1968:

1. Amendment 3 to the San Gabriel Valley Municipal Water District contract, executed May 7, 1967, provides for 21 cubic feet per second of excess capacity in the Santa Ana Division, from Silverwood Lake to the South Portal of the San Bernardino Tunnel.

2. Amendment 4 to the Antelope Valley-East Kern Water Agency contract, executed May 11, 1967, provides for 19 cubic feet per second of excess capacity in the West Branch, from the Tehachapi Afterbay to the Peace Valley Pipeline.

3. Amendment 1 to the Oak Flat Water District contract, executed August 10, 1967, allows the District to design and construct its delivery structures on the North San Joaquin Division, subject to review and approval of the plans in advance and to construction inspection by the State.

In all, 61 contract amendments had been executed as of April 1, 1968. Also, 10 amendments were under negotiation as of that date.

One of the pending amendments was proposed Amendment 7 to the contract with The Metropolitan Water District of Southern California.*165/* That amendment would release

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165/ See p. 25, Bulletin 132-67.

to the Project, 50 cubic feet per second of the District's excess capacity between Kettleman City and the West Branch, and all 809 cubic feet per second of the District's excess capacity in the West Branch. Furthermore, the District would prepay a portion of its capital cost component of the Transportation Charge in lieu of the advance of funds required for the excess capacity that the District originally requested to be included in the West Branch. The time and magnitude of the prepayment is influenced by the construction schedule for the West Branch. That schedule, in turn, depends upon the availability of additional funds for the Project's short-term capital requirements.166/

Negotiations Concerning Contested Charges to Water Contractors

Due to certain deficiencies in contract provisions and to some misunderstandings during negotiations between the Department and the contractors, nearly all payments made to the State have been accompanied by notices of contest regarding the accuracy of charges, and by requests for the retroactive adjustment of such charges -- all as provided for in the contracts.

Some contractors were uncertain as to whether they should, after filing such notices, proceed with claims against the State to prevent expiration of the statute of limitations. To require the contractors to proceed with claims merely to protect a legal position would be undesirable. Therefore, the Department has periodically extended the time that such notices could be filed on statements previously submitted. The current extension of time is to December 21, 1968 -- except for charges referred to in the next paragraph.167/

The State believes that the charges covered by extensions of time to protest charges should be limited to those not covered by the three so-called "settlement letters".168/ These letters have been signed by most of the water contractors. Accordingly, the time for protesting charges covered by the following letters terminated on March 1, 1968, and the Department will specifically reject all items protested in the future insofar as these letters cover such items:169/

166/ *See footnote 14, p. 8.*
167/ *Water Service Contractors Council Memo No. 356, "Extension of Time for Contest of Statements", February 15, 1968.*
168/ *See p. 68, Bulletin 132-67.*
169/ *Water Service Contractors Council Memo No. 373, "Protests of Statements of Charges", April 3, 1968.*

1. The "prior capital costs" settlement letter sent to all contractors on August 23, 1966, covering certain capital costs incurred prior to December 31, 1960.

2. The "interest calculation" settlement letter sent to all contractors on December 6, 1966, covering interest calculations under the Transportation Charge and the Delta Water Charge.

3. The "proportionate use" settlement letter sent to all contractors on May 9, 1967, covering proportionate use cost allocations under Article 24(b) of the contracts.

A task force including representatives of the Department, the State Water Contractors Audit Committee, and The Metropolitan Water District of Southern California, continued to discuss and analyze questions that have been raised in the following areas:

1. Determinations of items to be included in the capital and operating cost components pursuant to the Standard Provisions.

2. Distributions of costs to features and reaches of the Project.

3. Allocations of costs among project purposes.

During the past year, considerable attention was given to the method of allocating the reimbursable costs of California Aqueduct reaches from the Delta to Dos Amigos Pumping Plant between water conservation and water transportation. Agreement has not been reached on the allocation method as yet. During the coming year, the task force expects to work, also, on problems related to capital cost items from 1961 to 1966, the method of allocating costs among reimbursable and nonreimbursable purposes, and the method of distributing operations and maintenance costs among charge components.

Arrangements Concerning Contractor Delivery Structures

The tempo of activities concerning the location, financing, design, construction, and operation of delivery structures (turnouts) continues at a high level.

The Standard Provisions provide for design and construction of these structures by the State. However, specific exceptions to this procedure were allowed in the special provisions of four original contracts in those instances where the structures involved would be located on natural stream channels or project reservoirs.

During the past year, procedures were established whereby all water supply contractors could design and construct their own delivery structures under certain conditions.[170] These conditions include the following:

1. Appreciable economies are estimated to be realized by the contractors as compared with construction by the State.

2. The structure cannot be constructed by the State in time to make the first deliveries requested by the contractors -- however, this requirement may be waived if construction could not adversely affect the physical integrity of the Project in any event.

Regardless of the construction agency, the costs of delivery structures are financed by the concerned water supply contractors.

In a unique matter related to delivery structures, a preliminary permit was granted to the Berrenda Mesa Water District to install, temporarily, one pump unit each in the Las Perillas and Badger Hill Pumping Plants.[171] Agreements covering installation and operation of the temporary units are being negotiated.

The Berrenda Mesa Water District, served from the Coastal Branch, is a member unit of the Kern County Water Agency. As a result of orders placed by water users, the District's original request for project water deliveries during 1968 was increased by an additional 69,400 acre-feet. The Department's pump installation schedule could not accommodate such a significant increase. Therefore, the Department decided to allow the District to install temporary units in the pumping plants at the District's expense.

170/ *Department of Water Resources memorandum from John R. Eaton to Messrs. Steiner and Golze', "Aqueduct Turnout Construction", February 6, 1968, approved March 4, 1968.*

171/ *Letter from Alfred R. Golze' to Mr. William G. Catlin, General Manager, Berrenda Mesa Water District, August 22, 1967.*

A total of 88 delivery structures had been requested by the water supply contractors as of April 1, 1968. The following tabulation indicates the location and construction status of these structures:

Project Facility	Total number of delivery structures				
	Requested: by the Agencies	Requested: by the State	Under Construction: by the Agencies	Completed: by the State	Completed: by the Agencies
Oroville Area	5	1	3	0	0
North Bay (Phase I)	2	0	0	1	0
South Bay Aqueduct	15	0	1	12	0
California Aqueduct:					
North San Joaquin Division	4	0	1	0	3
San Luis Division	Served by the federal Central Valley Project				
South San Joaquin Division	34	16	0	18	0
Tehachapi Division	0	0	0	0	0
Mojave Division	15	2	0	0	0
Santa Ana Division	9	0	0	0	0
West Branch	2	1	0	0	0
Coastal Branch (Phase I)	2	0	0		0
TOTAL	88	19	5	33	3

Contract Administration Activities

Routine administrative activities include the establishment of water delivery schedules, preparation and transmittal of annual and monthly statements of water charges, review of boundary changes, and other recurring activities that will continue throughout the term of the contracts. However, there were several unique administrative actions during the past year, both on the part of the contractors and of the Department.

Deferral of Service to San Gorgonio Pass Water Agency. The service area of the San Gorgonio Pass Water Agency is located a considerable distance from the California Aqueduct. The Agency's water supply contract contains a special provision [Article 45(d)] whereby the Agency may elect to delay the initial delivery of project water until as late as 1980 under the following conditions:

1. If the Agency is unable to conclude an agreement with other water contractors providing for joint construction for all or part of a transmission facility to convey project water in 1972 from the California Aqueduct to its service area; and

2. If the Agency provides written notice to the State on or before October 1, 1967.

The Agency was unable to execute the agreement outlined in (1) and elected to delay the receipt of initial project water until 1980.[172/] Accordingly, the schedule of annual entitlements for the Agency is deferred eight years -- to commence in 1980 instead of 1972.

Grizzly Valley Pipeline Construction. The only project transportation facility to be located in and above the Delta is the Grizzly Valley Pipeline. This six-mile-long facility will consist of two aqueduct reaches -- the "Upper Reach", extending from Grizzly Valley Dam downstream to an elevation of about 5,600 feet, and the "Lower Reach", extending therefrom to about the City of Portola.

The water supply contract with the Plumas County Flood Control and Water Conservation District contains a special provision [Article 45(n)] whereby the State will construct the Upper Reach so that delivery of project water therefrom may commence no later than 1970 -- unless the District elects to construct both the Upper and Lower Reaches and notifies the State, in writing, of such election prior to December 31, 1967.

In November 1967, the District requested a 90-day extension of the deadline (to March 31, 1968) in order to allow sufficient time for the Economic Development Administration, United States Department of Commerce, to process the District's application for a grant. The Department allowed the requested time extension.[173/] In March 1968, the Department was informed that the District's grant had been approved. At the District's request, the Department

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172/ *Letter from Edward Fitzgerald Dibble, Manager and Secretary, San Gorgonio Pass Water Agency to Mr. James J. Doody, District Engineer, Southern District, "Exercise of Option Under Article 45(d) of the State Contract No. 160197", September 25, 1967.*

173/ *Letter from W. R. Gianelli to Mr. Robert H. Hunter, Chairman, Board of Directors, Plumas County Flood Control and Water Conservation District, December 14, 1967, approved by Mr. Hunter for the District December 18, 1967.*

allowed additional extensions of the deadline to April 30, 1968,174/ and to May 19, 1968,175/ to provide ample time for the District to arrive at a decision regarding the construction agency for the Pipeline.

By letter dated May 15, 1968,176/ the Department was notified that the District requests the State to proceed with construction of both the Upper and Lower Reaches, so that delivery of project water from both reaches may commence not later than 1970.

In order to take advantage of the grant by the Economic Development Administration, a joint exercise of powers agreement between the District and the State is under negotiation.

Initiation of Minimum O.M.P.&R. Component for California Aqueduct Reaches. With initial operation of the northerly reaches of the California Aqueduct, an administrative policy was established concerning initiation of the minimum operation, maintenance, power, and replacement component of the Transportation Charge (herein called "the Component").177/

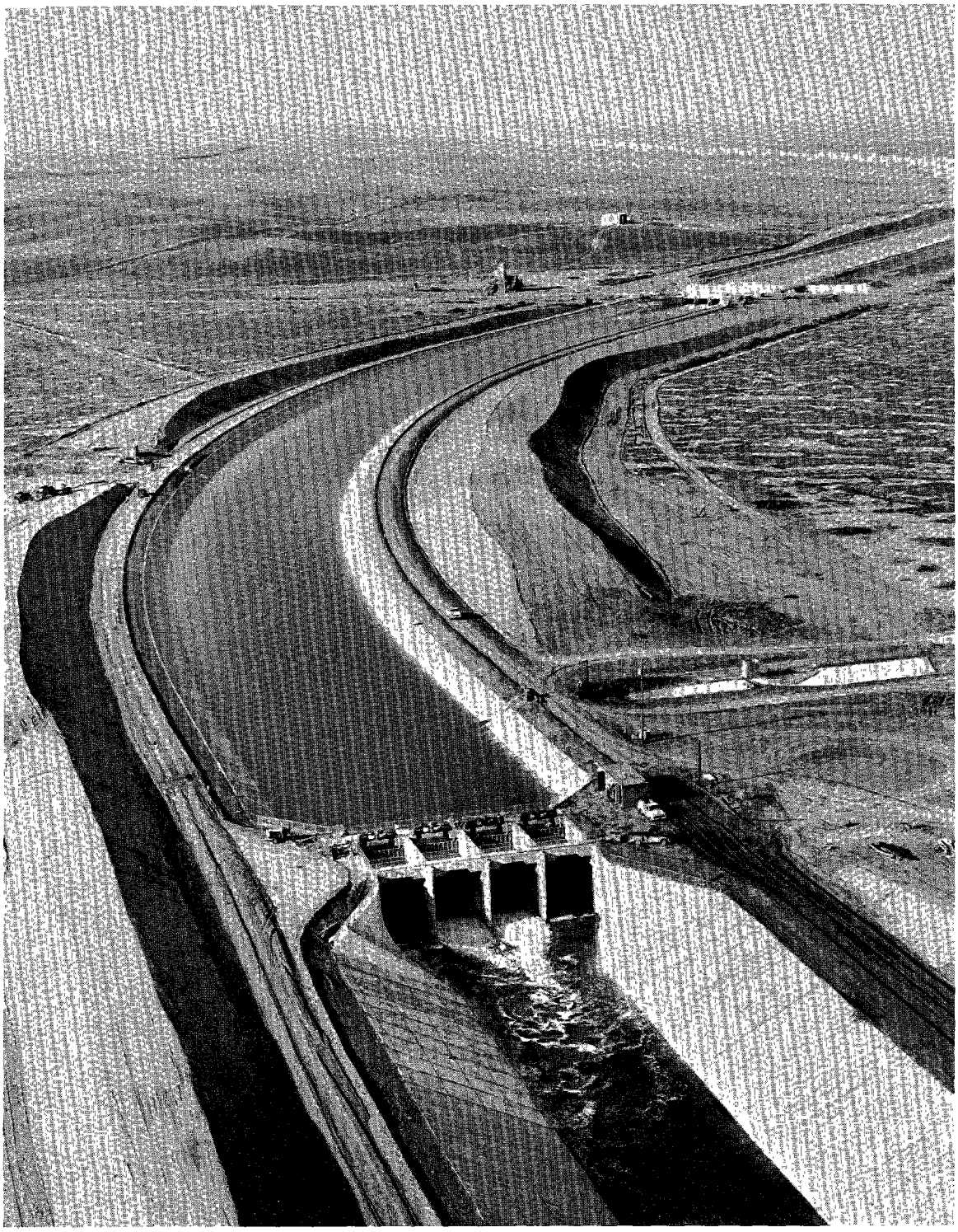
Pursuant to the water supply contracts,"the Component" shall reimburse the State for those operation, maintenance, power and replacement costs of project transportation facilities that are incurred irrespective of the amount of water delivered therefrom -- including general costs for such activities as water and power contracts negotiation and administration, operations planning and support, etc. These costs are incurred during construction as well as the operational period and are accounted for as capital costs until "the Component" commences. The contracts also provide that these costs shall be allocated among contractors in a similar manner as capital costs. However, an administrative policy was required to define the specific time when these costs shall cease to be amortized over a 50- to 75-year capital recovery period and commence to be reimbursed, annually, through "the Component".

174/ *Letter from W. R. Gianelli to Mr. Robert H. Hunter, dated April 2, 1968.*

175/ *Letter from John R. Teerink to Mr. Adolph Moskovitz; Kronick, Moskovitz, and Vanderlaan; April 26, 1968.*

176/ *Letter from Adolph Moskovitz to Honorable William R. Gianelli, May 15, 1968.*

177/ *Department of Water Resources memorandum from John R. Eaton to Messrs. Steiner and Teerink, "Minimum Operation, Maintenance, Power, and Replacement Component of the Transportation Charge", January 10, 1968, approved January 30, 1968.*



California Aqueduct (looking north)
with Coastal Branch (on left) and
Avenal Gap Overchute (in background)

The Standard Provisions inadvertently contain conflicting provisions regarding initiation of "the Component" (emphasis added):

> "Payments by the Agency under the minimum operation, maintenance, power, and replacement component of the Transportation Charge shall commence for each aqueduct reach in the year following the year in which construction of that reach is completed. [Article 29(c)]
>
> ***
>
> "The Agency shall pay to the State, on or before the first day of each month of each year, commencing with the year of initial water delivery to the Agency, one-twelfth (1/12) of the sum of the charges to the Agency for the year under the minimum operation, maintenance, power, and replacement components of the Delta Water Charge and Transportation Charge...." [Article 29(g)]

This conflict did not affect charges paid for service from the South Bay Aqueduct in previous years since the water contracts with the three concerned agencies contain a special provision whereby "the Component" shall commence in the year following the year of reach completion or in the year of initial water delivery, whichever is earlier.

Under the newly established administrative policy and contract interpretation:*178/*

1. Payments by the respective contractors shall commence for each aqueduct reach in the year following the year in which construction of that reach is completed, pursuant to Article 29(c) of the Standard Provisions.

2. The conflicting provision of Article 29(g), whereby payments under the Delta Water Charge and Transportation Charge shall commence with the initial water delivery to the respective contractors, shall be considered in error to the extent that it specifies when payments are to commence under the Transportation Charge.

178/ See letter from W. R. Gianelli to Mr. Thomas E. Laubacher, Chairman pro tem, Ventura County Flood Control District, March 14, 1968.

3. For purposes of Article 29(c), construction of an aqueduct reach shall be considered "completed" when the physical capability exists throughout the reach to convey interim or project water from or through the reach at rates of flow sufficient to permit delivery of annual entitlements.

Under this criterion, "the Component" was initiated for reaches of the California Aqueduct from the Delta to Kettleman City (Reaches 1 through 7) effective January 1, 1968.[179/]

Power Contract Management

Power contract activities during the past year included completion of (1) those electric power purchase and transmission contracts necessary to deliver entitlements under the water contracts with power at the lowest possible cost, and (2) the power sale contract to maximize project revenues from the sale of high-value "onpeak" Oroville-Thermalito power. Management of these completed contracts is becoming increasingly important. Negotiations underway include modification of the contract for cooperative power development of the West Branch with the City of Los Angeles,[180/] and completion of arrangements with the Bureau of Reclamation for use of the San Luis Pumping-Generating Plant so as to permit maximum benefits therefrom to the joint owners. Negotiations are commencing for a power supply particularly suited for pumping surplus project water at least cost. Studies on alternative power sources and power developments that offer potential savings in power costs will continue and negotiations will be entered into for the use of such sources that are determined to be advantageous, as provided for in the "Suppliers Contract".[181/]

Completed Power Purchase Contracts

Agreement on contracts for the purchase and transmission of Northwest power -- including both Canadian Entitlement Power and Bonneville Power Administration surplus

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179/ *Department of Water Resources memorandum from P. A. Towner to Mr. William R. Gianelli, April 15, 1968 and attached "Declaration of Operational Reaches, December 31, 1967".*

180/ *See p. 12, Bulletin 132-67.*

181/ *See pp. 12 and 13, Bulletin 132-67.*

power -- had been reached late in 1966.[182] Execution was delayed pending approval by Congressional committees. On April 1, 1968, the Project received initial deliveries of Northwest power.

Canadian Entitlement Power Contracts. Three contracts for the supply of Canadian Entitlement Power were signed by the Department separately with the Cities of Seattle[183] and Tacoma,[184] Washington, and the Puget Sound Power and Light Company.[185] These contracts all expire on March 31, 1983, and are of identical format -- but differ in the amounts of power to be obtained under each. In total, the contracts assign the following amounts of Canadian Entitlement Power to the State: 25,000 kilowatts from April 1, 1968, through March 31, 1969; 300,000 kilowatts from April 1, 1969, through March 31, 1978; and 150,000 kilowatts from April 1, 1978, through March 31, 1983. The State's cost for this power is estimated to be $6.86 per kilowatt-year and 2.56 mills per kilowatt-hour, delivered to the California-Oregon border. This cost includes a delivery charge of $0.125 per kilowatt-month assessed by the Bonneville Power Administration which is a party to each of the contracts.

Bonneville Power Administration Contract. The contract with the Bonneville Power Administration provides for the State's purchase of surplus energy and surplus peaking capacity during the 20-year period ending on August 30, 1986--on a "when and if available" basis.[186] Surplus energy will

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182/ *See pp. 99-102, Bulletin 132-66, for a complete description of these contracts. (See also Water Service Contractors Council Memo No. 235, "Contracts for Northwest Power", October 5, 1966.)*

183/ *"Assignment and Agreement Relating to Canadian Entitlement Exchange Agreement", DWR 856122, executed by the City of Seattle, Washington, and the State of California, October 30, 1967.*

184/ *"Assignment and Agreement Relating to Canadian Entitlement Exchange Agreement", DWR 856123, executed by the City of Tacoma, Washington, and the State of California, October 30, 1967.*

185/ *"Assignment and Agreement Relating to Canadian Entitlement Exchange Agreement", DWR 856124, executed by the Puget Sound Power and Light Company and the State of California, October 30, 1967.*

186/ *"Power Sales Contract executed by the United States of America Department of the Interior acting by and through the Bonneville Power Administrator and the State of California acting by and through the Department of Water Resources", DWR 855526, September 5, 1967.*

cost the State 2 mills per kilowatt-hour, delivered to the California-Oregon border, while the energy associated with surplus peaking capacity may be required to be returned to the Bonneville Power Administration.

Power Transmission Contract. Northwest power will be delivered from the California-Oregon border to bulk delivery points near project pumping plants over the Extra High Voltage (EHV) Intertie under the terms of a contract[187/] signed by the Department and the California Power Pool Companies.[188/] This contract extends to January 1, 2005. In addition to the wheeling agreement, the contract provides for the purchase, by the Companies, of any Canadian Entitlement Power purchased by the State in advance of the need thereof.

Supplemental Power Contracts. A letter agreement signed November 18, 1966,[189/] between the Suppliers[190/] and the Department covers the disposition of Oroville-Thermalito power prior to the time it is sold under the long-term power sale contract. This disposition includes use at project pumping plants and in transmission to those plants, "banking" in an interim energy adjustment account, or purchase at $0.00259 per kilowatt-hour.

A letter agreement signed November 28, 1967 between the Pacific Gas and Electric Company and the Department established the terms and conditions whereby the Company will supply the Department, prior to April 1, 1969, the electric power needed at the Edward Hyatt and Thermalito Powerplants for interim operation and testing and for pumped storage operation of the Thermalito Powerplant.[191/] This agreement further

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187/ *"Contract Between State of California and California Companies for the Sale, Interchange and Extra High Voltage Transmission of Electric Capacity and Energy", DWR 855524, August 1, 1967.*

188/ *Pacific Gas and Electric Company, Southern California Edison Company and San Diego Gas and Electric Company.*

189/ *See pp. 16, 72, 73, Bulletin 132-67. (See also Water Service Contractors Council Memo No. 275 "Power Contract and Agreement", April 12, 1967.)*

190/ *Pacific Gas and Electric Company, Southern California Edison Company, San Diego Gas and Electric Company and the City of Los Angeles Department of Water and Power.*

191/ *Letter from Robert H. Gerdes, Pacific Gas and Electric Company, to William R. Gianelli, Director, Department of Water Resources DWR 856986, November 28, 1967. (See Water Service Contractors Council Memo No. 351,"Oroville-Thermalito Electric Power Generation and Energy Requirements", February 7, 1968.)*

provides that the obligations of the Suppliers under the Letter Agreement of November 18, 1966, are assumed by the Company and that the obligations of the parties under Paragraphs 1 and 2 of the Letter Agreement of November 18, 1966 will be implemented and discharged by: (1) payment by the State to the Company, on a monthly basis, for all Oroville-Thermalito energy delivered to project pumping plants at the rate of 7 mills per kilowatt-hour during onpeak periods, and 3 mills per kilowatt-hour during offpeak periods; and (2) payment by the Company to the State, on a monthly basis, an amount equal to (1) above for the same months for all energy received from the State by the Company at its Table Mountain substation.

Completed Power Sale Contract

The Oroville-Thermalito Power Sale Contract was executed on November 29, 1967, as noted in Chapter I.192/

Under the Contract, commencing April 1, 1969, the Department will deliver all Oroville-Thermalito generation, less transmission losses and energy for powerplant use, to the California Power Pool Companies at the Pacific Gas and Electric Company's Table Mountain substation and the Companies will furnish any energy for the pumped-storage operation as scheduled by the Companies and for powerplant use when the Edward Hyatt and Thermalito Powerplants are not generating.

Term of Contract. The Contract became effective with the sale of Series "A" revenue bonds and the delivery of the proceeds therefrom to the Department on April 24, 1968.

The Contract will terminate either 50 years from the date of execution or on the date when all those bonds secured by revenues under the Contract have been retired -- whichever date is later. The rights and obligations of Southern California Edison Company and San Diego Gas and Electric Company will terminate, however, on October 31, 1984. From that date to the termination of the Contract, all rights and obligations will be assumed by Pacific Gas and Electric Company.

Payments Before the Full Operation Date. The "full operation date" is defined by the Contract as the date on or after April 1, 1969, when all generation facilities and all essential features necessary for making energy

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192/ *See p. 19.*

deliveries at Table Mountain at full generating capability, if all units were in service, have become operable and Lake Oroville storage is equal to or exceeds 3,000,000 acre-feet at the beginning of April or other specified amounts for other specified dates. (The 3,000,000 acre-feet of storage in April is a reasonable amount if average water year conditions prevail through March 1969.)

If the "full operation date" is later than April 1, 1969, then the Companies will pay for capacity and energy produced between April 1, 1969, and the "full operation date". During such a period, the Companies will pay 2.59 mills per kilowatt-hour for net energy delivered and $1.14 per kilowatt per month for firm generating capability -- provided that, if the firm generating capability is less than 310,000 kilowatts, payment by the Companies will be reduced at the rate of $2.00 per kilowatt per month for each kilowatt that the generation is less than 310,000 kilowatts. (Studies indicate that generating capability will exceed 310,000 kilowatts if storage in Lake Oroville is at least 1,100,000 acre-feet.)

Payments After the Full Operation Date. Commencing on the "full operation date", the Companies are obligated to pay $8,075,000 to the Department semiannually, until termination of the Contract. The obligation of the Companies to make such semiannual payments is not dependent on the ability of the Department to deliver, or the ability of the Companies to take, Oroville-Thermalito power -- nor can the Companies offset any moneys owed them by the Department against this payment obligation.

The Department will pay the Companies for any reduction in the generation or transmission capability of the Oroville-Thermalito facilities due to physical damage from any cause -- except acts of war or nuclear incident. Such compensation will be at a rate of $0.0405 per kilowatt per day, or fraction thereof, up to a maximum of $29,362.50 for any day or $10,000,000 for any single occurrence resulting in such a reduction. However, the Companies will not be entitled to such compensation for the first $750,000 for any reduction resulting from either flood or earthquake or for the reduction during the first 25 days resulting from any other cause.

The semiannual payments of $8,075,000 are based on an estimated annual net energy generation of 2.1 billion kilowatt-hours. The Contract establishes energy adjustment accounts to record the amounts that the computed actual annual net energy generation is greater or less than 2.1 billion kilowatt-hours.

If the net energy in any 12-month period is more than 2.1 billion kilowatt hours, the excess will be entered as a positive number in two energy adjustment accounts, 43.7 percent in a Southern California Edison Company-San Diego Gas and Electric Company account and 56.3 percent in a Pacific Gas and Electric Company account. In like manner, if net energy is less than such amount, the deficiency will be so entered as negative numbers in these two accounts. Amounts of energy in the energy adjustment accounts will accumulate "interest" at the rate of 6 percent compounded annually. The Department may clear any negative balance at any time by making a cash payment -- or may accept a cash payment from the Companies for any excess energy enterable in the Pacific Gas and Electric Company's account. The Department must take a cash payment for excess energy when the positive balance exceeds 4.5 billion kilowatt-hours. Cash settlements for either positive or negative balances will be made at the rate of 2.59 mills per kilowatt-hour. (The average net generation capability of the Edward Hyatt and Thermalito Powerplants has been estimated at 2.3 billion kilowatt-hours annually, based on historic water flow in the Feather River during a 64-year period.)

The Contract is cancellable in whole or in part on five years' notice if application for such power is made by the State or any financially responsible state agency on terms that will assure the same revenue to the Department as those that would accrue under the Contract.193/ In the case of partial cancellation, the rights and obligations of the Companies and the Department will be reduced accordingly.

Estimates of Project Power Requirements and Production

In addition to Oroville-Thermalito power, project power will also be generated in the Cottonwood, Devil Canyon, Pyramid, and San Luis Obispo Powerplants, and will include a share of the San Luis Pumping-Generating Plant production. In addition, a project power supply, equivalent to that which would have been generated in a state-constructed Castaic Powerplant, will be provided by the City of Los Angeles under the Cooperative West Branch Power Development.

Excluding Oroville-Thermalito power, project power generation will be used to help meet the Project's pumping requirements. The capacities and anticipated annual energy outputs of each project power source will total approximately 690,000 kilowatts of capacity and 3,375 million kilowatt-hours of energy during years of full project operation. Table 4 presents the estimated annual generation to be realized from all project powerplants.

193/ *See California Water Code Sections 11670 and 11671.*

Power to meet the remaining project pumping requirements after using that provided by project powerplants will come from several sources and will be utilized in varying amounts and combinations dependent on availability, cost and need. Sources presently contracted for include: Canadian Entitlement power, Central Valley Project power, surplus energy from the Bonneville Power Administration, and power from the "Suppliers".

The flexible and varied use of power sources is illustrated on Figure 3. Shown thereon are the Project's estimated monthly onpeak power requirements and contemplated sources of power supply during the six-year period, 1968-1973. The monthly onpeak demand represents the maximum demand created by project pumps during onpeak hours. The different shaded areas depict the contemplated use of power from the various sources.

Full project pump operations will require a total of about 2 million kilowatts of power capacity and 13 billion kilowatt-hours of energy each year. Estimated annual project energy requirements of each pumping plant of the State Water Project are shown in Table 5 -- excluding those for the pumpback operation of Edward Hyatt and Thermalito Powerplants.

Negotiation of Future Power Contracts

In May 1967, informal discussions were authorized with the Suppliers preparatory to initiating negotiations for a power supply particularly suited to pumping surplus water.194/ Such an additional supply is desirable since completed power purchase contracts require advance commitments that should be unnecessary for power to be used for pumping surplus water. Surplus water supplies and demands cannot be predicted sufficiently far in advance to make these firm commitments.

All power suppliers who have contracted with the Department are members of a group called the "Western Systems Coordinating Council". The Council is composed of practically all private and public power agencies, including the Department, located in the Western United States. By participating in the Council, the Department expects to keep abreast of developments concerning power resources and powerloads within this multi-state area and, hopefully, to obtain and use excess power when and if it is available. Conceivably, the Department could take advantage of excess power from areas as far removed from California as the federal Missouri Basin Project.

194/ *Department of Water Resources memorandum from J. K. Cummings to Mr. William R. Gianelli, April 25, 1967. approved May 16, 1967.*

Planning and Support of Project Operations

The past year was one of major shift from operations planning to project operations and maintenance activities. The Department's new and growing operations and maintenance force is progressively assuming new responsibilities with the completion of construction of project features. As of April 1, 1968, this force included 447 people -- about 53 percent of the expected total of about 850.

Operations and Maintenance Activation

A major step was taken, when on August 2, 1967, Director Gianelli set in motion actions to create a centralized Division of Operations and Maintenance. Studies with this objective were made during the remainder of the year and the Director officially created the new division effective January 1, 1968.*195/*

Sacramento Control Center. Work continued on the South Bay Aqueduct Control System Model. Aetron completed field installation of the equipment. Philco-Ford Corporation began installation of the equipment at the Sacramento Control Center. Pacific Telephone completed installation of the communications equipment. The UNIVAC Division of Sperry Rand Corporation delivered and installed the 418 Computer System. Compatibility testing and system integration was begun. Department personnel continued preparations for computer control and for the test and evaluation of the Model.

Field Operations and Maintenance Centers. A Department report was approved, in October 1967, that recommended the construction of the Five Points Operations and Maintenance Subcenter of the San Luis Field Division.*196/* The Subcenter will be located about 74 miles south of O'Neill Forebay at the intersection of the California Aqueduct and the Fresno-Coalinga Road -- immediately south of the bifurcation of the planned federal Pleasant Valley facilities.

In August 1967, a decision was made concerning the location of an operations and maintenance center that would serve those facilities in the San Joaquin Field Division

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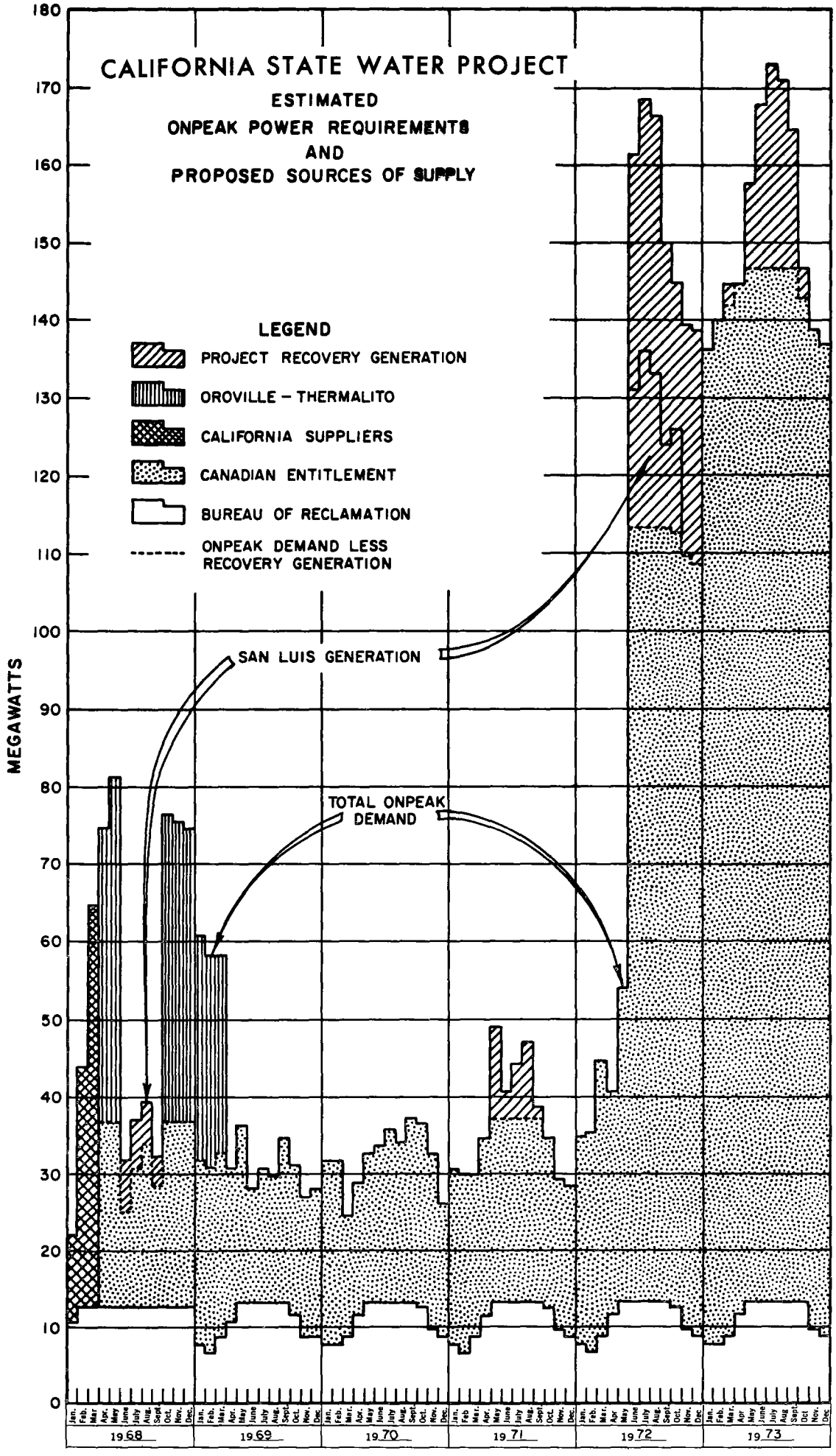
195/ See footnote 18, p. 9.

196/ Department of Water Resources memorandum by Carl L. Stetson, District Engineer, San Joaquin District to Messrs. Teerink, Golze', and Gianelli, "Report on Proposal to Construct Five Points Operation and Maintenance Subcenter", August 31, 1967, approved October 2, 1967.

FIGURE 3


CALIFORNIA STATE WATER PROJECT
ESTIMATED
ONPEAK POWER REQUIREMENTS
AND
PROPOSED SOURCES OF SUPPLY
LEGEND
PROJECT RECOVERY GENERATION
OROVILLE – THERMALITO
CALIFORNIA SUPPLIERS
CANADIAN ENTITLEMENT
BUREAU OF RECLAMATION
ONPEAK DEMAND LESS RECOVERY GENERATION
SAN LUIS GENERATION
TOTAL ONPEAK DEMAND
MEGAWATTS
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.
1968
1969
1970
1971
1972
1973

between State Highway 119 and Tehachapi Tunnel No. 1.[197/] The facilities within the Field Division between Kettleman City and State Highway 119 will be served by the Lost Hills Operations and Maintenance Subcenter, established under a prior decision made on December 22, 1966. The new center will be located near the Wind Gap Pumping Plant and will be the headquarters for the entire San Joaquin Field Division. All operations and maintenance for the Buena Vista, Wheeler Ridge, Wind Gap, and A. D. Edmonston Pumping Plants will be performed from the new center.

In February 1968, authorization was obtained to design and construct essential operations and maintenance facilities for the Southern California Field Division.[198/] An operations and maintenance center will be located near Castaic Dam. Subcenters eventually will be constructed adjacent to the Pearblossom Pumping Plant and near Perris Dam.

Operating Agreements

Activities continued concerning the completion of agreements with federal, state, and local agencies that will define the parameters governing the day-to-day operation of project facilities.

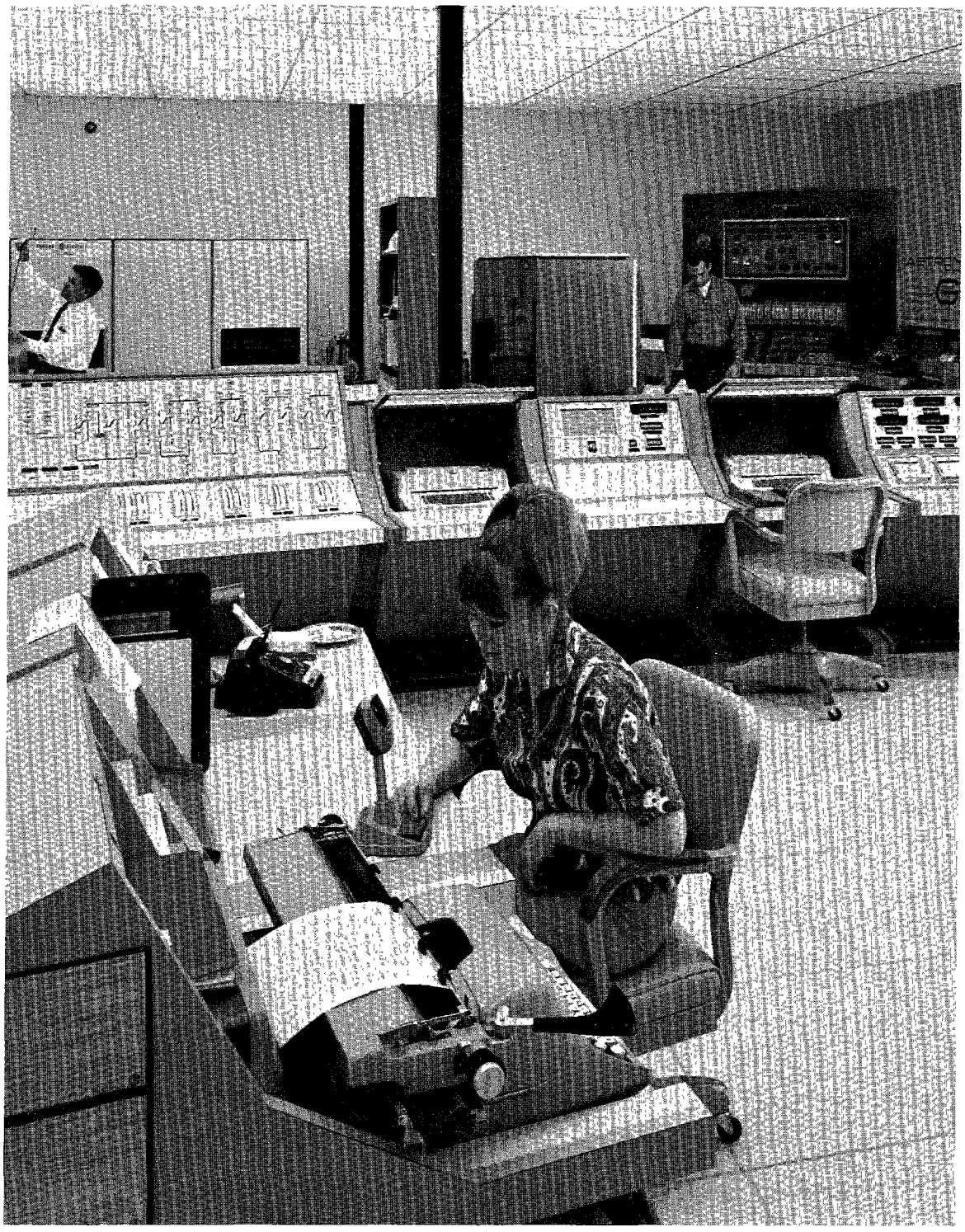
Interim Letter of Agreement for Operation of the San Luis Division. In February 1968, an interim letter of agreement was executed concerning the operation of joint federal-state facilities of the San Luis Division.[199/]

The agreement will remain in effect until the formal agreement for overall coordinated operation of the State Water Project and the federal Central Valley Project and the supplemental agreement for operation of the San Luis Division have been signed.

197/ Department of Water Resources memorandum from Carl L. Stetson to Alfred R. Golze', William R. Gianelli, "Recommendations for Location of South San Joaquin Operation and Maintenance Center", June 12, 1967, approved August 9, 1967.

198/ Department of Water Resources memorandum from James J. Doody, District Engineer, to Messrs. Golze', Teerink, Gianelli, "Recommended Location, Sizing and Schedule for Southern California Field Division Operation and Maintenance Facilities", January 11, 1968, approved February 23, 1968.

199/ Letter from Mr. R. J. Pafford, Jr., Regional Director, Region 2, Bureau of Reclamation, to Mr. William R. Gianelli, February 9, 1968, executed February 26, 1968.



Delta Field Division Control Center

The agreement reasserts that the Bureau of Reclamation's Project Engineer is responsible for present operations and that operating schedules are the responsibility of the federal Central Valley Project's control center. The agreement also establishes the criteria for the eventual transfer of operational responsibility to the State Water Project.

San Luis Operating Agreement. This agreement between the Bureau of Reclamation and the Department is essentially in completed form. Final problems are being worked out in the overall agreement for coordination of the two projects.

Agreement for Coordination of the State Water Project and the Federal Central Valley Project. Currently, attention is directed to the development of formulae for sharing of the surplus waters in the Delta between the two projects. Preliminary formulae have been developed and are being tested against various trial conditions of water supply and development. This agreement is expected to be completed in 1968.

Coordinated Operation of All Federal and State Projects in California. This is a separate negotiation from the coordination of the State Water Project and the federal Central Valley Project and involves the Corps of Engineers, the Bureau of Reclamation, and the Department. Discussions have been completed at the staff level. Staff members of the three agencies are working on a proposal to establish a coordinating board consisting of the District Engineer of the Corps, the Regional Director of Reclamation, and the Director of Water Resources. Through this board, the three agencies would develop and approve, each spring, an annual plan of operation.

Flows for Preserving Fish Habitat below Lake Oroville. In July 1967, the criteria for water releases from Lake Oroville for preserving fish habitat in the downstream channel of the Feather River were established between the Departments of Water Resources and Fish and Game.200/ The negotiation of the agreement involved considerable time and study. The magnitude of such releases influences the Oroville-Thermalito power production capability.

New Legislation

The enactment of Senate Bill 958 of the 1967 Regular Session will facilitate emergency repairs of project facilities, if and when needed.201/ The new law amended the State Contract Act and authorized the Department to make emergency repairs by day labor or by contract upon informal bids, or a combination thereof, in case of emergency due to the failure or threat of failure of any dam, reservoir, aqueduct, or other water facility, or facility appurtenant thereto.

200/ *"Agreement and Stipulation Concerning the Operation of the Oroville Division of the State Water Project", July 19, 1967.*
201/ *Calif. Stats of 1967, Chapter 456.*

CHAPTER IV. PROJECT OPERATIONS AND MAINTENANCE ACTIVITIES

Daily operations and maintenance activities for project facilities are recorded in a series of monthly reports.202/ This chapter summarizes those activities for calendar year 1967, as of December 31, 1967.

The Department's operations and maintenance of project facilities were conducted under the direct responsibility of three of the five established Field Divisions: Oroville, Delta, and San Luis.203/ Figure 4 shows the location of those facilities included in each Field Division's responsibility, operations and maintenance centers and subcenters, and project facilities in operation as of the beginning and end of 1967, respectively.

Project facilities in operation throughout all of 1967 include Frenchman Dam and Lake, Antelope Dam and Lake, and Grizzly Valley Dam and Lake Davis in the Upper Feather Area. These were operated by the Oroville Field Division. The South Bay Aqueduct, exclusive of the Del Valle Branch features currently under construction, was operated by the Delta Field Division. O'Neill Dam and Forebay, Los Banos Creek Detention Dam and Reservoir, and Little Panoche Creek Detention Dam and Reservoir in the San Luis Division of the California Aqueduct were operated by the San Luis Field Division.

During 1967, additional project facilities within the responsibility of all three Field Divisions became operational on a limited basis, including: Oroville Dam and Lake Oroville and Thermalito Diversion Dam, Power Canal, Forebay Dam and Forebay, and Afterbay Dam and Afterbay in the Oroville Field Division; the Delta Pumping Plant (Pump Unit Nos. 1 and 2), enlarged Bethany Reservoir, the California Aqueduct between the Delta and O'Neill Forebay in the Delta Field Division; the San Luis Pumping-Generating Plant, San Luis Dam and Reservoir, the Dos Amigos Pumping Plant (Pump Unit No. 4) and the California Aqueduct south to Kettleman City in the San Luis Field Division.

202/ *Department of Water Resources Bulletin (unnumbered), "State Water Project: Operations, Maintenance, Revenues, Expenditures", a monthly series initiated on January 1, 1965. (Distributed each month by Water Service Contractors Council Memo.)*

203/ *See footnote 16, p. 9.*

By the end of 1967, there was water in all reaches of the California Aqueduct between the Sacramento-San Joaquin Delta and Kettleman City.

Upper Feather Area

Three of the five authorized dams and reservoirs on the upper tributaries of the Feather River were operational throughout 1967: Frenchman Dam and Lake, Antelope Dam and Lake, and Grizzly Valley Dam and Lake Davis. The monthly operation of these facilities is summarized in Table 6.

Frenchman Dam and Lake

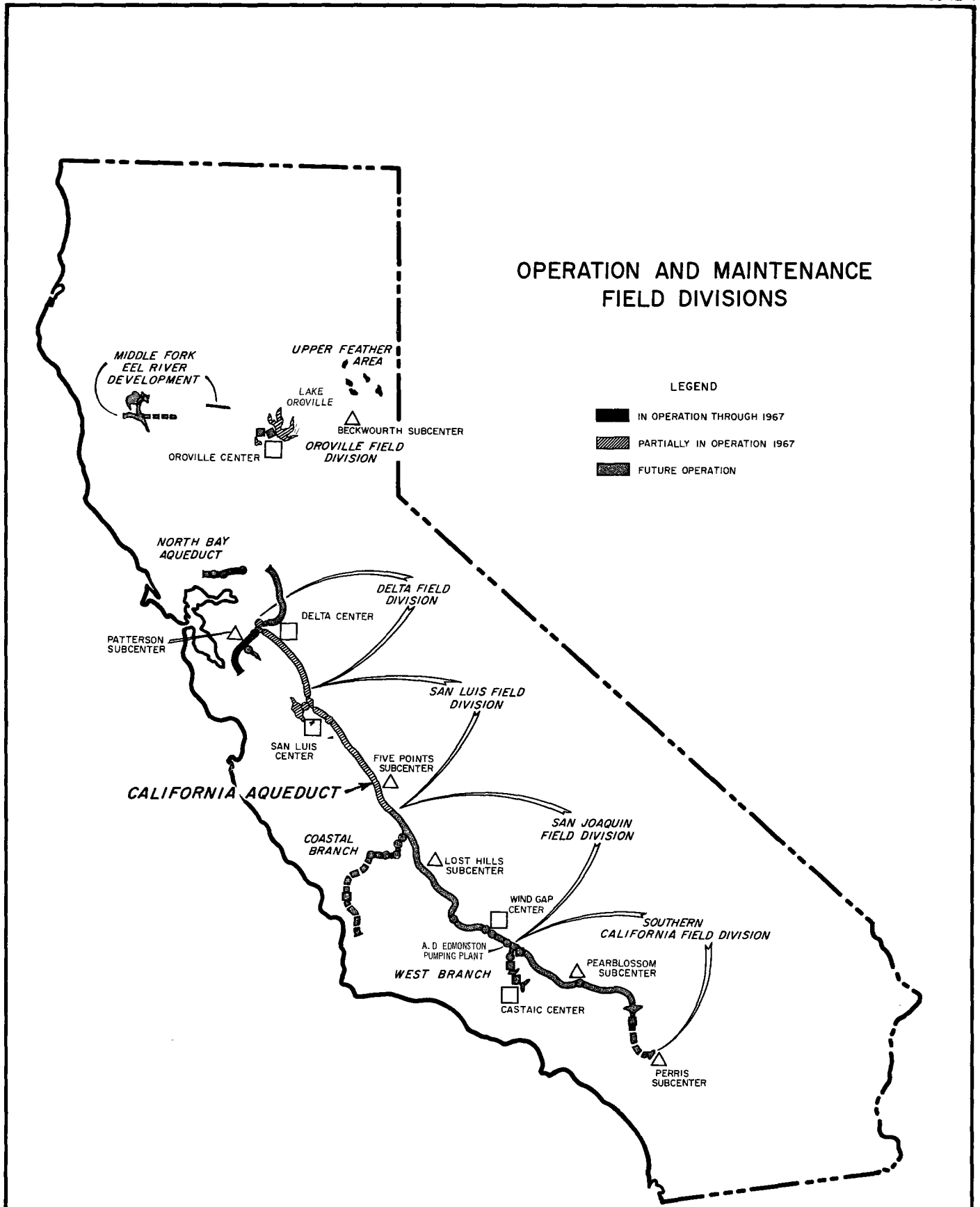
Frenchman Dam and Lake, with a gross storage capacity of 55,417 acre-feet, was operated by the Department to supply irrigation water to the Last Chance Creek Water District and to enhance recreational opportunities in the vicinity of the Lake and along the downstream channel of Little Last Chance Creek.

Recreation developments located at the Lake were operated and maintained by the United States Forest Service, Plumas National Forest. Recreation developments included 77 camp units, 25 picnic units, three boat launching lanes, and water and sanitation systems. All types of boating uses were permitted on the Lake. Access roads are shown on the maps in Appendix "C".

During 1967, the Lake received 306,900 visitor-days of use by recreationists, as reported by the Plumas National Forest -- 53,400 visitor-days less than in 1966. Between April 1, 1967, and April 1, 1968, the Department of Fish and Game will plant the Lake with 40,000 Eastern Brook Trout fingerlings (between one to one and one-half inches in length), 26,500 Kamloop Trout fingerlings, and 7,000 Rainbow Trout subcatchables (from one and one-half to six inches in length). Game wardens reported angling success to be noticeably less in 1967 than in 1966, though no records were kept of numbers or average size of trout caught.

Water Operations. Frenchman Lake contained 38,500 acre-feet of water in storage on January 1, 1967. Inflow to the Lake during the year totaled 52,887 acre-feet. The Lake filled on April 19. A total of 29,890 acre-feet had wasted over the spillway before such spilling ceased on July 18. Total regulated releases for the year amounted to 9,544 acre-feet. Annual evaporation and seepage losses were estimated to be 5,321 acre-feet. Storage on December 31, 1967 was 46,652 acre-feet.

FIGURE 4


OPERATION AND MAINTENANCE
FIELD DIVISIONS
LEGEND
IN OPERATION THROUGH 1967
PARTIALLY IN OPERATION 1967
FUTURE OPERATION
MIDDLE FORK
EEL RIVER
DEVELOPMENT
UPPER FEATHER
AREA
LAKE
OROVILLE
BECKWOURTH SUBCENTER
OROVILLE CENTER
OROVILLE FIELD
DIVISION
NORTH BAY
AQUEDUCT
DELTA FIELD
DIVISION
DELTA CENTER
PATTERSON
SUBCENTER
SAN LUIS FIELD
DIVISION
SAN LUIS
CENTER
FIVE POINTS
SUBCENTER
CALIFORNIA AQUEDUCT
SAN JOAQUIN
FIELD DIVISION
COASTAL
BRANCH
LOST HILLS
SUBCENTER
WIND GAP
CENTER
SOUTHERN
CALIFORNIA FIELD DIVISION
A. D EDMONSTON
PUMPING PLANT
WEST BRANCH
PEARBLOSSOM
SUBCENTER
CASTAIC CENTER
PERRIS
SUBCENTER

The fourth annual interim water supply contract with the Last Chance Creek Water District was executed on March 10, 1967. Under this contract, the District paid $14,000 to the State for regulation and delivery of 12,000 acre-feet of water. Actual deliveries to the District totaled 8,380 acre-feet in 1967.

General Maintenance. An observation well (No. 2) was drilled on the downstream face of Frenchman Dam to permit measurements of hydrostatic pressures within the drain "chimney" of the embankment.

The regular, annual inspection of the Dam by the Department's Division of Safety of Dams was made June 5, 1967. In addition, special embankment inspections were made September 5 and November 10, 1967. Upon completion of each inspection, the Dam and Lake were deemed to be in satisfactory and safe condition.

Antelope Dam and Lake

Antelope Lake, with a gross storage capacity of 22,513 acre-feet, was operated by the Department to enhance the recreational opportunities in the vicinity of the Lake and along the downstream channel of Indian Creek. Reservoir releases were also made to satisfy downstream water rights entitlements.

Between April 1, 1967, and April 1, 1968, the Department of Fish and Game will plant 148,500 Rainbow Trout fingerlings in the Lake.

Recreational developments at Antelope Lake included 155 camp units, five boat launching lanes, and water and sanitation systems. All types of boating uses were permitted on the Lake. The recreation developments were operated and maintained by the United States Forest Service, Plumas National Forest. In 1967, the Lake received a total of 95,065 visitor-days of use by recreationists -- about 9,900 visitor-days less than in 1966.

Water Operations. Antelope Lake contained 18,576 acre-feet of water in storage on January 1, 1967. Inflow to the Lake totaled 58,844 acre-feet. The Lake filled March 12, and a total of 47,597 acre-feet wasted over the spillway by August 11, when such spilling ceased. Regulated releases from the Lake to satisfy downstream water rights entitlements and minimum streamflow requirements totaled 5,024 acre-feet. Annual evaporation and seepage losses were estimated to be 3,033 acre-feet. Lake storage on December 31, 1967, was 21,766 acre-feet.

A brief investigation of the spring runoff turbidity and sediment conditions in Antelope Lake was conducted during May and June. The results of the investigation indicated that large quantities of sediment were carried into the reservoir during the study period, and that the mass flow rates were different for the two major tributaries entering the reservoir. Storm flow turbidity peaks were effectively reduced by the reservoir.

General Maintenance. A system of reference points was established along the spillway to monitor any change in a hairline crack that appeared in the fall of 1967. Thus far, there has been no enlargement or extension of the crack. Measurements of the hydrostatic pressures in embankment observation wells, drilled during 1965 when excessive seepage was noted, were continued at monthly intervals during 1967. There has been no significant change in these pressure measurements. The Dam was inspected September 5, 1967, by the Department's Division of Safety of Dams, and was deemed to be in a satisfactory and safe condition.

Grizzly Valley Dam and Lake Davis

Lake Davis, with a gross storage capacity of 84,151 acre-feet, will be operated to enhance recreational opportunities in the vicinity of the Lake and along the downstream channel of Big Grizzly Creek and to supply project water to the Plumas County Flood Control and Water Conservation District. The Lake was operated in 1967 to satisfy water rights entitlements downstream from the Dam.

The Department of Fish and Game planted 652,000 Rainbow Trout fingerlings, 41,000 Cutthroat Trout fingerlings and 24,300 Kamloop Trout fingerlings in May 1967. About 920,000 Rainbow Trout fingerlings had been planted earlier in the year.

Lake Davis was not open for recreation use during 1967 to allow these fingerlings to grow and because recreation developments had not been completed. A boat ramp was completed and construction had commenced on a campground by the end of 1967. These initial recreation developments were built by the Department of Parks and Recreation under a cooperative arrangement with the United States Forest Service.

Water Operations. Lake Davis began storing water on December 5, 1966, and contained 1,656 acre-feet by January 1, 1967. Inflow to the Lake during 1967 totaled 60,124 acre-feet. Estimated evaporation and seepage losses during the year amounted to 9,558 acre-feet. Total regulated releases

were 2,978 acre-feet and no water wasted over the spillway. Lake storage on December 31, 1967, was 49,244 acre-feet.

During July, an investigation was made of the turbidity of the water in Lake Davis and in Big Grizzly Creek below the Dam. This work was done in response to complaints of excess turbidity. Sampling in Lake Davis and at selected downstream locations indicated that while lower levels of the Lake were somewhat turbid, the greatest contributing source of the problem was surface runoff downstream from the Dam.[204/] This was confirmed by a subsequent study by the Department of Fish and Game.[205/]

General Maintenance. The Dam was inspected at frequent intervals by the Department's Division of Safety of Dams as the initial filling of the Lake continued in 1967. Inspections were made February 9, June 5, August 30, and October 20, 1967. Upon completion of each inspection the Dam was deemed to be in satisfactory and safe condition.

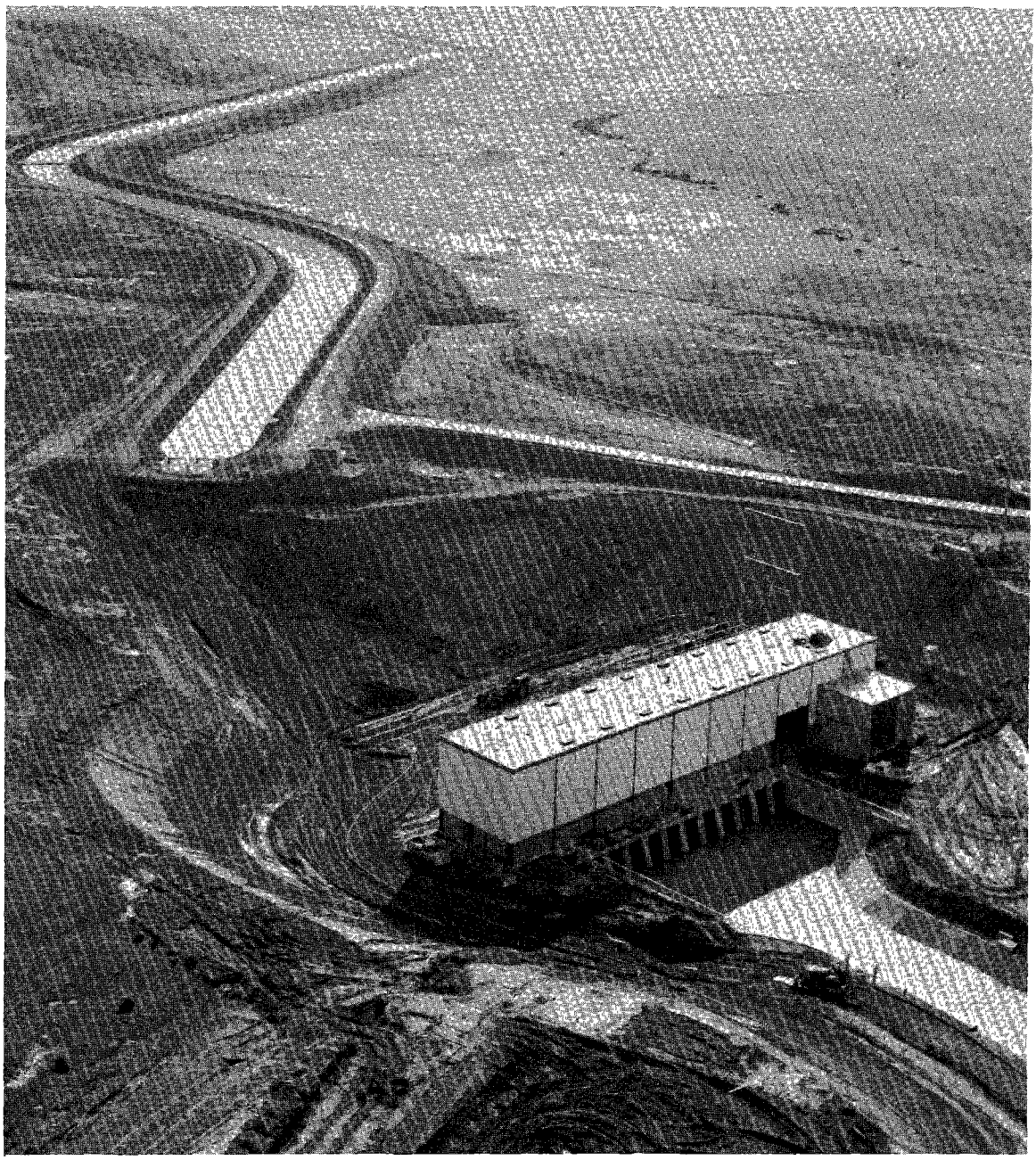
Oroville Area

Although construction was not completed, Oroville Dam and Lake Oroville, Thermalito Diversion Dam, Thermalito Power Canal, Thermalito Forebay Dam and Forebay, and Thermalito Afterbay Dam and Afterbay became operational on a limited basis during 1967.

A total of 212,586 acre-feet was in reservoir storage by December 31, 1967. The monthly operation of each respective facility is summarized in Table 7.

204/ Department of Water Resources memorandum from Carl E. Werner, District Engineer, Sacramento District, to Charles Carnahan, Executive Officer, Central Valley Water Quality Control Board, "Complaint Investigation", Big Grizzly Creek, August 11, 1967, and "Pollution Problems on Big Grizzly Creek near Portola", August 14, 1967.

205/ Department of Fish and Game memorandum from Bob Montgomery, Regional Manager, Region II, to Mr. Charles Carnahan, Executive Officer, Central Valley Water Quality Control Board, "Inspection of Big Grizzly Creek, Plumas County", August 17, 1967.



Las Perillas Pumping Plant

Recreation use of reservoirs in the Oroville Area was not allowed during 1967 because of the danger from the large amount of floating debris and the large fluctuations of water levels in the Thermalito Forebay and Afterbay.206/ Signs were posted closing these reservoirs to the public until they could be enjoyed without any danger.

Lake Oroville

Lake Oroville, with a gross storage capacity of 3,538,000 acre-feet, will be operated by the Department for purposes of water supply, power generation, flood control, recreation, and fish and wildlife enhancement.

The initial filling of the Lake began at 10:25 a.m. November 14, 1967, when Diversion Tunnel No. 1 was closed. Storage on December 31, 1967, was 165,642 acre-feet.

Recreation developments at Lake Oroville will be operated by the Department of Parks and Recreation as part of the State Park system. Transfer of control and possession of lands is being accomplished under a master agreement as the lands are acquired and the recreation areas are defined.

The Department of Parks and Recreation reported 532,269 visitors at the Oroville construction overlook during 1967.

Available recreation developments include 7.5 miles of riding and hiking trails and eight boat launching lanes in the vicinity of Oroville Spillway. Between April 1, 1967, and April 1, 1968, the Department of Fish and Game will plant 559,600 fingerlings and 255,600 subcatchables of Rainbow Trout and 2,500 fingerlings and 48,025 subcatchables of Brown Trout.

There was no generation of power by the Thermalito Powerplant during 1967. However, 433,957,907 kilowatt-hours of generation from the Big Bend Powerplant was sold to the Pacific Gas and Electric Company at 2.95 mills per kilowatt-hour for a net project revenue of $1,078,971. The Powerplant, located within the area already inundated by Lake Oroville,207/ was purchased from the Company effective January 28, 1966. The plant was decommissioned at midnight on September 30, 1967.

206/ *Department of Water Resources memorandum from William R. Gianelli to Mr. Alfred R. Golze', "Notice of Closing of Oroville Division Reservoirs to Public Use Until Further Notice", January 10, 1968.*

207/ *See p. 19, Bulletin 132-66.*

During the Department's 20-month ownership of the Powerplant, a total net project revenue of $2,090,187 was realized. The Company operated the plant for the Department during this period. A summary of the power generation and revenues realized is shown in the following tabulation:

Period	Net Generation[a/]	Gross Project Revenues	Operating Costs	Net Project Revenues
	(in dollars unless otherwise noted)			
1/1/67-3/31/67	150,875,369	445,082	52,310	392,772
4/1/67-6/30/67	151,350,320	446,483	60,383	386,100
7/1/67-9/30/67	131,732,220	388,610	88,511	300,099
SUBTOTAL, 1967	433,957,909	1,280,175	201,204	1,078,971
SUBTOTAL, 1966[b/]	405,012,048	1,194,786	183,570	1,011,216
TOTAL	838,969,957	2,474,961	384,774	2,090,187

a/ In kilowatt-hours.
b/ From page 98, Bulletin 132-67.

Thermalito Diversion Dam Pool and Thermalito Forebay

Thermalito Diversion Dam forms a pool of 13,500 acre-feet gross capacity. Thermalito Forebay, located about four miles west of the Diversion Dam, has a gross capacity of 11,400 acre-feet. The Dam diverts water released from Lake Oroville to Thermalito Forebay, through Thermalito Power Canal, for release through the Thermalito Powerplant. Releases are also made from the Diversion Dam pool to maintain flows for those fish preservation and diversion requirements in downstream reaches of the Feather River that are not satisfied by releases from Thermalito Afterbay.

Operations commenced on October 11, 1967, when, water was allowed to flow from the Diversion Dam pool into the Power Canal and thence into the Forebay. Storage in the Diversion Dam pool and in the Power Canal and Forebay totaled 25,036 acre-feet.

Between the time when Diversion Tunnel No. 1 was closed, on November 14, 1967, and when releases from newly formed Lake Oroville could commence, on November 15, 1967, releases from storage in the Diversion Dam pool satisfied minimum flow requirements for fish preservation and for downstream diversions from the Feather River. There was no flow of the Feather River past Oroville Dam during a 24-hour period. The river outlet valves in Diversion Tunnel No. 2 of Oroville Dam were kept closed during this period to prevent debris from floating into the Tunnel and damaging the valves until the reservoir stage had reached a safe operating level.

Recreation use has not been planned for the Diversion Dam pool nor for the Thermalito Power Canal because of the narrow, restricted nature of the channels involved. However, a rather extensive recreation development is planned at Thermalito Forebay because of its close proximity to the City of Oroville and of its sheltered location from prevailing northerly winds during the spring season. Two boat launching lanes are located on the north side of the Forebay and four on the south side.

Thermalito Afterbay

Thermalito Afterbay, with a gross storage capacity of 57,500 acre-feet, receives water released from Thermalito Forebay through the Thermalito Powerplant. Water in the Afterbay may either be released to the Feather River channel, pumped back into Lake Oroville (when pump-generator units in Edward Hyatt and Thermalito Powerplants are operable), or diverted for irrigation and other uses. Diversions are made directly from the Afterbay to the Sutter Butte Canal, PG&E Lateral, Richvale Canal, and Western Canal.

On October 12, 1967, water was released through the bypass of Thermalito Powerplant into a small, temporarily diked area of the Afterbay. A continuing supply of water was thus provided to the Western Canal below that portion of the canal which had to be abandoned to complete the embankment of Thermalito Afterbay. The initial filling of Thermalito Afterbay began on November 15, 1967, with the commencement of regulated releases from Lake Oroville. Water levels in the Afterbay were adequate to initiate water deliveries to the Sutter Butte Canal on November 17, 1967. Releases from the Afterbay to the Feather River commenced on December 26, 1967, and amounted to 3,578 acre-feet by the end of the year.

During 1967, a total of 2,090 acre-feet and 27,001 acre-feet were diverted from the Afterbay to the Sutter Butte Canal and the Western Canal, respectively. No deliveries were

made to the PG&E Lateral nor to the Richvale Canal. Storage in the Afterbay amounted to 21,908 acre-feet on December 31, 1967.

Recreation developments are planned for construction at the Afterbay. Between April 1, 1967, and April 1, 1968, the Department of Fish and Game will plant 250,000 Rainbow Trout fingerlings in the Afterbay.

South Bay Aqueduct

Constructed features of the South Bay Aqueduct were operated by the Department in 1967 to provide water to agencies located in Alameda and Santa Clara Counties. When completed in 1969, Del Valle Dam and Reservoir will be operated for flood control, recreation, local water conservation, and project water regulation.

Constructed Features

Features operated during 1967 were the Interim Intake Canal and Pumping Plant that connected the Bureau of Reclamation's Delta-Mendota Canal with Bethany Reservoir of the California Aqueduct; the South Bay Pumping Plant that lifts water from Bethany Reservoir; and pipelines, tunnels and canal sections that convey the water, by gravity, to the Santa Clara Terminal Facilities. Table 8 presents the monthly operation of these features for 1967.

Water Operations. The bulk of the 1967 water supply for the South Bay Aqueduct was purchased from the Bureau of Reclamation under terms of a contract executed in 1963.[208/] "Bureau water" was purchased at a turnout from the Delta-Mendota Canal and conveyed to Bethany Reservoir through the Interim Intake Canal. The remaining amount of the 1967 water supply was pumped directly from the Delta to Bethany Reservoir through the Delta Pumping Plant. The water so pumped occurred at times when there was surplus water available in the Delta. Therefore, the provisions of the letter agreement[209/] whereby the State could obtain a temporary Delta supply in 1967 from the Central Valley Project under a "bank account" arrangement was not exercised.

The Interim Intake Canal and Pumping Plant were decommissioned on November 26, 1967. All subsequent deliveries to the South Bay Aqueduct were made with water pumped from the Delta into Bethany Reservoir through the Delta Pumping Plant.

208/ DWR 553073, December 12, 1963.
209/ See footnote 86, p. 75, Bulletin 132-67.

A total of 48,054 acre-feet was purchased from the Bureau of Reclamation during 1967. Thus, a total supply of 188,297 acre-feet of "Bureau water" was purchased for the interim operation of the South Bay Aqueduct during the 1962 through 1967 period, as summarized below for each calendar year:

Year	Bureau water, in acre-feet
1962	9,704
1963	13,212
1964	21,743
1965	35,985
1966	59,599
1967	48,054
Total	188,297

During 1967, the South Bay Pumping Plant pumped 58,440 acre-feet -- 46,552 acre-feet of this amount was supplied by "Bureau water" and 11,888 acre-feet by "project water" pumped from the Delta.

Deliveries from the South Bay Aqueduct were made to the Alameda County Flood Control and Water Conservation District (Zone 7), Alameda County Water District, and Santa Clara County Flood Control and Water District in the amounts of 4,780, 12,882, and 39,101 acre-feet, respectively.

Total water losses from the South Bay Aqueduct during 1967 amounted to 3,997 acre-feet.

The surveillance program of water quality conditions in the South Bay Aqueduct includes: (1) continuous recording of electrical conductance at the South Bay Pumping Plant and the Santa Clara Terminal Facilities; (2) collection of monthly samples at the two stations and analysis for 16 constituents; (3) random sample collection and analysis during chemical treatments for algae and aquatic weed control; and (4) semiannual collection of samples at all contractors' turnouts and analysis for 16 constituents.

Daily flows were correlated with electrical conductivity to determine the weighted average concentrations of dissolved solids, total hardness, chlorides, and sulfates for water pumped at South Bay Pumping Plant during 1967. These weighted average values, together with the results of monthly analyses for boron content and sodium percentage at the Pumping Plant, are summarized in the tabulation on the following page.

Month	Total Dissolved Solids	Total Hardness	Chlorides	Sulfates	Boron	Sodium, in percent
	(in parts per million unless otherwise noted)					
January	430	159	116	79	0.4	53
February	502	183	138	96	-	-
March	354	134	94	62	0.3	52
April	236	96	60	36	0.2	49
May	132	63	29	13	0.2	48
June	75	45	12	1	0.1	43
July	109	56	22	8	0.0	43
August	200	83	48	30	0.0	48
September	289	112	76	49	0.3	46
October	321	123	85	55	0.3	45
November	300	116	79	51	0.5	56
December	267	105	69	44	0.8	57
Average 1967	250	100	64	41	0.3	49

Power Operations. The Department continued to purchase power from the Bureau of Reclamation to supply South Bay Aqueduct pumping requirements. The Pacific Gas and Electric Company transmitted this power from the Tracy Switchyard through its transmission system to the South Bay and Interim Pumping Plants.

During 1967, the total energy consumed was 47,655,900 kilowatt-hours; the peak power demand was 11,650 kilowatts; and, the total power and energy cost was $210,128 for an average rate of 4.41 mills per kilowatt-hour -- up 0.30 mills per kilowatt-hour in comparison with the average rate for 1966.

General Maintenance. During the early part of 1967, 5,000 tons of road rock were placed on operating roads and around aqueduct structures.

Appurtenances installed in 1967 included rodent control devices on standby generators at all check structures, cattle guards in operating roadways, recorder shelters for existing float wells, stop logs at Dyer Check, and a manhole on the pipe connecting Patterson Reservoir and the Alameda County Flood Control and Water Conservation District treatment plant.

Eight applications of copper sulfate were made during 1967 to control aquatic weeds and algae. The chemical was applied at the Dyer Pool on January 10, March 14, May 23, July 5, August 8, September 6, October 5, and on November 2, 1967. A total of 1,622 pounds of copper sulphate were used during the year.

Silt and clam deposits in canal sections were removed by dragline operations during May and June 1967.

Emergency repairs to the Interim Intake Canal were made in June at Station 17+00 and in August near Station 54+00.

A drainage ditch to prevent erosion was constructed at the Santa Clara Terminal Facilities.

Patterson Reservoir was drained on November 30, 1967, and inspected by the Department's Division of Safety of Dams. Two holes were found in the asphalt floor and one on the slope of the Reservoir. Undesirable material was removed and replaced with zoned and compacted material that was topped with hot asphaltic concrete and a sealer. Approval to refill the Reservoir was given by the Division of Safety of Dams upon completion of repairs. Refilling was completed December 8, 1967.

Plant Maintenance. Work items completed during the year at the South Bay Pumping Plant included: overhaul of a compressor; installation of a shaft sleeve on Pump No. 2; repair of air relief valves on Pump Nos. 1, 2 and 4; installation of large duplex filters and water system to Pump No. 4 packing gland; the overhaul and modification of the evaporator coolers; repair and rewinding of the motor to Pump No. 2; and installation of ladder guards on the surge tanks.

California Aqueduct

During 1967, deliveries of project water were made from the California Aqueduct to the South Bay Aqueduct only.

North San Joaquin Division

None of the facilities of the North San Joaquin Division were operational throughout all of 1967 -- except Bethany Reservoir. The entire division was operational by the end of the year.

Water Operations. Initial filling of the Aqueduct commenced in October, though a small amount of water was pumped through the Delta Pumping Plant during the dedication ceremonies on September 9, 1967. The plant pumped a total of 21,424 acre-feet in 1967. By November 30, reaches for 24 miles were filled to operational levels. Water had been admitted into all reaches of the North San Joaquin Division by the end of the year. The volume of water in channel storage totaled 16,028 acre-feet on December 31, 1967, of which 8,328 acre-feet had been pumped at the Delta Pumping Plant and 7,700 acre-feet had flowed northerly from O'Neill Forebay.

Water of high boron content was noted during the initial operation of the Delta Pumping Plant. An intensive monitoring program was initiated on October 14, 1967, and continued until December 11, 1967. The suspected source is seepage from an aquifer in the vicinity of the Intake Channel. However, the monthly average boron concentration has remained at or below 0.5 ppm since November 1, 1967, and is expected to remain below this level as the pumping rates at the Delta Pumping Plant increase.

General Maintenance. The water surface in Bethany Reservoir was drawn down in December to allow repair of cracks that appeared in the concrete canal lining between the Delta Pumping Plant and the Reservoir.

Plant Operations. Two pumps (Nos. 1 and 2) of the Delta Pumping Plant were the only units in operation at the end of 1967. The units were tested for short periods in August and September and were placed in operation during October. Pumping energy requirements for the year totaled 6,600,088 kilowatt-hours.

San Luis Division

During 1967, the San Luis Division was operated by Department personnel under the direction of the Bureau of Reclamation's Project Engineer.

O'Neill Forebay, Los Banos Creek Detention Reservoir and Little Panoche Creek Detention Reservoir were operational throughout 1967.

San Luis Pumping-Generating Plant and San Luis Reservoir were operated on a limited basis during the year, even though some of the electrical controls had not been installed. However, water in reservoir storage was not allowed to rise above elevation 341 feet in order to avoid interference with construction by the Bureau of Reclamation of intake works for the Pacheco Pass Tunnel of the San Felipe Division, Central Valley Project. Dos Amigos Pumping Plant and aqueduct reaches between O'Neill Forebay and Kettleman City also were in operation by December 31, 1967.

Recreation Developments. Recreation developments were open to the public at three of the facilities in the San Luis Division for all, or a part of, 1967 -- O'Neill Forebay, San Luis Reservoir, and Los Banos Creek Detention Reservoir.

Recreation developments at O'Neill Forebay were opened to the public on May 17, 1967, and include 50 picnic units, three boat launching lanes, a temporary water system, and chemical toilets. Recreation use during 1967 was reported by the Department of Parks and Recreation to be 32,801 visitor-days.

Recreation developments in the Basalt Area at San Luis Reservoir include three boat launching lanes. The Department of Parks and Recreation reported the total recreation use in 1967 of 3,301 visitor-days -- all for water-fowl hunting, which opened October 14, 1967. The Department of Fish and Game will plant 1,600 adult Largemouth Bass and 1,800 adult White Crappie in the Reservoir between April 1, 1967 and April 1, 1968.

An infestation of midges was noted in both O'Neill Forebay and San Luis Reservoir during the summer of 1967 hampering recreation activities. The predominant species were identified as Chironomus plumosus and Chironomus attemiatus.

Recreation developments at Los Banos Creek Detention Reservoir include 15 picnic units, chemical toilets, and temporary boat launching facilities. Boats of not more than 10 horsepower, and speeds of not more than 5 miles per hour, are permitted by Merced County ordinance. A total recreation use of 17,050 visitor-days was reported for 1967 by the Department of Parks and Recreation. The Department of Fish and Game will plant 500 adult Largemouth Bass in the Reservoir between April 1, 1967, and April 1, 1968.

Water Operations. All water entering the Division during the year was pumped from the Delta-Mendota Canal through the federal O'Neill Pumping Plant.

O'Neill Forebay, together with storage capacity in the aqueduct reach between the Forebay and Dos Amigos Pumping Plant, regulates water to be pumped into, and to be released from, San Luis Reservoir. Water in storage on January 1, 1967, totaled 26,035 acre-feet. After accounting for all inflow, outflow, evaporation and other losses, the storage on December 31, 1967 was 50,794 acre-feet. Included as outflow from the reach was 7,700 acre-feet of water that backed into the North San Joaquin Division.

The first water was pumped from O'Neill Forebay through San Luis Pumping-Generating Plant into San Luis Reservoir on April 12, 1967. A total of 141,396 acre-feet had been pumped by the end of the year. Total storage in San Luis Reservoir on December 31, 1967, was 132,789 acre-feet.

First deliveries from the San Luis Division were made in September to customers of the federal Central Valley Project through three temporary pump turnouts located on the reach between O'Neill Forebay and Dos Amigos Pumping Plant.

The Dos Amigos Pumping Plant pumped a total of 13,071 acre-feet during 1967. The initial filling of the reach between Dos Amigos Pumping Plant and Panoche Creek commenced September 28, 1967, when pumping tests began at Dos Amigos Pumping Plant. First deliveries from this reach began November 13, 1967, when Westlands Water District -- a customer of the federal Central Valley Project -- placed three of its laterals in operation.

There was water in all reaches of the San Luis Division by the end of 1967. The water reached the closed check gate at Kettleman City on December 31, 1967.

Storage in Los Banos Creek Detention Reservoir on January 1, 1967, totaled 5,980 acre-feet. The peak storage was 17,431 acre-feet and it occurred May 18, 19, and 20. The storage on December 31, 1967, was 15,913 acre-feet. Storage in Little Panoche Creek Detention Reservoir totaled 98 acre-feet on January 1, 1967. The peak storage for the year, 176 acre-feet, occurred in May and again on December 31, 1967. The monthly operation of reservoirs included in the San Luis Division is summarized in Table 9.

A water quality monitoring station was established in the intake channel to O'Neill Pumping Plant by the Bureau of Reclamation during April 1967. An electrical conductivity recorder was installed and sample collection and analyses for ten constituents were initiated on a monthly basis.

The Asiatic clam, Corbicula, was found in O'Neill Forebay and a density of 1,300 organisms per square foot was recorded on October 24, 1967, near the O'Neill Pumping Plant.

Plant Operations. Testing of certain pump units of the San Luis Pumping-Generating Plant began in July. Four units (Nos. 4, 6, 7, and 8) were available for test pumping by the end of September, and one (No. 3) by the end of November.

Power generation was not possible in 1967 due to restrictions imposed on operating heads by construction of the intake to the Pacheco Pass Tunnel.

Dos Amigos Pumping Plant began limited operation in September when the first unit (No. 5) was first tested. Test pumping of two additional units began in October (No. 4) and in December (No. 2), respectively.

CHAPTER V. PLANS FOR PROJECT FINANCING

The financial program for the State Water Project is established on the principles of the Burns-Porter Act, effective November 8, 1960.

The objective of the Act is to provide funds to assist in the construction of a State Water Resources Development System. The System consists of a specific group of initial works, defined by the Act as the "State Water Facilities", and a progression of future, additional facilities to meet local needs and to augment water supplies in the Sacramento-San Joaquin Delta. The Project's financial program has always recognized that the continuing increase in California's water demands eventually will dictate the need for additional financing for future construction of the System.

The State Water Project is administratively defined by the Department as the "State Water Facilities" and certain additional facilities, designated herein as the Middle Fork Eel River Development, so formulated as to be capable of:

1. Satisfying the estimated growth in demands for project water, in logical service areas throughout the State, to a common level of future development; and

2. Being completely financed by those funds provided by the Act, together with other available project funds.

In 1960, the Department planned that available funds would finance a comprehensive State Water Project that could satisfy the future growth in demands for project water until 1990. On this basis, the Department entered into, and successfully completed, an unprecedented water contracting program with local agencies throughout the State.

However, the following contingencies have prevented the complete realization of the Department's original plan for the State Water Project:

1. Increases in construction costs due to the significant escalation of prices that has occurred since 1960, in relation to a limited capability of available funds.

2. Increases in the original scope of project water service, caused by a southerly redistribution of the estimated demands for project water,[210/] and

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210/ *See p. 135, Bulletin 132-67.*

an enlargement of project water service, as a result of the adverse Supreme Court decision in Arizona v. California in 1963.211/

In addition, funds originally available to the Project, incidental to those provided by the Burns-Porter Act, were reduced and diverted to other pressing needs of the State. Whereas all of the State's tideland oil and gas revenues originally were scheduled to flow into the California Water Fund, a 1964 enactment limited such accruals to $11 million annually.212/ Furthermore, under a policy decision made in 1963, certain project funds are now held in reserve to the extent required to supplement project revenues available for payment of general obligation bond service.213/ This policy decision was directed toward honoring the objective that the Project be self-supporting and, very importantly, that no adverse effect on the State's credit rating be caused from having to call on the General Fund for service on those bonds issued under the Burns-Porter Act.

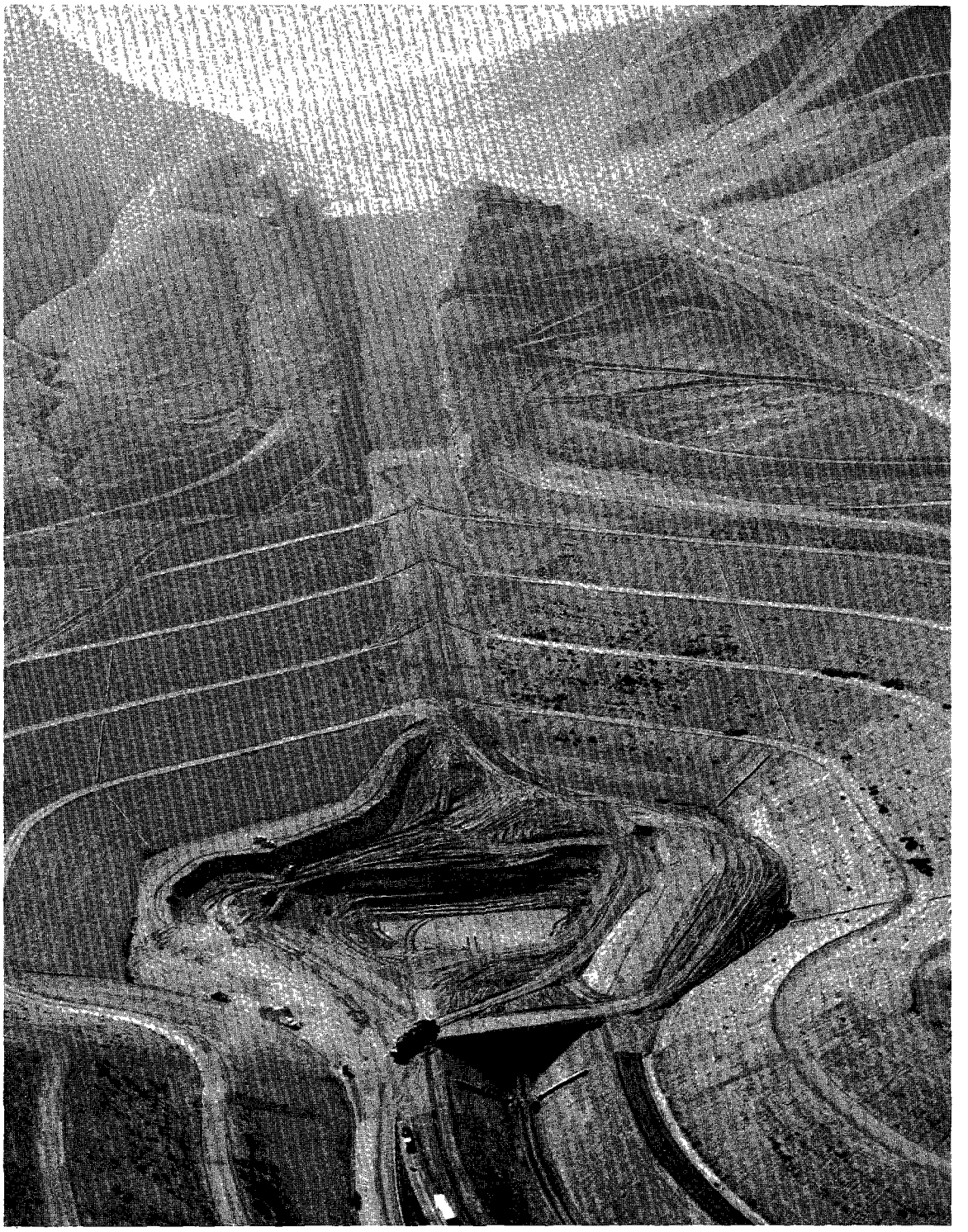
The availability of $5 million annually in tideland revenues diverted from the Project has been returned by an enactment in 1966214/ -- and would be increased under pending legislation.215/ Furthermore, use of revenue bonds under the authority of the State Central Valley Project Act, cost sharing agreements with federal agencies, and cost economies have been instituted by the Department to provide additional project funds and to conserve available project funds.

Specifically, the following actions have been taken since the beginning of 1966 to conserve and increase project funds:

1. The Department deferred, indefinitely, the construction of the San Joaquin Drainage Facilities until repayment of the reimbursable costs associated therewith is assured.216/

2. The Department entered into a memorandum of understanding with the Corps of Engineers whereby the two agencies will seek federal authorization for construction of Dos Rios Dam and Reservoir by the Corps, and purchase of water supplies therefrom by the Department under the Water Supply Act of 1958 -- thus reducing the State's need for capital funds.217/

211/ *See pp. 12, 13, Bulletin 132-65.*
212/ *See p. 10, Bulletin 132-65.*
213/ *See p. 200, Bulletin 132-63.*
214/ *See p. 11, Bulletin 132-66.*
215/ *See p. 20.*
216/ *See pp. 28, 29, Bulletin 132-67.*
217/ *See footnote 117, p. 42.*



Site excavation for
Wind Gap Pumping Plant

3. The Department consummated negotiations with Pacific Gas and Electric Company, San Diego Gas and Electric Company, and Southern California Edison Company for purchase from the Department of the entire Oroville-Thermalito power output for a firm annual payment of $16,150,000 for a 50-year period -- thus permitting the issuance of revenue bonds.218/

4. The Department reexamined the required operational date of the proposed federal-state Peripheral Canal and postponed that date from 1974 to 1976 -- thus reducing capital requirements for the next few years.219/

5. The Department reduced the scope of certain aspects that were not essential to project operations -- thus reducing total capital requirements.220/

6. The Department effected a savings in the number of personnel required for project operations and maintenance support activities -- thus reducing the portion of project operations and maintenance costs included in capital requirements.221/

7. The Department deferred the construction of certain units not initially required for fulfilling the State's obligations under the Project's water contracts -- thus reducing capital requirements for the next few years.222/

Item (7) above must be conditioned upon the future availability of additional project funds. The Project's overall construction program will be reviewed if and when additional project funds are made available under one or more possibilities, including the following: pending legislation; financial arrangements with Southern California electric utilities concerning recovery generation from project powerplants; and a supplemental authorization of general obligation bonds, over and above that of the Burns-Porter Act.

Inevitably, a supplemental authorization of general obligation bonds will be required to finance future construction of the State Water Resources Development System. The answers to such obvious questions as to when such an authorization should be effective and how large such an authorization

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218/ *See footnote 40, p. 19.*
219/ *See footnote 94, p. 36.*
220/ *See pp. 10, 12.*
221/ *See footnote 16, p. 9.*
222/ *See footnotes 12, 14, p. 8.*

should be are indeterminable at this time. These answers are dependent upon the overall fiscal needs of the State as well as those of the Project.

This chapter presents a financial analysis of the current construction program for the Project, based on only those funds presently available. The analysis indicates that the need for additional funds would not occur until 1972 -- after project water deliveries will have commenced throughout the entire length of the California Aqueduct -- and that the total need would be of manageable proportions.

Estimated Capital Expenditures

The total capital cost of the State Water Project is estimated to be $2,778 million for purposes of the current financial analysis. This estimate excludes future design and construction costs for the San Joaquin Drainage Facilities since studies are in progress as to its required capacity, construction schedule, point of discharge, and method of reimbursement to the State.223/ Financing for future capital requirements of the San Joaquin Drainage Facilities must be provided over and above the amount of required additional funds indicated by the current financial analysis.

About $1,163 million (42 percent) of the estimated total capital cost of the Project had been incurred through 1967. About $1,615 million (58 percent) remains to be expended during the 1968-1985 period.

Table 10 presents the estimated annual capital expenditures for each project facility. The values of that table are summarized below. Total annual expenditures for all facilities are also shown graphically on Figure 5.

Project facilities	Actual through 1967	Projected 1968-1985	Total
	(in millions of dollars)		
Upper Feather Area	13	15	28
Oroville Area	446	47	493
Delta Facilities	11	99	110
Middle Fork Eel River Development	4	161	165
North Bay Aqueduct	2	14	16
South Bay Aquedut	57	10	67
California Aqueduct	595	1,164	1,759
San Joaquin Drainage Facilities	6	2	8
Local (Davis-Grunsky) Projects	27	103	130
Temporarily unassigned	2	0	2
TOTAL, STATE WATER PROJECT	1,163	1,615	2,778

223/ *See pp. 46, 47.*

Estimation Bases for Units Subject to Adjustment

Tabulated on pages 122 and 123 is a listing of the 16 project units the Department determined to be subject to adjustment -- either concerning the construction schedules or the State's capital costs thereof, or both -- in its response to the recommendations of the Water Resources Task Force.224/ The tabulation also lists the scope and extent of the adjustment then considered under conditions of "maximum deferment" (Case III), in relation to the "original" schedules reflected in Bulletin 132-67, and the scope and extent of such adjustments considered under the Department's current construction program.

If and when additional funds are made available to the Project, the current construction program will be re-evaluated in light of the situation at that future time in regard to Units 1 through 3, 7, and 9 through 11 of the tabulations shown on pages 122 and 123.

Composition of Estimated Capital Expenditures

Capital expenditures for each project facility include all direct costs -- and an allocated share of general projectwide costs -- incurred between the dates when the facility was authorized for construction and when the facility was or will be declared operational. Capital expenditures also include those for constructing or installing additional works or betterments within the operational period, such as for pump installations. Project capital expenditures exclude interest charges during the construction period and the federal share of such expenditures for joint-use facilities constructed by the United States (including the San Luis Division of the California Aqueduct and, as assumed herein, the Delta Facilities). Furthermore, project capital expenditures exclude those for Dos Rios Dam, assumed herein to be constructed by the Corps of Engineers.

For purposes of the current financial analysis, annual capital expenditures for each project facility include:

1. All capital costs actually incurred during each year through 1967, as shown in the Department's accounting records;

2. Unpaid amounts of construction contracts in effect at the end of 1967;

3. Estimated costs to be incurred under future construction contracts;

224/ *See footnote 4, p. 3.*

ANNUAL CAPITAL EXPENDITURES

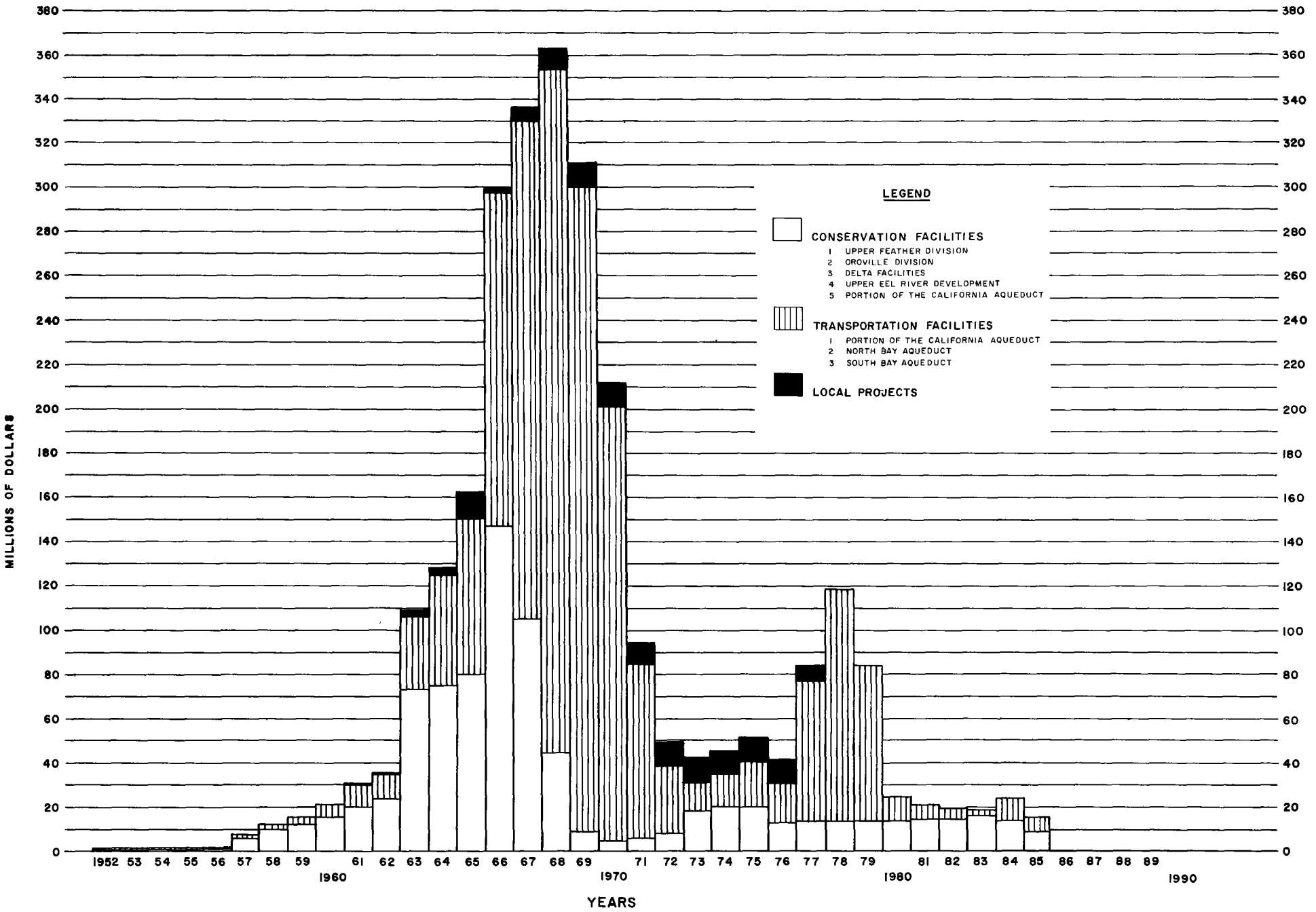

FIGURE 5

Units subject to adjustment	Adjustment, as considered in "Case III; Maximum Deferment"	Adjustment, under the current construction program
1. Abbey Bridge Dam and Reservoir, Upper Feather Area	Initiation of design in 1976; completion deferred until 1978.	Same as "Case III" except with completion of design on essen tially the original schedule.
2. Dixie Refuge Dam and Reservoir, Upper Feather Area	Initiation of design in 1977; completion deferred until 1981.	Same as "Case III".
3. Phase II construction North Bay Aqueduct	Completion of design and procurement of right-of-way deferred until 1975.	Same as "Case III" except with sufficient design for early purchase of critical right-of-way.
4. Cottonwood Powerplant, Mojave Division, California Aqueduct	Construction of penstock with energy dissipator by 1971 (note, this adjustment has been officially adopted[a]); installation of generators deferred until 1981.	Same as "Case III".
5. Buttes Dam & Reservoir, Mojave Division California Aqueduct	Completion of feasibility study in 1969. Completion of construction deferred until 1978.	Same as "Case III" (assumes construction to be feasible).
6. Pearblossom Pumping Plant, Mojave Division, California Aqueduct	Installation of Units 5 & 6 deferred until 1977 (note, this adjustment has been officially adopted[b]).	Same as "Case III".
7. Devil Canyon Powerplant, Santa Ana Division, California Aqueduct	Construction of energy dissipator and bypass facility by 1972; construction of powerplant and penstock deferred until 1979.	Same as "Case III" except with completion of design on essentially the original schedule.
8. Santa Ana Valley Pipeline, Santa Ana Division, California Aqueduct	Procurement of right-of-way on original schedule; initiation and completion of construction deferred until 1977 and 1979, respectively.	Construction on essentially the original schedule.
9. Perris Dam & Lake Perris, Santa Ana Division, California Aqueduct	Procurement of right-of-way on original schedule; completion of construction deferred until 1979 for a 500,000 acre-foot reservoir.	Same as "Case III" except for a 100,000 acre-foot reservoir with provision for eventual enlargement.

Units subject to adjustment	Adjustment, as considered in "Case III; Maximum Deferment"	Adjustment, under the current construction program
10. Quail Canal and Peace Valley Pipeline, West Branch, California Aqueduct	Completion of the Canal, of reduced capacity, on original schedule; completion of first stage of Pipeline in 1970 and second stage in 1979.	Same as "Case III" except with completion of design of original facility on essentially the original schedule.
11. Pyramid Powerplant, West Branch, California Aqueduct	Completion of construction deferred until 1979.	Same as "Case III" except with completion of design on original schedule.
12. Coastal Branch, California Aqueduct	Initial design and right-of-way procurement in 1975 with completion of construction deferred until 1983 for Devil's Den Pumping Plant and downstream facilities; installation of three pump units at Badger Hill and Las Perillas Pumping Plants deferred until 1972, 1975, and 1981, respectively.	Same as "Case III" except with completion of construction in 1980 for Devil's Den Pumping Plant and downstream facilities.c/
13. Peripheral Canal	Completion deferred until 1976, with state share of costs estimated to be $110 million.	Same as "Case III".d/
14. San Joaquin Drainage Facilities	Initiation of design and procurement of right-of-way deferred until 1976.	These activities deferred indefinitely.d/
15. Middle Fork Eel River Development	No definite adjustment since adequate funding for costs available from "offset" bonds at least through 1975.	Assume construction of Dos Rios Dam and Reservoir by the Corps of Engineers with storage purchased under the Water Supply Act of 1958.d/
16. San Luis Canal	No definite adjustment since augmentation of present canal capacity south of Dos Amigos Pumping Plant not required until 1986.	Assume canal lining to be raised between Dos Amigos Pumping Plant and Kettleman City.c/e/

a/ See footnote 68, p. 26, Bulletin 132-67.
b/ See footnote 69, p. 26, Bulletin 132-67.
c/ No funds currently budgeted.
d/ Funds for planning studies currently budgeted; however, none have been budgeted for design, right-of-way, or construction.
e/ See pp. 13-16, "Response to the Governor's Water Resources Task Force, Volume II, Remaining Considerations", September 1967.

4. Other direct costs to be incurred for each facility, including design, right-of-way acquisition, construction supervision, local impact aid payments and direct operating costs during the construction period; and

5. An allocated share of those general operating costs to be incurred for the Project as a whole, until the facility is declared operational.

Estimated future costs are based on state salary scales and construction unit prices prevailing at the end of 1967 -- increased by certain percentages, compounded annually. These percentages reflect average price escalation rates that have been experienced since 1960 -- 4 percent for salaries of state personnel and 2-1/4 percent for contract pay items. The latter percentage represents the composite for the many work types involved and applies to pay items under future contracts only.

The estimated composition of future annual capital expenditures for the Project as a whole is shown in Table 11 and is summarized below:

Cost composition	Estimated Capital Expenditures		
	Based on prices prevailing on January 1, 1968	Allowance for future price escalation	Total
	(in millions of dollars)		
Surveys and engineering studies	14	-	14
Design	37	6	43
Right-of-way acquisition and relocations	49	9	58
Construction	1,171	92	1,263
Preoperating expense:			
Direct	17	2	19
Allocated general	20	2	22
Local (Davis-Grunsky) projects	103	-	103
State participation in San Luis and Delta Facilities	93	-	93
TOTAL, STATE WATER PROJECT	1,504	111	1,615

Changes in Estimated Capital Expenditures

The current estimate of $2,778 million for the total capital cost of the Project is about $40 million less than the estimate of $2,818 million shown in Bulletin 132-67. A detailed reconciliation of the cost changes for each project facility is shown in Table 12. A very general reconciliation of the $40 million net decrease is outlined below:

(in millions)

INCREASE IN ESTIMATED CAPITAL COSTS:	
Increase in allowance for the State's share of the capital costs of a joint federal-state Peripheral Canal	$ 55
Inclusion of the portion of construction contractor earnings that were retained by the Department, as of the end of the preceding calendar year, until acceptance of all work under current contracts	33
Net increase in basic estimates of capital costs for project facilities	34
Increased costs caused by the deferral of scheduled construction for certain project units (including the costs of interim works and the effect of price escalation, applied to those basic estimates summarized in Bulletin 132-67)	18
Inclusion of the estimated costs of Buttes Dam and Reservoir	21
Inclusion of the estimated costs of delivery structures to be constructed by the State	16[a/]
TOTAL INCREASE	$177
DECREASE IN ESTIMATED CAPITAL COSTS:	
Decrease in estimated capital requirements under the current plan for financing and constructing the Middle Fork Eel River Development (See pages 42 and 44)	$183
Deletion of future costs of the San Joaquin Drainage Facilities	34
TOTAL DECREASE	$217
NET DECREASE IN ESTIMATED COST	$ 40

a/ *Funds for financing these costs are advanced by the water contractors.*

The estimated increases and decreases in capital costs, outlined on the preceding page, do not necessarily effect corresponding increases or decreases in required funding capabilities -- particularly during the period prior to that time in 1972 when water deliveries will have commenced throughout the length of the California Aqueduct. Most of the increase in the allowance for state costs of the Peripheral Canal would be for expenditures during the 1973-76 period. On the other hand, the significant decrease in the costs of the Middle Fork Eel River Development will not enhance the capability of available funds until the 1980's -- since "offset" bonds are more than adequate to finance construction of the Development until that time.

Allocation of Capital Expenditures Among Project Purposes and Programs

The allocation of estimated capital costs among project purposes and the segregation of such costs into broad repayment programs are necessary in order to project the corresponding amounts of operating revenues and "miscellaneous receipts" to be available to the Project.

The current allocation of actual and projected annual capital costs among purposes of multiple-purpose project facilities is shown in Table 13. The percentage of the costs of each multiple-purpose facility allocable to each purpose is developed in the Department's Bulletin 153 series.[225/] Also shown in Table 13 are the capital costs of single-purpose facilities -- including the costs of land for project-associated recreation developments that are financed by project funds. The following tabulation summarizes the allocation of project capital costs among purposes:

Project purposes	Allocated capital cost
	(in millions of dollars)
Water supply and Oroville-Thermalito power generation:	
Project conservation facilities	780
Project transportation facilities	1,647
Recreation and fish and wildlife enhancement	136
Flood control	75
Agricultural waste water disposal	8
Local (Davis-Grunsky) Projects	130
Unspecified	2
TOTAL, STATE WATER PROJECT	2,778

225/ *See footnote 37, p. 18.*

Table 14 presents the segregation of annual capital costs of project purposes among the following three broad classifications of repayment programs:

State Utility Programs: The capital costs of these programs will be reimbursed directly to the Project by entities that have, or will have, contracted for project services -- such as for a water supply, power generation, Davis-Grunsky loans; and (eventually) agricultural waste water disposal. A major portion of these reimbursements will be amortized and returned to the Project over an extended period, thus providing net operating revenues.

Under the Burns-Porter Act, $130 million is set aside exclusively for Davis-Grunsky loans and grants. Each Davis-Grunsky loan is specific as to the borrowing agency's loan service and repayment obligation. The total amount of loans to be made under the program cannot be determined at this time. As of April 1, 1968, only about $53.1 million had been approved for disbursement under the Program. About $9.8 million, or 18.5 percent of the approved amount was for Davis-Grunsky loans. For these reasons, the entire $130 million amount is not shown allocated among project purposes and is assigned to State Nonutility Programs in Table 14. (However, for purposes of the current financial analysis, it is conservatively assumed that 20 percent of all future Davis-Grunsky disbursements would be for loans at 2-1/2 percent interest, repaid in 50 years with a nine-year deferral of principal payments.)

State Nonutility Programs: These programs include the costs of Davis-Grunsky grants and the costs financed by project funds for recreation and fish and wildlife enhancement developments directly associated with the State Water Project.

The capital costs of recreation and fish and wildlife enhancement developments that are directly associated with the Project eventually will be reimbursed to the Project through continuing appropriations from the State's tideland oil and gas revenues.

Federal Programs: The capital costs of these programs will be reimbursed to the Project as such costs are incurred, or nearly so. The capital costs of federal programs include those project costs allocable to the purpose of flood control (herein considered a federal responsibility).

Summary of Financing

The actual and projected use of project funds for financing all estimated capital expenditures is summarized below, and is shown graphically on Figure 6.

Source of funds	Actual through 1967	Projected 1968-1985	Total
	(in millions of dollars)		
Burns-Porter Financing:			
General obligation bond proceeds	950	706	1,656[a/]
California Water Fund	175	205	380
Subtotal	1,125	911	2,036
Revenue Bond Financing	0	219	219
Miscellaneous Receipts[b/]	176	78	254
TOTAL FUNDS AVAILABLE	1,301	1,208	2,509
Plus (minus) carryover of unused:			
General obligaton bond proceeds	(69)	69	0
Miscellaneous receipts	(69)	69	0
Additional Funds Required[c/]	0	269	269
TOTAL CAPITAL EXPENDITURES	1,163	1,615	2,778

a/ Under the current financial analysis, $94 million in "offset" bonds would remain unexpended after financing the State's capital costs of the Middle Fork Eel River Development.

b/ Represents the balance of "miscellaneous receipts" that would not be applied to payment of general obligation bond service under the current financial analysis.

c/ Includes any additional funds that would be provided under pending legislation.

The funds to be used for financing capital expenditures are not necessarily limited to those included in the current financial analysis. Also, the method of applying such funds is not necessarily restricted to that currently reflected. The financial program is flexible -- it has been modified in the past and may be further modified in the future.

Funds presently available for financing capital expenditures include those provided under the Burns-Porter Act, revenue bonds supported by Oroville-Thermalito power sales, and certain other moneys, herein referred to as "miscellaneous receipts". The current financial analysis assumes that additional funds eventually would be made available in the form of a supplemental authorization of general obligation bonds, though a portion of such funds may be made available under pending legislation or by other means.

FINANCING OF CAPITAL EXPENDITURES

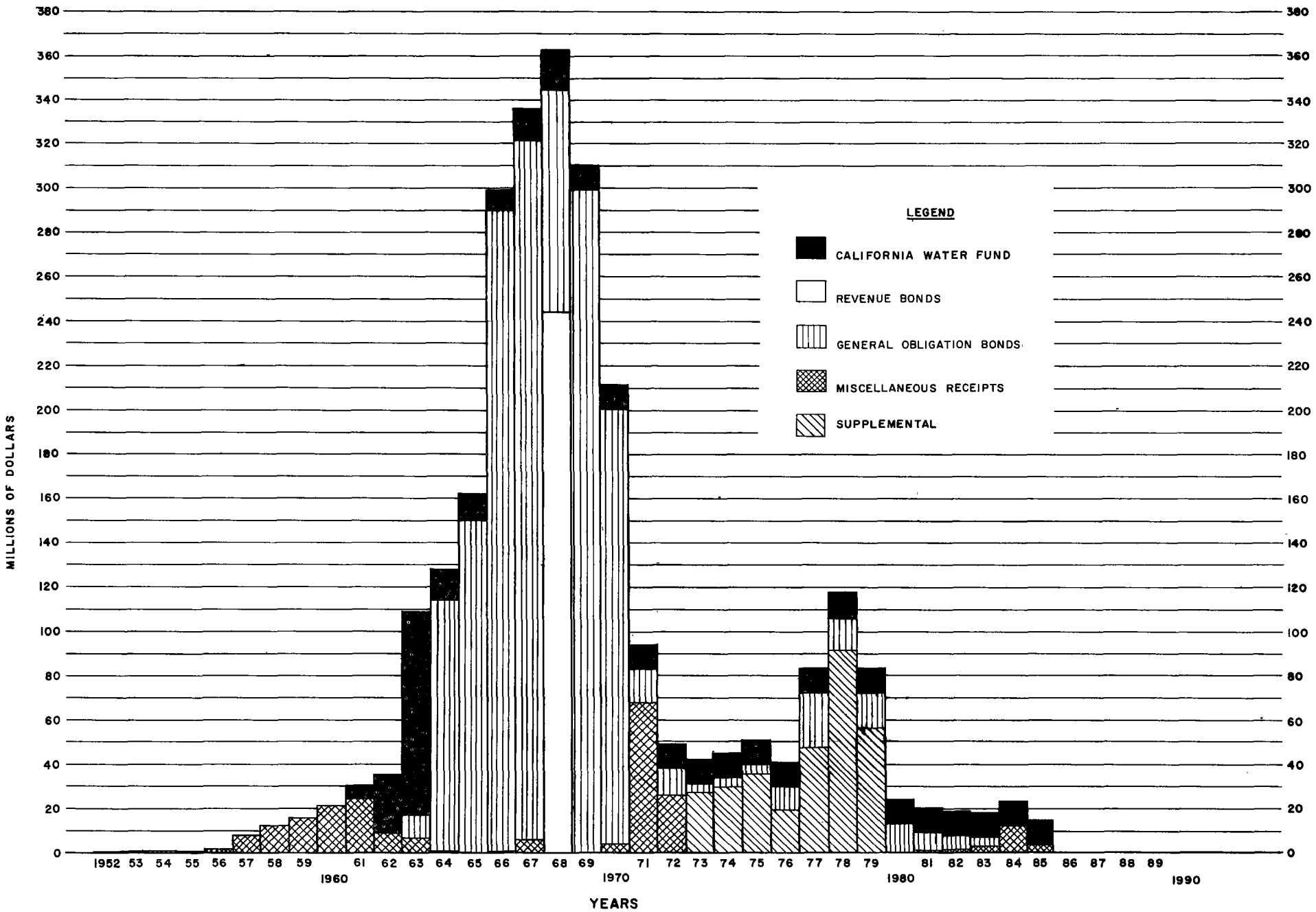

FIGURE 6

Burns-Porter Financing

The funds available under the Burns-Porter Act consist of the proceeds of general obligation bonds (hereafter referred to as "Water Bonds") in the aggregate principal amount of $1.75 billion, together with California Water Fund moneys that are derived from payments to the State for oil and gas royalties and bonuses under tideland leases. The Water Bonds are general obligations of the State, and the payment of interest and principal on such bonds is secured by the pledge of the full faith and credit of the State. In addition, those net operating revenues of the Project that are allocable to facilities constructed out of funds provided by the Act are pledged to support the Water Bonds.

The average net interest cost on the $950 million in Water Bonds sold to date is 3.853 percent as shown on the opposite page. The current financial analysis assumes that the net interest cost of the remaining $800 million in future Water Bond sales would average 4.40 percent, and that of all past and future Water Bond issues would average about 4.10 percent. Whether or not such future rates would be realized is, of course, unknown. The current rate at which Water Bonds could be sold would be considerably higher than these averages; however, it should be pointed out that interest rates are currently at a historically high level. If a future average rate of 4.75 percent were assumed, to more closely approximate current levels, the need for additional funds as indicated in the current financial analysis would be slightly reduced -- the increased service on Water Bonds would be offset by increased operating revenues, derived primarily from water charges.

Offset Bonds. Under the Burns-Porter Act, as and when California Water Fund moneys are expended for the construction of the "State Water Facilities", the portion of the $1.75 billion Water Bond authorization available for construction of such facilities is reduced in the amount of such expenditures. A corresponding amount of Water Bonds is reserved for "additional facilities". The bonds so reserved are frequently referred to as "offset" bonds. The effect of the "offset" provision is to limit the total amount of funds provided under the Burns-Porter Act for the construction of the State Water Facilities to $1.75 billion, together with any California Water Fund moneys accruing after the provision ceases to be effective in time to be directly applied to the construction costs of such facilities. Under the current financial analysis, no Water Bonds would be issued for the State Water Facilities after mid-1970, except for $71 million reserved for the then unexpended balance of the $130 million Davis-Grunsky obligation. By mid-1970, about $1,475 million of Water Bond proceeds and $204 million of California Water Fund moneys would have been expended for the State Water Facilities. Therefore, by mid-1970, the entire $1,750 million

Water Bonds issued to date	Weighted maturities[a]	Total interest cost[b]	Net interest cost[c]
$50,000,000 Bond Anticipation Notes, dated 12/1/63, due 6/15/64	26,944	531	1.971
$100,000,000 Series "A", dated 3/1/64, due 1973-2013.[d]	3,402,000	119,750	3.520
Subtotal, through Series "A"	3,428,944	120,281	3.508
$50,000,000 Series "B", dated 5/1/64, due 1974-2014.	1,726,000	60,985	3.533
Subtotal, through Series "B"	5,154,944	181,266	3.516
$100,000,000 Series "C", dated 11/1/64, due 1974-2014.	3,452,000	123,764	3.585
Subtotal, through Series "C"	8,606,944	305,030	3.544
$100,000,000 Series "D", dated 3/1/65, due 1975-2015.	3,497,900	122,403	3.499
Subtotal, through Series "D"	12,104,844	427,433	3.531
$100,000,000 Series "E", dated 12/1/65, due 1975-2015.	3,497,900	130,029	3.717
Subtotal, through Series "E"	15,602,744	557,462	3.573
$100,000,000 Series "F", dated 7/1/66, due 1976-2016.	3,497,900	137,359	3.927
Subtotal, through Series "F"	19,100,644	694,821	3.638
$100,000,000 Series "G", dated 12/1/66, due 1976-2016.	3,497,900	143,788	4.111
Subtotal, through Series "G"	22,598,544	838,609	3.711
$100,000,000 Series "H", dated 4/1/67, due 1977-2017.	3,497,900	129,260	3.695
Subtotal, through Series "H"	26,096,444	967,869	3.709
$100,000,000 Series "J", dated 8/1/67, due 1977-2017.	3,497,900	143,199	4.094
Subtotal, through Series "J"	29,594,344	1,111,068	3.754
$100,000,000 Series "K", dated 11/1/67, due 1977-2017.	3,497,900	163,887	4.685
TOTAL, through Series "K"	33,092,244	1,274,955	3.853[e]
100,000,000 7/68			3.94

a/ In thousands of dollar-years, a unit equivalent to one dollar of principal amount outstanding for one year.

b/ In thousands of dollars.

c/ The total interest cost (without regard to premiums received) divided by the total weighted maturities, expressed as a percent.

d/ Includes $50 million for retirement of bond anticipation notes.

e/ The current project interest rate, as determined by the Department, pursuant to Article 1(r) of the water supply contracts.

of Water Bonds would have been reserved -- for either Davis-Grunsky loans and grants or for additional facilities -- or issued and expended. Of the moneys accruing to the California Water Fund after mid-1970, only $142 million could be applied directly to the remaining construction costs of the State Water Facilities -- however, about $34 million could also be applied to the Middle Fork Eel River Development. Furthermore, about $21 million in "miscellaneous receipts" would accrue too late to be applied to the costs of the State Water Facilities and could be applied, also, to costs of the Middle Fork Eel River Development. Thus, of the $204 million in "offset" bonds reserved by California Water Fund expenditures prior to mid-1970, only about $110 million would be required for financing the costs of the Middle Fork Eel River Development as shown below:

Source of funds	State Water Facilities: Through Mid-1970	State Water Facilities: Mid-1970-1985	State Water Facilities: Total	Additional facilities (Middle Fork Eel River Development)	Total State Water Project
	(in millions of dollars)				
Water Bonds	1,475	71	1,546	110	1,656
California Water Fund	204[a/]	142	346	34	380
Subtotal	1,679	213	1,892	144	2,036
Revenue Bonds	219	0	219	0	219
Miscellaneous Receipts	136	97	233	21	254
Additional Funds	0	269	269	0	269
TOTAL	2,034	579	2,613	165	2,778

a/ These expenditures reserve "offset" bonds; however, only $110 million of such bonds would be used under the current financial analysis.

Continuing Accruals to the California Water Fund. Accruals to the California Water Fund from tideland oil and gas revenues are limited by law to $11 million annually.[226/] The Department assumes continuing annual accruals to the Fund in the statutory amount. In 1985, under the current financial analysis, net operating revenues are expected to be of sufficient annual magnitude to commence repayment of moneys previously used from the California Water Fund. These annual repayments would supplement the continuing accruals to the Fund and would be available to assist in financing those costs of constructing future facilities.

226/ See footnote 48, p. 21.

Revenue Bond Financing

The recent agreement with the several utility companies as to the $16,150,000 firm annual payment for Oroville-Thermalito power permitted the sale of $150 million in Central Valley Project Revenues Bonds, Oroville Division, Series "A", on April 3, 1968.227/ The sale of Series "B" is currently scheduled for the fall of 1968. If the interest rate on this sale approximates that of Series "A", Oroville-Thermalito power would support a total revenue bond issue in the order of $252 million. After provision for certain mandatory reserves, approximately $219 million of the proceeds would be available for financing project capital expenditures. The bonds would mature over a period not to extend beyond April 1, 2018.

As revenue bonds will be supported by revenues from the sale of all Oroville-Thermalito power, neither the service on these bonds nor the revenues from such sale are included in the current financial analysis.

Miscellaneous Receipts

The term "miscellaneous receipts" covers a rather wide range of payments made, or to be made, to the Department pursuant to various agreements, legislative actions, or administrative determinations. The common characteristic of such payments is that they are not required to be deposited in the California Water Resources Development System Bond Fund (established pursuant to the Burns-Porter Act), and thereafter expended solely in accordance with the rigid provisions of that Fund. Such payments are deposited, instead, in the Central Valley Water Project Construction Fund. This disposition affords considerable leeway for the purposes to which such moneys may be applied. An allowable purpose is payment of bond interest during construction and for a period of one year following completion of construction.

Miscellaneous receipts presently are derived from the following sources: (1) certain state appropriations made available prior to the effective date of the Burns-Porter Act, and appropriations to be made available to reimburse those project funds expended for recreation and fish and wildlife enhancement; (2) federal reimbursements for project costs allocable to flood control; (3) advance payments by water supply contractors for construction of excess delivery capability and delivery structures; (4) payments by the City of Los Angeles, Department of Water and Power, under the Cooperative West Branch Power Development; (5) proceeds from right-of-way rentals and sales; and (6) interest earnings from the short-term investment of such miscellaneous receipts.

227/ *See pp. 19, 20.*

The estimated total amount of miscellaneous receipts available for financing the Project, and the use of such receipts as developed in the current financial analysis, is summarized in the following tabulation:

Source of receipts	Actual through 1967	Projected 1968-1985	Total
	(in millions of dollars)		
State Appropriations:			
Appropriations made prior to the Burns-Porter Act	100	0	100
Continuing reimbursements for costs of recreation and fish and wildlife enhancement (through 1984 only) a/	5	86	91
Subtotal	105	86	191
Federal Flood Control Reimbursements:			
Oroville Dam and Lake Oroville	55	15	70 b/
Del Valle Dam and Lake Del Valle	1	5	6
Subtotal	56	20	76
Advance Payments by Water Contractors	21	54	75
Payments by the City of Los Angeles	0	41	41
Right-of-way rentals and sales	6	0	6
Estimated interest earnings	0	20	20
TOTAL MISCELLANEOUS RECEIPTS	188	221	409
Applied to:			
Capital costs	107	147	254
Bond service	12	143	155
Plus (minus) carryover of unused amounts	69	(69)	0
Total	188	221	409

a/ The balance of these reimbursements ($170 million) would be available for financing future construction.

b/ Excludes $2.4 million transferred to revenue bond reserve account. (See Section 907, p. 46 of the "Resolution".)

State Appropriations. About $100 million of capital expenditures were financed by state appropriations made prior to the effective date of the Burns-Porter Act. These special appropriations were from the State General Fund and the California Water Fund.

South Portal of the Angeles Tunnel

In addition to the continuing $11 million annual accrual to the California Water Fund from Long Beach tideland oil and gas revenues, appropriations are made by the State from such revenues to the Central Valley Water Project Construction Fund in the amount of $5 million annually.[228/] These appropriations will reimburse project funds expended for multiple-purpose capital costs allocated to the purposes of recreation and fish and wildlife enhancement, and for the purchases of recreation land. These costs are estimated to total $136 million. As shown on Table 15, annual appropriations in the statutory amount would extend well beyond the year 1985 (the last year of project construction), and would total $261 million in order to fully reimburse such costs with appropriate interest. Only $91 million of the estimated total reimbursement is included in the current financial analysis since the remaining amount could not be utilized to cover capital expenditures of the Project under the current construction program. The remaining amount, however, would be available for financing future construction of the State Water Resources Development System.

Federal Reimbursements. The estimated costs of Oroville and Del Valle would justify a total federal contribution of over $78 million for flood control benefits. These federal contributions are covered by agreements between the Department and the Corps of Engineers, subject to about a two-million-dollar increase in the present contractual limitation for Del Valle contributions. Assumed contributions are shown on Table 16. About $2.4 million of the Oroville contribution must be transferred to the revenue bond reserve account.

Advance Payments from Water Contractors. The total advance payments required of water supply contractors are estimated to be $75 million.

Certain of the Project's water supply contractors, notably, The Metropolitan Water District of Southern California, have requested capacity in the California Aqueduct which would permit water delivery rates exceeding those to be provided under standard contract provisions. The requesting contractors must advance funds, determined by a contractual formula, which would more than cover the estimated additional construction costs involved. The amounts by which such advances exceed the actual additional construction costs involved are credited to the annual water charges paid by the requesting contractors. The estimated annual advances, and credits thereon, are summarized in Table 17.

Originally, The Metropolitan Water District of Southern California had requested 809 cubic feet per second

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228/ See footnote 33, p. 16.

of excess capacity in the West Branch of the California Aqueduct. However, due to subsequent changes in the design of the Branch -- necessitated by the Cooperative West Branch Power Development and other considerations -- the additional costs to be incurred by the State as a result of Metropolitan's original request have become obscure. As a result, Metropolitan and the State propose to amend the water supply contract to reclassify the excess capacity included in designs under the original request as basic capacity of the Project -- thereby relieving Metropolitan's obligation to advance funds for construction of the West Branch. However, since the Project's financial program would be adversely affected by such a reclassification of capacity, Metropolitan would pay a portion of its charges under the contract in advance of the time that such payment otherwise would be required. The current financial analysis assumes that Metropolitan would so prepay $15 million in 1971 under the current construction schedule for the West Branch. This amount is subject to negotiation.

Those delivery structures constructed by the State at the request of the water supply contractors are also financed from funds advanced by the contractors. On the basis of a preliminary estimate, about $16 million will be involved. This estimate is summarized in Appendix B.

Payments by the City of Los Angeles. As a result of the Agreement between the State and the City of Los Angeles for Cooperative West Branch Power Development, those capital costs to be financed by project funds are estimated to increase over and above the cost of those facilities the State would have otherwise constructed.

This cost increase will be more than offset by estimated payments to the State by the City. The current financial analysis assumes that the City would elect to exercise its option to defer payments under a provision of the Agreement. Under the maximum deferral allowable, the City's payments would be $16,137,000 in 1971, $12,429,000 by January 1, 1973, and $12,926,000 by January 1, 1974.

Right-of-Way Rentals and Sales. Project receipts accrue from the rental of right-of-way, the sale or other disposal of right-of-way purchased for features subsequently deleted from the Project, and other income (such as from the interim sale of Big Bend Powerplant generation). These receipts are credited to the capital costs of the concerned facility, in accordance with the Department's accounting procedures. However, the required financing for the credited costs has previously been provided. In order to determine the total expenditures financed, the amounts of costs that have been so credited must be added to the capital costs of

the project facilities -- and the associated receipts considered as an available source of funds in the financial analysis.

Short-Term Interest Earnings. A substantial balance of miscellaneous receipts will be held in reserve for coverage of Water Bond service during years of heavy project construction. In accordance with the criteria developed by the Department in its response to the Water Resources Task Force,[229/] the current financial analysis considers that:

1. No miscellaneous receipts should be programmed for financing construction expenditures prior to 1969.

2. An uncommitted reserve of $10 million of miscellaneous receipts should be maintained until two years after the projected date that net operating revenues will be adequate to cover all Water Bond service thereafter.

A total of about $32 million in miscellaneous receipts had been used for financing capital expenditures as of May 1, 1968. Expenditure of about $7 million of this amount occurred in November 1967, and the remainder in March and April 1968, during the periods immediately preceding the time when proceeds from the sale of Series "K" Water Bonds and Series "A" Revenue Bonds were made available, respectively.

The financial analysis also assumes that the unexpended balance of miscellaneous receipts would be invested at a 4.5 percent interest rate. Interest earnings to date have exceeded this assumed rate of return. During the last six months of 1967, the earning rate of the Surplus Money Investment Fund of the State Treasury, where available balances of project funds are invested, was 4.744 percent per annum.

Supplemental Funds

The current financial analysis indicates that additional funds amounting to about $269 million would be required to finance the estimated capital expenditures shown herein. A portion of these funds could be provided under pending legislation. However, the current financial analysis assumes that all additional funds would be derived from a supplemental authorization of general obligation bonds, and that service on these bonds would be similar to that projected for future sales of Water Bonds.

229/ See footnote 4, p. 3, Appendix "A" thereof.

Under the current financial analysis, that excludes design and construction costs of the San Joaquin Drainage Facilities, the need for additional funds would first be experienced in 1973 and would total about $269 million by 1979. The current financial analysis also indicates that about $94 million in "offset bonds" would remain after financing the construction of the Middle Fork Eel River Development. This residual could be reduced by about $56 million if those miscellaneous receipts and California Water Fund moneys accruing after about 1979 -- used to assist in financing the Development in the analysis -- were used to assist in financing future costs of the San Joaquin Drainage Facilities.

Project Net Operating Revenues

Under the State's administrative policy, the charges assessed for project services will amortize, with interest, all costs of project facilities allocated to such project purposes. The appropriate rate of interest to be reimbursed to the State (known as the "project interest rate") is taken as the weighted average net interest cost on issued Water Bonds, including bond anticipation notes. The estimated operating revenues to be derived from such charges (exclusive of those to be realized from Oroville-Thermalito power sales that are pledged to the support of revenue bonds) are available for the following purposes and order of priority as specified in the Burns-Porter Act:*230/*

1. Coverage of operating costs (exclusive of those allocable to Oroville-Thermalito power), including annual operations, maintenance, power, and replacement costs;

2. Coverage of annual service on Water Bonds;

3. Reimbursement of expenditures made from the California Water Fund; and

4. Financing for future construction of the State Water Resources Development System.

Project operating costs and revenues, less appropriate amounts of Oroville-Thermalito power pledged to the support of revenue bonds, are shown in the tabulation on the following page. The net operating revenues derived therein are available for coverage of estimated Water Bond service, reimbursement of the Water Fund, and future construction.

230/ California Water Code Section 12937(b).

Period	Operating costs		Operating revenues		Net operating revenues available for Water Bond service[b]
	Total for project	Portion funded by power revenues	Total for project[a]	Total Oroville-Thermalito power revenues	
	(1)	(2)	(3)	(4)	(5)
	(in millions of dollars)				
8 years, 1960-67	3	0	58	0	55
3 years, 1968-70	38	1	171	26	108
10 years, 1971-80	320	15	1,137	162	670
10 years, 1981-90	491	15	1,642	175	991
10 years, 1991-00	633	15	1,870	165	1,087
10 years, 2001-10	651	15	1,883	161	1,086
10 years, 2011-20	651	15	1,739	161	942
10 years, 2021-30	651	15	1,306	161	509
2 years, 2031-32	130	3	243	33	83
TOTALS	3,568	94	10,049	1,044	5,531

a/ Including all payments from the sale of Oroville-Thermalito power and project water, federal payments for a share of the operating costs of the San Luis Division, continuing appropriations from the State General Fund for operating costs of joint facilities allocable to recreation and fish and wildlife enhancement, estimated loan repayments under the Davis-Grunsky Program, and short-term interest earnings.

b/ Column (3) plus (2) less (1) less (4).

Operating Costs

All actual and estimated operating expenses for the State Water Project are summarized in Table 18. That table also shows the estimated composition of such costs to be incurred in the future.

For the most part, operating costs do not affect the current financial analysis. Essentially, net operating revenues represent the portion of water charges received by the Project that reimburse allocated capital costs. Generally, the portion of such charges required to reimburse operating costs is directly applied to operating costs during the year in which incurred. For this reason, the projected salaries of operation and maintenance personnel are not increased herein for allowances for future price escalation.

Site excavation for
Pearblossom Pumping Plant

Inclusion of Estimated Payments Under the Water Supply Act of 1958. Table 18 indicates that operating costs will be about $65.1 million annually under full project development conditions. About $14.5 million of this amount would constitute state payments under the Water Supply Act of 1958 for the water supply costs of Dos Rios Dam and Reservoir -- including the amortization of capital costs of the facility allocated to water supply.

This is a new item of operating costs that has not been included in previous financial analyses of the State Water Project.

Pumping Power and Energy Costs. The costs of pumping power and energy constitute the major single item of annual operating costs under full project development -- $39.1 million.

In October 1967, Director Gianelli announced the indefinite postponement of the construction of a state-owned nuclear powerplant. In previous financial analyses,[231] power from a state owned nuclear powerplant was the basis for projecting future costs of power for the Project. Power cost estimates shown in this bulletin reflect competitive costs expected to prevail from more extensive development of nuclear power by California utilities and the realization by the Department of its share of such economies through cooperative participation.[232]

The estimated power and energy costs shown in Table 18 reflect the provisions of all executed contracts -- as well as the competitive costs expected to prevail in the future from more extensive development of nuclear power by California utilities.

Classification of Operating Costs into Components and Programs. The allocation of actual and projected operating costs among project purposes and the classification of such costs into "minimum" and "variable" components are summarized in Table 19. Pursuant to the provisions of the water supply contracts, variable operating costs are those that vary in amounts that are dependent upon the quantities of water being delivered -- and minimum operating costs are those that do not so vary. The items of operating costs included in the minimum and variable components are described in Appendix B.

231/ Includes those reported in Bulletins 132-65, -66, and -67.

232/ Department of Water Resources memorandum from Alfred R. Golze' to Mr. William R. Gianelli, "Nuclear Power Program", December 19, 1967, approved December 19, 1967.

Table 20 presents the distribution of estimated operating costs among State Utility, State Nonutility, and Federal Programs.

Portion Funded by Revenue Bonds. Operating costs of the Oroville-Thermalito power facilities are estimated to be $1,500,000 annually, including reserves totaling $560,000 for replacements and for future increases in cost levels and other contingencies. These costs will be funded exclusively by Oroville-Thermalito power sales. The remaining operating costs of facilities of the Oroville Area, including those of all multiple-purpose facilities, will be paid from other project operating revenues.

Operating Revenues

The Project's operating revenues are primarily derived from State Utility Programs -- particularly, from the sale of project water.

Incidental revenues to be derived from State Nonutility Programs include state appropriations from the General Fund in amounts equal to the operating costs allocable to recreation and fish and wildlife enhancement. Reimbursements derived from the appropriation of tideland gas and oil revenues for capital costs allocable to these purposes are treated in the current financial analysis as "miscellaneous receipts". Such revenues also include the repayment of Davis-Grunsky loans.

Revenues from federal programs include the federal share of annual operating costs for the joint San Luis Division. Federal contributions for flood control, treated in the current financial analysis as "miscellaneous receipts", include amounts covering those operating costs allocable to flood control on a capitalized basis.

The total operating revenues estimated to be realized from State Utility Programs are summarized in Table 21 and include those under existing water supply and power sales contracts.[233/] No revenues are assumed under future drainage contracts for purposes of the current financial analysis.

Power Sales Contracts. The Oroville-Thermalito Power Sales Contract guarantees payment of $16,150,000 annually

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233/ *Assuming execution of an amendment to increase the maximum annual entitlement of the San Bernardino Valley Municipal Water District by 4,600 acre-feet -- see footnote 156, p. 70.*

for the term of the revenue bonds supported thereby.234/ In addition, there may be miscellaneous reimbursements for energy generation in excess of 2.1 billion kilowatt-hours annually, and other payments. For purposes of projecting future project revenues to be derived from Oroville-Thermalito power, these additional power payments are assumed to average $69,000 annually. Furthermore, projections also assumed that these firm and additional annual payments would continue beyond the term of the present contract, under a renewed power sale contract, for the entire project repayment period. However, for purposes of the current financial analysis, those projected payments accruing after the term of the revenue bonds are ignored as a source of funds for financing future construction. Whether or not such moneys will be available to the Project is dependent upon future decisions to be made by the Legislature.

Water Supply Contracts. Reimbursable costs will be returned to the State, with interest, through payments of two separate water charges under the provisions of the water supply contracts: (1) the Delta Water Charge that, together with projected Oroville-Thermalito power revenues, will return the costs of project conservation facilities allocated to water supply and to Oroville-Thermalito power generation; and (2) the Transportation Charge that will return the costs of project transportation facilities allocated to water supply.

Contracts have been executed insuring the return of over 99 percent of the total capital costs of State Utility Programs allocable to water supply. The remaining 1 percent of such costs will be charged to a future contractor to be served from excess capacity constructed in the South Bay Aqueduct. When project water deliveries increase to the maximum, in about 1990, the percentage of such costs to be returned by principal water supply contractors is expected to be as follows:

Water supply contractor	Project conservation facilities	Project transportation facilities
	(in percent)	
The Metropolitan Water District of Southern California	48	64
Kern County Water Agency	27	11
Antelope Valley-East Kern Water Agency	3	4
San Bernardino Valley Municipal Water District	2	4
Other 27 water supply contractors	20	16
Future Contractor (South Bay Area)	0[a]	1
Total	100	100

a/ *The future contractor would, of course, have to pay a share of the conservation costs of an enlarged project yield.*

234/ *See pp. 88-90 for a description of the Contract.*

Both the Delta Water Charge and the Transportation Charge consist of three components -- a capital cost component; a minimum operation, maintenance, power, and replacement component; and a variable operation, maintenance, power, and replacement component. These components are computed and assessed in different ways.

The Delta Water Charge is basically a unit commodity charge for water made available in the Delta. The basis of the charge is a unit rate that, when applied to each acre-foot of future entitlements under all contracts, will amortize all outstanding costs of conservation facilities over the project repayment period, with interest. The costs of future conservation facilities are included in the calculation at certain specified times. The current financial analysis considers that certain provisions of the water supply contract would be amended in this regard as proposed by the Department.235/

Whereas the unit Delta Water Charge is the same for all those contractors with entitlements to project water for a particular year, the relative magnitude of the Transportation Charge varies among contractors as to the distance and pumping lift involved in delivering such water from the Delta. The Transportation Charge represents each respective contractor's share of the reimbursable costs of those project facilities necessary to transport project water from the Delta to the contractor's distribution system.

For purposes of determining each contractor's share, the project transportation facilities are currently subdivided into 59 reaches. The reimbursable capital costs and minimum operation, maintenance, power, and replacement costs are allocated among applicable contractors in proportion to the average of: (1) the maximum annual entitlements to be conveyed from or through each reach; and (2) the capacity provided in each reach to convey such entitlements. Variable operation, maintenance, power, and replacement costs are allocated among contractors in proportion to the annual amounts of project water actually delivered from or through each applicable reach.

Allocated capital costs are reimbursed by the contractors to the Project on various amortization schedules -- generally, in 50 equal annual payments of principal and interest for those contractors with municipal and industrial service areas, or on the basis of a unit rate for those contractors with agricultural service areas. Allocated operations, maintenance, power, and replacement costs are reimbursed during the year in which incurred.

235/ *See pp. 72, 74.*

Table 21 summarizes the annual payments of the Delta Water Charge and the Transportation Charge by all water supply contractors. A detailed development of charges for each respective contractor is presented in Appendix "B", as required for the support of 1969 water charges. However, there are significant differences between the bases for these two sets of data.

The capital costs shown in Appendix "B" are based on state salaries and construction prices prevailing on January 1, 1968. As a general administrative procedure, the Department intends to base the determination of water charges on estimates reflecting then-prevailing price levels. To do otherwise would be to charge inflated prices -- under certain of the rate calculations -- before the inflation of contractor payment capacities has been allowed to occur. Furthermore, the calculations basic to Appendix "B" use the current project interest rate (3.853 percent through the sale of Series "K" Water Bonds) rather than the projected rate of 4.1 percent.

Actual charges paid to date are shown in Table 21 whereas Appendix "B" develops what these past payments should have been under the annual redetermination and adjustment process specified in the water supply contracts. Furthermore, the calculations in Appendix "B" are based on the assumption that the project repayment period would extend through 2035 -- 50 years after the last year of construction under the current schedule. This assumption recognizes the difficulty of accurately predicting when the last year of repayment of Water Bonds will occur. The project repayment period as considered in the current financial analysis terminates 50 years from and including the year of the last sale of Water Bonds shown in that particular analysis -- 2032. If it is determined under future financial analyses that the last payment on Water Bonds will occur prior to 2035, the amortization period for reimbursable capital costs to be incurred during the later years of the project construction period will be adjusted accordingly.

The estimated net credits from advances to be made by water supply contractors for excess capacity, over and above the allocated costs of such capacity, are herein applied to the capital cost components that otherwise would be required from the contractors under the Transportation Charge. The amounts and timing of application of these credits are shown by the values in the last column of Table 17.

Water Bond Service

Assuming the $269 million of additional construction funds are provided through a supplemental bond issue, the current financial analysis demonstrates that projected net operating revenues, together with certain miscellaneous receipts, are sufficient to cover all projected general obligation bond service. Thus, while the State General Fund guarantees the payment of Water Bond service, the financial program is designed to be independent of general tax supported moneys. Over the project repayment period, the financial analysis also shows a substantial remainder of net operating revenues, after providing for bond service and for reimbursement of the California Water Fund, as summarized below:

Period	Net operating revenues	*plus:* Certain miscellaneous receipts[a]	*deduct:* Water Bond service	Balance of net operating revenues: Paid to California Water Fund	Balance of net operating revenues: Available for future construction[b]
	(in millions of dollars)				
8 years, 1960-67	55	12	67	0	0
3 years, 1968-70	108	38	146	0	0
10 years, 1971-80	670	93	763	0	0
10 years, 1981-90	991	12	968	35	0
10 years, 1991-00	1,087	0	979	108	0
10 years, 2001-10	1,086	0	973	113	0
10 years, 2011-20	942	0	695	124	123
10 years, 2021-30	509	0	136	0	373
2 years, 2031-32	83	0	0	0	83
TOTALS	5,531	155	4,727	380	579

a/ The miscellaneous receipts shown are the amounts required, together with net operating revenues, to cover annual bond service. The balance of miscellaneous receipts are applied to capital costs.

b/ Under the Burns-Porter Act, any revenues remaining after reimbursement of the California Water Fund are available for future construction of the State Water Resources Development System.

Annual net operating revenues available for bond service are summarized in Table 22; and, together with the application thereof, are shown graphically on Figure 7.

Scheduling of Water Bond Sales

The sale of each series of Water Bonds is authorized by the California Water Resources Development Finance Committee, established by the Burns-Porter Act. Members of the Committee are the Governor, the State Treasurer, the State Controller, the Director of Finance, and the Director of Water Resources. The Committee first met on January 25, 1962. There have been 21 meetings since that date. During the period April 1, 1967, to April 1, 1968, the following four meetings were held:

1. On February 2, 1967, to authorize $100 million of Series "H" Water Bonds.

2. On June 13, 1967, to authorize $100 million of Series "J" Water Bonds.

3. On October 4, 1967, to authorize $100 million of Series "K" Water Bonds.

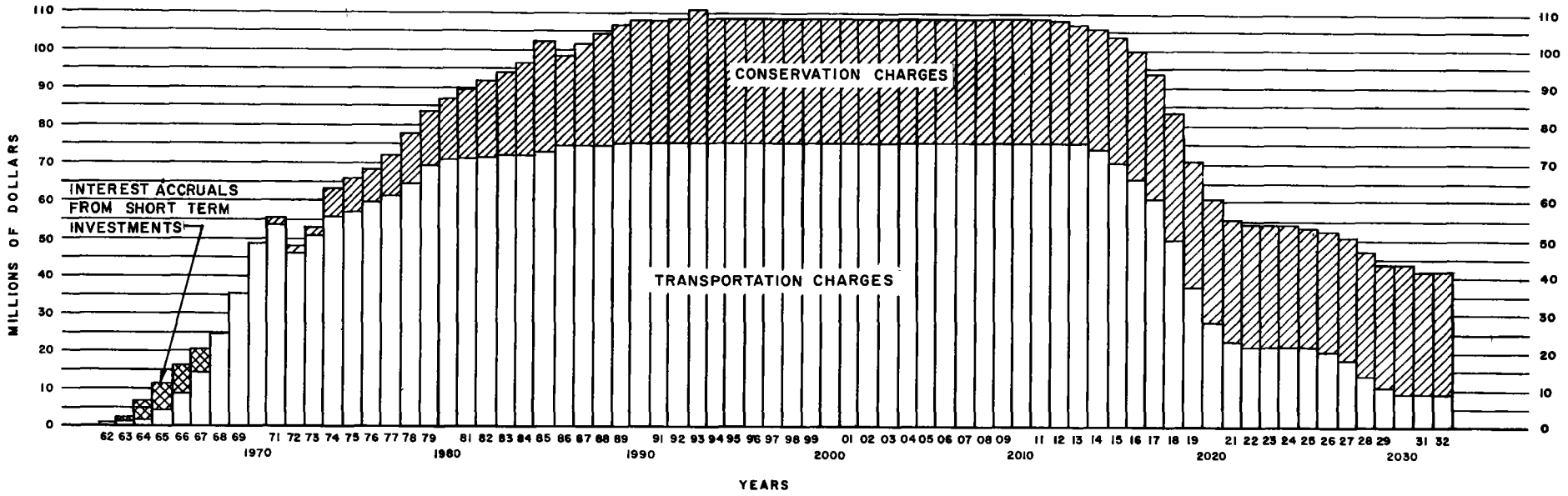
4. On January 15, 1968, to approve the transmittal of the Committee's annual report to the Legislature.236/

The current financial analysis does not attempt to project precisely the annual sale of Water Bonds. A schedule of bond sales in the quantities required through 1970 will have to be reviewed and revised periodically, in light of market conditions, and will necessarily vary from the amounts shown therein. The individual series will be fitted within the State's overall financial requirements in a planned marketing procedure.

Water Bonds are generally sold in advance of construction in order to maintain a prudent level of working capital, and to conform with the overall marketing procedure of the State. The short-term investment of unexpended bond proceeds has produced interest income more than offsetting the interest cost of such advanced sales.

236/ *Department of Water Resources Bulletin (unnumbered) "Report of the California Water Resources Development Finance Committee and Department of Water Resources to the Legislature on the State Water Resources Development System", January 1968.*

NET OPERATING REVENUES



APPLICATION OF NET OPERATING REVENUES

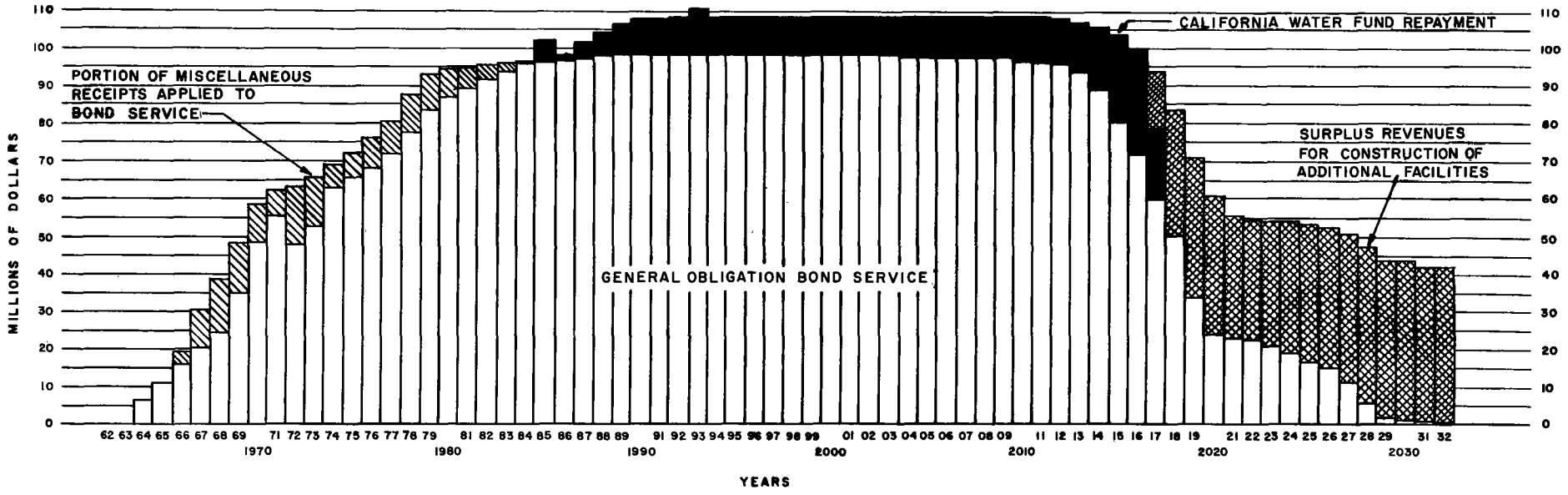


FIGURE 7

Pattern of Water Bond Service

The Burns-Porter Act provides that each issue of Water Bonds must commence to mature not later than 10 years after issuance, with a final maturity not later than 50 years after issuance. A bond service pattern which is considered appropriate to the future revenue pattern is obtained by providing no maturities for the first nine years after issuance, and with maturities scheduled so as to produce approximately level annual service for the years thereafter.

Financial Analysis

The foregoing sections of this chapter have described the criteria and assumptions basic to the current financial analysis for the State Water Project, and have summarized its results.

The actual financial analysis is presented in Table 23. Estimated "miscellaneous receipts" are analyzed in Table 24, and "offset" bonds, in Table 25.

Annual service on actual and projected issues of Water Bonds, and on issues under an assumed supplemental authorization of general obligation bonds, is summarized in Table 26.

Table 27 sets forth the maturities and coupon rates of outstanding Water Bond issues, and Table 28 sets forth the redemption provisions thereof. Although the Burns-Porter Act does not provide for refunding, Water Bonds could be refunded under a supplemental authorization of general obligation bonds.

TABLES

1 Through 28

TABLE 1

CONSTRUCTION CONTRACTS AS OF APRIL 1, 1968[1/]

(in thousands of dollars)

Area	Cost of Contracts Completed	Estimated Cost of Contracts in Progress	Estimated Costs of Contracts not yet Started	Estimated Total Cost for Area	Percent Complete of Estimated Area Total
	(1)	(2)	(3)	(4)	(5)
Administered by Department of Water Resources					
Upper Feather Area	8,031	185	11,273	19,489	41
Oroville Area	150,136	180,951	1,312	332,399	45
North Bay Aqueduct	1,077	520	6,569	8,166	13
South Bay Aqueduct	24,249	19,227	586	44,062	55
North San Joaquin Division	71,251	31,210	9,183	111,644	64
South San Joaquin Division	29,596	112,498	32,753	174,847	17
Tehachapi Division	8,551	147,067	32,906	188,524	5
Mojave Division	3,748	8,163	128,742	140,653	3
Santa Ana Division	744	21,206	118,182	140,132	1
West Branch	2,261	160,750	113,353	276,364	1
Coastal Branch	268	7,235	43,810	51,313	1
State Water Project, General	0	1,843	14,172	16,015	0
Subtotal	299,912	690,855	512,841	1,503,608	20
Administered by U. S. Bureau of Reclamation					
San Luis Division	161,024	67,945	814	229,783	70
TOTAL	460,936	758,800	513,655	1,733,391	27

1/ Does not include data for the Middle Fork Eel River Development, the Peripheral Canal, the future augmentation of the San Luis Canal, nor the San Joaquin Drainage Facilities.

TABLE 2

GENERAL DATA RELATING TO WATER SUPPLY CONTRACTORS

AGENCY	LOCATION (County)	OFFICE (City)	PREDOMINANT TYPE OF WATER SERVICE	MAXIMUM ANNUAL ENTITLEMENT (Acre-feet)	DATE EXECUTED	GROSS AREA AS OF JULY 1, 1967 (Acres)	ASSESSED VALUATION (1966-67)	ESTIMATED POPULATION (July 1, 1967)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Feather River Area								
City of Yuba City	Sutter	Yuba City	M&I	8,300	Dec. 30, 1963	2,900	39,117,000	14,000
				1,300	Sep. 28, 1964			
County of Butte	Butte	Oroville	M&I	27,500	Dec. 26, 1963	1,067,600	231,362,000	101,500
Plumas County Flood Control and Water Conservation District	Plumas	Quincy	M&I	2,700	Dec. 26, 1963	1,644,000 1/	79,889,100 1/	11,900 1/
North Bay Area								
Napa County Flood Control and Water Conservation District	Napa	Napa	M&I	25,000	Dec. 19, 1963	503,900	130,496,000	77,600
Solano County Flood Control and Water Conservation District	Solano	Fairfield	M&I	42,000	Dec. 26, 1963	528,400	265,978,000	169,200
South Bay Area								
Alameda County Flood Control and Water Conservation District, Zone 7	Alameda	Hayward	M&I	40,000	Nov. 20, 1961	272,000	93,139,000	64,700
				6,000	Dec. 30, 1963			
Alameda County Water District	Alameda	Fremont	M&I	42,000	Nov. 29, 1961	60,100	215,876,500	113,400
Santa Clara County Flood Control and Water District	Santa Clara	San Jose	M&I	88,000	Nov. 20, 1961	832,256	2,091,477,200	966,800
				12,000	Dec. 30, 1963			
San Joaquin Valley								
Devil's Den Water District	Kings & Kern	Fresno	Agri.	11,000	Dec. 20, 1963	8,700	1,257,600	Less than 100
				1,700	Sep. 28, 1964			
Dudley Ridge Water District	Kings	Fresno	Agri.	50,000	Dec. 13, 1963	29,900	5,825,500	Less than 50
				7,700	Sep. 28, 1964			
Empire West Side Irrigation District	Kings	Stratford	Agri.	3,000	Dec. 30, 1963	7,700	757,200	Less than 100
Hacienda Water District	Kings	Corcoran	Agri.	8,500	Dec. 20, 1963	15,300	159,600	Less than 50
Kern County Water Agency	Kern	Bakersfield	Agri.	1,000,000	Nov. 15, 1963	5,217,472 2/	894,807,900 2/	339,900 2/
				153,400	Sep. 28, 1964			
Kings County	Kings	Hanford	Rec.	4,000	Aug. 31, 1967	893,500 3/	149,676,900 3/	68,400 3/
Oak Flat Water District	Stanislaus	Westley	Agri.	5,700	Mar. 23, 1965	2,200	205,500	Less than 50
Tulare Lake Basin Water Storage District	Kings & Tulare	Corcoran	Agri.	90,000	Dec. 20, 1963	193,000	9,902,200	Less than 50
				20,000	Dec. 30, 1963			
Central Coastal Area								
San Luis Obispo Flood Control and Water Conservation District	San Luis Obispo	San Luis Obispo	M&I	25,000	Feb. 26, 1963	2,037,700	242,969,700	104,300
Santa Barbara County Flood Control and Water Conservation District	Santa Barbara	Santa Barbara	M&I	50,000	Feb. 26, 1963	1,752,100	584,610,200	249,800
				7,700	Jan. 26, 1965			
Southern California Area								
Antelope Valley-East Kern Water Agency	Los Angeles, Kern & Ventura	Lancaster	M&I	120,000	Sep. 20, 1962	1,421,900	203,294,400	88,500
				18,400	Sep. 22, 1964			
Coachella Valley County Water District	Riverside, Imperial & San Diego	Coachella	M&I	20,000	Mar. 29, 1963	620,600	192,455,100	58,100
				3,100	Sep. 28, 1964			
Crestline-Lake Arrowhead Water Agency	San Bernardino	Crestline	M&I	5,000	Jun. 22, 1963	45,800	32,296,600	10,000
				800	Sep. 28, 1964			
Desert Water Agency	Riverside	Palm Springs	M&I	33,000	Oct. 17, 1962	163,200	122,312,600	29,700
				5,100	Oct. 2, 1964			
Littlerock Creek Irrigation District	Los Angeles	Littlerock	M&I	2,000	Jun. 22, 1963	11,300	3,973,700	1,400
				300	Sep. 28, 1964			
Mojave Water Agency	San Bernardino	Victorville	M&I	44,000	Jun. 22, 1963	3,157,100	189,464,500	90,000
				6,800	Sep. 28, 1964			
Palmdale Irrigation District	Los Angeles	Palmdale	M&I	15,000	Feb. 2, 1963	73,700	22,178,200	20,000
				2,300	Sep. 28, 1964			
San Bernardino Valley Municipal Water District	San Bernardino	San Bernardino	M&I	85,000	Dec. 20, 1960	150,000	487,289,700	350,000
				13,000	Sep. 28, 1964			
				4,600	Approved			
San Gabriel Valley Municipal Water District	Los Angeles	Alhambra	M&I	25,000	Nov. 3, 1962	16,000	280,585,200	152,900
				3,800	Sep. 28, 1964			
San Gorgonio Pass Water Agency	Riverside	Redlands	M&I	15,000	Nov. 16, 1962	140,600	50,449,000	28,500
				2,300	Jan. 19, 1965			
The Metropolitan Water District of Southern California	Los Angeles, San Diego, Riverside, San Bernardino, Orange, & Ventura	Los Angeles	M&I	1,500,000	Nov. 4, 1960	2,890,300	20,979,150,200	9,860,000
				500,000	Sep. 28, 1964			
				11,500	Aug. 4, 1965			
Upper Santa Clara Valley Water Agency	Los Angeles	Newhall	M&I	23,000	Apr. 30, 1963	125,000	92,598,200	38,200
	Ventura			3,500	Dec. 22, 1964			
				15,000	Jan. 29, 1966			
Ventura County Flood Control District	Ventura	Ventura	M&I	20,000	Dec. 2, 1963	1,170,567 4/	872,727,100 4/	330,800 4/
TOTALS FOR AGENCY AREAS				4,230,000		25,054,795	28,566,281,600	13,340,000

1/ Total for Plumas County, including Last Chance Creek Water District.
2/ Total for Kern County, including about 60 percent of Devil's Den Water District and most of Antelope Valley-East Kern Water Agency.
3/ 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 percent of Devil's Den Water District.
4/ Total for Ventura County, including about 9,300 acres in Antelope Valley-East Kern Water Agency, about 9,200 acres in The Metropolitan Water District of Southern California, and 15,000 acres in Upper Santa Clara Valley Water Agency.

TABLE 3

PROJECT WATER DEMANDS AT THE DELTA

(in acre-feet)

CALENDAR YEAR	ANNUAL ENTITLEMENTS TO PROJECT WATER					SURPLUS WATER[1]	CONSTRUCTION WATER[2]	OPERATIONAL LOSSES[3]	RECREATION WATER[4]	TOTAL DEMANDS AT THE DELTA
	FEATHER RIVER AREA	NORTH BAY AQUEDUCT	SOUTH BAY AQUEDUCT	CALIFORNIA AQUEDUCT	TOTAL					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1962	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0
67	0	0	11,538	0	11,538	0	6,842	1,341	0	19,721
68	550	0	109,900	96,200	206,650	154,397	324,132	133,674	0	818,853
69	620	0	112,300	151,600	264,520	0	656,808	147,533	0	1,068,861
1970	700	0	114,200	207,200	322,100	0	153,734	173,579	0	649,413
71	890	0	116,200	338,500	455,590	0	136,592	195,047	9,500	796,729
72	970	0	118,300	719,770	839,040	0	193,629	221,952	23,500	1,278,121
73	1,100	0	120,400	880,700	1,002,200	0	105,000	227,961	23,500	1,358,661
74	1,230	0	122,400	1,039,820	1,163,450	0	142,480	235,052	23,500	1,564,482
75	1,610	0	124,500	1,201,450	1,327,560	0	29,401	236,152	23,500	1,616,613
76	1,990	0	126,500	1,375,880	1,504,370	0	0	236,152	23,500	1,764,022
77	2,420	0	128,600	1,550,901	1,681,921	0	0	236,152	23,500	1,941,573
78	2,850	0	130,700	1,726,222	1,859,772	0	0	236,152	23,500	2,119,424
79	3,280	0	132,700	1,898,773	2,034,753	0	0	236,152	23,500	2,294,405
1980	4,710	19,250	134,800	2,084,114	2,242,874	0	87,946	249,552	45,500	2,625,872
81	10,390	21,750	137,000	2,268,465	2,437,605	0	9,082	249,552	45,500	2,741,739
82	12,270	24,400	139,200	2,452,606	2,628,476	0	0	249,552	45,500	2,923,528
83	14,200	27,050	141,400	2,642,657	2,825,307	0	0	249,552	45,500	3,120,359
84	16,130	29,600	143,600	2,830,798	3,020,128	0	0	249,552	45,500	3,315,180
85	19,060	32,750	145,800	3,023,149	3,220,759	0	0	249,552	45,500	3,515,811
86	22,190	36,500	148,100	3,214,190	3,420,980	0	0	249,552	45,500	3,716,032
87	25,370	41,250	150,300	3,407,941	3,624,861	0	0	249,552	45,500	3,919,913
88	29,560	49,500	152,500	3,600,282	3,831,842	0	0	249,552	45,500	4,126,894
89	33,850	58,250	156,700	3,784,233	4,033,033	0	0	249,552	45,500	4,328,085
1990	38,140	67,000	160,900	3,927,800	4,193,840	0	0	249,552	45,500	4,488,892
91	38,180	67,000	166,400	3,935,200	4,206,780	0	0	249,552	45,500	4,501,832
92	38,220	67,000	171,900	3,935,200	4,212,320	0	0	249,552	45,500	4,507,372
93	38,260	67,000	177,400	3,935,200	4,217,860	0	0	249,552	45,500	4,512,912
94	38,300	67,000	182,000	3,935,200	4,222,500	0	0	249,552	45,500	4,517,552
95	38,350	67,000	184,000	3,935,200	4,224,500	0	0	249,552	45,500	4,159,602
96	38,400	67,000	186,000	3,935,200	4,226,600	0	0	249,552	45,500	4,521,652
97	38,450	67,000	188,000	3,935,200	4,228,650	0	0	249,552	45,500	4,523,702
98	38,500	67,000	188,000	3,935,200	4,228,700	0	0	249,552	45,500	4,523,752
99	38,550	67,000	188,000	3,935,200	4,228,750	0	0	249,552	45,500	4,523,802
2000	38,610	67,000	188,000	3,935,200	4,228,810	0	0	249,552	45,500	4,523,862
01	38,670	67,000	188,000	3,935,200	4,228,870	0	0	249,552	45,500	4,523,922
02	38,730	67,000	188,000	3,935,200	4,228,930	0	0	249,552	45,500	4,523,982
03	38,790	67,000	188,000	3,935,200	4,228,990	0	0	249,552	45,500	4,524,042
04	38,850	67,000	188,000	3,935,200	4,229,050	0	0	249,552	45,500	4,524,102
05	38,910	67,000	188,000	3,935,200	4,229,110	0	0	249,552	45,500	4,524,162
06	38,980	67,000	188,000	3,935,200	4,229,180	0	0	249,552	45,500	4,524,232
07	39,050	67,000	188,000	3,935,200	4,229,250	0	0	249,552	45,500	4,524,302
08	39,120	67,000	188,000	3,935,200	4,229,320	0	0	249,552	45,500	4,524,372
09	39,190	67,000	188,000	3,935,200	4,229,390	0	0	249,552	45,500	4,524,442
2010	39,260	67,000	188,000	3,935,200	4,229,460	0	0	249,552	45,500	4,524,512
11	39,340	67,000	188,000	3,935,200	4,229,540	0	0	249,552	45,500	4,524,592
12	39,420	67,000	188,000	3,935,200	4,229,620	0	0	249,552	45,500	4,524,672
13	39,510	67,000	188,000	3,935,200	4,229,710	0	0	249,552	45,500	4,524,762
14	39,600	67,000	188,000	3,935,200	4,229,800	0	0	249,552	45,500	4,524,852
15	39,700	67,000	188,000	3,935,200	4,229,900	0	0	249,552	45,500	4,524,952
2016[5]	39,800	67,000	188,000	3,935,200	4,230,000	0	0	249,552	45,500	4,525,052

1/ Total water under contract with water supply contractors for delivery as surplus water.
2/ Water for the initial filling of all facilities below the Delta.
3/ Water to compensate for operation losses.
4/ Deliveries for specific recreation usage.
5/ And each year thereafter for the remainder of the project repayment period.

TABLE 4

ESTIMATED ANNUAL PROJECT ENERGY GENERATION

(in millions of kilowatt-hours)

CALENDAR YEAR	AQUEDUCT POWERPLANTS							OROVILLE-THERMALITO POWERPLANTS		
	San Luis Pumping-Generating Plant	Cottonwood Powerplant	Devil Canyon Powerplant	Pyramid Powerplant	Castaic Powerplant	San Luis Obispo Powerplant	Total	Generation	Pumpback	Net Generation
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1968	15	0	0	0	0	0	15	525	4	521
69	24	0	0	0	0	0	24	1,921	559	1,362
1970	7	0	0	0	0	0	7	2,858	556	2,302
71	12	0	0	0	153	0	165	2,858	556	2,302
72	89	0	0	0	267	0	356	2,858	556	2,302
73	76	0	0	0	276	0	352	2,858	556	2,302
74	164	0	0	0	496	0	660	2,858	556	2,302
75	164	0	0	0	476	0	640	2,585	556	2,302
76	27	0	0	0	559	0	586	2,858	556	2,302
77	50	0	0	0	600	0	650	2,858	556	2,302
78	70	0	0	0	704	0	774	2,858	556	2,302
79	116	0	0	0	788	0	904	2,858	556	2,302
1980	132	0	492	486	864	1	1,975	2,858	556	2,302
81	137	49	422	522	923	2	2,055	2,858	556	2,302
82	147	63	478	560	989	4	2,241	2,858	556	2,302
83	161	76	575	607	1,069	5	2,493	2,858	556	2,302
84	166	82	609	588	1,037	8	2,490	2,858	556	2,302
85	170	93	702	634	1,115	13	2,727	2,858	556	2,302
86	0	95	727	649	1,139	17	2,627	2,858	556	2,302
87	42	96	754	727	1,270	21	2,910	2,858	556	2,302
88	76	103	768	803	1,395	26	3,171	2,858	556	2,302
89	97	104	770	846	1,464	33	3,314	2,858	556	2,302
1990	119	106	772	860	1,488	42	3,387	2,858	556	2,302
91	119	116	803	840	1,455	42	3,375	2,858	556	2,302
92	119	116	803	840	1,455	42	3,375	2,858	556	2,302
93	119	116	803	840	1,455	42	3,375	2,858	556	2,302
94	119	116	803	840	1,455	42	3,375	2,858	556	2,302
95	119	116	803	840	1,455	42	3,375	2,858	556	2,302
96	119	116	803	840	1,455	42	3,375	2,858	556	2,302
97	119	116	803	840	1,455	42	3,375	2,858	556	2,302
98	119	116	803	840	1,455	42	3,375	2,858	556	2,302
99	119	116	803	840	1,455	42	3,375	2,858	556	2,302
2000 1/	119	116	803	840	1,455	42	3,375	2,858	556	2,302

1/ And each year thereafter for the remainder of the project repayment period.

TABLE 5

ESTIMATED ANNUAL PROJECT ENERGY REQUIREMENTS FOR PUMPING

(in millions of kilowatt-hours)

CALENDAR YEAR	NORTH BAY AQUEDUCT		PERIPHERAL CANAL PUMPING PLANT	SOUTH BAY AQUEDUCT PUMPING PLANTS	CALIFORNIA AQUEDUCT											TOTAL
	CALHOUN PUMPING PLANT	CORDELIA PUMPING PLANT 1/			DELTA PUMPING PLANT	SAN LUIS PUMPING-GENERATING PLANT	DOS AMIGOS PUMPING PLANT	BUENA VISTA PUMPING PLANT	WHEELER RIDGE PUMPING PLANT	WIND GAP PUMPING PLANT	A. D. EDMONSTON PUMPING PLANT	PEARBLOSSOM PUMPING PLANT	OSO PUMPING PLANT	LAS PERILLAS & BADGER HILL PUMPING PLANTS	DEVIL'S DEN, SAWTOOTH, & POLONIO PUMPING PLANTS	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1962	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
63	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
64	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	19
65	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	28
66	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	46
67	0	0	0	48	7	0	0	0	0	0	0	0	0	0	0	55
68	0	2	0	88	209	165	33	0	0	0	0	0	0	8	0	505
69	0	2	0	94	257	223	41	0	0	0	0	0	0	12	0	629
1970	0	2	0	100	434	294	55	9	7	9	2	0	0	14	0	926
71	0	2	0	101	305	103	107	77	78	162	581	12	62	14	0	1,604
72	0	3	0	103	337	145	187	188	192	406	1,498	155	103	16	0	3,333
73	0	3	0	104	404	211	198	196	199	417	1,541	127	118	18	0	3,536
74	0	4	0	106	478	198	238	245	254	537	1,991	140	163	22	0	4,376
75	0	4	0	108	485	191	237	234	241	504	1,868	158	140	24	0	4,194
76	0	4	14	109	546	107	268	271	280	587	2,178	182	163	27	0	4,736
77	0	5	15	111	591	140	293	297	305	640	2,378	205	175	30	0	5,185
78	0	5	14	112	650	139	324	334	343	722	2,678	212	204	30	0	5,767
79	0	6	18	113	710	156	362	381	393	831	3,074	262	228	31	0	6,565
1980	1	10	18	116	796	184	411	440	456	966	3,568	345	250	35	11	7,607
81	2	11	28	117	822	203	422	445	459	970	3,576	301	267	37	13	7,673
82	2	11	30	119	886	209	453	480	495	1,048	3,858	330	286	39	21	8,267
83	2	12	32	121	961	216	496	534	550	1,166	4,295	392	310	42	27	9,156
84	2	13	36	123	981	216	512	544	559	1,184	4,350	426	301	45	37	9,329
85	2	14	39	124	1,070	225	554	596	613	1,300	4,775	486	324	49	61	10,232
86	2	15	49	126	1,097	189	574	613	629	1,332	4,887	496	331	53	77	10,470
87	2	16	43	128	1,144	77	612	658	676	1,432	5,252	499	370	56	94	11,059
88	3	17	43	130	1,216	83	656	714	734	1,556	5,709	532	408	60	117	11,978
89	3	18	45	133	1,275	115	682	741	762	1,615	5,923	536	429	65	148	12,490
1990	3	19	46	136	1,319	151	702	757	778	1,648	6,039	546	436	72	183	12,835
91	3	19	48	140	1,335	153	710	770	792	1,680	6,157	601	426	72	184	13,090
92	3	19	48	140	1,335	153	710	770	792	1,680	6,157	601	426	72	184	13,090
93	3	19	48	140	1,335	153	710	770	792	1,680	6,157	601	426	72	184	13,090
94	3	19	48	140	1,335	153	710	770	792	1,680	6,157	601	426	72	184	13,090
95	3	19	48	140	1,335	153	710	770	792	1,680	6,157	601	426	72	184	13,090
96	3	19	48	140	1,335	153	710	770	792	1,680	6,157	601	426	72	184	13,090
97	3	19	48	140	1,335	153	710	770	792	1,680	6,157	601	426	72	184	13,090
98	3	19	48	140	1,335	153	710	770	792	1,680	6,157	601	426	72	184	13,090
99 2/	3	19	48	140	1,335	153	710	770	792	1,680	6,157	601	426	72	184	13,090
2000 2/	3	19	48	140	1,335	153	710	770	792	1,680	6,157	601	426	72	184	13,090

1/ During the years 1968 through 1979, an interim pumping plant will pump from the federal Solano Project terminal reservoir.
2/ And each year thereafter for the remainder of the project repayment period.

TABLE 6

UPPER FEATHER AREA
MONTHLY RESERVOIR OPERATION

(in acre-feet unless otherwise indicated)

MONTH	RESERVOIR STORAGE			OUTFLOW							INFLOW
				REGULATED RELEASES							
	WATER SURFACE ELEVATION (in feet)	END OF MONTH STORAGE	MONTHLY STORAGE CHANGE	PROJECT WATER 1/	CONTRACT RELEASE	WATER RIGHT ENTITLEMENT	TOTAL	SPILL	ESTIMATED EVAPORATION AND SEEPAGE	TOTAL GROSS OUTFLOW	COMPUTED OR ESTIMATED
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
FRENCHMAN LAKE											
1967											
January	5,577.50	40,327	1,807	123	0	0	123	0	89	212	2,019
February	5,579.42	42,871	2,544	111	0	0	111	0	102	213	2,757
March	5,585.69	51,844	8,973	123	0	0	123	0	180	303	9,276
April	5,588.57	56,322	4,478	158	0	0	158	911	306	1,375	5,853
May	5,589.41	57,673	1,351	126	0	0	126	18,620	523	19,269	20,620
June	5,588.50	56,210	-1,463	119	0	0	119	9,648	563	10,330	8,867
July	5,587.28	54,287	-1,923	45	1,163	0	1,208	711	995	2,914	991
August	5,583.04	47,926	-6,361	0	5,665	0	5,665	0	1,005	6,670	309
September	5,581.72	46,044	-1,882	0	1,537	0	1,537	0	683	2,220	338
October	5,581.64	45,931	- 113	117	15	0	132	0	409	541	428
November	5,581.78	46,128	197	119	0	0	119	0	254	373	570
December	5,582.15	46,652	524	123	0	0	123	0	212	335	859
TOTALS	-	-	8,132	1,164	8,380 2/	0	9,544	29,890	5,321	44,755	52,887
ANTELOPE LAKE											
1967											
January	4,999.14	19,937	1,361	615	0	0	615	0	59	674	2,035
February	5,000.98	21,574	1,637	555	0	0	555	0	69	624	2,261
March	5,002.72	23,189	1,615	181	0	128	309	3,869	118	4,296	5,911
April	5,002.58	23,056	- 133	0	0	0	0	4,639	185	4,824	4,691
May	5,003.72	24,145	1,089	72	0	0	72	21,660	310	22,042	23,131
June	5,002.65	23,122	-1,023	1	0	0	1	15,350	335	15,686	14,663
July	5,002.15	22,653	- 469	428	0	0	428	2,044	591	3,063	2,594
August	5,001.61	22,152	- 501	321	0	304	625	35	511	1,171	670
September	5,000.98	21,574	- 578	267	0	327	594	0	311	905	327
October	5,000.77	21,384	- 190	277	0	338	615	0	263	878	688
November	5,000.85	21,456	72	595	0	0	595	0	154	749	821
December	5,001.19	21,766	310	615	0	0	615	0	127	742	1,052
TOTALS	-	-	3,190	3,927	0	1,097 3/	5,024	47,597	3,033	55,654	58,844
LAKE DAVIS											
1966											
December	5,728.27	1,656	1,451	292	0	0	292	0	13	305	1,756
1967											
January	5,733.98	3,206	1,550	236	0	0	236	0	15	251	1,801
February	5,742.61 4/	8,178 4/	4,972	233	0	0	233	0	48	281	5,253
March	5,751.33	18,310	10,132	217	0	0	217	0	141	358	10,490
April	5,753.65	22,187	3,877	208	0	0	208	0	331	539	4,416
May	5,763.66	45,412	23,225	150	0	128	278	0	739	1,017	24,242
June	5,766.37	53,507	8,095	133	0	161	294	0	1,062	1,356	9,451
July	5,765.90	51,978	-1,529	298	0	48	346	0	1,959	2,305	776
August	5,765.38	50,286	-1,692	56	0	181	237	0	2,041	2,278	586
September	5,764.96 4/	48,940 4/	-1,346	57	0	147	204	0	1,440	1,644	298
October	5,764.75	48,370	- 570	241	0	0	241	0	862	1,103	533
November	5,764.68	48,181	- 189	238	0	0	238	0	502	740	551
December	5,765.06	49,244	1,063	246	0	0	246	0	418	664	1,727
TOTALS (1967)	-	-	47,588	2,313	0	665	2,978	0	9,558	12,536	60,124

1/ Releases required specifically for stream flow maintenance.
2/ Released under the interim contract with Last Chance Water District.
3/ Releases required to satisfy water rights entitlements in Indian Valley.
4/ Estimate.

TABLE 7

OROVILLE AREA MONTHLY OPERATION

(in acre-feet unless otherwise indicated)

MONTH	LAKE OROVILLE				EDWARD HYATT POWERPLANT			THERMALITO DIVERSION DAM POOL		
	Reservoir Storage			Releases	Water Passing thru Plant for:			Reservoir Storage		
	Water Surface Elevation[1]	End of Month Storage	Monthly Storage Change	Palermo Canal	Generation	Pumpback	Net	Water Surface Elevation[1]	End of Month Storage	Monthly Storage Change
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1967										
January	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	207.07	8,021	8,021
November	355.56	39,864	39,864	0	0	0	0	219.75	11,825	3,804
December	454.56	165,642	125,778	0	0	0	0	224.47	13,241[2]	1,416
TOTAL	-	-	165,642	0	0	0	0	-	-	13,241

MONTH	FISH BARRIER DAM AND FISH HATCHERY		THERMALITO FOREBAY AND POWER CANAL					THERMALITO POWERPLANT		
	River Releases		Releases from Canal		Storage			Water Passing thru Plant for:		
	Barrier Dam	Hatchery	Thermalito Irrigation District	California Water Service	Water Surface Elevation[1]	End of Month Storage	Monthly Storage Change	Generation	Pumpback	Net
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1967										
January	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	-	3,194[2]	3,194	0	0	0
November	91,589	2,380[2]	0	0	-	8,960[2]	5,766	0	0	0
December	3,578	2,460	0	0	224.43	11,795[2]	2,835	0	0	0
TOTAL	95,167	4,840	0	0	-	-	11,795	0	0	0

MONTH	THERMALITO AFTERBAY								
	Reservoir Storage			Releases					
	Water Surface Elevation[1]	End of Month Storage	Monthly Storage Change	Sutter Butte Canal	P. G. & E. Lateral	Richvale Canal	Western Canal	River Outlet	Total
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
1967									
January	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0
October	119.10[2]	1,574[2]	1,574	0	0	0	0	0	0
November	123.54[2]	13,788[2]	12,214	545	0	0	18,200	0	18,745
December	126.56	21,908[2]	8,120	1,545	0	0	8,801	3,578	13,924
TOTAL	-	-	21,908	2,090	0	0	27,001	3,578	32,669

1/ In feet.

2/ Estimate.

TABLE 8

SOUTH BAY AQUEDUCT MONTHLY OPERATION[1/]

(in acre-feet unless otherwise indicated)

MONTH	SUPPLY FROM DELTA-MENDOTA CANAL	DELTA-MENDOTA CANAL TO SOUTH BAY PUMPING PLANT			AMOUNT PUMPED AT SOUTH BAY PUMPING PLANT	SOUTH BAY PUMPING PLANT TO TERMINUS				ELECTRICAL ENERGY CONSUMPTION (in kilowatt hours)
		STORAGE CHANGES		LOSSES[2/]		STORAGE CHANGES		LOSSES[2/]	DELIVERIES TO WATER SUPPLY CONTRACTORS	
		BETHANY RESERVOIR	AQUEDUCT			PATTERSON RESERVOIR	AQUEDUCT			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1967										
January	5,466	102	0	342	5,022	0	0	202	4,820	4,697,600
February	551	- 106	0	25	632	0	0	30	602	603,200
March	2,907	22	0	44	2,841	6	0	30	2,805	2,212,800
April	777	103	0	57	617	0	0	38	579	656,000
May	2,250	- 93	0	186	2,157	0	0	124	2,033	1,641,600
June	5,850	43	0	328	5,479	0	0	219	5,260	4,126,300
July	7,757	- 139	0	504	7,392	0	0	244	7,148	5,926,400
August	7,663	- 7	0	345	7,325	0	0	222	7,103	6,411,200
September	7,054	298	0	98	6,658	0	0	66	6,592	5,710,400
October	5,439	-1,022	0	193	6,268	0	0	194	6,074	5,985,600
October	(3,110)	(1,209)	(0)	(0)	(1,901)	(0)	0	(59)	(1,842	
November[3/]	2,340	0	0	179	2,161	-95	0	47	2,209	5,168,000
November	(3,286)	(- 56)	(0)	(0)	(3,342)	(0)	0	(72)	(3,270)	
December	(6,339)	(- 331)	(0)	(25)	(6,645)	(95)	0	(124)	(6,426)	4,516,800
Total, USBR	48,054	- 799	0	2,301	46,552	-89	0	1,416	45,225	-
Total, State	(12,735)	(822)	(0)	(25)	(11,888)	(95)	0	(255)	(11,538)	-
TOTAL	60,789	23	0	2,326	58,440	6	0	1,671	56,763	47,655,900
Total, USBR[4/] March - Dec.	42,037	- 795	0	1,934	40,898	-89	0	1,184	39,803	33,360,989

MONTH	SUMMARY OF DELIVERIES TO WATER SUPPLY CONTRACTORS BY AQUEDUCT TURNOUT										
	ALAMEDA COUNTY F.C. & W.C.D., ZONE 7					ALAMEDA CO. W.D.		SANTA CLARA CO. F.C. & W.D.		TOTAL	
	ALTAMONT		PATTERSON	TEMPORARY[5/]	WENTE #1 & #2	VALLECITOS		SANTA CLARA METER		MUNICIPAL & INDUSTRIAL	AGRICULTURAL
	MUNICIPAL & INDUSTRIAL	AGRICULTURAL	MUNICIPAL & INDUSTRIAL	MUNICIPAL & INDUSTRIAL	AGRICULTURAL	MUNICIPAL & INDUSTRIAL	AGRICULTURAL	MUNICIPAL & INDUSTRIAL	AGRICULTURAL		
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
1967											
January	31	83	121	12	0	731	730	1,494	1,618	2,389	2,431
February	23	52	108	11	18	0	0	187	203	329	273
March	4	2	162	24	5	360	361	906	981	1,456	1,349
April	0	0	162	19	0	0	0	191	207	372	207
May	55	106	263	126	11	0	0	707	765	1,151	882
June	98	214	243	108	14	0	0	2,200	2,383	2,649	2,611
July	89	157	300	59	126	197	197	2,891	3,132	3,536	3,612
August	65	0	325	78	103	293	293	2,854	3,092	3,615	3,488
September	82	116	261	55	9	703	702	2,239	2,425	3,340	3,252
October	43	71	147	35	0	999	1,000	1,814	1,965	3,038	3,036
October	(13)	(21)	(45)	(10)	(1)	(303)	(303)	(550)	(596)	(921)	(921)
November	6	8	52	11	0	534	534	511	553	1,114	1,095
November	(8)	(13)	(77)	(17)	(0)	(790)	(790)	(756)	(819)	(1,648)	(1,622)
December	(42)	(125)	(125)	(10)	(0)	(1,531)	(1,531)	(1,470)	(1,592)	(3,178)	(3,248)
Total, USBR	496	809	2,144	538	286	3,817	3,817	15,994	17,324	22,989	22,236
Total, State	(63)	(159)	(247)	(37)	(1)287	(2,624)	(2,624)	(2,776)	(3,007)	(5,747)	(5,791)
TOTAL	559	968	2,391	575	287	6,441	6,441	18,770	20,331	28,736	28,027
Total, USBR[4/] March - Dec.	442	674	1,915	515	268	3,086	3,087	14,313	15,503	20,271	19,532

1/ Figures in parenthesis are amounts of project water pumped through the North San Joaquin Division by the Delta Pumping Plant. All other amounts are purchases from the U. S. Bureau of Reclamation diverted from the Delta-Mendota Canal through the interim facilities.
2/ Includes operational spills, water surface evaporation, and seepage.
3/ The Interim Intake Canal from the Delta-Mendota Canal to Bethany Reservoir was decommissioned November 26, 1967.
4/ Total for the 1967-68 U. S. Bureau of Reclamation Water Year.
5/ Located near Del Valle Branch Pipeline turnoff to supply water for construction of Del Valle Dam.

TABLE 9

CALIFORNIA AQUEDUCT, SAN LUIS DIVISION
MONTHLY RESERVOIR OPERATION

(in acre-feet unless otherwise noted)

MONTH	O'NEILL FOREBAY			SAN LUIS RESERVOIR			LOS BANOS DETENTION RESERVOIR			LITTLE PANOCHE CREEK DETENTION RESERVOIR		
	Water Surface Elevation (in feet)	End of Month Storage	Monthly Storage Change	Water Surface Elevation (in feet)	End of Month Storage	Monthly Storage Change	Water Surface Elevation (in feet)	End of Month Storage	Monthly Storage Change	Water Surface Elevation (in feet)	End of Month Storage	Monthly Storage Change
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
January	224.17	39,063	13,027	287.50	6,091	3,176	299.41	9,368	3,388	581.65	136	38
February	223.94	38,658	- 405	288.45	6,604	513	304.16	10,951	3,583	582.42	148	12
March	223.70	38,243	- 415	288.54	6,653	49	306.05	11,615	664	583.09	160	12
April	222.55	47,391 1/	9,148	307.93	27,669	21,016	319.94	17,064	5,449	583.92	174	14
May	222.95	48,266	875	327.80	86,067	58,398	320.58	17,337	273	583.85	173	- 1
June	223.80	49,592 2/	1,326	340.97	144,008	57,941	320.12	17,140	- 197	583.40	165	- 8
July	222.07	45,863 2/	-3,729	340.33	140,891	-3,117	319.27	16,780	- 360	582.68	153	- 12
August	223.08	46,581 2/	718	339.47	136,742	-4,149	318.51	16,461	- 319	581.99	141	- 12
September	224.20	51,067	4,486	339.15	135,207	-1,535	317.90	16,207	- 254	581.48	133	- 8
October	222.20	46,627	-4,440	338.73	133,214	-1,993	317.42	16,008	- 199	581.40	132	- 1
November	223.23	48,889	2,262	338.77	133,402	188	317.35	15,979	- 29	582.95	157	25
December	224.08	50,795	1,906	338.64	132,789	- 613	317.19	15,913	- 66	584.02	176	19
Total	-	-	24,759	-	-	129,874	-	-	9,933	-	-	78

1/ During April 1967 the aqueduct inlet structure was opened and water entered the reach from O'Neill Forebay to Dos Amigos Pumping Plant. Beginning on the 14th of April, a new capacity table which includes the volume of this aqueduct reach was used.

2/ Between June 8, 1967, and September 14, 1967, the aqueduct inlet structure was closed to conduct a leak check of the canal. End of month storages during this period do not include the aqueduct.

TABLE 10

SUMMARY OF ANNUAL CAPITAL EXPENDITURES 1/

(in thousands of dollars)

CALENDAR YEAR	LOCAL PROJECTS (DAVIS GRUNSKY PROGRAMS)	SAN JOAQUIN DRAINAGE FACILITY	UPPER FEATHER AREA	OROVILLE AREA	DELTA FACILITIES	MIDDLE FORK EEL RIVER DEVELOPMENT	CALIFORNIA AQUEDUCT	NORTH BAY AQUEDUCT	SOUTH BAY AQUEDUCT	UNALLOCATED COSTS	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
					FROM FUNDS PROVIDED PRIOR TO THE BURNS-PORTER ACT 2/						
1952	0	0	0	171	0	0	117	0	1	15	304
53	0	0	0	307	0	0	362	0	3	47	719
54	0	0	0	299	0	0	459	0	9	85	852
55	0	0	0	190	0	0	189	0	12	91	482
56	0	0	0	1,370	0	0	300	0	119	30	1,819
57	0	0	12	6,310	0	0	835	27	796	43	8,023
58	0	0	229	9,599	0	0	1,565	50	965	67	12,475
59	0	0	660	10,361	0	0	3,462	30	876	73	15,462
1960	0	51	1,138	13,414	75	0	4,489	27	1,857	30	21,081
61	0	251	713	15,559	308	0	3,774	13	3,569	49	24,236
62	0	16	120	4,467	219	0	1,907	-5	1,852	3	8,579
63	0	-1	-1	1,607	11	0	3,846	-3	941	-4	6,396
64	0	1	0	28	4	0	95	3	104	0	235
65	0	0	0	- 27	0	0	-221	0	-24	-3	-275
66	0	0	17	- 28	0	0	- 35	0	- 5	-1	- 52
67	0	0	20	-102	1	0	- 2	0	- 1	0	- 84
Subtotal	0	318	2,908	63,525	618	0	21,142	142	11,074	525	100,252
					FROM FUNDS PROVIDED SUBSEQUENT TO THE BURNS-PORTER ACT 3/						
1960	0	0	0	5	0	0	15	0	1	0	21
61	66	164	309	2,056	192	0	2,654	3	579	0	6,023
62	552	430	1,227	15,517	605	0	6,943	11	1,280	25	26,590
63	2,947	439	2,972	46,402	1,366	0	43,210	18	5,084	-3	102,435
64	3,885	518	1,135	53,580	1,528	166	55,881	75	11,195	91	128,054
65	11,189	836	1,359	55,876	1,570	849	87,124	222	5,978	228	165,231
66	1,738	1,588	2,044	120,766	2,236	1,458	160,478	524	8,068	115	299,015
67	6,644	1,135	1,155	87,614	2,443	1,487	218,052	1,644	14,200	1,009	335,383
Subtotal	27,021	5,110	10,201	381,816	9,940	3,960	574,357	2,497	46,385	1,465	1,062,752
Total, 1952-1967	27,021	5,428	13,109	445,341	10,558	3,960	595,499	2,639	57,459	1,990	1,163,004
1968	10,600	543	463	39,515	1,413	1,387	300,472	1,210	6,883	30	362,516
69	10,600	366	210	6,304	2,030	1,368	291,929	289	2,271	0	315,367
1970	10,600	233	311	978	3,252	1,396	194,491	135	402	0	211,798
71	10,600	190	34	413	6,381	1,431	74,886	125	95	0	94,155
72	10,600	204	14	147	9,991	1,469	26,280	82	141	0	48,928
73	10,600	217	14	0	21,975	4,151	5,048	90	160	0	42,255
74	10,600	230	29	0	24,997	3,592	5,162	158	42	0	44,810
75	10,600	238	99	0	25,162	3,028	10,945	308	0	0	50,380
76	10,600	0	849	0	3,741	11,290	13,657	707	0	0	40,844
77	7,579	0	2,645	0	0	14,734	57,407	935	0	0	83,300
78	0	0	4,327	0	0	14,892	96,476	2,438	0	0	118,133
79	0	0	1,004	0	0	15,049	60,365	7,038	0	0	83,456
1980	0	0	3,451	0	0	15,209	5,359	177	0	0	24,196
81	0	0	1,200	0	0	15,373	3,528	41	0	0	20,142
82	0	0	0	0	0	15,537	3,113	23	0	0	18,673
83	0	0	0	0	0	17,010	905	153	0	0	18,068
84	0	0	0	0	0	14,811	8,836	0	0	0	23,647
85	0	0	0	0	0	9,345	5,332	0	0	0	14,677
86	0	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0
Total, 1968-1990	102,979	2,221	14,650	47,357	98,942	161,072	1,164,191	13,909	9,994	30	1,615,345
GRAND TOTALS	130,000	7,649	27,759	492,698	109,500	165,032	1,759,690	16,548	67,453	2,020	2,778,349

1/ Shown distributed to project purposes in Table 13.
2/ Includes actual expenditures from the General Fund, California Water Fund, and Local Projects Assistance Fund. Negative amounts reflect accounting adjustments.
3/ Includes actual and projected expenditures from Water Bond proceeds and California Water Fund. Negative amounts reflect accounting adjustments.

TABLE 11

COMPOSITION OF PROJECTED ANNUAL CAPITAL COSTS

(in thousands of dollars)

CALENDAR YEAR	PROJECTED ANNUAL EXPENDITURES										TOTAL ACTUAL FROM ACCOUNTING RECORDS 2/
	SURVEYS AND ENGINEERING STUDIES	DESIGN	RIGHTS-OF-WAY ACQUISITION AND RELOCATIONS	CONSTRUCTION	LOCAL IMPACT AID	PREOPERATING EXPENSE 1/		LOCAL PROJECTS (Davis-Grunsky Program)	STATE PARTICIPATION IN COSTS OF SAN LUIS DIVISION AND DELTA FACILITIES	TOTAL	
						GENERAL OPERATIONS	DIRECT OPERATION AND MAINTENANCE				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1952											304
53											719
54											852
55											482
56											1,819
57											8,023
58											12,475
59											15,462
1960											21,102
61											30,259
62											35,169
63											108,831
64											128,289
65											164,956
66											298,963
67											335,299
68	2,742	10,911	30,538	296,983	300	4,965	2,749	10,600	2,728	362,516	
69	2,353	4,495	8,395	283,805	25	3,474	1,055	10,600	1,165	315,367	
1970	2,055	2,084	4,802	185,483	0	3,075	1,324	10,600	2,375	211,798	
71	1,822	1,164	2,830	65,352	0	2,876	3,969	10,600	5,542	94,155	
72	1,718	687	1,620	21,183	0	842	3,078	10,600	9,200	48,928	
73	1,698	2,999	1,166	1,966	0	883	1,843	10,600	21,100	42,255	
74	1,118	3,073	703	2,637	0	872	2,007	10,600	23,800	44,810	
75	538	5,786	931	7,394	0	958	373	10,600	23,800	50,380	
76	0	5,849	1,721	18,443	0	531	0	10,600	3,700	40,844	
77	0	3,319	1,616	70,235	0	497	54	7,579	0	83,300	
78	0	880	1,494	114,911	0	525	323	0	0	118,133	
79	0	841	799	80,895	0	533	388	0	0	83,456	
1980	0	363	381	22,014	0	238	1,200	0	0	24,196	
81	0	158	0	19,514	0	316	154	0	0	20,142	
82	0	74	0	18,230	0	369	0	0	0	18,673	
83	0	140	0	17,544	0	384	0	0	0	18,068	
84	0	119	0	23,129	0	399	0	0	0	23,647	
85	0	0	700	13,570	0	407	0	0	0	14,677	
86	0	0	0	0	0	0	0	0	0	0	
87	0	0	0	0	0	0	0	0	0	0	
88	0	0	0	0	0	0	0	0	0	0	
89	0	0	0	0	0	0	0	0	0	0	
1990	0	0	0	0	0	0	0	0	0	0	
TOTALS	14,044	42,942	57,696	1,263,288	325	22,144	18,517	102,979 3/	93,410	1,615,345	1,163,004
										GRAND TOTAL	2,778,349

1/ Annual operating costs incurred for each facility prior to the conversion from construction to an operational status.
2/ Preliminary, subject to adjustment pending policy decisions.
3/ Balance of the $130,000,000 reserved under the Burns-Porter Act.

TABLE 12

GENERAL RECONCILIATION OF CAPITAL COST CHANGES

(in millions of dollars)

PROJECT FACILITIES	BULLETIN NO. 132-67	BULLETIN NO. 132-68	CHANGE	CHANGE IN COST ITEMS: ALLOWANCE FOR PRICE ESCALATION	CHANGE IN COST ITEMS: REVISION OF CONSTRUCTION PROGRESS PAYMENTS DECEMBER 31, 1967	CHANGE IN COST ITEMS: DESIGN AND CONSTRUCTION — FEATURE	CHANGE IN COST ITEMS: DESIGN AND CONSTRUCTION — CHANGE	CHANGE IN COST ITEMS: RIGHT OF WAY[1]	CHANGE IN COST ITEMS: ADVANCE PLANNING AND PREOPERATING COSTS[2]	CHANGE IN COST ITEMS: OTHER[3]
UPPER FEATHER AREA:										
Frenchman Dam and Lake	3.3	3.3			0.0					
Grizzly Valley Dam and Lake Davis	4.4	5.9	+ 1.5	+ 0.1	+ 0.3	Grizzly Valley Pipeline[4]	+ 0.6	+ 0.2		+ 0.3
Antelope Dam and Lake	4.6	4.6			0.0					
Dixie Refuge Dam and Reservoir	4.3	5.8	+ 1.5	+ 1.0	0.0		+ 0.4			+ 0.1
						Dam	(+ 0.5)			
						O&M Centers	(- 0.1)			
Abbey Bridge Dam and Reservoir	4.8	8.2	+ 3.4	+ 1.8	0.0		+ 0.9	+ 0.6	+ 0.1	
						Dam	(+ 1.0)			
						O&M Centers	(- 0.1)			
SUBTOTAL, Upper Feather Area	21.4	27.8	+ 6.4	+ 2.9	+ 0.3		+ 1.9	+ 0.8	+ 0.1	+ 0.4
OROVILLE AREA:										
Oroville Dam and Lake Oroville	303.5	327.7	+ 24.2	+ 0.1	+ 11.2		+ 4.9	- 1.0		+ 9.0
						Dam	(+ 3.0)			
						Fish hatchery	(- 0.1)			
						General property	(+ 2.3)			
						O&M Centers	(- 0.3)			
Oroville-Thermalito Power Facilities	171.3	165.0	- 6.3	- 0.3	+ 3.8		- 2.2	- 1.3	+ 0.9	- 7.2
						Thermalito Forebay and Afterbay	(- 0.1)			
						Thermalito Diversion Dam	(- 0.1)			
						Thermalito Power Canal	(- 0.2)			
						Edward Hyatt Powerplant	(- 1.4)			
						Thermalito Powerplant	(- 0.5)			
						Oroville-Thermalito Control System	(+ 0.1)			
						Oroville-Thermalito Bus Line	(+ 0.2)			
						O&M Centers	(+ 0.3)			
						Monitor & Control System	(- 0.5)			
SUBTOTAL, Oroville Area	474.8	492.7	+ 17.9	- 0.2	+ 15.0		+ 2.7	- 2.3	+ 0.9	+ 1.8
DELTA FACILITIES	55.4	109.5	+ 54.1	+ 0.4	0.0		+ 53.7			
						Assumed state share of a federal constructed facility	(+52.6)			
						Monitor & Control System	(+ 1.1)			
MIDDLE FORK EEL RIVER DEVELOPMENT	348.4	165.0	-183.4	- 88.2		Assumed federal construction of Dos Rios Dam & Res.	-100.6		+ 5.4	
NORTH BAY AQUEDUCT	15.2	16.5	+ 1.3	+ 1.0	+ 0.1		+ 0.4	- 0.8	+ 1.3	- 0.7
						General Design and Construction	(+ 0.1)			
						Aqueduct	(+ 0.4)			
						Monitor and Control System	(- 0.1)			
SOUTH BAY AQUEDUCT	66.7	67.5	+ 0.8		+ 0.8		- 1.9	+ 0.8		+ 1.1
						Del Valle Dam	(+ 0.3)			
						Monitor and Control System	(- 1.3)			
						Delivery Structures	(+ 0.2)			
						Aqueduct and South Bay Pumping Plant	(- 1.7)			
						General Design and Construction	(+ 0.6)			
SUBTOTAL	485.7	358.5	-127.2	- 86.8	+ 0.9		- 48.4	0	+ 6.7	+ 0.4
CALIFORNIA AQUEDUCT:										
North San Joaquin Division	160.9	167.2	+ 6.3	+ 2.3	+ 2.7		+ 4.6	- 2.5	- 0.8	
						Fish Protection Facilities	(+ 0.9)			
						Clifton Court Forebay	(+ 0.7)			
						Delta Pumping Plant	(+ 2.4)			
						Aqueduct	(0)			
						Monitor and Control System	(- 0.6)			
						General Design and Construction	(+ 1.2)			
San Luis Division	197.4	189.6	- 7.8	- 1.1	0.0		- 2.4	+ 0.4	- 2.9	- 1.8
						San Luis Dam	(- 0.6)			
						San Luis Pumping-Generating Plant	(+ 0.5)			
						Dos Amigos Pumping Plant	(+ 0.4)			
						O'Neill Forebay	(- 0.3)			
						Aqueduct	(- 1.4)			
						Monitor and Control System	(- 1.0)			
South San Joaquin Division	259.6	258.8	- 0.8	- 2.2	+ 1.9		+ 5.4	- 2.8	- 1.8	- 1.3
						Buena Vista Pumping Plant	(+ 4.5)			
						Wheeler Ridge Pumping Plant	(+ 3.1)			
						Wind Gap Pumping Plant	(+ 1.2)			
						Aqueduct	(- 5.3)			
						Monitor and Control System	(- 2.1)			
						O&M Centers	(- 0.1)			
						General Design and Construction	(+ 2.2)			
						Delivery Structures	(+ 1.9)			
Tehachapi Division	237.4	272.8	+ 35.4	- 1.3	+ 4.9		+ 32.5	+ 1.9	+ 0.1	- 2.7
						A. D. Edmonston Pumping Plant	(+23.6)			
						Aqueduct	(+ 8.4)			
						Monitor and Control System	(- 0.1)			
						O&M Centers	(- 0.3)			
						General Design and Construction	(+ 0.8)			
						Delivery Structures	(+ 0.1)			
Mojave Division	207.9	217.8	+ 9.9	+ 6.2	+ 0.1		+ 15.6	- 7.4	- 3.5	- 1.1
						Cottonwood Powerplant	(+ 0.2)			
						Buttes Dam[4]	(+16.5)			
						Pearblossom Pumping Plant	(- 3.8)			
						O&M Centers	(- 3.0)			
						Aqueduct	(+ 9.5)			
						Cedar Springs Dam	(- 3.3)			
						Monitor and Control System	(- 1.3)			
						General Design and Construction	(+ 0.3)			
						Delivery Structures	(+ 0.5)			
Santa Ana Division	184.5	205.3	+ 20.8	+ 14.8	+ 1.4		+ 2.9	- 0.3	- 0.7	+ 2.7
						Devil Canyon Powerplant	(+ 6.2)			
						Perris Dam	(+ 4.2)			
						Aqueduct	(-15.8)			
						Monitor and Control System	(- 0.1)			
						General Design and Construction	(+ 0.3)			
						O&M Centers	(- 0.5)			
						Delivery Structures	(+ 8.9)			
West Branch	335.3	372.5	+ 37.2	+ 12.0	+ 6.1		+ 20.1	+ 3.1	+ 0.3	- 4.4
						Oso Pumping Plant	(+ 4.9)			
						Pyramid Powerplant	(+ 6.4)			
						Castaic Powerplant[5]	(+ 0.9)			
						Aqueduct	(- 1.1)			
						Pyramid Dam	(- 0.6)			
						Castaic Dam	(+ 2.6)			
						Monitor and Control System	(- 0.3)			
						General Design and Construction	(+ 0.8)			
						O&M Centers	(+ 2.5)			
						Delivery Structures	(+ 4.0)			
Coastal Branch	75.2	75.7	+ 0.5	+ 3.4	+ 0.4		+ 2.9	- 5.5	- 0.1	- 0.6
						Las Perillas and Badger Hill Pumping Plants	(+ 0.8)			
						San Luis Obispo Powerplant	(+ 0.8)			
						Devil's Den Pumping Plant	(+ 0.2)			
						Bawtooth Pumping Plant	(+ 0.2)			
						Polonio Pumping Plant	(+ 0.3)			
						General Design and Construction	(+ 0.1)			
						O&M Centers	(- 0.1)			
						Aqueduct	(+ 2.5)			
						Monitor and Control System	(- 0.3)			
SUBTOTAL, California Aqueduct	1,658.2	1,759.7	+101.5	+ 34.1	+ 17.5		+ 81.6	-13.1	- 9.4	- 9.8
LOCAL PROJECTS (DAVIS-GRUNSKY PROGRAM)	131.4	130.0	- 1.4							- 1.4
SAN JOAQUIN DRAINAGE FACILITY	42.2	7.7	- 34.5	+ 0.2		Under formulation as to planned method of repayment	- 33.2		- 1.5	
UNALLOCATED COSTS[6]	4.8	2.0	- 2.8							- 2.8
SUBTOTAL	178.4	139.7	- 38.7	+ 0.2	0		- 33.2	0	- 1.5	- 4.2
TOTAL CAPITAL EXPENDITURES FINANCED	2,818.5	2,778.4	- 40.1	- 49.8	+ 33.7		+ 4.6	- 14.6	- 3.2	-10.8

1/ Includes purchase of lands for purposes of recreation.
2/ In general, these are cost estimates for planning for operation and maintenance, for power programs, for costs for pumping reservoir fill water, and for advanced planning.
3/ Includes accounting adjustments to actual costs and differences between estimated and actual expenditures to date.
4/ Not included in Bulletin 132-67.
5/ Design costs only. This facility to be constructed by the City of Los Angeles.
6/ The amount shown for Bulletin 132-67 includes costs credited with income received. These credits are distributed throughout the facilities in Bulletin 132-68.

TABLE 13

ACTUAL AND PROJECTED CAPITAL COSTS OF FACILITIES BY PROJECT PURPOSES

(in thousands of dollars)

CALENDAR YEAR	UNSPECIFIED PURPOSES		SAN JOAQUIN DRAINAGE FACILITY, AGRICULTURAL WASTE WATER DISPOSAL (100.0%)	UPPER FEATHER AREA											
				PROJECT CONSERVATION FACILITIES										PROJECT TRANSPORTATION FACILITIES	TOTAL
				FRENCHMAN DAM AND LAKE				GRIZZLY VALLEY DAM AND LAKE DAVIS				ANTELOPE DAM AND LAKE	REMAINING UNITS, ALL ASSUMED		
				MULTIPLE-PURPOSE[3]		SPECIFIC		MULTIPLE-PURPOSE[3]		SPECIFIC					
	LOCAL PROJECTS[1] (DAVIS-GRUNSKY PROGRAM)	UNALLOCATED COSTS[2]		R&F&WE[4] (50.0%)	WATER SUPPLY (50.0%)	R&F&WE[4]	TOTAL	R&F&WE[4] (94.9%)	WATER SUPPLY (5.1%)	R&F&WE[4]	TOTAL	R&F&WE[4] (100.0%)	R&F&WE [4], [5], [6]	GRIZZLY VALLEY PIPELINE, SPECIFIC WATER SUPPLY (100.0%)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1952	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0	85	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	91	0	0	0	0	0	0	0	0	0	0	0	0	0
56	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	43	0	2	2	0	4	2	0	0	2	2	4	0	12
58	0	67	0	109	109	0	218	3	0	0	3	3	5	0	229
59	0	73	0	245	245	43	533	13	0	0	13	31	83	0	660
1960	0	30	51	496	496	0	992	14	1	0	15	35	96	0	1,138
61	66	49	415	408	408	0	816	2	0	0	2	198	6	0	1,022
62	552	28	446	220	220	0	440	115	6	0	121	775	11	0	1,347
63	2,947	- 7	438	66	66	0	132	176	9	0	185	2,646	8	0	2,971
64	3,885	91	519	7	7	0	14	517	28	25	570	513	30	8	1,135
65	11,189	225	836	5	5	0	10	976	52	4	1,032	260	54	3	1,359
66	1,738	114	1,588	14	14	0	28	1,765	97	41	1,903	35	95	0	2,061
67	6,644	1,009	1,135	34	34	0	68	623	34	141	798	130	179	0	1,175
68	10,600	30	543	1	1	0	2	320	17	0	337	1	82	41	463
69	10,600	0	366	0	1	0	1	5	0	0	5	0	150	54	210
1970	10,600	0	233	0	0	0	0	0	0	0	0	0	206	105	311
71	10,600	0	190	0	0	0	0	0	0	0	0	0	34	0	34
72	10,600	0	204	0	0	0	0	0	0	0	0	0	14	0	14
73	10,600	0	217	0	0	0	0	0	0	0	0	0	14	0	14
74	10,600	0	230	0	0	0	0	0	0	0	0	0	29	0	29
75	10,600	0	238	0	0	0	0	0	0	0	0	0	99	0	99
76	10,600	0	0	0	0	0	0	0	0	0	0	0	835	14	849
77	7,579	0	0	0	0	0	0	0	0	0	0	0	2,619	26	2,645
78	0	0	0	0	0	0	0	0	0	0	0	0	4,063	264	4,327
79	0	0	0	0	0	0	0	0	0	0	0	0	684	320	1,004
1980	0	0	0	0	0	0	0	0	0	0	0	0	3,451	0	3,451
81	0	0	0	0	0	0	0	0	0	0	0	0	1,200	0	1,200
82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	130,000	2,020	7,649	1,607	1,608	43	3,258	4,531	244	211	4,986	4,629	14,051	835	27,759

Footnotes on sheet 5.

TABLE 13 (Continu d)

ACTUAL AND PROJECTED CAPITAL COSTS OF FACILITIES BY PROJECT PURPOSE

(in thousands of dollars)

CALENDAR YEAR	OROVILLE AREA (PROJECT CONSERVATION FACILITIES)							DELTA FACILITIES[6] (PROJECT CONSERVATION FACILITIES)					MIDDLE FORK EEL RIVER DEVELOPMENT, ALL ASSUMED WATER SUPPLY[5]
	SPECIFIC			MULTIPLE-PURPOSE[3]			TOTAL	SPECIFIC		MULTIPLE-PURPOSE		TOTAL	
	R&F&WE[4]	POWER GENERATION 7/	WATER SUPPLY	WATER SUPPLY AND POWER GENERATION (78.8%)	FLOOD CONTROL (21.2%)	TOTAL		WATER SUPPLY	R&F&WE[4]	WATER SUPPLY	R&F&WE[4]		
	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
1952	0	26	0	114	31	145	171	0	0	0	0	0	0
53	0	58	0	196	53	249	307	0	0	0	0	0	0
54	0	50	0	196	53	249	299	0	0	0	0	0	0
55	0	40	0	118	32	150	190	0	0	0	0	0	0
56	0	89	0	1,009	272	1,281	1,370	0	0	0	0	0	0
57	0	150	0	4,854	1,306	6,160	6,310	0	0	0	0	0	0
58	0	166	0	7,433	2,000	9,433	9,599	0	0	0	0	0	0
59	0	397	0	7,852	2,112	9,964	10,361	0	0	0	0	0	0
1960	11	609	0	10,086	2,713	12,799	13,419	7	0	46	22	75	0
61	2	1,173	1	12,954	3,485	16,439	17,615	31	0	315	154	500	0
62	14	2,308	5	13,917	3,740	17,657	19,984	130	0	466	228	824	0
63	35	5,043	6	33,832	9,093	42,925	48,009	108	0	852	417	1,377	0
64	91	16,845	8	28,899	7,765	36,664	53,608	79	0	975	478	1,532	166
65	463	22,719	1	25,751	6,915	32,666	55,849	37	14	1,019	500	1,570	849
66	181	44,131	91	60,163	16,172	76,335	120,738	30	38	1,455	713	2,236	1,458
67	27	44,448	88	33,855	9,094	42,949	87,512	30	2	1,618	794	2,444	1,487
68	312	23,094	0	12,694	3,415	16,109	39,515	0	0	948	465	1,413	1,387
69	0	2,828	0	2,739	737	3,476	6,304	0	0	1,362	668	2,030	1,368
1970	0	323	0	516	139	655	978	0	0	2,182	1,070	3,252	1,396
71	0	221	0	151	41	192	413	0	0	4,282	2,099	6,381	1,431
72	0	42	0	83	22	105	147	0	0	6,704	3,287	9,991	1,469
73	0	0	0	0	0	0	0	0	0	14,745	7,230	21,975	4,151
74	0	0	0	0	0	0	0	0	0	16,773	8,224	24,997	3,592
75	0	0	0	0	0	0	0	0	0	16,884	8,278	25,162	3,028
76	0	0	0	0	0	0	0	0	0	2,510	1,231	3,741	11,290
77	0	0	0	0	0	0	0	0	0	0	0	0	14,734
78	0	0	0	0	0	0	0	0	0	0	0	0	14,892
79	0	0	0	0	0	0	0	0	0	0	0	0	15,049
1980	0	0	0	0	0	0	0	0	0	0	0	0	15,209
81	0	0	0	0	0	0	0	0	0	0	0	0	15,373
82	0	0	0	0	0	0	0	0	0	0	0	0	15,537
83	0	0	0	0	0	0	0	0	0	0	0	0	17,010
84	0	0	0	0	0	0	0	0	0	0	0	0	14,811
85	0	0	0	0	0	0	0	0	0	0	0	0	9,345
86	0	0	0	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	1,136	164,760	200	257,412	69,190	326,602	492,698	452	54	73,136	35,858	109,500	165,032

Footnotes on sheet 5.

TABLE 13 (Continued)

ACTUAL AND PROJECTED CAPITAL COSTS OF FACILITIES BY PROJECT PURPOSE

(in thousands of dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT													NORTH BAY AQUEDUCT, ALL ASSUMED WATER SUPPLY
	PROJECT CONSERVATION FACILITIES						PROJECT TRANSPORTATION FACILITIES						TOTAL	
	SPECIFIC		MULTIPLE-PURPOSE[3]			TOTAL	SPECIFIC		MULTIPLE-PURPOSE[3]			TOTAL		
	R&F&WE[4]	WATER SUPPLY	R&F&WE[4] (8.7%)	WATER SUPPLY (91.3%)	TOTAL		R&F&WE[4]	WATER SUPPLY	R&F&WE[4] (3.0%)	WATER SUPPLY (97.0%)	TOTAL			
	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)
1952	0	0	1	14	15	15	0	0	3	99	102	102	117	0
53	0	0	4	37	41	41	0	0	10	311	321	321	362	0
54	0	0	4	47	51	51	0	0	12	396	408	408	459	0
55	0	0	2	23	25	25	0	0	5	159	164	164	189	0
56	0	0	3	36	39	39	0	0	8	253	261	261	300	0
57	0	0	8	87	95	95	0	0	22	718	740	740	835	27
58	0	0	13	139	152	152	0	0	43	1,370	1,413	1,413	1,565	50
59	0	0	108	1,138	1,246	1,246	0	43	65	2,108	2,173	2,216	3,462	30
1960	0	0	142	1,487	1,629	1,629	1	125	82	2,667	2,749	2,875	4,504	27
61	2	8	94	991	1,085	1,095	11	117	156	5,049	5,205	5,333	6,428	16
62	1	31	263	2,758	3,021	3,053	6	298	164	5,329	5,493	5,797	8,850	6
63	0	44	2,331	24,459	26,790	26,834	1,456	441	550	17,775	18,325	20,222	47,056	15
64	1	35	1,942	20,381	22,323	22,359	- 6	667	989	31,967	32,956	33,617	55,976	78
65	101	20	2,196	23,043	25,239	25,360	463	972	1,803	58,305	60,108	61,543	86,903	222
66	-22	26	2,071	21,731	23,802	23,806	323	2,913	4,002	129,399	133,401	136,637	160,443	524
67	4	26	1,316	13,814	15,130	15,160	562	7,103	5,857	189,368	195,225	202,890	218,050	1,644
68	262	0	314	3,294	3,608	3,870	313	3,339	8,786	284,164	292,950	296,602	300,472	1,210
69	0	0	88	920	1,008	1,008	0	5,988	8,545	276,388	284,933	290,921	291,929	289
1970	0	0	52	553	605	605	0	6,300	5,626	181,960	187,586	193,886	194,491	135
71	0	0	59	616	675	675	0	3,212	2,131	68,868	70,999	74,211	74,886	125
72	0	0	46	484	530	530	0	963	744	24,043	24,787	25,750	26,280	82
73	0	0	4	41	45	45	0	127	146	4,730	4,876	5,003	5,048	90
74	0	0	0	2	2	2	0	111	142	4,907	5,049	5,160	5,162	158
75	0	0	0	0	0	0	0	2,189	215	8,541	8,756	10,945	10,945	308
76	0	0	0	0	0	0	0	2,716	283	10,658	10,941	13,657	13,657	707
77	0	0	0	0	0	0	0	4,796	1,324	51,287	52,611	57,407	57,407	935
78	0	0	0	3	3	3	0	23,443	1,928	71,102	73,030	96,473	96,476	2,438
79	0	0	2	18	20	20	0	25,049	1,057	34,239	35,296	60,345	60,365	7,038
1980	0	0	12	124	136	136	0	1,914	96	3,213	3,309	5,223	5,359	177
81	0	0	45	469	514	514	0	238	84	2,692	2,776	3,014	3,528	41
82	0	0	43	456	499	499	0	21	78	2,515	2,593	2,614	3,113	23
83	0	0	2	21	23	23	0	0	26	856	882	882	905	153
84	0	0	0	3	3	3	0	39	263	8,531	8,794	8,833	8,836	0
85	0	0	0	0	0	0	0	39	159	5,134	5,293	5,332	5,332	0
86	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	349	190	11,165	117,189	128,354	128,893	3,129	93,163	45,404	1,489,101	1,534,505	1,630,797	1,759,690	16,548

Footnotes on Sheet 5.

TABLE 13 (Continu d)

TABLE 13 (Continu d)

ACTUAL AND PROJECTED CAPITAL COSTS OF FACILITIES BY PROJECT PURPOSE

(in thousands of dollars)

CALENDAR YEAR	SOUTH BAY AQUEDUCT (PROJECT TRANSPORTATION FACILITIES)							TOTAL BY PURPOSE, STATE WATER PROJECT						
	SPECIFIC		MULTIPLE-PURPOSE[3]				TOTAL	UNSPECIFIED [9]	AGRICULTURAL WASTE WATER DISPOSAL [10]	RECREATION AND FISH AND WILDLIFE ENHANCEMENT [11]	FLOOD CONTROL [12]	WATER SUPPLY AND OROVILLE POWER		TOTAL
	R&F&WE[4]	WATER SUPPLY	R&F&WE[4] (51.0%)	WATER SUPPLY (27.5%)	FLOOD CONTROL (21.5%)	TOTAL						PROJECT CONSERVATION FACILITIES[13]	PROJECT TRANSPORTATION FACILITIES[14]	
	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)
1952	0	1	0	0	0	0	1	15	0	4	31	154	100	304[15]
53	0	2	1	0	0	1	3	47	0	15	53	291	313	719[15]
54	0	7	1	1	0	2	9	85	0	17	53	293	404	852[15]
55	0	9	1	1	1	3	12	91	0	8	33	181	169	482[15]
56	0	88	16	8	7	31	119	30	0	27	279	1,134	349	1,819[15]
57	0	709	44	24	19	87	796	43	0	84	1,325	5,093	1,478	8,023[15]
58	0	906	30	16	13	59	965	67	0	206	2,013	7,847	2,342	12,475[15]
59	0	822	28	15	11	54	876	73	0	616	2,123	9,632	3,018	15,462[15]
1960	0	1,673	95	51	39	185	1,858	30	51	994	2,752	12,732	4,543	21,102[15]
61	0	3,911	122	65	50	237	4,148	115	415	1,155	3,535	15,881	9,158	30,259[15]
62	0	3,016	59	32	25	116	3,132	580	446	1,856	3,765	19,841	8,681	35,169[15]
63	0	5,455	291	156	123	570	6,025	2,940	438	7,976	9,216	64,419	23,842	108,831[15]
64	178	10,458	338	182	143	663	11,299	3,976	519	5,103	7,908	67,423	43,360	128,289[15]
65	54	4,421	754	407	318	1,479	5,954	11,414	836	7,647	7,233	73,496	64,330	164,956[15]
66	68	2,013	3,051	1,645	1,286	5,982	8,063	1,852	1,588	12,375	17,458	129,196	136,494	298,963[15]
67	466	1,526	6,226	3,357	2,624	12,207	14,199	7,653	1,135	16,361	11,718	95,434	202,998	335,299[15]
68	0	3,401	1,776	957	749	3,482	6,883	10,630	543	12,632	4,164	41,435	293,112	362,516
69	0	1,360	465	250	196	911	2,271	10,600	366	9,921	933	9,218	284,329	315,367
1970	0	458	- 29	-15	- 12	-56	402	10,600	233	6,925	127	4,970	188,943	211,798
71	0	95	0	0	0	0	95	10,600	190	4,323	41	6,701	72,300	94,155
72	0	141	0	0	0	0	141	10,600	204	4,091	22	8,782	25,229	48,928
73	0	160	0	0	0	0	160	10,600	217	7,394	0	18,937	5,107	42,255
74	0	42	0	0	0	0	42	10,600	230	8,395	0	20,367	5,218	44,810
75	0	0	0	0	0	0	0	10,600	238	8,592	0	19,912	11,038	50,380
76	0	0	0	0	0	0	0	10,600	0	2,349	0	13,800	14,095	40,844
77	0	0	0	0	0	0	0	7,579	0	3,943	0	14,734	57,044	83,300
78	0	0	0	0	0	0	0	0	0	5,991	0	14,895	97,247	118,133
79	0	0	0	0	0	0	0	0	0	1,743	0	15,067	66,646	83,456
1980	0	0	0	0	0	0	0	0	0	3,559	0	15,333	5,304	24,196
81	0	0	0	0	0	0	0	0	0	1,329	0	15,842	2,971	20,142
82	0	0	0	0	0	0	0	0	0	121	0	15,993	2,559	18,673
83	0	0	0	0	0	0	0	0	0	28	0	17,031	1,009	18,068
84	0	0	0	0	0	0	0	0	0	263	0	14,814	8,570	23,647
85	0	0	0	0	0	0	0	0	0	159	0	9,345	5,173	14,677
86	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	766	40,674	13,269	7,152	5,592	26,013	67,453	132,020	7,649	136,202	74,782	780,223	1,647,473	2,778,349

Footnotes on Sheet 5.

TABLE 13 (Continued)

ACTUAL AND PROJECTED CAPITAL COSTS OF FACILITIES BY PROJECT PURPOSE

1/ Projects financed under the Davis-Grunsky Program may be constructed for a number of purposes as set forth in Water Code Section 12880. The allocation of the future costs of the program among purposes cannot be projected at this time.

2/ Includes general project costs to be reallocated to project facilities.

3/ Multiple-purpose costs allocated to project purposes as determined by the percentages contained in Bulletin 153-68. In the case of allocations determined by the Federal Government (Oroville and Del Valle Dams and Lakes Oroville and Del Valle), the percentages reported in Bulletin 153-68 have been converted to percentages applicable only to the costs accounted for by the State.

4/ "R&F&WE" represents the abbreviation of the terms "Recreation and Fish and Wildlife Enhancement". These project purposes were considered as one in Bulletin 153-68. Costs of R&F&WE shown consist of allocated multiple-purpose costs and certain specific costs. The latter includes costs of recreation lands purchased concurrently with project lands pursuant to Water Code Section 346.

5/ In order to present a complete tabulation, the costs of those facilities not covered in Bulletin 153-68 are herein shown allocated to the primary purposes for which the facilities will be constructed.

6/ Includes the costs of Dixie Refuge and Abbey Bridge Dams and reservoirs.

7/ Consists of the costs of the Oroville-Thermalito power facilities.

8/ Estimated state share of a joint state-federal facility.

9/ The total of Columns 1 and 2.

10/ The same as Column 3.

11/ The total of Columns 4, 6, 8, 10, 12, 13, 16, 24, 26, 29, 31, 35, 37, 43, and 45.

12/ The total of Columns 20 and 47.

13/ The total of Columns 5, 9, 17, 18, 19, 23, 25, 28, 30 and 32.

14/ The total of Columns 14, 36, 38, 42, 44, and 46.

15/ Actual costs; all others herein are projected.

TABLE 14

ACTUAL AND PROJECTED CAPITAL COSTS BY PROGRAMS

(in thousands of dollars)

CALENDAR YEAR	STATE UTILITY PROGRAMS				STATE NONUTILITY PROGRAMS				FEDERAL PROGRAMS	TOTAL, ALL PROGRAMS
	WATER SUPPLY AND OROVILLE POWER		DRAINAGE	TOTAL	UNSPECIFIED PURPOSES		RECREATION AND FISH AND WILDLIFE ENHANCEMENT	TOTAL	FLOOD CONTROL	
	PROJECT CONSERVATION FACILITIES	PROJECT TRANSPORTATION FACILITIES			LOCAL PROJECTS (DAVIS-GRUNSKY PROGRAMS)	UNALLOCATED COSTS				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1952	154	100	0	254	0	15	4	19	31	304 1/
53	291	313	0	604	0	47	15	62	53	719 1/
54	293	404	0	697	0	85	17	102	53	852 1/
55	181	169	0	350	0	91	8	99	33	482 1/
56	1,134	349	0	1,483	0	30	27	57	279	1,819 1/
57	5,093	1,478	0	6,571	0	43	84	127	1,325	8,023 1/
58	7,847	2,342	0	10,189	0	67	206	273	2,013	12,475 1/
59	9,632	3,018	0	12,650	0	73	616	689	2,123	15,462 1/
1960	12,732	4,543	51	17,326	0	30	994	1,024	2,752	21,102 1/
61	15,881	9,158	415	25,454	66	49	1,155	1,270	3,535	30,259 1/
62	19,841	8,681	446	28,968	552	28	1,856	2,436	3,765	35,169 1/
63	64,419	23,842	438	88,699	2,947	- 7	7,976	10,916	9,216	108,831 1/
64	67,423	43,360	519	111,302	3,885	91	5,103	9,079	7,908	128,289 1/
65	73,496	64,330	836	138,662	11,189	225	7,647	19,061	7,233	164,956 1/
66	129,196	136,494	1,588	267,278	1,738	114	12,375	14,227	17,458	298,963 1/
67	95,434	202,998	1,135	299,567	6,644	1,009	16,361	24,014	11,718	335,299
68	41,435	293,112	543	335,090	10,600	30	12,632	23,262	4,164	362,516
69	9,218	284,329	366	293,913	10,600	0	9,921	20,521	933	315,367
1970	4,970	188,943	233	194,146	10,600	0	6,925	17,525	127	211,798
71	6,701	72,300	190	79,191	10,600	0	4,323	14,923	41	94,155
72	8,782	25,229	204	34,215	10,600	0	4,091	14,691	22	48,928
73	18,937	5,107	217	24,261	10,600	0	7,394	17,994	0	42,255
74	20,367	5,218	230	25,815	10,600	0	8,395	18,995	0	44,810
75	19,912	11,038	238	31,188	10,600	0	8,592	19,192	0	50,380
76	13,800	14,095	0	27,895	10,600	0	2,349	12,949	0	40,844
77	14,734	57,044	0	71,778	7,579	0	3,943	11,522	0	83,300
78	14,895	97,247	0	112,142	0	0	5,991	5,991	0	118,133
79	15,067	66,646	0	81,713	0	0	1,743	1,743	0	83,456
1980	15,333	5,304	0	20,637	0	0	3,559	3,559	0	24,196
81	15,842	2,971	0	18,813	0	0	1,329	1,329	0	20,142
82	15,993	2,559	0	18,552	0	0	121	121	0	18,673
83	17,031	1,009	0	18,040	0	0	28	28	0	18,068
84	14,814	8,570	0	23,384	0	0	263	263	0	23,647
85	9,345	5,173	0	14,518	0	0	159	159	0	14,677
86	0	0	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0
TOTALS	780,223	1,647,473	7,649	2,435,345	130,000	2,020	136,202	268,222	74,782	2,778,349

1/ Actual costs, all others herein projected.

TABLE 15

PROJECTED CAPITAL EXPENDITURES AND RECEIPTS FOR RECREATION AND FISH AND WILDLIFE ENHANCEMENT, STATE NONUTILITY PROGRAMS

(in thousands of dollars)

CALENDAR YEAR	OUTSTANDING BALANCE AT BEGINNING OF YEAR[1]	CAPITAL COSTS OF THE STATE WATER PROJECT FOR RECREATION AND FISH AND WILDLIFE ENHANCEMENT			OUTSTANDING BALANCE AT END OF YEAR, PRIOR TO INTEREST ACCRUAL[4]	INTEREST ACCRUAL ON AVERAGE BALANCE[5]
		EXPENDITURE[2]		REIMBURSEMENT[3]		
		ALLOCATED JOINT COSTS	SPECIFIC LAND COSTS			
	(1)	(2)	(3)	(4)	(5)	(6)
1952	0	4	0	0	4	0
1953	4	15	0	0	19	0
1954	19	17	0	0	36	1
1955	37	8	0	0	45	1
1956	46	27	0	0	73	2
1957	75	84	0	0	159	4
1958	163	206	0	0	369	9
1959	378	573	43	0	994	23
1960	1,017	982	12	0	2,011	51
1961	2,062	1,140	15	0	3,217	89
1962	3,306	1,835	21	0	5,162	143
1963	5,305	6,485	1,491	0	13,281	314
1964	13,595	4,814	289	0	18,698	546
1965	19,244	6,548	1,099	0	26,891	780
1966	27,671	11,746	629	0	40,046	1,145
1967	41,191	15,159	1,202	5,000	52,552	1,585
1968	54,137	11,745	887	5,000	61,769	1,960
1969	63,729	9,921	0	5,000	68,650	2,239
1970	70,889	6,925	0	5,000	72,814	2,430
1971	75,244	4,323	0	5,000	74,567	2,534
1972	77,101	4,091	0	5,000	76,192	2,593
1973	78,785	7,394	0	5,000	81,179	2,705
1974	83,884	8,395	0	5,000	87,279	2,895
1975	90,174	8,592	0	5,000	93,766	3,111
1976	96,877	2,349	0	5,000	94,226	3,232
1977	97,458	3,943	0	5,000	96,401	3,279
1978	99,680	5,991	0	5,000	100,671	3,389
1979	104,060	1,743	0	5,000	100,803	3,465
1980	104,268	3,559	0	5,000	102,827	3,503
1981	106,330	1,329	0	5,000	102,659	3,535
1982	106,194	121	0	5,000	101,315	3,510
1983	104,825	28	0	5,000	99,853	3,462
1984	103,315	263	0	5,000	98,578	3,415
1985	101,993	159	0	5,000	97,152	3,368
1986	100,520	0	0	5,000	95,520	3,316
1987	98,836	0	0	5,000	93,836	3,259
1988	97,095	0	0	5,000	92,095	3,200
1989	95,295	0	0	5,000	90,295	3,139
1990	93,434	0	0	5,000	88,434	3,076
1991	91,510	0	0	5,000	86,510	3,011
1992	89,521	0	0	5,000	84,521	2,944
1993	87,465	0	0	5,000	82,465	2,874
1994	85,339	0	0	5,000	80,339	2,802
1995	83,141	0	0	5,000	78,141	2,728
1996	80,869	0	0	5,000	75,869	2,651
1997	78,520	0	0	5,000	73,520	2,571
1998	76,091	0	0	5,000	71,091	2,489
1999	73,580	0	0	5,000	68,580	2,404
2000	70,984	0	0	5,000	65,984	2,317
2001	68,301	0	0	5,000	63,301	2,226
2002	65,527	0	0	5,000	60,527	2,132
2003	62,659	0	0	5,000	57,659	2,035
2004	59,694	0	0	5,000	54,694	1,935
2005	56,629	0	0	5,000	51,629	1,831
2006	53,460	0	0	5,000	48,460	1,724
2007	50,184	0	0	5,000	45,184	1,613
2008	46,797	0	0	5,000	41,797	1,498
2009	43,295	0	0	5,000	38,295	1,380
2010	39,675	0	0	5,000	34,675	1,257
2011	35,932	0	0	5,000	30,932	1,131
2012	32,063	0	0	5,000	27,063	1,000
2013	28,063	0	0	5,000	23,063	865
2014	23,928	0	0	5,000	18,928	725
2015	19,653	0	0	5,000	14,653	580
2016	15,233	0	0	5,000	10,233	431
2017	10,664	0	0	5,000	5,664	276
2018	5,940	0	0	5,000	940	116
2019	1,056	0	0	1,074	0	18
TOTAL	-	130,514	5,688	261,074	-	124,872

1/ The total of Columns 5 and 6 for the preceding year.
2/ Total costs from Column 7, Table 14.
3/ From assumed continuing reservations of tideland oil and gas revenues in the amount of $5,000,000 annually, pursuant to the California Statutes of 1966 (First Extraordinary Session), Chapter 27.
4/ The total of Columns 1, 2, and 3, less Column 4.
5/ Assumes 82.5 percent of all expenditures shown in Columns 2 and 3 to be financed by the California Water Resources Development Bond Fund at a project interest rate of 4.1 percent per annum -- with the remaining expenditures financed, interest-free, by the General Fund and the California Water Fund.

TABLE 16

ACTUAL AND PROJECTED RECEIPTS, FEDERAL PROGRAMS

(in thousands of dollars)

CALENDAR YEAR	FLOOD CONTROL			WATER SUPPLY			TOTAL RECEIPTS
	OROVILLE DAM AND LAKE OROVILLE[1]	DEL VALLE DAM AND LAKE DEL VALLE[2]	TOTAL	SAN LUIS DIVISION[3] ANNUAL OPERATING COSTS			
	CAPITAL AND CAPITALIZED OPERATING COSTS			CONSERVATION	TRANSPORTATION	TOTAL	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1962	13,950	0	13,950	0	0	0	13,950[4]
63	0	0	0	0	0	0	0[4]
64	13,040	0	13,040	0	0	0	13,040[4]
65	8,000	0	8,000	0	0	0	8,000[4]
66	12,405	0	12,405	0	0	0	12,405[4]
67	7,255	781	8,036	0	0	0	8,036[4]
68	6,104	2,248	8,352	518	770	1,288	9,640
69	10,072	3,155	13,227	530	821	1,351	14,578
1970	765	184	949	533	813	1,346	2,295
71	144	0	144	538	819	1,357	1,501
72	65	0	65	544	825	1,369	1,434
73	0	0	0	549	831	1,380	1,380
74	0	0	0	553	834	1,387	1,387
75	0	0	0	553	834	1,387	1,387
76	0	0	0	553	834	1,387	1,387
77	0	0	0	552	833	1,385	1,385
78	0	0	0	552	833	1,385	1,385
79	0	0	0	552	833	1,385	1,385
1980	0	0	0	552	833	1,385	1,385
81	0	0	0	552	833	1,385	1,385
82	0	0	0	552	833	1,385	1,385
83	0	0	0	552	833	1,385	1,385
84	0	0	0	551	833	1,384	1,384
85	0	0	0	549	830	1,379	1,379
86	0	0	0	548	827	1,375	1,375
87	0	0	0	548	827	1,375	1,375
88	0	0	0	548	827	1,375	1,375
89	0	0	0	548	827	1,375	1,375
1990	0	0	0	548	827	1,375	1,375
91	0	0	0	548	827	1,375	1,375
92	0	0	0	548	827	1,375	1,375
92	0	0	0	548	827	1,375	1,375
93	0	0	0	548	827	1,375	1,375
94	0	0	0	548	827	1,375	1,375
95	0	0	0	548	827	1,375	1,375
96	0	0	0	548	827	1,375	1,375
97	0	0	0	548	827	1,375	1,375
98	0	0	0	548	827	1,375	1,375
99	0	0	0	548	827	1,375	1,375
2000[5]	0	0	0	548	827	1,375	1,375
TOTALS	71,800	6,368	78,168	-	-	-	-

1/ Based upon the agreement executed March 8, 1962, whereby the United States shall contribute 22.0 percent of the capital costs of Oroville Dam and Lake Oroville; shown in Column 21 of Table 13.

2/ Based on Column 47 of Table 13, plus $776,000 for capitalized share of annual operating costs.

3/ Based on a proposed agreement whereby the United States would bear 45 percent of the joint operating costs of the San Luis Division.

4/ Actual receipts; all others herein are projected.

5/ And each year thereafter for the remainder of the project repayment period.

TABLE 17

PROJECTED CAPITAL EXPENDITURES AND RECEIPTS FOR REQUESTED EXCESS DELIVERY CAPABILITIES,[1] STATE UTILITY PROGRAMS

(in thousands of dollars)

CALENDAR YEAR	TOTAL ESTIMATED COSTS					ESTIMATED COSTS WITHOUT EXCESS CAPACITY[4]					INCREMENTAL COSTS FOR EXCESS CAPACITY[5]	REQUIRED ADVANCE OF FUNDS[6]	NET REQUIRED ADVANCE OF FUNDS[7]	REAPPLIED CREDITS TO DISTRICT'S ACCOUNT[8]
	CALIFORNIA AQUEDUCT				TOTAL	CALIFORNIA AQUEDUCT				TOTAL				
	SOUTH SAN JOAQUIN DIVISION	TEHACHAPI DIVISION	SANTA ANA DIVISION[2]	WEST BRANCH[3]		SOUTH SAN JOAQUIN DIVISION	TEHACHAPI DIVISION	SANTA ANA DIVISION[2]	WEST BRANCH[3]					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1952	17	13	7	3	40	17	13	7	3	40	0	0	0	0
53	62	43	21	10	136	62	43	21	10	136	0	0	0	0
54	63	61	27	9	160	63	61	27	9	160	0	0	0	0
55	20	33	9	2	64	20	33	9	2	64	0	0	0	0
56	85	61	10	1	157	85	61	10	1	157	0	0	0	0
57	248	170	37	5	460	248	170	37	5	460	0	0	0	0
58	557	243	62	8	870	557	243	62	8	870	0	0	0	0
59	804	196	85	14	1,099	804	196	85	14	1,099	0	0	0	0
1960	801	206	144	31	1,182	801	206	144	31	1,182	0	0	0	0
61	1,206	508	298	39	2,051	1,206	508	298	39	2,051	0	0	0	0
62	1,237	505	161	94	1,997	1,237	505	-227	94	1,609	388	0	0	0
63	2,158	1,084	2,563	168	5,973	2,158	1,084	2,076	168	5,486	487	0	0	0
64	6,219	2,456	276	323	9,274	6,219	2,456	296	323	9,294	-20	0	0	0
65	14,645	5,248	634	583	21,110	14,459	5,140	651	583	20,833	277	715	0	0
66	28,013	17,711	1,117	922	47,763	27,716	17,249	957	922	46,844	919	2,920	9,296	0
67	31,799	42,644	5,509	1,817	81,769	31,395	41,017	3,951	1,086	78,169	3,600	7,051	10,578	0
68	79,825	76,529	11,179	6,627	174,159	78,621	74,206	7,862	6,609	167,298	6,861	12,378	4,262	0
69	54,347	61,471	9,535	12,459	137,812	53,470	59,615	6,539	12,418	132,042	5,770	10,052	7,486	0
1970	24,106	27,151	6,593	8,956	66,806	23,717	26,286	4,694	8,927	63,624	3,182	4,909	5,392	0
71	10,312	17,830	3,143	3,908	35,193	10,312	17,830	2,094	3,897	34,133	1,060	746	746	216
72	871	6,777	429	376	8,453	871	6,777	49	376	8,073	380	380	380	11,565
73	289	1,059	285	31	1,664	289	1,059	40	31	1,419	245	245	245	7,787
74	204	1,723	216	31	2,174	204	1,723	41	31	1,999	175	175	175	0
75	0	4,453	491	33	4,977	0	4,453	395	33	4,881	96	96	96	0
76	0	4,510	1,128	0	5,638	0	4,510	1,102	0	5,612	26	26	26	0
77	0	53	16,076	25	16,154	0	53	14,726	25	14,804	1,350	1,350	1,350	0
78	0	2	21,228	25	21,255	0	2	19,435	25	19,462	1,793	1,793	1,793	0
79	0	0	17,098	0	17,098	0	0	15,659	0	15,659	1,439	1,439	1,439	0
1980	0	0	1,509	0	1,509	0	0	1,473	0	1,473	36	36	36	0
81	0	0	266	0	266	0	0	266	0	266	0	0	0	0
1982	0	0	167	0	167	0	0	167	0	167	0	0	0	0
TOTALS	257,888	272,740	100,302	36,500	667,430	254,531	265,499	82,946	36,390	639,366	28,064	44,311	43,300	19,598

1/ Pursuant to excess capacity amendments to water service contracts with San Gabriel Valley Municipal Water District, Antelope Valley-East Kern Water Agency, and The Metropolitan Water District of Southern California.

2/ Reaches 25 and 28J only.

3/ Reaches 29A and 29F only.

4/ These estimated capital costs, reduced by those allocable to the nonreimbursable purposes of recreation and fish and wildlife enhancement, are distributed among all water supply contractors utilizing the concerned aqueduct reaches in accordance with Article 24(b) of the "Standard Provisions for Water Supply Contract".

5/ The costs allocated to the agencies pursuant to Article 24(d) of the "Standard Provisions for Water Supply Contract", constituting the estimated costs shown in Column 5, less the estimated cost if no such excess capacity had been provided, as shown in Column 10.

6/ Funds bear the same proportion to the total capital costs of the concerned aqueduct reaches, including the costs of providing such excess capacity, as such excess capacity bears to the total capacity of the concerned aqueduct reaches, including such excess capacity.

7/ These values, which are based on escalated costs and the planning interest rate of 4.1 percent, are included as Miscellaneous Receipts in Column 8, Table 24. The method of calculation, but based on unescalated costs and the current project interest rate, is shown in Table B-10, Appendix B.

8/ These credits shown in Column 6, Table 22, are applied to reduce the capital cost components of the Transportation Charges of the agencies listed in footnote 1.

TABLE 18

COMPOSITION OF PROJECTED ANNUAL OPERATING COSTS

(in thousands of dollars)

CALENDAR YEAR	ANNUAL OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COSTS										ANNUAL DEBT SERVICE TO FEDERAL GOVERNMENT 7/	TOTAL PROJECTED ANNUAL OPERATING COSTS	TOTAL ACTUAL, FROM ACCOUNTING RECORDS 8/
	GENERAL OPERATING EXPENSES 1/	SALARIES AND EXPENSES 2/		EQUIPMENT MATERIALS, AND SUPPLIES 3/	POWER AND ENERGY 4/		DEPOSITS TO REPLACEMENT RESERVES 5/	SUBTOTAL	LESS, "PREOPERATING" EXPENSES 6/	TOTAL			
		OPERATING PERSONNEL	MAINTENANCE PERSONNEL		PUMPING PLANTS	RECOVERY PLANTS							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1962													130
63													227
64													222
65													520
66													651
67													843
68	7,532	1,986	3,066	962	2,384	- 87	204	16,047	7,574	8,473	0	8,473	0
69	7,228	2,271	3,984	1,196	2,403	- 61	315	17,336	4,227	13,109	0	13,109	0
1970	7,236	2,773	4,865	1,356	3,657	- 16	493	20,364	3,993	16,371	0	16,371	0
71	7,420	3,266	5,518	1,558	6,053	- 560	636	23,891	6,233	17,658	0	17,658	0
72	7,596	3,588	6,183	1,687	12,393	- 1,510	740	30,677	3,764	26,913	0	26,913	0
73	7,750	3,637	6,352	1,711	13,064	- 1,935	780	31,359	2,530	28,829	0	28,829	0
74	7,804	3,683	6,402	1,734	15,888	- 3,357	785	32,937	2,661	30,276	0	30,276	0
75	7,993	3,727	6,186	1,760	15,365	- 3,621	785	32,195	1,084	31,111	0	31,111	0
76	8,204	4,001	6,763	1,848	17,175	- 3,709	785	35,067	397	34,670	0	34,670	0
77	8,196	4,056	6,828	1,884	18,393	- 3,969	785	36,173	398	35,775	0	35,775	0
78	8,190	4,106	7,028	1,932	20,937	- 5,072	836	37,957	581	37,376	0	37,376	0
79	8,153	4,139	7,113	1,946	23,094	- 5,307	837	39,975	611	39,364	0	39,364	0
1980	8,090	4,201	7,258	1,969	26,106	- 8,986	907	39,545	1,302	38,243	0	38,243	0
81	8,042	4,204	7,253	1,973	26,608	- 9,637	918	39,361	320	39,041	0	39,041	0
82	8,017	4,216	7,287	1,975	28,027	- 9,616	918	40,824	209	40,615	0	40,615	0
83	7,982	4,216	7,373	1,975	30,626	-10,136	918	42,954	209	42,745	0	42,745	0
84	7,946	4,216	7,305	1,975	29,502	- 9,494	918	42,368	209	42,159	0	42,159	0
85	7,836	4,216	7,272	1,975	31,942	- 9,785	918	44,374	205	44,169	0	44,169	0
86	7,741	4,375	7,415	2,010	32,392	- 9,866	918	44,985	0	44,985	8,852	53,837	0
87	7,741	4,375	7,429	2,010	33,812	-10,263	918	46,022	0	46,022	8,852	54,874	0
88	7,741	4,375	7,403	2,010	36,271	-10,814	918	47,904	0	47,904	8,852	56,756	0
89	7,741	4,375	7,417	2,010	37,441	-10,977	918	48,925	0	48,925	8,852	57,777	0
1990	7,741	4,375	7,401	2,010	38,369	-11,031	918	49,783	0	49,783	8,852	58,635	0
91	7,741	4,375	7,410	2,010	39,107	-11,121	918	50,440	0	50,440	8,852	59,292	0
92	7,741	4,375	7,404	2,010	39,108	-11,121	918	50,435	0	50,435	8,852	59,287	0
93	7,741	4,375	7,405	2,010	39,110	-11,121	918	50,438	0	50,438	8,852	59,290	0
94	7,741	4,427	7,460	2,022	39,114	-11,121	918	50,561	0	50,561	14,511	65,072	0
95	7,741	4,427	7,460	2,022	39,118	-11,121	918	50,565	0	50,565	14,511	65,076	0
96	7,741	4,427	7,461	2,022	39,119	-11,121	918	50,567	0	50,567	14,511	65,078	0
97	7,741	4,427	7,461	2,022	39,122	-11,121	918	50,570	0	50,570	14,511	65,081	0
98	7,741	4,427	7,461	2,022	39,122	-11,121	918	50,570	0	50,570	14,511	65,081	0
99	7,741	4,427	7,461	2,022	39,122	-11,121	918	50,570	0	50,570	14,511	65,081	0
2000 9/	7,741	4,427	7,461	2,022	39,122	-11,121	918	50,570	0	50,570	14,511	65,081	0

1/ Includes the costs of project-wide programs for contract negotiation and administration, operation and maintenance management, and research and development. Also included in this column is a miscellaneous cost of about $268,000 annually for insurance required under revenue bond financing and for administrative costs of the Federal Power Commission license of the Oroville-Thermalito power facilities.

2/ Includes the direct costs of salaries and expenses, including general administrative and indirect costs of the Department.

3/ Includes the costs of materials, supplies, and equipment rental for electrical-mechanical plants, reservoirs, and aqueduct reaches.

4/ Does not include power and energy requirements or production by power features of the Oroville Division or for the federal share of power and pumping plant features of the San Luis Division.

5/ Based on sinking funds earning 4.5 percent per annum.

6/ These costs of an operational nature, which occur during the construction periods of the respective facilities, are transferred to the capital costs category as shown in Columns 6 and 7 of Table 11 and are deducted herein from the annual operating costs of the Project.

7/ Estimated annual values for repayment of the State's share of the costs for constructing Dos Rios Dam and Reservoir in the Middle Fork Eel River Development.

8/ Preliminary, subject to adjustment pending accounting, engineering, and legal decisions.

9/ And each year thereafter for the remainder of the project repayment period.

TABLE 19

ACTUAL AND PROJECTED OPERATING COSTS OF FACILITIES BY PROJECT PURPOSE AND BY CATEGORY[1]

(in thousands of dollars)

CALENDAR YEAR	UNSPECIFIED PURPOSES (MINIMUM)	UPPER FEATHER AREA										OROVILLE AREA (PROJECT CONSERVATION FACILITIES)				
		PROJECT CONSERVATION FACILITIES								PROJECT TRANSPORTATION FACILITIES	TOTAL	SPECIFIC POWER GENERATION	MULTIPLE-PURPOSE[2]			TOTAL (MINIMUM)
		FRENCHMAN DAM AND LAKE			GRIZZLY VALLEY DAM AND LAKE DAVIS			ANTELOPE DAM AND LAKE R&F&WE[3] (MINIMUM)	REMAINING UNITS, ALL ASSUMED R&F&WE[3] (MINIMUM)				WATER SUPPLY AND POWER GENERATION (83.5%)	FLOOD CONTROL (16.5%)	TOTAL	
		MULTIPLE-PURPOSE[2]		TOTAL (MINIMUM)	MULTIPLE-PURPOSE[2]		TOTAL (MINIMUM)									
		R&F&WE[3] (50.0%)	WATER SUPPLY (50.0%)		R&F&WE[3] (91.2%)	WATER SUPPLY (8.8%)				GRIZZLY VALLEY PIPELINE, SPECIFIC WATER SUPPLY (MINIMUM)						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1962	0	5	5	10	0	0	0	0	0	0	10	0	0	0	0	0
63	0	14	0	14	0	0	0	0	0	0	14	0	0	0	0	0
64	0	6	8	2	0	0	0	0	0	0	2	0	0	0	0	0
65	0	13	0	13	0	0	0	16	0	0	29	0	0	0	0	0
66	0	29	15	44	0	0	0	15	0	0	59	0	0	0	0	0
67	0	14	0	14	0	0	0	6	0	0	49	0	0	0	0	0
68	3	14	14	28	20	2	22	28	0	0	78	0	0	0	0	0
69	3	13	14	27	25	2	27	33	0	0	87	2,792	230	46	276	3,068
1970	3	13	14	27	25	2	27	27	0	0	81	2,949	225	45	270	3,219
71	13	13	14	27	23	2	25	27	0	2	81	2,974	221	44	265	3,239
72	13	16	17	33	22	2	24	27	0	2	86	3,006	216	43	259	3,265
73	13	13	14	27	22	2	24	33	0	2	86	3,041	215	42	257	3,298
74	13	13	14	27	27	3	30	27	0	2	86	3,050	210	41	251	3,301
75	13	13	14	27	22	2	24	27	0	2	80	3,038	206	40	246	3,284
76	190	13	14	27	22	2	24	27	0	2	80	3,028	200	40	240	3,268
77	190	16	17	33	22	2	24	27	0	2	86	3,026	198	39	237	3,263
78	190	13	14	27	22	2	24	33	0	2	86	3,026	198	39	237	3,263
79	190	13	14	27	27	3	30	27	26	2	112	3,026	198	39	237	3,263
1980	190	13	14	27	22	2	24	27	32	2	112	3,025	198	39	237	3,262
81	190	13	14	27	22	2	24	27	26	2	106	3,025	198	39	237	3,262
82	190	16	17	33	22	2	24	27	52	2	138	3,025	198	39	237	3,262
83	190	13	14	27	22	2	24	33	52	2	138	3,025	198	39	237	3,262
84	190	13	14	27	27	3	30	27	52	2	138	3,025	198	39	237	3,262
85	187	13	14	27	22	2	24	27	58	2	138	3,017	197	39	236	3,253
86	184	13	14	27	22	2	24	27	58	2	138	3,007	196	39	235	3,242
87	184	16	17	33	22	2	24	27	52	2	138	3,007	196	39	235	3,242
88	184	13	14	27	22	2	24	27	52	2	132	3,007	196	39	235	3,242
89	184	13	14	27	27	3	30	33	52	2	144	3,007	196	39	235	3,242
1990	184	13	14	27	22	2	24	27	52	2	132	3,007	196	39	235	3,242
91	184	13	14	27	22	2	24	27	58	2	138	3,007	196	39	235	3,242
92	184	13	14	27	22	2	24	27	52	2	132	3,007	196	39	235	3,242
93	184	13	14	27	22	2	24	27	52	2	132	3,007	196	39	235	3,242
94	184	13	14	27	22	2	24	27	52	2	132	3,007	196	39	235	3,242
95	184	13	14	27	22	2	24	27	52	2	132	3,007	196	39	235	3,242
96	184	13	14	27	22	2	24	27	52	2	132	3,007	196	39	235	3,242
97	184	13	14	27	22	2	24	27	52	2	132	3,007	196	39	235	3,242
98	184	13	14	27	22	2	24	27	52	2	132	3,007	196	39	235	3,242
99	184	13	14	27	22	2	24	27	52	2	132	3,007	196	39	235	3,242
2000[4]	184	13	14	27	22	2	24	27	52	2	132	3,007	196	39	235	3,242

Footnotes on Sheet 5.

TABLE 19 (Continued)

ACTUAL AND PROJECTED OPERATION COSTS OF FACILITIES BY PROJECT PURPOSE AND BY CATEGORY [1]

(in thousands of dollars)

CALENDAR YEAR	DELTA FACILITIES (PROJECT CONSERVATION FACILITIES)				MIDDLE FORK EEL RIVER DEVELOPMENT, SPECIFIC WATER SUPPLY (MINIMUM) [6]	CALIFORNIA AQUEDUCT							
						PROJECT CONSERVATION FACILITIES				PROJECT TRANSPORTATION FACILITIES			
	MINIMUM		VARIABLE, WATER SUPPLY [5]	TOTAL		MULTIPLE-PURPOSE (MINIMUM) [2]		VARIABLE WATER SUPPLY [7]	TOTAL	SPECIFIC WATER SUPPLY [8]		MULTIPLE-PURPOSE (MINIMUM) [2]	
	R&F&WE [3] (82.1%)	WATER SUPPLY (17.9%)				R&F&WE [3] (5.6%)	WATER SUPPLY (94.4%)			MINIMUM	VARIABLE	R&F&WE [3] (7.1%)	WATER SUPPLY (92.9%)
	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	61	1,504	734	2,299	0	155	224	3,681
69	0	0	0	0	0	66	1,598	1,276	2,940	411	88	282	4,478
1970	0	0	0	0	0	68	1,639	1,595	3,302	476	97	427	6,331
71	0	0	0	0	0	69	1,675	527	2,271	559	102	504	7,384
72	0	0	0	0	0	71	1,712	171	1,954	566	106	840	11,780
73	0	0	0	0	0	74	1,748	639	2,461	592	142	862	12,066
74	0	0	0	0	0	76	1,772	369	2,217	592	158	877	12,281
75	0	0	0	0	0	77	1,783	- 138	1,722	591	163	880	12,316
76	1,030	225	85	1,340	0	77	1,797	307	2,181	592	185	886	12,381
77	1,043	227	91	1,361	0	78	1,815	255	2,148	590	192	889	12,410
78	1,038	226	104	1,368	0	80	1,831	- 154	1,757	591	231	900	12,563
79	1,009	220	121	1,350	0	80	1,831	- 402	1,509	591	227	906	12,655
1980	957	209	138	1,304	0	80	1,831	- 77	1,834	844	274	920	12,831
81	919	200	161	1,280	0	80	1,831	- 239	1,672	835	286	920	12,799
82	898	196	163	1,257	0	80	1,831	- 192	1,719	821	319	921	12,822
83	969	190	161	1,320	0	80	1,831	- 330	1,581	813	313	922	12,831
84	841	183	158	1,182	0	80	1,830	- 255	1,655	811	350	914	12,758
85	814	177	163	1,154	0	78	1,827	- 265	1,640	805	411	911	12,694
86	800	174	186	1,160	9,407	76	1,822	881	2,779	802	481	902	12,571
87	800	174	160	1,134	9,407	77	1,820	228	2,125	801	535	903	12,568
88	800	174	162	1,136	9,407	77	1,820	- 116	1,781	798	584	902	12,592
89	800	174	154	1,128	9,407	77	1,820	- 60	1,837	798	669	903	12,587
1990	800	174	177	1,151	9,407	77	1,820	- 258	1,639	796	709	903	12,573
91	800	174	188	1,162	9,407	77	1,820	- 244	1,653	796	711	903	12,594
92	800	174	188	1,162	9,407	77	1,820	- 244	1,653	796	711	903	12,594
93	800	174	188	1,162	9,407	77	1,820	- 244	1,653	796	711	903	12,593
94	800	174	188	1,162	15,183	77	1,820	- 244	1,653	796	711	903	12,593
95	800	174	188	1,162	15,183	77	1,820	- 244	1,653	796	711	903	12,593
96	800	174	188	1,162	15,183	77	1,820	- 244	1,653	796	711	903	12,593
97	800	174	188	1,162	15,183	77	1,820	- 244	1,653	796	711	903	12,593
98	800	174	188	1,162	15,183	77	1,820	- 244	1,653	796	711	903	12,593
99 [4]	800	174	188	1,162	15,183	77	1,820	- 244	1,653	796	711	903	12,593
2000 [4]	800	174	188	1,162	15,183	77	1,820	- 244	1,653	796	711	903	12,593

Footnotes on Sheet 5.

TABLE 19 (Continued)

ACTUAL AND PROJECTED OPERATING COSTS OF FACILITIES BY PROJECT PURPOSE AND BY CATEGORY[1/]

(in thousands of dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (CONTINUED)				NORTH BAY AQUEDUCT (PROJECT TRANSPORTATION FACILITIES)			SOUTH BAY AQUEDUCT (PROJECT TRANSPORTATION FACILITIES)					
	PROJECT TRANSPORTATION FACILITIES (CONT'D)				SPECIFIC WATER SUPPLY			SPECIFIC WATER SUPPLY[10/]		MULTIPLE-PURPOSE (MINIMUM)[2/]			
	MULTIPLE-PURPOSE (VARIABLE)[9/]												
	R&F&WE[3/]	WATER SUPPLY	TOTAL	TOTAL	MINIMUM	VARIABLE	TOTAL	MINIMUM	VARIABLE	R&F&WE[3/] (39.5%)	WATER SUPPLY (34.9%)	FLOOD CONTROL (25.6)	TOTAL
	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)
1962	0	0	0		0	0	0	82	38	0	0	0	121
63	0	0	0	0	0	0	0	154	59	0	0	0	213
64	0	0	0	0	0	0	0	150	74	0	0	0	224
65	0	0	0	0	0	0	0	347	144	0	0	0	491
66	0	0	0	0	0	0	0	392	200	0	0	0	592
67	0	19	19	19	0	0	0	572	233	0	0	0	805
68	0	926	4,986	7,285	0	9	9	691	407	0	0	0	1,098
69	0	555	5,814	8,754	79	11	90	730	357	8	7	5	1,107
1970	0	1,071	8,402	11,704	91	14	105	763	475	8	7	6	1,259
71	23	2,059	10,631	12,902	96	15	111	795	496	8	7	6	1,312
72	237	6,592	20,121	22,075	102	16	118	828	506	9	8	5	1,356
73	223	7,549	21,434	23,895	107	21	128	874	512	9	8	6	1,409
74	220	8,977	23,105	25,322	113	19	132	903	495	9	8	7	1,422
75	214	10,264	24,428	26,150	119	21	140	924	495	10	9	6	1,444
76	216	11,716	25,976	28,157	124	23	147	950	513	10	9	6	1,488
77	205	12,757	27,043	29,191	131	25	156	985	517	10	9	7	1,528
78	210	14,530	29,025	30,782	52	28	80	1,018	561	11	10	7	1,607
79	215	16,688	31,282	32,791	52	28	80	1,016	534	11	10	7	1,578
1980	300	14,480	29,649	31,483	305	49	354	1,014	496	11	10	7	1,538
81	288	15,511	30,639	32,311	305	58	363	1,014	487	11	10	7	1,529
82	290	16,989	32,162	33,881	304	61	365	1,013	481	11	10	7	1,522
83	297	19,208	34,384	35,965	304	63	367	1,013	463	11	10	7	1,504
84	272	18,787	33,892	35,547	304	63	367	1,011	434	11	10	7	1,473
85	277	20,854	35,952	37,592	304	66	370	1,006	441	11	10	7	1,475
86	255	20,063	35,074	37,853	303	74	377	1,002	446	11	10	7	1,476
87	257	21,730	36,794	38,919	303	75	378	1,002	442	11	10	7	1,472
88	264	23,883	39,023	40,804	303	77	380	1,002	441	11	10	7	1,471
89	260	24,780	39,997	41,834	303	74	377	1,001	432	11	10	7	1,461
1990	256	25,795	41,032	42,671	303	77	380	1,001	439	11	10	7	1,468
91	261	26,388	41,653	43,306	303	77	380	1,001	444	11	10	7	1,473
92	261	26,388	41,653	43,306	303	77	380	1,000	446	11	10	7	1,474
93	261	26,390	41,654	43,307	303	77	380	1,000	448	11	10	7	1,476
94	261	26,392	41,656	43,309	303	77	380	1,000	452	11	10	7	1,480
95	261	26,392	41,656	43,309	303	77	380	1,000	456	11	10	7	1,484
96	261	26,393	41,657	43,310	303	77	380	1,000	457	11	10	7	1,485
97	261	26,393	41,657	43,310	303	77	380	1,000	460	11	10	7	1,488
98	261	26,393	41,657	43,310	303	77	380	1,000	460	11	10	7	1,488
99[4/]	261	26,393	41,657	43,310	303	77	380	1,000	460	11	10	7	1,488
2000	261	26,393	41,657	43,310	303	77	380	1,000	460	11	10	7	1,488

Footnotes on Sheet 5.

TABLE 19 (Continued)
ACTUAL AND PROJECTED OPERATING COSTS OF FACILITIES BY PROJECT PURPOSE AND BY CATEGORY[1]

(in thousands of dollars)

CALENDAR YEAR	TOTAL BY PURPOSE AND BY CATEGORY, STATE WATER PROJECT												
	UNSPECIFIED PURPOSES (MINIMUM)	RECREATION AND FISH AND WILDLIFE ENHANCEMENT[3]			FLOOD CONTROL[13] (MINIMUM)	WATER SUPPLY AND OROVILLE POWER							TOTAL ALL PURPOSES
						PROJECT CONSERVATION FACILITIES			PROJECT TRANSPORTATION FACILITIES			TOTAL	
		MINIMUM[11]	VARIABLE[12]	TOTAL		MINIMUM[14]	VARIABLE[15]	TOTAL	MINIMUM[16]	VARIABLE[17]	TOTAL		
	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)
1962	0	5	0	5	0	5	0	5	82	38	120	126	130[18]
63	0	14	0	14	0	0	0	0	154	59	213	213	227[18]
64	0	6	0	6	0	- 8	0	- 8	150	74	224	216	222[18]
65	0	29	0	29	0	0	0	0	347	144	491	491	520[18]
66	0	44	0	44	0	15	0	15	392	200	592	607	651[18]
67	0	20	0	20	0	0	0	0	572	252	824	824	843[18]
68	3	347	0	347	0	1,520	734	2,254	4,372	1,497	5,869	8,123	8,473
69	3	427	0	427	51	4,636	1,276	5,912	5,705	1,011	6,716	12,628	13,109
1970	3	568	0	568	51	4,829	1,595	6,424	7,668	1,657	9,325	15,749	16,371
71	13	644	23	667	50	4,886	527	5,413	8,843	2,672	11,515	16,928	17,658
72	13	985	237	1,222	48	4,953	171	5,124	13,286	7,220	20,506	25,630	26,913
73	13	1,013	223	1,236	48	5,020	639	5,659	13,649	8,224	21,873	27,532	28,829
74	13	1,029	220	1,249	48	5,049	369	5,418	13,899	9,649	23,548	28,966	30,276
75	13	1,029	214	1,243	46	5,043	- 138	4,905	13,961	10,943	24,904	29,809	31,111
76	190	2,065	216	2,281	46	5,266	392	5,658	14,058	12,437	26,495	32,153	34,670
77	190	2,085	205	2,290	46	5,285	346	5,631	14,127	13,491	27,618	33,249	35,775
78	190	2,097	210	2,307	46	5,297	- 50	5,247	14,236	15,350	29,586	34,833	37,376
79	190	2,099	215	2,314	46	5,292	- 281	5,011	14,326	17,477	31,803	36,814	39,364
1980	190	2,062	300	2,362	46	5,279	61	5,340	15,006	15,299	30,305	35,645	38,243
81	190	2,018	288	2,306	46	5,270	- 78	5,192	14,965	16,342	31,307	36,499	39,041
82	190	2,027	290	2,317	46	5,269	- 29	5,240	14,972	17,850	32,822	38,062	40,615
83	190	2,102	297	2,399	46	5,260	- 169	5,091	14,972	20,047	35,020	40,111	42,745
84	190	1,965	272	2,237	46	5,253	- 97	5,156	14,896	19,634	34,530	39,686	42,159
85	187	1,934	277	2,211	46	5,234	- 102	5,132	14,821	21,772	36,593	41,725	44,169
86	184	1,909	255	2,164	46	14,622	1,067	15,689	14,690	21,064	35,754	51,443	53,837
87	184	1,908	257	2,165	46	14,623	388	15,011	14,686	22,782	37,468	52,479	54,874
88	184	1,904	264	2,168	46	14,620	46	14,666	14,707	24,985	39,692	54,358	56,756
89	184	1,916	260	2,176	46	14,621	94	14,715	14,701	25,955	40,656	55,371	57,777
1990	184	1,905	256	2,161	46	14,620	- 81	14,539	14,685	27,020	41,705	56,244	58,635
91	184	1,911	261	2,172	46	14,620	- 56	14,564	14,706	27,620	42,326	56,890	59,292
92	184	1,905	261	2,166	46	14,620	- 56	14,564	14,705	27,622	42,327	56,891	59,287
93	184	1,905	261	2,166	46	14,620	- 56	14,564	14,704	27,626	42,330	56,894	59,290
94	184	1,905	261	2,166	46	20,396	- 56	20,340	14,704	27,632	42,336	62,676	65,072
95	184	1,905	261	2,166	46	20,396	- 56	20,340	14,704	27,636	42,340	62,680	65,076
96	184	1,905	261	2,166	46	20,396	- 56	20,340	14,704	27,638	42,342	62,682	65,078
97	184	1,905	261	2,166	46	20,396	- 56	20,340	14,704	27,641	42,345	62,685	65,081
98	184	1,905	261	2,166	46	20,396	- 56	20,340	14,704	27,641	42,345	62,685	65,081
99[4]	184	1,905	261	2,166	46	20,396	- 56	20,340	14,704	27,641	42,345	62,685	65,081
2000	184	1,905	261	2,166	46	20,396	- 56	20,340	14,704	27,641	42,345	62,685	65,081

Footnotes on Sheet 5.

TABLE 19 (Continued)

ACTUAL AND PROJECTED OPERATION COSTS OF FACILITIES BY PROJECT PURPOSE AND BY CATEGORY 1/

1/ The operating costs of facilities involving the purpose of water supply are shown in this table by the two respective categories defined in the "Standard Provisions for Water Supply Contract":

Minimum operation, maintenance, power and replacement costs: those incurred irrespective of the amount of project water delivered to water supply contractors.

Variable operation, maintenance, power and replacement costs: those incurred in an amount which is dependent upon and varies with the amount delivered to water supply contractors.

Note that operating costs of Local Projects (the Davis-Grunsky Program) and of specific recreation and fish and wildlife enhancement features are not included in this table since these costs are not accounted for by the Department.

2/ Based upon the percentages determined in Bulletin 153-68, "Allocations of Costs Among Purposes of the State Water Project", and summarized on page 19 therein, applied to the currently estimated minimum operating costs of features jointly used by project purposes.

3/ "R&F&WE" represents the abbreviation of the purposes of "Recreation and Fish and Wildlife Enhancement", considered as one purpose in the allocations determined in Bulletin 153-68.

4/ And each year thereafter for the remainder of the project repayment period.

5/ Includes primarily the costs of electrical power and energy required for pumping project water at the head of the Peripheral Canal.

6/ Includes the estimated annual debt service to the Federal Government for the State's share of the costs of constructing Dos Rios Dam and Reservoir.

7/ Includes primarily the net costs of electrical power and energy required for pumping project water through the San Luis Pumping-Generating Plant and the share of the power and energy required for the Delta Pumping Plant which is allocated to conservation.

8/ Consists of the operating costs of the Coastal Branch, California Aqueduct.

9/ The percentages determined in Bulletin 153-68 for operating costs apply only to those of the minimum category. The variable operating costs of features jointly used by project purposes are allocated annually among purposes in proportion to the annual deliveries to each respective purpose.

10/ Consists of the operating costs of the entire South Bay Aqueduct, except those of Del Valle Dam and Lake Del Valle.

11/ The total of Columns 2, 5, 8, 9, 17, 22, 28, and 39.

12/ Equal to Column 30.

13/ The total of Columns 14 and 41.

14/ The total of Columns 3, 6, 12, 13, 18, 21, and 23.

15/ The total of Columns 19 and 24.

16/ The total of Columns 10, 26, 29, 34, 37, and 40.

17/ The total of Columns 27, 31, 35, and 38.

18/ Actual costs; all others herein are projected.

TABLE 19 (Continued)

TABLE 20

ACTUAL AND PROJECTED OPERATING COSTS BY PROGRAMS

(in thousands of dollars)

CALENDAR YEAR	STATE UTILITY PROGRAMS			STATE NONUTILITY PROGRAMS			FEDERAL PROGRAMS				TOTAL, ALL PROGRAMS
	WATER SUPPLY AND OROVILLE POWER		TOTAL	RECREATION AND FISH AND WILDLIFE ENHANCEMENT	UNSPECIFIED PURPOSES[2]	TOTAL	WATER SUPPLY		FLOOD CONTROL	TOTAL	
	PROJECT CONSERVATION FACILITIES[1]	PROJECT TRANSPORTATION FACILITIES					PROJECT CONSERVATION FACILITIES	PROJECT TRANSPORTATION FACILITIES			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1962	5	120	125	5	0	5	0	0	0	0	130[3]
63	0	213	213	14	0	14	0	0	0	0	227[3]
64	- 8	224	216	6	0	6	0	0	0	0	222[3]
65	0	491	491	29	0	29	0	0	0	0	520[3]
66	15	592	607	44	0	44	0	0	0	0	651[3]
67	0	823	823	20	0	20	0	0	0	0	843[3]
68	1,736	5,099	6,835	347	3	350	518	770	0	1,288	8,473
69	5,382	5,905	11,287	427	3	430	530	811	51	1,392	13,109
1970	5,891	8,512	14,403	568	3	571	533	813	51	1,397	16,371
71	4,875	10,696	15,571	667	13	680	538	819	50	1,407	17,658
72	4,580	19,681	24,261	1,222	13	1,235	544	825	48	1,417	26,913
73	5,110	21,042	26,152	1,236	13	1,249	549	831	48	1,428	28,829
74	4,865	22,714	27,579	1,249	13	1,262	553	834	48	1,435	30,276
75	4,352	24,070	28,422	1,243	13	1,256	553	834	46	1,433	31,111
76	5,105	25,661	30,766	2,281	190	2,471	553	834	46	1,433	34,670
77	5,079	26,785	31,864	2,290	190	2,480	552	833	46	1,431	35,775
78	4,696	28,752	33,448	2,307	190	2,497	552	833	46	1,431	37,376
79	4,459	30,970	35,429	2,314	190	2,504	552	833	46	1,431	39,364
1980	4,788	29,472	34,260	2,362	190	2,552	552	833	46	1,431	38,243
81	4,640	30,474	35,114	2,306	190	2,496	552	833	46	1,431	39,041
82	4,688	31,989	36,677	2,317	190	2,507	552	833	46	1,431	40,615
83	4,538	34,187	38,725	2,399	190	2,589	552	833	46	1,431	42,745
84	4,605	33,697	38,302	2,237	190	2,427	551	833	46	1,430	42,159
85	4,583	35,763	40,346	2,211	187	2,398	549	830	46	1,425	44,169
86	15,141	34,927	50,068	2,164	184	2,348	548	827	46	1,421	53,837
87	14,463	36,641	51,104	2,165	184	2,349	548	827	46	1,421	54,874
88	14,118	38,865	52,983	2,168	184	2,352	548	827	46	1,421	56,756
89	14,167	39,829	53,996	2,176	184	2,360	548	827	46	1,421	57,777
1990	13,991	40,878	54,869	2,161	184	2,345	548	827	46	1,421	58,635
91	14,016	41,499	55,515	2,172	184	2,356	548	827	46	1,421	59,292
92	14,016	41,500	55,516	2,166	184	2,350	548	827	46	1,421	59,287
93	14,016	41,503	55,519	2,166	184	2,350	548	827	46	1,421	59,290
94	19,792	41,509	61,301	2,166	184	2,350	548	827	46	1,421	65,072
95	19,792	41,513	61,305	2,166	184	2,350	548	827	46	1,421	65,076
96	19,792	41,515	61,307	2,166	184	2,350	548	827	46	1,421	65,078
97	19,792	41,518	61,310	2,166	184	2,350	548	827	46	1,421	65,081
98	19,792	41,518	61,310	2,166	184	2,350	548	827	46	1,421	65,081
99[4]	19,792	41,518	61,310	2,166	184	2,350	548	827	46	1,421	65,081
2000[4]	19,792	41,518	61,310	2,166	184	2,350	548	827	46	1,421	65,081

1/ Includes the estimated annual debt service to the Federal Government for the State's share of the costs of constructing Dos Rios Dam and Reservoir.
2/ Consists of annual operating costs to be repaid by the City of Los Angeles for operation and maintenance of the Angeles Tunnel and an allocation of costs for repayment and financial analysis and utility accounting to the Davis-Grunsky program and the San Joaquin drainage program.
3/ Actual costs; all others herein are projected.
4/ And each year thereafter for the remainder of the project repayment period.

TABLE 21

ACTUAL AND PROJECTED STATE UTILITY REVENUES

(in thousands of dollars)

CALENDAR YEAR	DELTA WATER CHARGES				OROVILLE-THERMALITO POWER REVENUES 5/	TRANSPORTATION CHARGES				TOTAL STATE UTILITY REVENUES (ADJUSTED) 8/
	CAPITAL COST COMPONENTS		OPERATING COST COMPONENTS 3/	TOTAL (ADJUSTED) 4/		CAPITAL COST COMPONENTS		OPERATING COST COMPONENTS 6/	TOTAL (ADJUSTED) 7/	
	ACTUAL 1/	ADJUSTED 2/				ACTUAL 6/	ADJUSTED 2/			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1961	0	0	0	0	0	0	0	0	0	0 9/
1962	0	0	0	0	0	0	964	60	1,024	1,024 9/
1963	0	0	0	0	0	1,927	2,199	116	2,315	2,315 9/
1964	0	0	0	0	0	2,471	2,364	186	2,550	2,550 9/
1965	0	0	0	0	0	2,258	4,414	430	4,844	4,844 9/
1966	0	121	0	121	0	6,569	7,761	475	8,236	8,357 9/
1967	241	406	0	406	0	8,953	14,328	759	15,087	15,493 9/
1968	571	740	12	752	0	19,703	24,928	5,684	30,612	31,364
1969	909	1,410	17	1,427	9,655	30,153	39,235	5,480	44,715	55,797
1970	1,911	2,307	208	2,515	16,150	48,317	50,810	8,438	59,248	77,913
10 Years, 1961-1970	3,632	4,984	237	5,221	25,805	120,351	147,003	21,628	168,631	199,657
1971	2,703	3,840	294	4,134	16,150	53,303	54,461	10,618	65,079	85,363
1972	4,978	5,462	542	6,004	16,150	55,620	56,021	19,600	75,621	97,775
1973	5,946	6,424	647	7,071	16,150	56,421	56,373	20,956	77,329	100,550
1974	6,902	7,389	751	8,140	16,150	56,325	56,584	22,625	79,209	103,499
1975	7,876	9,604	857	10,461	16,150	56,843	57,428	23,979	81,407	108,018
1976	11,332	12,001	1,016	13,017	16,150	58,013	58,529	25,568	84,097	113,264
1977	12,670	13,340	1,136	14,476	16,150	59,046	60,539	26,688	87,227	117,853
1978	14,010	14,669	1,256	15,925	16,150	62,031	64,451	28,652	93,103	125,178
1979	15,328	16,112	1,374	17,486	16,150	66,871	68,585	30,870	99,455	133,091
1980	16,896	17,629	1,514	19,143	16,150	70,299	70,619	29,372	99,991	135,284
10 Years, 1971-1980	98,641	106,470	9,387	115,857	161,500	594,772	603,590	238,928	842,518	1,119,875
1981	18,362	19,081	1,646	20,727	16,150	70,939	71,179	30,374	101,553	138,430
1982	19,800	20,542	1,775	22,317	16,150	71,420	71,679	31,889	103,568	142,035
1983	21,283	22,017	1,908	23,925	16,150	71,938	72,153	34,086	106,239	146,314
1984	22,751	23,650	2,039	25,689	21,514	72,368	72,688	33,597	106,285	153,488
1985	24,549	29,198	2,225	31,423	16,150	73,007	73,275	35,663	108,938	156,511
1986	33,847	34,855	2,587	37,442	16,150	73,544	73,740	34,828	108,568	162,160
1987	35,864	36,888	2,742	39,630	16,150	73,936	74,120	36,542	110,662	166,442
1988	37,912	38,908	2,898	41,806	18,711	74,304	74,441	38,766	113,207	173,724
1989	39,903	40,698	3,050	43,748	22,309	74,578	74,731	39,730	114,461	180,518
1990	41,494	41,558	3,172	44,730	16,150	74,884	74,884	40,779	115,663	176,543
10 Years, 1981-1990	295,765	307,395	24,042	331,437	175,584	730,918	732,890	356,254	1,089,144	1,596,165
10 Years, 1991-2000	460,971	464,167	33,340	497,507	164,896	748,840	748,840	414,121	1,162,961	1,825,364
10 Years, 2001-2010	480,170	480,174	33,990	514,164	161,500	748,840	748,840	414,190	1,163,030	1,838,694
10 Years, 2011-2020	480,250	480,253	33,998	514,251	161,500	631,079	605,122	414,190	1,019,312	1,695,063
10 Years, 2021-2030	480,270	480,270	34,000	514,270	161,500	185,229	178,292	414,190	592,482	1,268,252
2 Years, 2031-2032 10/	96,054	96,054	6,800	102,854	32,300	18,099	18,013	82,838	100,851	236,005
TOTALS	2,395,753	2,419,767	175,794	2,595,561	1,044,585	3,778,128	3,782,590	2,356,339	6,138,929	9,779,075

1/ Capital Cost Component of the Delta Water Charge, as developed in Appendix B, computed at a future project interest rate of 4.1 percent.
2/ Since annual service on general obligation bonds is shown on an accrual basis in the financial analysis described in Chapter V, project revenues are herein adjusted to a similar accrual basis.
3/ Operating Cost Component of the Delta Water Charge, as developed in Appendix B, computed at a future project interest rate of 4.1 percent.
4/ The total of Columns 2 and 3.
5/ The total estimated sales, less the costs of energy consumed in the pump-back operation.
6/ The total annual components developed in Appendix B, computed at a future project interest rate of 4.1 percent. Opposed to the criteria in Appendix B, and under the provisions of a proposed amendment with The Metropolitan Water District of Southern California, credit for a $15 million advance payment by the District in 1971 has been reflected in the Capital Cost Component of the Transportation Charge during the years 1972 through 2021.
7/ The total of Columns 7 and 8.
8/ The total of Columns 4, 5, and 9.
9/ Actual revenues; all others herein are projected revenues.
10/ In the financial analysis described in Chapter V, revenues are considered only through the final repayment of general obligation bonds shown therein. For the purpose of the preparation of relevant revenue tables, it was necessary to assume that the repayment of capital costs would extend for a period of 50 years beyond the completion of construction.

TABLE 22

NET OPERATING REVENUES AVAILABLE FOR COVERAGE OF GENERAL OBLIGATION BOND SERVICE

(in thousands of dollars)

CALENDAR YEAR	PROJECT REVENUES							*less* TOTAL PROJECT OPERATING COSTS, ALL PROGRAMS[7]	*plus* PORTION OF OPERATING COSTS FUNDED FROM POWER REVENUES[8]	*less* OROVILLE-THERMALITO POWER REVENUES PLEDGED TO REVENUE BONDS[9]	PROJECT NET OPERATING REVENUES[10]
	FROM STATE UTILITY PROGRAMS (ADJUSTED)[1]	FROM STATE NONUTILITY PROGRAMS: FOR JOINT OPERATING COSTS ALLOCATED TO R&F&WE[2]	FROM STATE NONUTILITY PROGRAMS: FOR DAVIS-GRUNSKY LOAN REPAYMENTS	FROM FEDERAL PROGRAMS[3]	FROM INCOME ON SHORT-TERM INVESTMENTS[4]	*less* CREDITS FROM ADVANCES FOR REQUESTED EXCESS CAPACITY[5]	TOTAL[6]				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1961	0	0	0	0	0	0	0	0	0	0	0
1962	1,024	5	0	0	41	0	1,070	130	0	0	940
1963	2,315	14	1	0	642	0	2,972	227	0	0	2,745
1964	2,550	6	77	0	4,024	0	6,657	222	0	0	6,435
1965	4,844	29	59	0	6,518	0	11,450	520	0	0	10,930
1966	8,357	44	37	0	6,169	0	14,607	651	0	0	13,956
1967	15,493	20	110	0	5,476	0	21,099	843	0	0	20,256
7 Years, 1961 - 1967	34,583	118	284	0	22,870	0	57,855	2,593	0	0	55,262
1968	31,364	347	48	1,288	0	0	33,047	8,473	0	0	24,574
1969	55,797	427	139	1,392	0	0	57,755	13,109	0	9,655	34,991
1970	77,913	568	242	1,397	0	0	80,120	16,371	1,125	16,150	48,724
3 Years, 1968 - 1970	165,074	1,342	429	4,077	0	0	170,922	37,953	1,125	25,805	108,289
1971	85,363	667	296	1,407	0	216	87,517	17,658	1,500	16,150	55,209
1972	97,775	1,222	350	1,417	0	11,565	89,199	26,913	1,500	16,150	47,636
1973	100,550	1,236	402	1,428	0	7,787	95,829	28,829	1,500	16,150	52,350
1974	103,499	1,249	461	1,435	0	0	106,644	30,276	1,500	16,150	61,718
1975	108,018	1,243	515	1,433	0	0	111,209	31,111	1,500	16,150	65,448
1976	113,264	2,281	570	1,433	0	0	117,548	34,670	1,500	16,150	68,228
1977	117,853	2,290	636	1,431	0	0	122,210	35,775	1,500	16,150	71,785
1978	125,178	2,307	702	1,431	0	0	129,618	37,376	1,500	16,150	77,592
1979	133,091	2,314	733	1,431	0	0	137,569	39,364	1,500	16,150	83,555
1980	135,284	2,362	764	1,431	0	0	139,841	38,243	1,500	16,150	86,948
10 Years, 1971 - 1980	1,119,875	17,171	5,429	14,277	0	19,568	1,137,184	320,215	15,000	161,500	670,469
1981	138,430	2,306	794	1,431	0	0	142,961	39,041	1,500	16,150	89,270
1982	142,035	2,317	824	1,431	0	0	146,607	40,615	1,500	16,150	91,342
1983	146,314	2,399	854	1,431	0	0	150,998	42,745	1,500	16,150	93,603
1984	153,488	2,237	885	1,430	0	0	158,040	42,159	1,500	21,514	95,867
1985	156,511	2,211	915	1,425	0	0	161,062	44,169	1,500	16,150	102,243
1986	162,160	2,164	945	1,421	0	0	166,690	53,837	1,500	16,150	98,203
1987	166,442	2,165	967	1,421	0	0	170,995	54,874	1,500	16,150	101,471
1988	173,724	2,168	967	1,421	0	0	178,280	56,756	1,500	18,711	104,313
1989	180,518	2,176	967	1,421	0	0	185,082	57,777	1,500	22,309	106,496
1990	176,543	2,161	946	1,421	0	0	181,071	58,635	1,500	16,150	107,786
10 Years, 1981 - 1990	1,596,165	22,304	9,064	14,253	0	0	1,641,786	490,608	15,000	175,584	990,594
10 Years, 1991 - 2000	1,825,364	21,666	8,757	14,210	0	0	1,869,997	633,419	15,000	164,896	1,086,682
10 Years, 2001 - 2010	1,838,694	21,660	8,632	14,210	0	0	1,883,196	650,810	15,000	161,500	1,085,886
10 Years, 2011 - 2020	1,695,063	21,660	8,223	14,210	0	0	1,739,156	650,810	15,000	161,500	941,846
10 Years, 2021 - 2030	1,268,252	21,660	2,167	14,210	0	0	1,306,289	650,810	15,000	161,500	508,979
2 Years, 2031 - 2032	236,005	4,332	0	2,842	0	0	243,179	130,162	3,000	32,300	83,717
TOTALS	9,779,075	131,913	42,985	92,289	22,870	19,568	10,049,564	3,567,380	94,125	1,044,585	5,531,724

1/ From Column 10, Table 21.
2/ Operating costs for the project purposes of recreation and fish and wildlife enhancement are assumed to be funded by contributions from the General Fund, shown in Column 4, Table 20.
3/ Operating costs for federal programs are assumed to be funded by contributions from the Federal Government, shown in Column 10, Table 20.
4/ Represents interest accruals from short-term investments of project moneys.
5/ From Column 12, Table 17.
6/ The total of Columns 1 through 6.
7/ From Column 11, Table 20.
8/ In accordance with the requirements for sale of Central Valley Project Revenue Bonds, $150 million per year are funded from power revenues.
9/ From Column 5, Table 21.
10/ The total of Columns 7 through 10.

TABLE 23

FINANCIAL ANALYSIS FOR WATER BONDS

JUNE 1968

(in thousands of dollars)

CALENDAR YEAR	TOTAL CAPITAL EXPENDITURES 1/	FINANCING OF CAPITAL EXPENDITURES				GENERAL OBLIGATION BOND SERVICE 5/	NET OPERATING REVENUES 6/	BOND SERVICE IN EXCESS OF NET OPERATING REVENUES 7/	NET OPERATING REVENUES IN EXCESS OF BOND SERVICE	
		GENERAL OBLIGATION BONDS 2/	CALIFORNIA WATER FUND	REVENUE BOND PROCEEDS 3/	MISCELLANEOUS RECEIPTS 4/				PAID TO CALIF. WATER FUND 8/	AVAILABLE FOR CONSTRUCTION 9/
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Prior Appropriations	100,252 10/	0	0	0	100,252	0	0	0	0	0
8 Years, 1960-1967	1,062,752	950,000	174,913	0	6,574	67,661	55,262	12,399	0	0
1968	362,516	31,772	17,762	218,865	25,382	38,708	24,574	14,134	0	0
1969	315,367	304,367	11,000	0	0	48,260	34,991	13,269	0	0
1970	211,798	197,008	11,000	0	3,790	58,679	48,724	9,955	0	0
3 Years, 1968-1970	889,681	533,147	39,762	218,865	29,172	145,647	108,289	37,358	0	0
1971	94,155	12,031	11,000	0	71,124	61,977	55,209	6,768	0	0
1972	48,928	12,069	11,000	0	25,859	62,916	47,636	15,280	0	0
1973	42,255	31,255	11,000	0	0	65,409	52,350	13,059	0	0
1974	44,810	33,810	11,000	0	0	68,911	61,718	7,193	0	0
1975	50,380	39,380	11,000	0	0	72,071	65,448	6,623	0	0
1976	40,844	29,844	11,000	0	0	76,129	68,228	7,901	0	0
1977	83,300	72,300	11,000	0	0	80,529	71,785	8,744	0	0
1978	118,133	107,133	11,000	0	0	87,581	77,592	9,989	0	0
1979	83,456	72,456	11,000	0	0	93,098	83,555	9,543	0	0
1980	24,196	13,196	11,000	0	0	94,481	86,948	7,533	0	0
10 Years, 1971-1980	630,457	423,474	110,000	0	96,983	763,102	670,469	92,633	0	0
1981	20,142	8,211	11,000	0	931	94,872	89,270	5,602	0	0
1982	18,673	6,198	11,000	0	1,475	95,351	91,342	4,009	0	0
1983	18,068	3,994	11,000	0	3,074	95,990	93,603	2,387	0	0
1984	23,647	0	11,000	0	12,647	96,346	95,867	479	0	0
1985	14,677	0	11,000	0	3,677	96,349	102,243	0	5,894	0
1986	0	0	0	0	0	96,780	98,203	0	1,423	0
1987	0	0	0	0	0	97,469	101,471	0	4,002	0
1988	0	0	0	0	0	98,122	104,313	0	6,191	0
1989	0	0	0	0	0	98,352	106,496	0	8,144	0
1990	0	0	0	0	0	98,131	107,786	0	9,655	0
10 Years, 1981-1990	95,207	18,403	55,000	0	21,804	967,762	990,594	12,477	35,309	0
10 Years, 1991-2000	0	0	0	0	0	978,698	1,086,682	0	107,984	0
10 Years, 2001-2010	0	0	0	0	0	973,222	1,085,886	0	112,664	0
10 Years, 2011-2020	0	0	0	0	0	695,477	941,846	0	123,718	122,651
10 Years, 2021-2030	0	0	0	0	0	135,476	508,979	0	0	373,503
2 Years, 2031-2032	0	0	0	0	0	754	83,717	0	0	82,963
TOTALS	2,778,349	1,925,024	379,675	218,865	254,785	4,727,799	5,531,724	154,867	379,675	579,117

1/ From Column 11, Table 10.
2/ Amounts of bonds issued during the period through 1967 produce a temporary excess of unexpended bond proceeds which are utilized by the end of 1968.
3/ From revenue bonds supported by sale of 725,000 kilowatts of Oroville-Thermalito power. The financing of the Project may include the issuance of revenue bonds for certain other purposes as well.
4/ See Column 10, Table 24.
5/ See Column 7, Table 26.
6/ From Column 11, Table 22. Excludes net operating revenues from 725,000 kilowatts of Oroville-Thermalito power, which are assumed herein to be applied to payment of revenue bond service.
7/ See Column 11, Table 24. These deficiencies are covered by miscellaneous receipts.
8/ These amounts represent projected reimbursement of expenditures made from the California Water Fund, shown in Column 3 to be $379,675.
9/ These amounts represent those available for future construction under the fourth priority of revenues under the Burns-Porter Act.
10/ Represents expenditures made during the period 1952-1967 from appropriations made prior to the effective date of the Burns-Porter Act (November 8, 1960).

TABLE 24

MISCELLANEOUS RECEIPTS AND THE EXPENDITURES THEREOF

(in thousands of dollars)

CALENDAR YEAR	CUMULATIVE BALANCE AT BEGINNING OF YEAR[1]	MISCELLANEOUS RECEIPTS							CUMULATIVE BALANCE PLUS RECEIPTS[6]	EXPENDITURES		BALANCE AT END OF YEAR, EXCLUDING INTEREST[9]	INTEREST ON AVERAGE BALANCE AT 4.5%[10]
		LEGISLATIVE APPROPRIATIONS[2]	FEDERAL REIMBURSEMENTS[3]		COOPERATIVE POWER DEVELOPMENT	RIGHT-OF-WAY SALES, ETC.	TOTAL ADVANCES BY WATER CONTRACTORS[4]	TOTALS[5]		FINANCING OF CAPITAL EXPENDITURES[7]	COVERAGE OF BOND SERVICE[8]		
			OROVILLE DAM AND RESERVOIR	DEL VALLE DAM AND RESERVOIR									
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Prior Appropriations	-	100,252	0	0	0	0	0	100,252	-	100,252	0	-	0
8 Years, 1960-1967	-	5,000	54,650	781	0	6,135	21,285	87,851	-	6,574	12,399	-	0
1968	68,878	5,000	3,704[11]	2,248	0	0	5,046	15,998	84,876	25,382	14,134	45,360	2,570
1969	47,930	5,000	10,072	3,155	0	0	12,991	31,218	79,148	0	13,269	65,879	2,561
1970	68,440	5,000	765	184	0	0	11,306	17,255	85,695	3,790	9,955	71,950	3,159
3 Years, 1968-1970	-	15,000	14,541	5,587	0	0	29,343	64,471	-	29,172	37,358	-	8,290
1971	75,109	5,000	144	0	16,137	0	18,427	39,708	114,817	71,124	6,768	36,925	2,521
1972	39,446	5,000	65	0	12,429	0	380	17,874	57,320	25,859	15,280	16,181	1,252
1973	17,433	5,000	0	0	12,926	0	245	18,171	35,604	0	13,059	22,545	899
1974	23,444	5,000	0	0	0	0	175	5,175	28,619	0	7,193	21,426	1,010
1975	22,436	5,000	0	0	0	0	96	5,096	27,532	0	6,623	20,909	975
1976	21,884	5,000	0	0	0	0	26	5,026	26,910	0	7,901	19,009	920
1977	19,929	5,000	0	0	0	0	1,350	6,350	26,279	0	8,744	17,535	843
1978	18,378	5,000	0	0	0	0	1,793	6,793	25,171	0	9,989	15,182	755
1979	15,937	5,000	0	0	0	0	1,439	6,439	22,376	0	9,543	12,833	647
1980	13,480	5,000	0	0	0	0	36	5,036	18,516	0	7,533	10,983	550
10 Years, 1971-1980	-	50,000	209	0	41,492	0	23,967	115,668	-	96,983	92,633	-	10,372
1981	11,533	5,000	0	0	0	0	0	5,000	16,533	931	5,602	10,000	484
1982	10,484	5,000	0	0	0	0	0	5,000	15,484	1,475	4,009	10,000	461
1983	10,461	5,000	0	0	0	0	0	5,000	15,461	3,074	2,387	10,000	460
1984	10,460	2,666	0	0	0	0	0	2,666	13,126	12,647	479	0	235
1985	235	3,442	0	0	0	0	0	3,442	3,677	3,677	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Years, 1981-1990	-	21,108	0	0	0	0	0	21,108	-	21,804	12,477	-	1,640
TOTALS	-	191,360	69,400	6,368	41,492	6,135	74,595	389,350	-	254,785	154,867	-	20,302

1/ The total of Columns 13 and 14 for the preceding year.
2/ Appropriations under the provision of AB 12 for the Capital Costs of multiple-purpose features of the State Water Project allocated to the purposes of recreation and fish and wildlife enhancement and for recreational lands purchased with project funds.
3/ From values shown in Table 16.
4/ Values from Column 13, Table 17, plus the annual values from Table B-9 increased by allowances for cost escalation, plus a $15,000,000 advance payment in 1971 by The Metropolitan Water District of Southern California.
5/ The total of Columns 2 through 7.
6/ The total of Columns 1 and 8.
7/ See Column 5, Table 23.
8/ See Column 8, Table 23.
9/ Column 10, less Columns 11 and 12.
10/ Interest accruals on the average of Columns 1 and 13 at an interest rate of 4.5 percent per annum.
11/ Total receipt for 1968 equals $6,104,000. An amount of $2,400,000 has been withheld from this receipt to cover reserves in accordance with the requirements for sale of Central Valley Project Revenue Bonds. The reserves are as follows: $750,000 is to be placed in an operating reserve account and $1,650,000 is to be placed in the General Reserve Fund.

TABLE 25

ANALYSIS OF OFFSET BONDS

(in thousands of dollars)

CALENDAR YEAR	FINANCING OF CAPITAL EXPENDITURES												BALANCE OF UNISSUED OFFSET BONDS 6/
	TOTAL STATE WATER PROJECT				STATE WATER FACILITIES				ADDITIONAL FACILITIES				
	CALIFORNIA WATER FUND 1/	GENERAL OBLIGATION BONDS 2/	ALL OTHER 3/	TOTAL 4/	CALIFORNIA WATER FUND	GENERAL OBLIGATION BONDS	ALL OTHER	TOTAL	CALIFORNIA WATER FUND	GENERAL OBLIGATION BONDS	ALL OTHER	TOTAL 5/	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Prior Appropriations	0	0	100,252	100,252	0	0	100,252	100,252	0	0	0	0	0
8 Years, 1960-1967	174,913	881,265	6,574	1,062,752	174,913	877,305	6,574	1,058,792	0	3,960	0	3,960	-
1968	17,762	100,507	244,247	362,516	17,762	99,120	244,247	361,129	0	1,387	0	1,387	187,328
1969	11,000	304,367	0	315,367	11,000	302,999	0	313,999	0	1,368	0	1,368	196,960
1970	11,000	197,008	3,790	211,798	11,000	195,612	3,790	210,402	0	1,396	0	1,396	195,564
3 Years, 1968-1970	39,762	601,882	248,037	889,681	39,762	597,731	248,037	885,530	0	4,151	0	4,151	-
1971	11,000	12,031	71,124	94,155	11,000	10,600	71,124	92,724	0	1,431	0	1,431	194,133
1972	11,000	12,069	25,859	48,928	11,000	10,600	25,859	47,459	0	1,469	0	1,469	192,664
1973	11,000	31,255	0	42,255	11,000	27,104	0	38,104	0	4,151	0	4,151	188,513
1974	11,000	33,810	0	44,810	11,000	30,218	0	41,218	0	3,592	0	3,592	184,921
1975	11,000	39,380	0	50,380	11,000	36,352	0	47,352	0	3,028	0	3,028	181,893
1976	11,000	29,844	0	40,844	11,000	18,554	0	29,554	0	11,290	0	11,290	170,603
1977	11,000	72,300	0	83,300	11,000	57,566	0	68,566	0	14,734	0	14,734	155,869
1978	11,000	107,133	0	118,133	11,000	92,241	0	103,241	0	14,892	0	14,892	140,977
1979	11,000	72,456	0	83,456	11,000	57,407	0	68,407	0	15,049	0	15,049	125,928
1980	11,000	13,196	0	24,196	8,987	0	0	8,987	2,013	13,196	0	15,209	112,732
10 Years, 1971-1980	110,000	423,474	96,983	630,457	107,987	340,642	96,983	545,612	2,013	82,832	0	84,845	-
1981	11,000	8,211	931	20,142	4,769	0	0	4,769	6,231	8,211	931	15,373	104,521
1982	11,000	6,198	1,475	18,673	3,136	0	0	3,136	7,864	6,198	1,475	15,537	98,323
1983	11,000	3,994	3,074	18,068	1,058	0	0	1,058	9,942	3,994	3,074	17,010	94,329
1984	11,000	0	12,647	23,647	8,836	0	0	8,836	2,164	0	12,647	14,811	94,329
1985	11,000	0	3,677	14,677	5,332	0	0	5,332	5,668	0	3,677	9,345	94,329
1986	0	0	0	0	0	0	0	0	0	0	0	0	94,329
1987	0	0	0	0	0	0	0	0	0	0	0	0	94,329
1988	0	0	0	0	0	0	0	0	0	0	0	0	94,329
1989	0	0	0	0	0	0	0	0	0	0	0	0	94,329
1990	0	0	0	0	0	0	0	0	0	0	0	0	94,329
10 Years, 1981-1990	55,000	18,403	21,804	95,207	23,131	0	0	23,131	31,869	18,403	21,804	72,076	-
TOTALS	379,675	1,925,024	473,650	2,778,349	345,793	1,815,678	451,846	2,613,317	33,882	109,346	21,804	165,032	-

1/ From Column 3, Table 23.
2/ From Column 2, Table 23, with a temporary excess of unexpended bond proceeds in 1967 expended in 1968.
3/ From Columns 4 and 5,
4/ From Column 1, Table 23.
5/ Costs of Middle Fork Eel River Development, as shown in Column 6, Table 10.
6/ Cumulative values of Column 5, less Column 10 through calendar year 1969, less Column 10 in 1970 and each year thereafter. Burns-Porter Bonds amounting to $71,289,000 are reserved in 1970 for Davis-Grunsky expenditures in 1971 through 1977. This reserve, plus the cumulative values of Column 5 through 1969 and Column 6 through 1970, totaling $1,750,000,000, signals the limit for transferring Burns-Porter Bonds to the "Offset" Bond Account.

TABLE 26

SERVICE ON ACTUAL AND PROJECTED GENERAL OBLIGATION BONDS

(in thousands of dollars)

CALENDAR YEAR	BOND SERVICE ON ACTUAL ISSUES THROUGH SERIES "K"[1]			BOND SERVICE ON PROJECTED ISSUES[2]			TOTAL BOND SERVICE
	PRINCIPAL	INTEREST	TOTAL	PRINCIPAL	INTEREST	TOTAL	ACTUAL AND PROJECTED
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1963	0	0	0	0	0	0	0
64	0	5,507	5,507	0	0	0	5,507
65	0	12,637	12,637	0	0	0	12,637
66	0	19,115	19,115	0	0	0	19,115
67	0	30,402	30,402	0	0	0	30,402
68	0	37,760	37,760	0	948	948	38,708
69	0	37,760	37,760	0	10,500	10,500	48,260
1970	0	37,760	37,760	0	20,919	20,919	58,679
71	0	37,760	37,760	0	24,217	24,217	61,977
72	400	37,760	38,160	0	24,756	24,756	62,916
73	1,800	37,740	39,540	0	25,869	25,869	65,409
74	3,917	37,651	41,568	0	27,343	27,343	68,911
75	5,583	37,466	43,049	0	29,022	29,022	72,071
76	8,425	37,203	45,628	0	30,501	30,501	76,129
77	10,358	36,802	47,160	267	33,102	33,369	80,529
78	11,075	36,306	47,381	2,837	37,363	40,200	87,581
79	11,708	35,775	47,483	4,634	40,981	45,615	93,098
1980	12,075	35,215	47,290	4,966	42,225	47,191	94,481
81	12,500	34,637	47,137	5,316	42,419	47,735	94,872
82	13,008	34,039	47,047	5,844	42,460	48,304	95,351
83	13,775	33,416	47,191	6,420	42,379	48,799	95,990
84	14,400	32,756	47,156	7,072	42,118	49,190	96,346
85	14,842	32,067	46,909	7,677	41,763	49,440	96,349
86	15,375	31,357	46,732	8,668	41,380	50,048	96,780
87	15,900	30,621	46,521	10,001	40,947	50,948	97,469
88	16,692	29,873	46,565	11,110	40,447	51,557	98,122
89	17,525	29,159	46,684	11,775	39,893	51,668	98,352
1990	17,950	28,444	46,394	12,422	39,315	51,737	98,131
91	18,392	27,714	46,106	13,068	38,721	51,789	97,895
92	19,058	26,992	46,050	13,720	38,102	51,822	97,872
93	19,950	26,262	46,212	14,368	37,454	51,822	98,034
94	20,883	25,498	46,381	15,045	36,777	51,822	98,203
95	21,492	24,699	46,191	15,752	36,070	51,822	98,013
96	22,025	23,874	45,899	16,491	35,331	51,822	97,721
97	22,617	23,029	45,646	17,264	34,558	51,822	97,468
98	23,733	22,163	45,896	18,070	33,752	51,822	97,718
99	24,933	21,258	46,191	18,905	32,917	51,822	98,013
2000	25,633	20,306	45,939	19,765	32,057	51,822	97,761
01	26,333	19,323	45,656	20,656	31,166	51,822	97,478
02	27,233	18,313	45,546	21,586	30,236	51,822	97,368
03	28,634	17,266	45,900	22,552	29,270	51,822	97,722
04	29,933	16,164	46,097	23,561	28,261	51,822	97,919
05	30,633	15,009	45,642	24,614	27,208	51,822	97,464
06	31,425	13,824	45,249	25,717	26,105	51,822	97,071
07	32,458	12,605	45,063	26,869	24,953	51,822	96,885
08	34,017	11,345	45,362	28,076	23,746	51,822	97,184
09	35,475	10,025	45,500	29,337	22,485	51,822	97,322
2010	36,342	8,645	44,987	30,653	21,169	51,822	96,809
11	37,317	7,232	44,549	32,026	19,796	51,822	96,371
12	38,275	5,783	44,058	33,451	18,371	51,822	95,880
13	37,809	4,384	42,193	34,934	16,888	51,822	94,015
14	34,117	3,113	37,230	36,484	15,338	51,822	89,052
15	26,767	1,900	28,667	38,103	13,719	51,822	80,489
16	19,708	965	20,673	39,790	12,032	51,822	72,495
17	7,500	276	7,776	41,516	10,306	51,822	59,598
18	0	0	0	41,727	8,407	50,134	50,134
19	0	0	0	27,223	6,734	33,957	33,957
2020	0	0	0	17,800	5,686	23,486	23,486
21	0	0	0	17,940	4,907	22,847	22,847
22	0	0	0	18,089	4,116	22,205	22,205
23	0	0	0	17,209	3,335	20,544	20,544
24	0	0	0	16,155	2,592	18,747	18,747
25	0	0	0	14,743	1,910	16,653	16,653
26	0	0	0	13,793	1,275	15,068	15,068
27	0	0	0	10,528	697	11,225	11,225
28	0	0	0	5,235	295	5,530	5,530
29	0	0	0	1,559	120	1,679	1,679
2030	0	0	0	918	60	978	978
31	0	0	0	517	25	542	542
32	0	0	0	206	6	212	212
TOTALS	950,000	1,274,955	2,224,955	975,024	1,527,820	2,502,844	4,727,799

1/ Placed on an accrual basis.
2/ All projected issues are assumed at approximately 4.40 percent net interest cost, with amortization commencing in the 10th year of such issues, to produce level annual bond service for the 41-year period beginning with the 10th and ending with the 50th year.

TABLE 27

STATE OF CALIFORNIA WATER BONDS

SCHEDULE OF MATURITIES, AMOUNT AND COUPON

(in thousands of dollars unless otherwise noted)

CALENDAR YEAR	SERIES A 1/ MATURITY DATE SEPTEMBER 1		SERIES B MATURITY DATE MAY 1		SERIES C MATURITY DATE NOVEMBER 1		SERIES D MATURITY DATE MARCH 1		SERIES E MATURITY DATE DECEMBER 1		SERIES F MATURITY DATE JULY 1		SERIES G MATURITY DATE DECEMBER 1		SERIES H MATURITY DATE APRIL 1		SERIES J MATURITY DATE AUGUST 1		SERIES K MATURITY DATE NOVEMBER 1	
	AMOUNT	COUPON(%)	AMOUNT	COUPON(%)	AMOUNT	COUPON(%)	AMOUNT	COUPON(%)	AMOUNT	COUPON(%)	AMOUNT	COUPON(%)	AMOUNT	COUPON(%)	AMOUNT	COUPON(%)	AMOUNT	COUPON(%)	AMOUNT	COUPON(%)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1973	1,200	5.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000
1974	1,200	5.000	600	5.000	1,200	4.500	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000
1975	1,200	5.000	600	5.000	1,200	4.500	1,000	4.500	1,000	4.500	0	.000	0	.000	0	.000	0	.000	0	.000
1976	1,200	5.000	600	5.000	1,200	4.500	1,000	4.500	1,000	4.500	1,000	5.000	1,000	5.000	0	.000	0	.000	0	.000
1977	1,200	5.000	600	5.000	1,200	4.500	1,100	4.500	1,100	4.500	1,000	5.000	1,000	5.000	1,000	4.500	1,000	5.000	1,000	5.000
1978	1,500	5.000	600	5.000	1,200	4.500	1,100	4.500	1,100	4.500	1,100	5.000	1,100	5.000	1,000	4.500	1,000	5.000	1,000	5.000
1979	1,500	5.000	750	5.000	1,500	4.500	1,200	4.500	1,200	4.500	1,100	5.000	1,100	5.000	1,100	4.500	1,100	5.000	1,100	5.000
1980	1,500	5.000	750	5.000	1,500	4.500	1,200	4.500	1,200	4.500	1,200	5.000	1,200	5.000	1,100	4.500	1,100	5.000	1,100	5.000
1981	1,500	5.000	750	5.000	1,500	4.500	1,300	4.500	1,300	4.500	1,200	5.000	1,200	5.000	1,200	4.500	1,200	5.000	1,200	5.000
1982	1,500	5.000	750	5.000	1,500	4.500	1,400	4.500	1,400	4.500	1,300	5.000	1,300	5.000	1,200	4.500	1,200	5.000	1,200	5.000
1983	1,700	5.000	750	5.000	1,500	4.500	1,400	4.500	1,400	4.500	1,400	5.000	1,400	5.000	1,300	4.500	1,300	5.000	1,300	5.000
1984	1,700	5.000	850	5.000	1,700	4.500	1,500	4.500	1,500	4.500	1,400	5.000	1,400	5.000	1,400	4.500	1,400	5.000	1,400	5.000
1985	1,700	5.000	850	5.000	1,700	4.500	1,600	4.500	1,600	4.500	1,500	5.000	1,500	5.000	1,400	4.500	1,400	5.000	1,400	5.000
1986	1,700	5.000	850	5.000	1,700	4.500	1,600	4.500	1,600	4.500	1,600	5.000	1,600	5.000	1,500	4.500	1,500	5.000	1,500	5.000
1987	1,700	5.000	850	5.000	1,700	4.500	1,700	4.500	1,700	4.500	1,600	5.000	1,600	5.000	1,600	4.500	1,600	5.000	1,600	5.000
1988	2,000	4.000	850	4.750	1,700	3.750	1,800	4.500	1,800	4.500	1,700	5.000	1,700	5.000	1,600	4.500	1,600	4.600	1,600	5.000
1989	2,000	3.400	1,000	3.400	2,000	3.400	1,800	3.250	1,800	4.500	1,800	4.200	1,800	5.000	1,700	4.500	1,700	4.150	1,700	5.000
1990	2,000	3.400	1,000	3.400	2,000	3.400	1,900	3.400	1,900	4.500	1,800	3.800	1,800	5.000	1,800	4.500	1,800	4.150	1,800	5.000
1991	2,000	3.400	1,000	3.500	2,000	3.500	2,000	3.400	2,000	3.600	1,900	3.850	1,900	4.700	1,800	4.500	1,800	4.150	1,800	5.000
1992	2,000	3.400	1,000	3.500	2,000	3.500	2,000	3.400	2,000	3.600	2,000	3.850	2,000	4.000	1,900	4.100	1,900	4.150	1,900	5.000
1993	2,400	3.500	1,000	3.500	2,000	3.500	2,100	3.400	2,100	3.600	2,000	3.850	2,000	4.000	2,000	3.750	2,000	4.150	2,000	5.000
1994	2,400	3.500	1,200	3.500	2,400	3.500	2,200	3.400	2,200	3.625	2,100	3.850	2,100	4.000	2,000	3.750	2,000	4.150	2,000	5.000
1995	2,400	3.500	1,200	3.500	2,400	3.550	2,300	3.400	2,300	3.625	2,200	3.850	2,200	4.000	2,100	3.750	2,100	4.200	2,100	5.000
1996	2,400	3.500	1,200	3.500	2,400	3.550	2,300	3.400	2,300	3.625	2,300	3.875	2,300	4.000	2,200	3.750	2,200	4.200	2,200	5.000
1997	2,400	3.500	1,200	3.500	2,400	3.550	2,400	3.400	2,400	3.625	2,300	3.875	2,300	4.000	2,300	3.625	2,300	4.200	2,300	4.900
1998	2,900	3.500	1,200	3.500	2,400	3.550	2,500	3.500	2,500	3.625	2,400	3.875	2,400	4.050	2,300	3.625	2,300	4.200	2,300	4.750
1999	2,900	3.500	1,450	3.500	2,900	3.550	2,600	3.500	2,600	3.625	2,500	3.875	2,500	4.050	2,400	3.625	2,400	4.150	2,400	4.750
2000	2,900	3.500	1,450	3.600	2,900	3.600	2,700	3.500	2,700	3.700	2,600	3.875	2,600	4.050	2,500	3.625	2,500	4.150	2,500	4.750
2001	2,900	3.500	1,450	3.600	2,900	3.600	2,800	3.500	2,800	3.700	2,700	3.900	2,700	4.050	2,600	3.700	2,600	4.050	2,600	4.750
2002	2,900	3.500	1,450	3.600	2,900	3.600	2,900	3.500	2,900	3.700	2,800	3.900	2,800	4.050	2,700	3.700	2,700	4.050	2,700	4.800
2003	3,500	3.500	1,450	3.600	2,900	3.600	3,000	3.500	3,000	3.750	2,900	3.900	2,900	4.100	2,800	3.700	2,800	4.050	2,800	4.800
2004	3,500	3.600	1,750	3.600	3,500	3.625	3,100	3.500	3,100	3.750	3,000	3.900	3,000	4.100	2,900	3.650	2,900	4.100	2,900	4.800
2005	3,500	3.600	1,750	3.600	3,500	3.625	3,200	3.500	3,200	3.750	3,100	3.900	3,100	4.100	3,000	3.650	3,000	4.100	3,000	4.800
2006	3,500	3.600	1,750	3.625	3,500	3.625	3,300	3.500	3,300	3.750	3,200	3.900	3,200	4.100	3,100	3.700	3,100	4.100	3,100	4.875
2007	3,500	3.600	1,750	3.625	3,500	3.625	3,500	3.500	3,500	3.750	3,300	3.900	3,300	4.100	3,200	3.700	3,200	4.100	3,200	4.875
2008	4,000	3.625	1,750	3.625	3,500	3.650	3,600	3.500	3,600	3.750	3,500	3.900	3,500	4.100	3,300	3.700	3,300	4.100	3,300	4.875
2009	4,000	3.625	2,000	3.625	4,000	3.650	3,700	3.500	3,700	3.750	3,600	3.900	3,600	4.100	3,500	3.700	3,500	4.100	3,500	4.875
2010	4,000	3.625	2,000	3.625	4,000	3.650	3,900	3.600	3,900	3.750	3,700	3.900	3,700	4.100	3,600	3.700	3,600	4.100	3,600	4.750
2011	4,000	3.625	2,000	3.625	4,000	3.650	4,000	3.600	4,000	3.750	3,900	4.000	3,900	4.100	3,700	3.700	3,700	4.100	3,700	4.750
2012	4,000	3.625	2,000	3.625	4,000	3.000	4,100	3.600	4,100	3.750	4,000	4.000	4,000	4.100	3,900	3.700	3,900	4.100	3,900	4.750
2013	4,000	.100	2,000	3.625	4,000	3.000	4,300	3.000	4,300	3.750	4,100	4.000	4,100	4.100	4,000	3.700	4,000	4.100	4,000	4.750
2014	0	.000	2,000	.050	4,000	3.000	4,400	3.000	4,400	3.000	4,300	3.500	4,300	4.100	4,100	3.700	4,100	4.100	4,100	4.750
2015	0	.000	0	.000	0	.000	4,500	3.000	4,500	3.000	4,400	3.500	4,400	3.500	4,300	3.700	4,300	4.100	4,300	4.000
2016	0	.000	0	.000	0	.000	0	.000	0	.000	4,500	3.500	4,500	3.500	4,400	3.000	4,400	3.500	4,400	4.000
2017	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	4,500	3.000	4,500	3.500	4,500	4.000
2018	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000
2019	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000	0	.000
TOTAL	100,000		50,000		100,000		100,000		100,000		100,000		100,000		100,000		100,000		100,000	
AVERAGE LIFE (YEARS)	34.02		34.52		34.52		34.98		34.98		34.98		34.98		34.98		34.98		34.98	

1/ Bond anticipation notes dated December 1, 1963, in the amount of $50,000,000 and maturing on June 15, 1964, had a life of 0.27 years.

TABLE 28

REDEMPTION PREMIUMS
FOR STATE OF CALIFORNIA WATER BONDS

Year of Maturity	Maturity dates for respective Series: Series A, September 1. Series B, May 1. Series C, November 1. Series D, March 1. Series E, December 1. Series F, July 1. Series G, December 1. Series H, April 1. Series J, August 1. Series K, November 1. % premium if redemption occurs during 12-month period ending on maturity date for respective Series in year named below:																				
	1983[1/]	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003[2/]
1984	1/8	0																			
1985	1/4	1/8	0																		
1986	3/8	1/4	1/8	0																	
1987	1/2	3/8	1/4	1/8	0																
1988	5/8	1/2	3/8	1/4	1/8	0															
1989	3/4	5/8	1/2	3/8	1/4	1/8	0														
1990	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0													
1991	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0												
1992	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0											
1993	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0										
1994	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0									
1995	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0								
1996	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0							
1997	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0						
1998	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0					
1999	2	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0				
2000	2 1/8	2	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0			
2001	2 1/4	2 1/8	2	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0		
2002	2 3/8	2 1/4	2 1/8	2	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0	
2003[2/]	2 1/2	2 3/8	2 1/4	2 1/8	2	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 1/4	1 1/8	1	7/8	3/4	5/8	1/2	3/8	1/4	1/8	0

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

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

2/ Or later.

APPENDIX A

FINANCIAL STATEMENTS

Introduction

This appendix to Bulletin 132-68 presents the financial statements for the State Water Resources Development System as of December 31, 1967, and explanatory notes thereto.

Summarized in the following paragraphs are the significant changes accounted for in these statements from those included in Bulletin 132-67 for the System as of December 31, 1966.

During 1967, there were additional sales of general obligation bonds authorized by the Burns-Porter Act in the total amount of $300 million. In addition, about $17 million of moneys provided by the California Water Fund were used. Advance payments from water supply contractors totaled about $12 million.

The above funds were applied principally to additions for construction of the State Water Project in the amount of $332 million. The Davis-Grunsky Program authorized grants in the approximate amount of $6 million during 1967. Expenditures during 1967 caused a decrease in net current assets of $10 million.

Revenues for 1967 totaled about $34 million. Included in this total were receipts of $15 million from water supply contractors, $12 million from the Federal Government for flood control contributions, $5 million of legislative appropriations for nonreimbursable costs allocated to recreation, and $2 million from right-of-way rentals and sales.

Interest earnings on investments amounted to about $5 million in 1967, and interest charges on water bonds were approximately $30 million for the same period.

EXHIBIT I

STATE WATER RESOURCES DEVELOPMENT SYSTEM
BALANCE SHEET
DECEMBER 31, 1967

ASSETS			LIABILITIES		
Property, Plant and Equipment (Note 2):			Capitalization:		
Middle Fork Eel River Development	$ 3,968,063		Water Resources Development Bonds (Note 4)	$950,000,000	
Upper Feather Area	13,376,451		Advances from California Water Fund (Note 5)	174,912,524	
Oroville Area	457,419,390		Net Grants in Aid of Construction (Note 6)	74,697,418	
Delta Facilities	10,563,450				$1,199,609,942
North Bay Aqueduct	2,711,737		Accumulated Net Revenues		54,648,449
South Bay Aqueduct	56,784,331		Commitments (Note 7)		
California Aqueduct	612,006,457		Current Liabilities:		
San Joaquin Drainage Facilities	5,450,294		Accounts Payable	$ 5,851,952	
Other	3,766,979		Contract Retentions	29,978,310	
	$1,166,047,152		Due to Other Funds	4,904,144	
Less: Allowance for Replacement	20,474		Accrued Interest on Water Bonds	7,538,715	
		$1,166,026,678			$ 48,273,121
Loans Receivable Arising from Davis-Grunsky Local Projects Assistance Program		2,843,477	Reserve for Deferred Accounts Receivable		153,123
Working Capital Advance - Equipment		2,985,058	Advance Payments from Water Service Contractors		20,958,937
Current Assets (Notes 1 and 3):					
Cash	$ 5,779,027				
Investments	126,170,000				
Accounts Receivable:					
Billed	11,118,705				
Unbilled	257,172				
Accrued Interest Receivable	2,654,839				
		$ 145,979,743			
Other Assets		5,808,616			
Total Assets		$1,323,643,572	Total Liabilities		$1,323,643,572

EXHIBIT II

STATE WATER RESOURCES DEVELOPMENT SYSTEM
STATEMENT OF NET REVENUES AND APPLICATION THEREOF (NOTES 3 AND 5)
CUMULATIVE TO DECEMBER 31, 1967

ITEM	PRIOR YEARS THROUGH DECEMBER 31, 1966	CURRENT YEAR 1967	TOTAL THROUGH DECEMBER 31, 1967
REVENUES:			
Capital Cost Reimbursements	$ 2,927,019	$ 855,161	$ 3,782,180
Interest on Capital Costs	10,298,548	8,338,793	18,637,341
Operations and Maintenance			
Water Contractor Payments	2,533,555	1,037,134	3,570,689
General Fund Reimbursements	98,000	20,000	118,000
Federal Flood Control Contributions	51,986,534	12,483,012	64,469,546
Legislative Appropriations for Costs Allocated to Recreation	0	5,000,000	5,000,000
Enlargement of California Aqueduct	1,200,604	4,461,660	5,662,264
Delivery Structures	763,391	176,204	939,595
Interest from Investments	17,453,884	5,214,272	22,668,156
Right-of-Way Rentals and Sales	3,681,967	1,865,112	5,547,079
Davis-Grunsky Loan Repayments	229,602	76,046	305,648
Other	83,841	144,627	228,468
Surplus Adjustments	0	252,679	252,679
Less Income Credited to Capital Outlay	0	6,088,113 a/	6,088,113
Total Revenues	$91,256,945	$33,836,587	$125,093,532
EXPENSES:			
Operations and Maintenance	$ 2,596,756	$ 1,071,459	$ 3,668,215
Provision for Replacement	34,799	- 14,325	20,474
Water Bond Interest	36,700,893	30,055,501	66,756,394
Total Expenses	$39,332,448	$31,112,635	$ 70,445,083
NET REVENUES	$51,924,497	$ 2,723,952	$ 54,648,449
NET REVENUES USED OR AVAILABLE FOR:			
Construction of Project Facilities	$ 1,963,995	$ 9,739,512	$ 11,703,507
Reserve for Principal and Interest on Water Bonds	49,960,502	-7,015,560	42,944,942
Total	$51,924,497	$ 2,723,952	$ 54,648,449

a/ Includes $4,190,341 for prior years

EXHIBIT III

STATE WATER RESOURCES DEVELOPMENT SYSTEM
STATEMENT OF SOURCES AND APPLICATION OF FUNDS
CUMULATIVE TO DECEMBER 31, 1967

ITEM	PRIOR YEARS THROUGH DECEMBER 31, 1966	CURRENT YEAR 1967	TOTAL THROUGH DECEMBER 31, 1967
SOURCE:			
Net Revenues	$ 51,924,497	$ 2,723,952	$ 54,648,449
Sales of Water Resources Development Bonds	650,000,000	300,000,000	950,000,000
Advances from California Water Fund	157,873,315	17,039,209	174,912,524
Grants in Aid of Construction	96,404,851	2,464,041 b/	98,868,892
Advance Payments from Water Service Contractors	8,573,518	12,385,419	20,958,937
Total	$964,776,181	$334,612,621	$1,299,388,802
APPLICATION:			
Net Additions to Property, Plant and Equipment	$834,445,643	$331,581,035	$1,166,026,678
Davis-Grunsky Program:			
Loans	2,521,000	322,477	2,843,477
Grants	15,613,188	5,689,722	21,302,910
Administrative Expenses	2,241,788	626,776	2,868,564
Working Capital Advances - Equipment	2,472,071	512,987	2,985,058
Decrease in Net Current Assets	107,166,533	-9,613,034	97,553,499
Increase in Deferred Charges and other assets	315,958	5,492,658	5,808,616
Total	$964,776,181	$334,612,621	$1,299,388,802

b/ Reflects a change in accounting procedure.

NOTES TO FINANCIAL STATEMENTS

1. Basis of Financial Statements

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

The basic philosophy underlying these acts and contracts is that costs for construction and operation of the System be repaid by the beneficiaries of the System. Further details with regard to requirements for applications of funds and revenues are contained in Notes 3, 4 and 8.

2. Property, Plant, and Equipment

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

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

3. Current Assets

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

Fund	Construction	Interest on bonds	Replacements	Total
California Water Resources Development Bond Fund:				
Bond Proceeds Account	$64,151,998			$ 64,151,998
Revenue Account		$ 6,434,612		6,434,612
Replacement Sinking Fund Account			$20,474	20,474
Central Valley Water Project Construction Fund	16,548,055	58,791,730		75,339,785
Central Valley Wat r Project Revenue Fund		32,874		32,874
TOTAL	$80,700,053	$65,259,216	$20,474	$145,979,743

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

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

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

   (1) Operation, maintenance, power and replacement costs.

   (2) Principal and interest on general obligation bonds.

   (3) Repayments to the California Water Fund for advances (See Note 5).

   (4) Construction of additional facilities.

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

d. Central Valley Water Project Construction Fund: Federal contributions received as reimbursements for the costs allocated to flood control, state contributions received as reimbursements for the cost of recreation, and certain advance payments from contractors are deposited in this fund. Expenditures for construction and interest on the general obligation bonds are made in part from this fund.

e. Central Valley Water Project Revenue Fund: Property rental income accrued prior to the effective date of the Burns-Porter Act, November 8, 1960, was deposited in this fund.

4. Water Resources Development Bonds

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

As a result of bonds issued and California Water Fund expenditures, the status of bond authorizations as of December 31, 1967, is summarized below:

Funds	State Water Facilities	Davis-Grunsky Projects	Additional Facilities	Total
Bonds authorized	$1,620,000,000	$130,000,000		$1,750,000,000
Less:				
Bonds issued	946,031,937	-	$ 3,968,063	950,000,000
California Water Fund advances	147,897,573	27,014,951	-174,912,524	
Balance available	$ 526,070,490	$102,985,049	$170,944,461	$ 800,000,000

General obligation bonds outstanding as of December 31, 1967, with their net interest rates and maturity dates, are shown below:

Date of Issue	Series	Amount	Net Interest Rates	Maturity Dates
3/1/64	A	$100,000,000	3.520%	9/1/1973-2013
5/1/64	B	50,000,000	3.533%	5/1/1974-2014
11/1/64	C	100,000,000	3.585%	11/1/1974-2014
3/1/65	D	100,000,000	3.499%	3/1/1975-2015
12/1/65	E	100,000,000	3.717%	12/1/1975-2015
7/1/66	F	100,000,000	3.927%	7/1/1976-2016
12/1/66	G	100,000,000	4.110%	12/1/1976-2016
4/1/67	H	100,000,000	3.695%	4/1/1977-2017
8/1/67	J	100,000,000	4.093%	8/1/1977-2017
11/1/67	K	100,000,000	4.685%	11/1/1977-2017
7/68	L	100,—),—	4.77	
Total		$ 950,000,000	~~3.853%~~	
		1,050,000,000	3.94	

5. Advances from California Water Fund

Advances from the California Water Fund represent expenditures financed from this fund pursuant to the Burns-Porter Act appropriation, which excludes amounts covered by prior appropriations. Such advances will be repaid from the third priority of system revenues, as shown in Note 3. Repayments are not expected to begin until the latter part of the presently programmed construction period.

6. Grants in Aid of Construction

Grants in aid of construction consist of construction expenditures financed from the Investment Fund, California Water Fund, and General Fund from special appropriations made prior to the effective date of the Burns-Porter Act (November 8, 1960). These amounts are not required to be repaid to the fund from which they were appropriated. Administrative expenses and grants made to agencies under the Davis-Grunsky Local Project Assistance Program, which totaled $24,171,474 on December 31, 1967, are deducted in the financial statements from grants in aid of construction.

7. Construction Contract Commitments

The Department of Water Resources has entered into long-term construction contract commitments for the State Water Facilities. The uncompleted portion of these commitments was approximately $339,000,000 as of December 31, 1967.

8. Revenues

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

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

SCHEDULE A

STATE WATER RESOURCES DEVELOPMENT SYSTEM
CHANGES IN PROPERTY, PLANT AND EQUIPMENT
FOR THE CALENDAR YEAR ENDED DECEMBER 31, 1967

	BALANCE DECEMBER, 1966	ADDITIONS NET OF INCOME CREDITED TO CONSTRUCTION	DEDUCTIONS FOR RETIREMENTS AND SALES	BALANCE DECEMBER, 1967
Middle Fork Eel River Development	$ 2,485,712	$ 1,482,351	$ 0	$ 3,968,063
Upper Feather Area	11,981,377	1,395,594	520	13,376,451
Oroville Area	371,448,446	85,973,878	2,934	457,419,390
Delta Facilities	8,315,098	2,248,352	0	10,563,450
North Bay Aqueduct	1,031,407	2,242,150	561,820	2,711,737
South Bay Aqueduct	42,368,667	14,884,534	468,870	56,784,331
California Aqueduct:				
North San Joaquin Division	93,364,130	38,918,394	10	132,282,514
San Luis Division	145,976,226	21,624,967	0	167,601,193
South San Joaquin Division	59,216,280	30,566,415	0	89,782,695
Tehachapi Division	33,655,032	42,378,970	0	76,034,002
Mojave Division	17,692,221	10,517,141	7,547	28,201,815
Santa Ana Division	8,442,025	8,995,749	8	17,437,766
West Branch, California Aqueduct	28,606,670	61,363,341	10	89,970,001
Coastal Branch, California Aqueduct	4,014,511	6,681,960	0	10,696,471
San Joaquin Drainage Facilities	4,346,232	1,104,062	0	5,450,294
Other	1,536,408	2,230,571	0	3,766,979
Subtotal	$834,480,442	$332,608,429	$ 1,041,719	$1,166,047,152
Less: Allowance for Replacement	34,799	-14,325		20,474
Total	$834,445,643	$332,622,754	$ 1,041,719	$1,166,026,678

SCHEDULE B

STATE WATER RESOURCES DEVELOPMENT SYSTEM
COMPOSITION OF PROPERTY, PLANT AND EQUIPMENT
DECEMBER 31, 1967[a/]

PROJECT FACILITY	WATER CONSERVATION (INCLUDING OROVILLE POWER)	WATER TRANSPORTATION	RECREATION	FLOOD CONTROL	AGRICULTURAL WASTE WATER DISPOSAL	TOTAL THROUGH DECEMBER, 1967	PROJECTED FUTURE COSTS (BULLETIN 132-68)	TOTAL
Middle Fork Eel River Development	$ 3,895,276		$ 72,787			$ 3,968,063	$ 161,063,497	$ 165,031,560
Upper Feather Area	1,844,975	$ 10,524	11,520,952			13,376,451	14,382,631	27,759,082
Oroville Area	390,583,937	183,092	823,339	$65,829,022		457,419,390	35,278,373	492,697,763
Delta Facilities	7,200,542	3,362,908				10,563,450	98,936,550	109,500,000
North Bay Aqueduct		2,711,737				2,711,737	13,836,480	16,548,217
South Bay Aqueduct		39,721,626	12,232,945	4,829,760		56,784,331	10,668,225	67,452,556
California Aqueduct:								
North San Joaquin Division	21,770,987	104,742,015	5,769,512			132,282,514	34,827,832	167,110,346
San Luis Division	88,599,120	68,458,645	10,543,428			167,601,193	22,001,471	189,602,664
South San Joaquin Division		86,982,927	2,799,768			89,782,695	169,104,856	258,887,551
Tehachapi Division		73,757,661	2,276,341			76,034,002	196,800,469	272,834,471
Mojave Division		27,293,802	908,013			28,201,815	189,548,402	217,750,217
Santa Ana Division		15,687,429	1,750,337			17,437,766	187,866,801	205,304,567
West Branch, California Aqueduct		86,519,516	3,450,485			89,970,001	282,506,995	372,476,996
Coastal Branch, California Aqueduct		10,696,471				10,696,471	65,027,091	75,723,562
San Joaquin Drainage Facilities					$5,450,294	5,450,294	2,198,774	7,649,068
Other		3,766,979				3,766,979	-1,747,170	2,019,809
TOTAL	$513,894,837	$523,895,332	$52,147,907	$70,658,782	$5,450,294	$1,166,047,152	$1,482,301,277	$2,648,348,429

a/ See Note 2.

SCHEDULE C

STATE WATER RESOURCES DEVELOPMENT SYSTEM
STATEMENT OF ACTUAL AND PROJECTED NET REVENUES AND APPLICATION THEREOF
DECEMBER 31, 1967

(IN THOUSANDS OF DOLLARS)

	PRIOR YEARS THROUGH DECEMBER 31, 1966	CURRENT YEAR 1967	TOTAL THROUGH DECEMBER 31, 1967	PROJECTED FUTURE 1968-2032	TOTAL TO END OF PROJECT REPAYMENT PERIOD
REVENUES:					
Capital Cost Reimbursements	$ 2,927	$ 855	$ 3,782	$ 2,616,219	$ 2,620,001
Interest on Capital Costs	10,298	8,339	18,637	3,563,719	3,582,356
Operations and Maintenance:					
Water Contractor Payments	2,534	1,037	3,571	2,528,562	2,532,133
Federal Reimbursements	0	0	0	92,289	92,289
General Fund Reimbursements for Costs Allocated to Recreation	98	20	118	131,795	131,913
Oroville-Thermalito Power Revenues	0	0	0	1,044,585	1,044,585
Federal Flood Control Contributions	51,987	12,483	64,470	13,698	78,168
Legislative Appropriations for Costs Allocated to Recreation	0	5,000	5,000	86,108	91,108
Cooperative Power Development	0	0	0	41,492	41,492
Enlargement of California Aqueduct	1,201	4,462	5,663	52,637	58,300
Delivery Structures	763	177	940	15,355	16,295
Interest from Investments	17,454	5,214	22,668	20,504	43,172
Right-of-Way Rentals and Sales	3,682	1,865	5,547	588	6,135
Davis-Grunsky Loan Repayments	229	76	305	42,680	42,985
Other	84	144	228	- 2,628	- 2,400
Surplus Adjustments	0	253	253	-19,821	-19,568
Less, Income Credited to Capital Outlay	0	6,088	6,088	0	6,088
Total Revenues	$91,257	$33,837	$125,094	$10,227,782	$10,352,876
EXPENSES					
Operations and Maintenance	$ 2,597	$ 1,071	$ 3,668	$3,504,316	$3,507,984
Provisions for Replacement	35	- 15	20	59,376	59,396
Interest on Bonds:					
Water Bonds	36,701	30,056	66,757	2,736,018	2,802,775
Revenue Bonds (including deposits in bond reserve accounts)	0	0	0	731,595	731,595
Total Expenses	$39,333	$31,112	$ 70,445	$ 7,031,305	$ 7,101,750
NET REVENUES	$51,924	$ 2,725	$ 54,649	$ 3,196,477	$ 3,251,126
NET REVENUES USED OR AVAILABLE FOR:					
Construction of Project Facilities	$ 1,964	$ 4,638	$ 6,602	$ 141,843	$ 148,445
Bond Principal Payments:					
Water Bonds	0	0	0	1,925,024	1,925,024
Revenue Bonds	0	0	0	218,865	218,865
Repayment of California Water Fund	0	0	0	379,675	379,675
Amounts Available for Future Conservation Facilities	0	0	0	579,117	579,117
Reserve for Bond Interest	49,960	-1,913	48,047	-48,047	0
NET REVENUES	$51,924	$ 2,725	$ 54,649	$ 3,196,477	$ 3,251,126

APPENDIX B

DATA AND COMPUTATIONS USED IN DETERMINING WATER CHARGES FOR 1969

Introduction

Article 29(e) of the "Standard Provisions for Water Supply Contract" describes those statements of charges to be furnished by the State on or before July 1 of each year. Article 29(e) includes the provision that:

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

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

This appendix constitutes such a redetermination for the substantiation of water charges to be paid by contractors during calendar year 1969.

Character of Water Charges

The State Water Project encompasses a number of component facilities. Most of these facilities are either necessary for the conservation and development of a project water supply in and above the Sacramento-San Joaquin Delta or for the conveyance of such a supply to project service areas throughout the State. The Standard Provisions classify these facilities as "project conservation facilities" and "project transportation facilities", respectively. Facilities included under the two classifications are as follows:

Project conservation facilities	Project transportation facilities
Frenchman Dam and Lake.	Grizzly Valley Pipeline.
Grizzly Valley Dam and Lake Davis.	North Bay Aqueduct
Oroville Dam and Lake Oroville.	South Bay Aqueduct, including Del Valle Dam and Lake Del Valle.
Oroville-Thermalito Power facilities.	California Aqueduct, consisting of the remaining portion of the works between the Delta and Dos Amigos Pumping Plant and all works southerly thereof -- including the reservoirs formed by Perris, Cedar Springs, Pyramid, and Castaic Dams.
Delta Facilities.	
Middle Fork Eel River Development.	
California Aqueduct, including all of San Luis Dam, Reservoir, and Pumping-Generating Plant, and a portion of the works between the Delta and Dos Amigos Pumping Plant.	

There are two basic annual charges for project water pursuant to the Standard Provisions -- the Delta Water Charge, to be paid by all contractors, and the Transportation Charge, to be paid by certain contractors.

The Delta Water Charge is essentially a unit commodity assessment on each acre-foot of project water the respective contractors are entitled to receive under their contracts. The unit charge is calculated so that if applied to each acre-foot of all such entitlements for the remainder of the project repayment period, all outstanding reimbursable costs of the project conservation facilities will be returned to the State, with appropriate interest, by the end of the period. Such reimbursable costs include those allocated to the project purposes of water supply and hydroelectric power generation. The outstanding portion of such costs includes those in excess of actual and projected revenues from the sale of hydroelectric power generated in connection with the project conservation facilities (i.e., Oroville-Thermalito power) and actual payments of the Delta Water Charge.

The continuing implementation of conservation facilities to meet demands for supplemental water under an expanding State Water Resources Development System is reflected in the structure of the Delta Water Charge. Article 22(g) of the Standard Provisions requires that the Delta Water Charge will be adjusted, as necessary, to reimburse the costs of those supplemental conservation facilities constructed in the future for purposes of supplying water in addition to the "minimum project yield" and to meet local needs. Article 22(g) further provides that the redetermined Charge will be paid by both contractors for "supplemental water" and contractors supplied by the present "minimum project yield". Thus, a unique characteristic of the Delta Water Charge is this "open-ended" structure. This redetermination only considers those contracts to project water under the present "minimum project yield" and does not include the costs or entitlements under the potential service of "supplemental water".

On the other hand, the Transportation Charge is essentially an assessment for that use of the project transportation facilities required to deliver water provided within the "minimum project yield" from points in and above the Sacramento-San Joaquin Delta to the vicinity of the respective contractors' service areas. Generally, the annual charge represents each contractor's proportionate share of the reimbursable costs for constructing, operating, and maintaining component reaches of the project transportation facilities. Certain variations are allowed in the method of amortizing, with interest, the respective contractors' shares of reimbursable capital costs. However, the respective contractors' share of reimbursable costs for operating and maintaining the project transportation facilities are paid essentially in the manner such costs are incurred by the State.

Composition of Water Charges

Both the Delta Water Charge and the Transportation Charge consist of three components:

1. A capital cost component, that will return to the State all reimbursable capital costs of the appropriate facilities;

2. A minimum operation, maintenance, power, and replacement component, that will return to the State all reimbursable operating costs of the appropriate facilities that are incurred irrespective of the amount of water quantities actually delivered to the contractors; and

3. A variable operation, maintenance, power, and replacement component, that will return to the State all reimbursable operating costs of the appropriate facilities that are incurred in amounts dependent upon, and varying with, water quantities actually delivered to the contractors.

The time and method of payment is common for corresponding components of the annual Delta Water Charge and Transportation Charge:

1. The capital cost component is paid in two semi-annual installments, due January 1 and July 1 of each year, on the basis of statements furnished on or before July 1 of the preceding year.

2. The minimum operation, maintenance, power, and replacement component is paid in 12 equal installments, due the first of each month, also on the basis of statements furnished on or before July 1 of the preceding year.

3. The variable operation, maintenance, power, and replacement component is paid in varying monthly amounts, due the 15th of the second month following actual water delivery, on the basis of a rate established on or before July 1 of the preceding year and applied to actual monthly delivery quantities as determined by the State on or before the 15th of the month following actual delivery.

However, the methods for determining the amounts due vary between the corresponding components of the two Charges and are described in subsequent sections of this appendix.

Other Charges Associated with Project Water Service

There are several charges associated with project water service other than the basic annual Delta Water Charge and Transportation Charge. These miscellaneous charges are applicable to certain contractors and include:

1. The advance of funds for the additional capital costs incurred by the State for the construction of excess capacity in the project transportation facilities at the request of certain contractors, pursuant to Article 12(b) of the Standard Provisions.

2. The advance of funds for those delivery structures constructed by the State for certain contractors, pursuant to Article 10(d) of the Standard Provisions.

3. The advance payment of a portion of the capital cost component of the Transportation Charge by The Metropolitan Water District of Southern California that would be required under the execution of proposed Amendment 7 -- to compensate for elimination thereby of advance payments for excess capacity previously included in the West Branch.

4. The payments of the surcharge on that project water applied to "excess" lands, pursuant to Article 30(d) of the Standard Provisions.

5. The payments for the sale and service of surplus project water under contracts executed pursuant to Article 21 of the Standard Provisions and under the so-called "Agricultural and Ground Water Replenishment" provisions of the contracts.

Scope of the Redetermination

The scope of the redetermination summarized herein is limited to the annual Delta Water Charges and Transportation Charges for each contractor and for each year of the project repayment period -- based upon all aspects of the State Water Project as known on April 1, 1968.

Such redetermined components of the Transportation Charge that are applicable to prior years through 1968 do not equal those amounts actually paid by contractors under statements previously furnished by the State. The amounts of overpayment or underpayment indicated by the differences in the redetermined amounts as compared with those under statements previously furnished are accumulated, with appropriate

interest credits or accruals, and are deducted from, or added to, the respective components of the Transportation Charge for 1969 as indicated in this redetermination. These adjustment computations are shown in the attachments accompanying the statement of charges furnished to each respective contractor and are reflected in the revised copies of Tables C through G of the contract, furnished therewith.

In accordance with Article 22(b) of the Standard Provisions, the unit Delta Water Charge is established as $3.50 per acre-foot of entitlement through December 31, 1969, without regard to components thereof. Therefore, a document amendatory to Article 22 is not required until July 1, 1969, -- except that the unit variable operation, maintenance, power, and replacement component of the Charge must be determined, currently, for purposes of the sale and service of surplus project water. Therefore, this redetermination includes a projection of the Delta Water Charge for the entire project repayment period so as to provide a complete evaluation of the two basic water charges under all long-term contracts.

The scope of the redetermination summarized herein does not generally extend to those charges associated with project water service other than the Delta Water Charge and the Transportation Charge.

Information is presented herein concerning the required advances in funds by the concerned contractors for requested excess capacity, since such charges are included in the statements furnished by the State on or before July 1, 1968. However, any estimate of residual credits resulting from such advances have <u>not</u> been applied to the capital cost component of the Transportation Charge summarized herein.

Partial information is included herein concerning the actual and projected capital costs of those contractor delivery structures constructed by the State. Statements concerning these costs and data in support of such statements, are furnished to the appropriate contractors at varying times and are not a part of the basic statement furnished on or before July 1 of each year.

Article 30(b) of the Standard Provisions establishes the unit power credit as $2 per acre-foot until all of the facilities for generation of electrical energy in connection with operation of initial project conservation facilities are installed and in operation. The Oroville-Thermalito power facilities are scheduled to be in operation by April 1, 1969. Thus, the surcharge applicable during 1968 will be $2 per acre-foot on that project water applied to agricultural and

manufacturing purposes on "excess lands". In accordance with Article 30(d), payments of the surcharge on water so applied during 1968 shall be forwarded to the Department on or before March 1, 1969, by San Joaquin Valley contractors and by July 1, 1969, by all others. The Department will distribute forms and suggested procedures during the summer of 1968 for the contractors' administration of these provisions -- and of the so-called surcharge credit provisions. Under the latter provisions, most, if not all, of the surcharge payments will be credited to the contractors' accounts in the year following the year in which payments are made.

Information is not included in this redetermination concerning the future sale and service of surplus project water. The Department is currently striving to realign the surplus water program by September 1, 1968, as described on pages 74 through 76. However, the information summarized in this redetermination establishes the basic costs for the service of entitlements to project water -- costs that cannot be increased due to the service of surplus project water.

Organization of the Redetermination

The computational procedure and the relationship of narrative descriptions and tabular material of this redetermination are outlined in Figure B-1. This redetermination concludes with an evaluation of equivalent unit costs of entitlements to project water, under both the Delta Water Charge and the Transportation Charge, for each contractor.

Bases for Allocating Reimbursable Transportation Costs Among Contractors

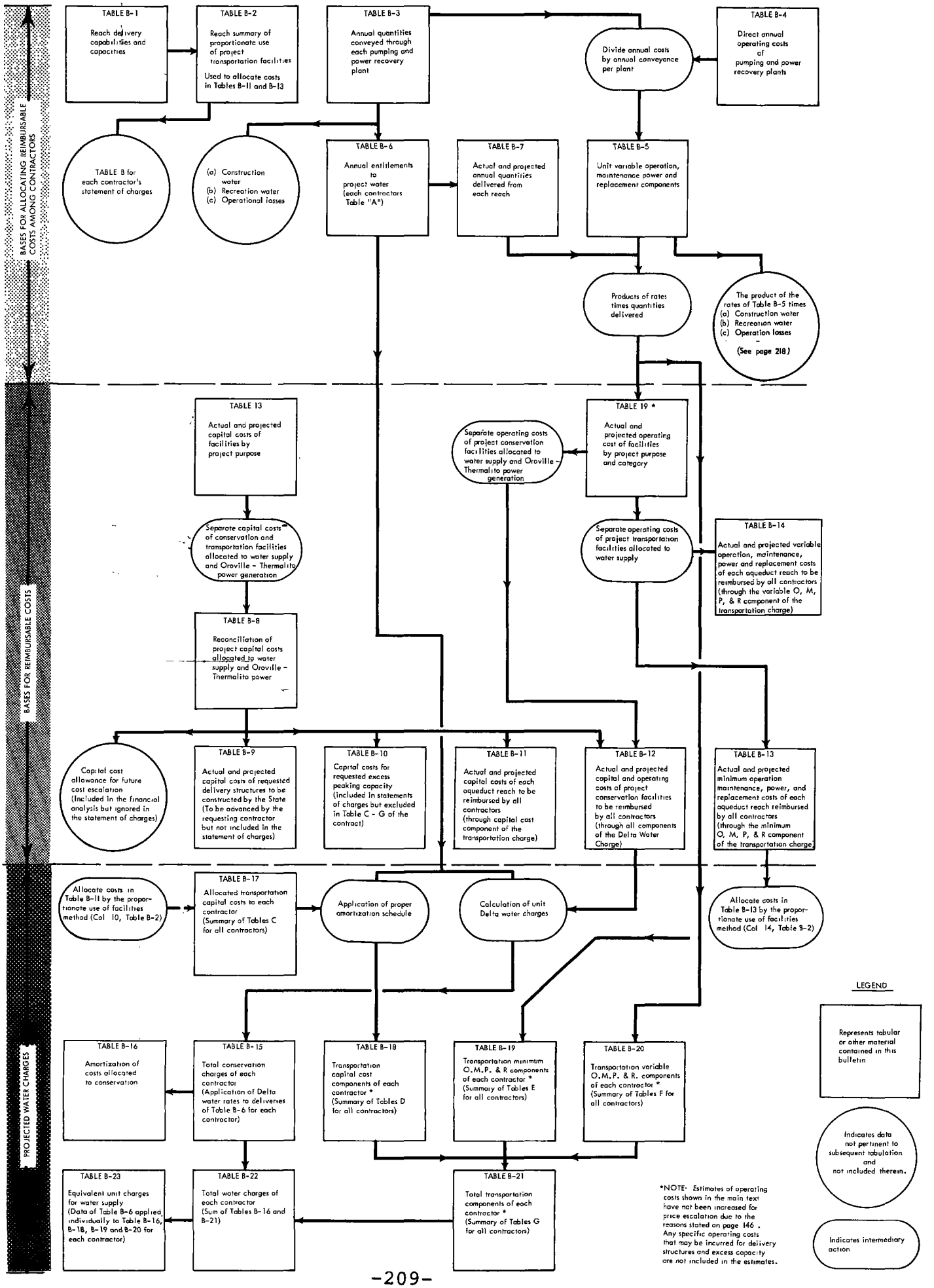
Reimbursable costs of the project conservation facilities are not allocated among contractors, in view of the basic character of the Delta Water Charge. Therefore, this section pertains only to the allocation of the reimbursable costs of aqueduct reaches of the project transportation facilities among contractors for purposes of the Transportation Charge.

The allocation of the reimbursable costs of aqueduct reaches among contractors is based upon two general procedures involving proportionate use:

1. The proportionate maximum annual use of each reach by the respective contractors under planned conditions of full project development for the allocation of capital and minimum operating costs of each reach.

SCHEMATIC RELATIONSHIPS OF DATA SUBSTANTIATING STATEMENTS OF CHARGES

Figure B-1



2. The proportionate actual annual use of each aqueduct reach by the respective contractors for the allocation of variable operating costs of each reach.

Planned Maximum Annual Use of Aqueduct Reaches

The general method for the allocation of reimbursable capital and minimum operating costs among contractors is set forth in the following provision of Article 24(b) of the Standard Provisions:

> ". . . The measure of the proportionate use of each contractor of each reach shall be the average of the following two ratios: (i) the ratio of the contractor's maximum annual entitlement to be delivered from or through the reach to the total of the maximum annual entitlements of all contractors to be delivered from or through the reach; and (ii) the ratio of the capacity provided in the reach for the transport and delivery of project water to the contractor to the total capacity provided in the reach for the transport and delivery of project water to all contractors served from or through the reach...."

Table B-1 presents a summary of the current designation of all aqueduct reaches, the maximum annual entitlements to be delivered to each contractor from each reach, and the total capacity provided in each reach for the delivery of water to all contractors served thereby. Also shown for each reach is the additional capacity provided for recreation water and the total required design capacity.

Aqueduct Reaches. The current designation of aqueduct reaches differs to a varying extent from that shown in Article 23 or Table I of the respective contracts. These differences reflect modifications required under subsequently executed contracts and changes in the locations of major delivery structures requested pursuant to Article 10(a) of the Standard Provisions. Furthermore, reach nomenclature has been revised in certain instances to describe reach termini more accurately and to reflect route modifications.

Listed on page 211 are changes in designation for California Aqueduct reaches from those shown in last year's bulletin (exclusive of certain name changes necessitated by the nomenclature established by the California Water Commission*237/*):

237/ See pp. 26 and 27.

Former designation		Current designation	
No.	Description	No.	Description
8A	Kettleman City to State Route 41	8C	Kettleman City to Milham Avenue 238/
8B	State Route 41 to Avenal Gap	8D	Milham Avenue to Avenal Gap
17C	Tehachapi Pumping Plant to Beartrap Access Structure	17E	A. D. Edmonston Pumping Plant to Carley V. Porter Tunnel 239/
17D	Beartrap Access Structure to Junction, West Branch	17F	Carley V. Porter Tunnel to Junction, West Branch
28D	Devil Canyon Powerplant to Warm Creek	28G	Devil Canyon Powerplant to Barton Road 240/
28E	Warm Creek to Perris Reservoir	28H	Barton Road to Lake Perris
28F	Perris Dam and Reservoir	28J	Perris Dam and Lake Perris

In addition, an aqueduct reach has been included for Buttes Dam and Reservoir (Reach No. 19C of the California Aqueduct).241/

Maximum Deliveries from Each Reach. The maximum annual entitlement to be delivered to each contractor and the buildup in annual entitlements to the maximum are established in Table "A" of each contract. However, the portions of each contractor's maximum annual entitlement to be delivered from each aqueduct reach are not contractually specified. The maximum annual amounts to be delivered from each reach, as shown in Table B-1, are based upon those requests by the concerned water contractors that have been approved by the Department.

238/ *Letter from W. R. Gianelli to Mr. Louis T. Robinson, President, Tulare Lake Basin Water Storage District, September 19, 1967.*

239/ *Department of Water Resources memorandum from John R. Eaton to Mr. Carl L. Stetson, "Request for Change in Description of Reach 17C of the California Aqueduct", February 6, 1967.*

240/ *Letter from James J. Doody to Mr. Jack A. Beaver, General Manager, San Bernardino Valley Municipal Water District, July 19, 1967.*

241/ *See p. 40.*

As an example of such requests, this redetermination reflects a change in delivery points for the maximum annual entitlement of the San Bernardino Valley Municipal Water District. Under this change, 84,300 acre-feet and 13,700 acre-feet will be delivered from Devil Canyon Powerplant (Reach 26A) and from Barton Road (Reach 28G), respectively.242/ Previous analyses considered that all of the District's maximum annual entitlement of 98,000 acre-feet would be delivered from Reach 26A.

Table B-1 also summarizes the maximum monthly delivery for each contractor, expressed as a percentage of the respective annual entitlements. These percentages are set forth in Article 12(b) of the Standard Provisions and/or in the special provisions of each contract.

Total Capacity Provided for Water Supply. The reach conveyance capacity provided for the delivery of water to each contractor does not necessarily correspond with maximum monthly delivery capabilities provided for by the respective contracts. Pursuant to Article 17(b) of the Standard Provisions, regulatory storage reservoirs included in the project transportation facilities may be utilized in conjunction with conveyance capacity of the Aqueduct for the delivery of maximum monthly amounts.

Under the planned mode of aqueduct operation, annual entitlements destined for delivery to the respective contractors will be conveyed:

1. At varying rates of flow corresponding to the monthly demands for project water for those contractors located within the North Bay area and the San Joaquin Valley;

2. At uniform rates of flow, regulated to monthly demands in storage capacity located within the respective service areas, for those contractors located within the South Bay, Central Coastal, and Southern California areas (other than those to be served by Silverwood Lake storage); and

3. Partially at uniform flows, regulated to monthly demands in Silverwood Lake and partially at varying rates of flow corresponding to the monthly demands for project water, for those contractors located in the Southern California area to be served by Silverwood Lake.

242/ *Letter from Jack A. Beaver to Mr. James J. Doody, May 19, 1967.*

In addition, the total capacity provided in aqueduct reaches for the delivery of water to the contractors includes that required to compensate for:

1. Evaporation and seepage losses from each respective reach, and from all reaches downaqueduct therefrom;

2. Scheduled and unscheduled outages of the aqueduct system; and

3. The location of regulation reservoirs downaqueduct from certain contractors whose deliveries are regulated thereby (termed "compensating regulation capacity").

Furthermore, certain contractors have requested "excess capacity" in specified aqueduct reaches pursuant to a procedure contained in Article 12(b) of the Standard Provisions -- subject to the advance of funds for the additional costs incurred by the State for providing such capacity in accordance with Article 24(d).

The changes in capacities provided for contractors in this redetermination as compared with last year's analysis include the following:

1. The Coachella Valley County Water District and the Desert Water Agency requested, and were granted, reductions in compensating regulation capacity associated with service of their respective entitlements in Reach 23A, "Antelope Siphon to Silverwood Lake". The reductions in such capacity amounted to about 33 and 55 cubic feet per second for the two contractors, respectively. The reductions were permitted by the increases in conveyance capacity provided for the two contractors in reaches from the Delta to Antelope Siphon due to the reduction in Silverwood Lake storage, noted in last year's bulletin. The reduced capacity is sufficient to convey the water quantities to be regulated in Silverwood Lake during the offpeak months for these contractors.243/

243/ *Letter from James J. Doody to Mr. Henry J. Mills, General Manager, The Metropolitan Water District of Southern California, August 15, 1967 (same letter sent to all other contractors served from Silverwood Lake).*

2. The San Gabriel Valley Municipal Water District purchased 21 cubic feet per second of "excess capacity" in Reach 25, "Silverwood Lake to South Portal, San Bernardino Tunnel", pursuant to Amendment 3 of its contract.

3. The Antelope Valley-East Kern Water Agency purchased 19 cubic feet per second of "excess capacity" in reaches from the junction of the West Branch to the Peace Valley Pipeline, pursuant to Amendment 4 of its contract.

4. The capacities formerly associated with a "future contractor, Southern California" were identified with the San Bernardino Valley Muncipal Water District.[244]

5. The capacities required for the conveyance of water evaporation and seepage losses in the California Aqueduct were revised.

Proportionate Use of Capacity by Water Supply Contractors. The capacity included in each reach for the delivery of water to each contractor is shown in Table B-2, together with the associated maximum annual quantities. The allocation of capacities and quantities summarized therein is based upon the procedures contained in Settlement Letter No. 3.[245] The maximum use of aqueduct reaches for distributing capital costs among contractors is shown in Column 8, and for distributing minimum operating power, and replacement costs, in Column 12. The capacities summarized in Column 12 of Table B-2 include requested "excess capacity" while those summarized in Column 8 do not.

Pursuant to Article 24(d) of the Standard Provisions, the capital costs borne by a contractor for requested excess capacity will be the additional capital costs of the aqueduct reaches caused by including such capacity, commonly referred to as the "incremental costs". Therefore, the inclusion of requested excess capacity does not affect the allocation of capital costs among water supply contractors.

However, pursuant to the contract amendments specifically providing for requested excess capacity, all of the minimum operating costs of aqueduct reaches containing such capacity will be allocated among contractors based upon total reach capacities, including such excess capacity.

244/ *See p. 71.*

245/ *Letters from W. R. Gianelli to the responsible officer of each contracting agency, "Proportionate Use Cost Allocations Pursuant to Water Supply Contract Article 24(b)", May 9, 1967.*

One of the procedures covered in Settlement Letter No. 3 concerns the dual storage-conveyance use of reservoirs included in the project transportation facilities. Pursuant to that procedure, the proportionate use of reservoir storage shall be based solely upon capacities provided therein for the delivery of water to each contractor. There are situations where reservoirs will form a portion of the main line of aqueduct conveyance. In these situations, the use of the reservoir for those entitlements conveyed from or through the reservoir reach shall be taken as a proportionate share (based on conveyance capacities) of the estimated costs of the least expensive alternative means of conveying water through the terrain to be occupied by the reservoir. Under this allocation procedure, the total of the reimbursable costs of the storage capacity and the estimated costs of the hypothetical substitute means shall be proportionately reduced to equal the reimbursable costs of the storage capacity. In other words, the estimated savings to be realized from construction of a joint storage-conveyance facility would be proportionately distributed between the costs of the two functions.

Pyramid, Castaic, and Silverwood Lakes will form a portion of the main line of California Aqueduct conveyance. Comparable preliminary estimates of the capital costs of these reservoirs, and of the alternative means for conveying water through the terrain to be occupied by the reservoirs (pipelines, in all three cases), are shown in the tabulation on the following page. That tabulation also derives a prelimimary determination of ratios that can be applied to the estimated reimbursable costs of the respective reservoirs to separate the costs of the storage and conveyance functions. These ratios, in turn, are applied to the factors developed for the applicable contractors for the proportionate use of the capacity of the respective reservoirs and of the alternative conveyance means.

Additional Capacity Included in Aqueduct Reaches. There are relatively minor amounts of capacity included in reaches over and above that provided for the delivery of water to contractors. Such additional capacity includes that required for conveyance of water consumed in those recreation developments associated with the Project and that included in certain reaches due to practical design considerations. This additional capacity is not associated with the water service for the respective contractors and is not included in the calculation of proportionate use factors.

Facility	Pyramid	Castaic	Silverwood
	(in thousands of dollars)		
Dam and reservoir:			
Construction costs	31,411	103,517	36,868
Present worth of construction costs[a]	29,081	103,577	35,508
Alternative pipeline:			
Construction costs	9,140	16,389	5,896
Present worth of construction costs[a]	7,783	15,123	5,226
Portion (ratio) of actual reimbursable costs of the dam and reservoir for:			
Use of reservoir for storage	$\frac{29,081}{29,081 + 7,783} = 0.78887261$	$\frac{103,577}{103,577 + 15,123} = 0.87259478$	$\frac{35,508}{35,508 + 5,226} = 0.87170423$
Use of reservoir for conveyance	$\frac{7,783}{29,081 + 7,783} = 0.21112739$	$\frac{15,123}{103,577 + 15,123} = 0.12740522$	$\frac{5,226}{35,508 + 5,226} = 0.12829577$
Total use	1.00000000	1.00000000	1.00000000

[a] *Present worths in 1968 at 4.1 percent interest. Note that in the final determination of the ratios, present worths of both capital and operating costs would be used.*

The following reach capacities have been provided for the conveyance of water for recreation and fish and wildlife enhancement developments associated with the California Aqueduct:

	(cubic feet per second)
Delta to Tupman Road	74
Tupman Road to Buena Vista Pumping Plant	45
Buena Vista Pumping Plant to Junction, West Branch	28
Junction, West Branch to Pearblossom Pumping plant	21
Pearblossom Pumping plant to Silverwood Lake	15
Silverwood Lake to Lake Perris	8
Junction, West Branch to Castaic Lake	7

The total capacities of California Aqueduct reaches from Kettleman City to the West Branch Junction have been increased generally above the required capacity to the nearest

multiple of 50 cubic feet per second. This additional allowance recognizes the practical limitations in estimating coefficients and efficiencies involved in hydraulic design.

Basis for Variable Annual Use of Facilities

Under the Department's procedures, the actual annual water quantities conveyed through each aqueduct reach that includes a pumping or power recovery plant form the basis for the allocation of direct, variable operating costs or credits of such plants among the following functions:

1. The conveyance of water quantities to raise water surfaces in aqueduct reaches and project reservoirs to operational levels. (The costs or credits allocated to this function are included in the capital costs of the reach or reservoir so filled.)

2. The conveyance of water quantities consumed in project-associated recreation developments. (These costs or credits are included in those allocated to recreation and are nonreimbursable by the contractors.)

3. The conveyance of water quantities lost through evaporation and seepage in the reach and in all reaches down-aqueduct therefrom. (The costs or credits allocated to this function are included in the minimum operating costs of the reach that includes the plant.)

4. The conveyance of water quantities actually made available at contractor delivery structures down-aqueduct from the plant. (The costs or credits allocated to this function constitute the variable operating costs to be reimbursed by the contractors for the reach that includes the plant.)

In addition, the variable operating costs or credits of (4) above are distributed among water contractors based upon the annual quantities so conveyed through the plant and delivered to each respective contractor.

The estimated quantities conveyed and to be conveyed, through each pumping and power recovery plant for each year of the project repayment period are shown in Table B-3 for each of the four functions listed above.

The actual and projected annual direct operating costs and credits for each pumping and power recovery plant are

summarized in Table B-4 for purposes of such annual allocations. Under the Department's procedures, these direct costs include those for power and energy consumed in, or credits for the recovery power generated by, each plant, but exclude those costs for the salaries of plant operations and maintenance personnel. Present procedures consider that the costs of salaries and wages of field personnel are not incurred in amounts that vary with actual quantities of water deliveries and are, therefore, properly included in the minimum operating costs of aqueduct reaches.

Table B-5 presents a summary of the actual and projected direct operating costs for each acre-foot of conveyance through each plant for purposes of such annual allocations for each year of the project repayment period. The data in Table B-5 has been derived by dividing the data shown in Table B-4 by that shown in Table B-3. Table B-5 shows the cumulative unit costs or credits from the Delta through the particular plant listed in the table headings. These cumulative unit costs constitute the actual and projected unit variable operation, maintenance, power, and replacement component for deliveries through the various plants in accordance with Article 26 of the Standard Provisions.

Annual Reach Deliveries for Each Water Supply Contractor. Table B-6 presents a summary schedule of annual entitlements as set forth in Table A of each respective contract, in accordance with the years of initial water delivery as set forth in Article 6(a) of such contracts as modified in certain instances through written notifications by the State. Table B-7 presents a corresponding summary of the actual and projected quantities delivered or to be delivered from each aqueduct reach to each contractor. (These amounts correspond with those included under the heading of "Water supply deliveries" in Table B-3.) The products of the appropriate quantities of Table B-7 multiplied by the unit costs of Table B-5 represent the total variable operating costs to be reimbursed by each contractor.

Several differences between Tables B-6 and B-7 should be noted.

All quantities shown in Tables A of the South Bay contracts and summarized in Table B-6 do not constitute entitlements to project water. Deliveries to the South Bay agencies through most of 1967 have been from a water supply purchased from the Bureau of Reclamation's Delta-Mendota Canal. Table B-7 shows the actual amounts of such water that have been delivered.

Deliveries to be made to the Napa County Flood Control and Water Conservation District prior to completion of Phase II of the North Bay Aqueduct construction also do not constitute entitlements to project water, but these quantities are not included in Table A of the District's contract. However, Table B-7 includes all quantities estimated to be delivered to the District through the project transportation facilities since the variable operation, maintenance, power, and replacement component of the Transportation Charge must be paid for such use of project facilities.

Bases for Reimbursable Costs

Tables 13 and 19, described in Chapter V, present summaries of the capital and annual operating costs of all facilities of the State Water Project, and the allocation of these costs to the various project purposes. This redetermination is concerned only with those costs of project conservation facilities allocated to water supply and Oroville-Thermalito power generation and those costs of project transportation facilities allocated to water supply.

Capital Costs

Not all of the capital costs shown allocable to water supply and Oroville-Thermalito power generation in Table 13 are to be returned to the State by the contractors through payments of the Delta Water and Transportation Charges and through Oroville-Thermalito power sales. Certain of these costs are reimbursed through other revenues to be received by the State. Furthermore, for the reasons stated on page 146, the Department excludes allowances for future price escalation for purposes of the annual redetermination of water charges. Of the $2,427,696,000 shown allocable to water supply and Oroville-Thermalito power generation in Table 13, only about $2,236,897,000 would be returned to the State under payments of the Delta Water and Transportation Charges and Oroville-Thermalito power sales on the basis of current prices. These two cost estimates are generally reconciled in the following tabulation:

Item of capital cost	Project conservation facilities	Project transportation facilities	Total
	(in thousands of dollars)		
Total cost, as shown on Table 13	780,223	1,647,473	2,427,696
less:			
Total allowance for future price escalation	22,238	81,192	103,430
Miscellaneous income credited to construction	2,893	42,507	45,400
Costs of delivery structures constructed by the State (current prices)	183	15,658	15,841
Costs of requested excess capacity (current prices)	0	26,128	26,128
Subtotal	25,314	165,485	190,799
remainder, Total capital costs to be reimbursed through payments of Delta Water and Transportation Charges and through Oroville-Thermalito power sales	754,909	1,481,988	2,236,897

Table B-8 presents a more detailed reconciliation of the estimated total capital costs of each project conservation facility and each aqueduct reach of the project transportation facilities -- for purposes of the current financial analysis, as summarized in Table 13, and for purposes of the redetermination of annual water charges, as described herein.

Miscellaneous income received to date, while a part of those available "miscellaneous receipts" for purposes of project financing, has been deducted from the capital costs of the respective facilities for purposes of charge redeterminations in accordance with the Department's accounting procedures. The costs for delivery structures and for requested excess capacity, while not accounted for in the two basic annual Charges, are to be covered by the advance of funds by the concerned contractors and deserve special consideration herein.

Costs of Delivery Structures. Costs of delivery structures constructed by the State are project costs that are separated from those of associated project conservation or transportation facilities and billed directly to each concerned contractor. The Department has established the following general procedures concerning the time and method of payment for the capital costs of delivery structures constructed by the State:

1. The State estimates the cost of the turnout structure at least one year prior to the date the invoice is furnished to assist the contractor in budgeting funds. This estimate is based upon information provided by the contractor.

2. The actual invoice is furnished to the contractor at least 60 days prior to the initiation of construction of the structure. The invoice is based upon reestimated costs reflecting the actual plans and specifications for the structure.

3. The estimated cost of construction of the structure must be deposited with the State prior to the initiation of construction.

4. The invoice is adjusted when the final costs of the structure are determined after completion of construction.

Estimated capital costs of all requested delivery structures to be constructed by the State are tabulated for each reach and each contractor in Table B-9. The costs shown thereon are incomplete in many respects and are not to be construed as those preliminary estimates or invoices to be furnished by the State as outlined above. Table B-9 is included herein primarily to present a complete picture of project costs associated with water supply.

Costs of Requested Excess Capacity. Thus far, three contractors have requested excess capacity in the project transportation facilities, by means of contract amendments.

The following additional costs are estimated to eventually be incurred for excess capacity:

1.	By reason of requests by The Metropolitan Water District of Southern California:	
	a. In the reaches from Kettleman City to Junction, West Branch of the California Aqueduct in the amount of 238 cubic feet per second, pursuant to Amendment 2. (This redetermination assumes proposed Amendment 7 to be effective, thereby reducing such excess capacity to 188 cubic feet per second.)	$ 10,551,000
	b. In reaches of the West Branch of the California Aqueduct in the amount of 809 cubic feet per second, pursuant to Amendment 2. (This redetermination assumes proposed Amendment 7 to be effective, whereby such capacity would be reclassified as basic capacity of the project transportation facilities. This aspect of Amendment 7 would require prepayment of a portion of the District's capital cost component -- considered to be $15,000,000 in 1971 for purposes of the current financial analysis.)	$ 0
	c. Provision for future enlargement of Lake Perris, pursuant to Amendments 4 and 5.	$ 10,087,974
	d. In the reach from Silverwood Lake to the South Portal of the San Bernardino Tunnel in the amount of 787 cubic feet per second, pursuant to Amendment 6. . .	$ 5,357,055
	Subtotal, The Metropolitan Water District of Southern California	$ 25,996,029
2.	By reason of a request by the San Gabriel Valley Municipal Water District for 21 cubic feet per second capacity in the reach from Silverwood Lake to the South Portal of the San Bernardino Tunnel, pursuant to Amendment 3.	$ 142,945
3.	By reason of a request by the Antelope Valley-East Kern Water Agency for 19 cubic feet per second in the reaches of the West Branch from the Junction to the Peace Valley Pipeline, pursuant to Amendment 4. . .	$ 109,000
	TOTAL, ALL CONTRACTORS	$ 26,247,974

The estimated additional costs to be incurred by the State each year and the required annual advances of funds for such requested excess capacity are tabulated in Table B-10.

Provision for the enlargement of Lake Perris will affect the reimbursable costs of the reaches between the Devil Canyon Powerplant and Lake Perris -- however, the conveyance capacity of these reaches will not necessarily be increased thereby. Amendment 5 of the contract with The Metropolitan Water District of Southern California specifically provides that all such cost increases shall be allocated to the District, and shall be returned to the State through payments of the Transportation Charge. In this redetermination, the estimated additional costs that would be borne solely by the District due to this consideration for the aqueduct reach from Devil Canyon Powerplant to Barton Road would be as follows (all reimbursable costs from Barton Road to Lake Perris would be borne by the District in any event):

1969	$1,868,000
1970	2,095,000
1971	176,000
TOTAL	$4,139,000

Capital Costs of Aqueduct Reaches to be Returned Through Payments Under the Transportation Charge. Table B-11 presents the actual and projected annual capital costs of each aqueduct reach of the project transportation facilities that will eventually be returned to the State, with interest, under payments of the capital cost component of the Transportation Charge.

Capital (and Operating) Costs of Project Conservation Facilities to be Returned Through Payments Under the Delta Water Charge and the Power Sale Contract. The actual and projected capital and operating costs of each project conservation facility to be returned to the State under payments under the Delta Water Charge and the Oroville-Thermalito power sales are summarized in Table B-12. The operating costs included in that tabulation are those for project conservation facilities shown allocable to water supply and Oroville-Thermalito power in Table 19. The character of operating costs shown in Table 19 are more fully described in the following section.

Annual Operating Costs

For the reasons stated on page 142, allowances for future price escalation are not included in the projected annual operating costs of project facilities summarized in Table 19. Further, the values shown in that tabulation exclude operating costs of those contractor delivery structures to be constructed by the State and any specific power capacity charges that may be incurred by reason of requested excess capacity. The allocation of normal operating costs incurred for those reaches that include excess capacity is reflected in the allocation factors shown in Column 14 of Table B-2. Therefore, all of the estimated operating costs shown in Table 19 to be allocable to the purposes of water supply and Oroville-Thermalito power generation would be returned to the State through payments of the minimum and variable operation, maintenance, power, and replacement components of the Delta Water and Transportation Charges and through a portion of the Oroville-Thermalito power sales.

The costs shown in Table B-19 include those annual portions of direct operating costs of pumping and power recovery plants allocable to minimum and variable operating costs as described on page 217. The actual and projected costs to be returned through the minimum and variable operation, maintenance, power, and replacement components of the Transportation Charge are shown in Tables B-13 and B-14, respectively.

Projected Water Charges

This section summarizes the redetermination of past and projected components of the Transportation Charge for purposes of the annual revision of Tables C through G of each water supply contract. This section also includes a derivation of future Delta Water Charges to present a complete picture of the two basic annual charges for project water during the entire project repayment period. The equivalent unit costs of such project water service are also summarized herein for each contractor.

The applicable rate of interest for calculating the Delta Water Charge and the Transportation Charge is the "project interest rate". In accordance with the procedure established in Settlement Letter 2,[246/] the project interest rate was 3.853 percent per annum as of April 1, 1968.[247/]

246/ *Letters from William E. Warne to the responsible officer of each contracting agency, "Interest Calculations for Water Supply Contracts", December 6, 1966.*

247/ *See p. 131.*

The "project repayment period" for purposes of this redetermination extends through 2035, fifty years after the year in which construction of all facilities of the State Water Project is currently scheduled to be completed.[248]/

Delta Water Charges

After December 31, 1969, the computation of the unit Delta Water Charge will be determined by the State in accordance with a formula specified in Article 22(c) of the Standard Provisions. For purposes of this redetermination (that is, limited to entitlements under the present "minimum project yield" and the project conservation facilities required to support that yield), the formula of Article 22(c) may be paraphrased so as to be applicable for any current year of the project repayment period as follows:

1. The present worths, at the project interest rate, of all costs of project conservation facilities allocated to water supply and Oroville-Thermalito power generation that have been incurred, and that are estimated to be incurred, during the entire project repayment period; *minus*

2. The present worths, at the project interest rate, of all revenues from the sale of Oroville-Thermalito power that have been realized, and that are estimated to be realized, during the project repayment period; *minus*

3. The present worths, at the project interest rate, of all Delta Water Charges received or billed as of the current year; *the above quantities all divided by*

4. The present worths, at the project interest rate, of the annual entitlements to project water for the current year and for the remaining years of the project repayment period.

This redetermination assumes the proposed amendment of Article 22(e) to be effective.[249]/ This redetermination also assumes the following schedule of events for a Middle Fork Eel River Development sized so as to meet only the estimated needs for maintaining the present "minimum project yield":[250]/ (1) construction of the Dos Rios-Grindstone Tunnel

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[248]/ *See p. 146.*
[249]/ *See p. 72.*
[250]/ *See pp. 42 - 44 for the current plan for financing and constructing the Middle Fork Eel River Development.*

by the State would commence in 1976; (2) construction of the Stony Creek Conveyance Channel by the State would commence in 1985; (3) initial payments to the Corps of Engineers by the State would commence in 1986 under an assumed contract executed pursuant to the Water Supply Act of 1958 for the "block" of water conservation storage in Dos Rios Reservoir initially used for water supply purposes; and (4) initial payments would commence in 1994 on the "block" of such storage reserved for future use.

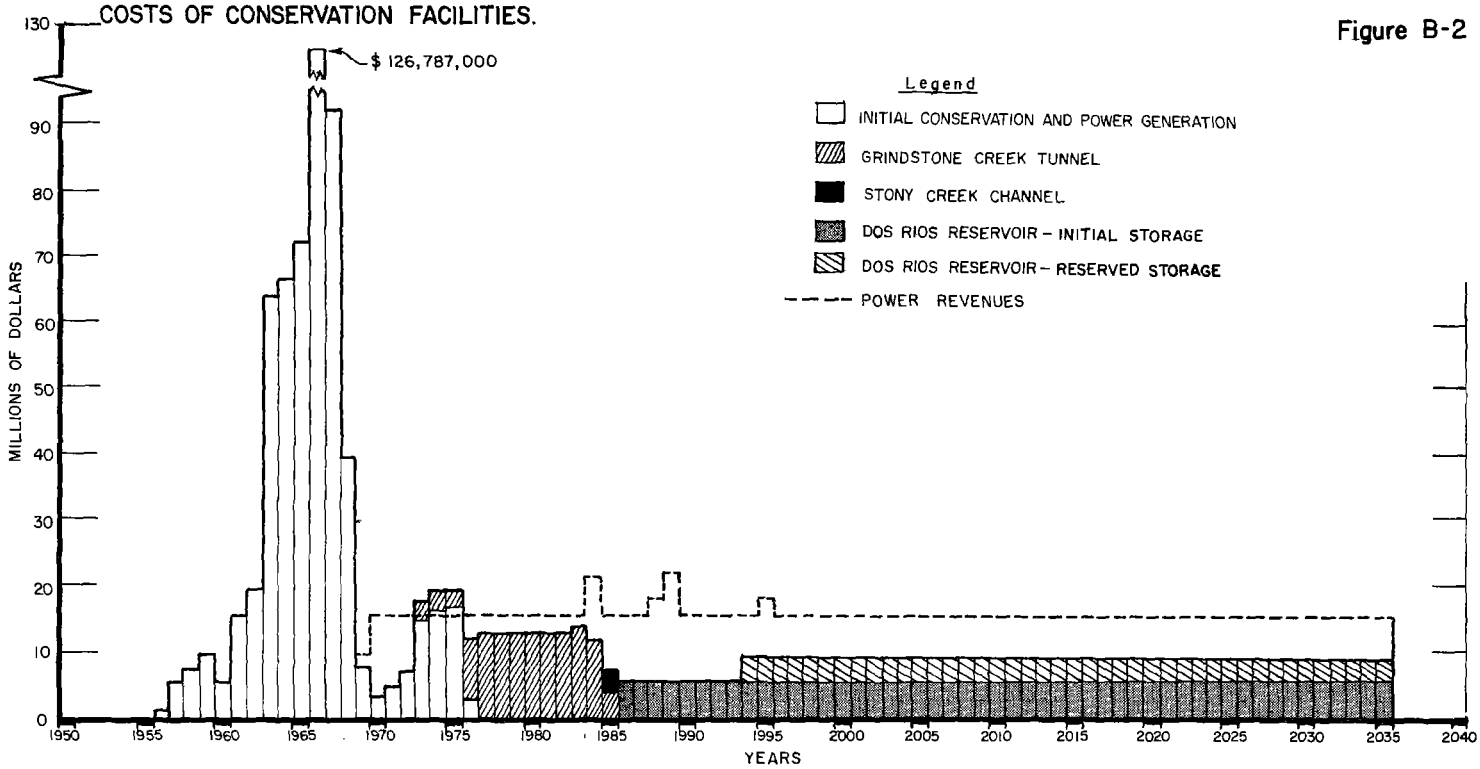
The calculation of unit Delta Water Charges applicable to future years is shown graphically on Figure B-2 and is summarized in the following tabulation:

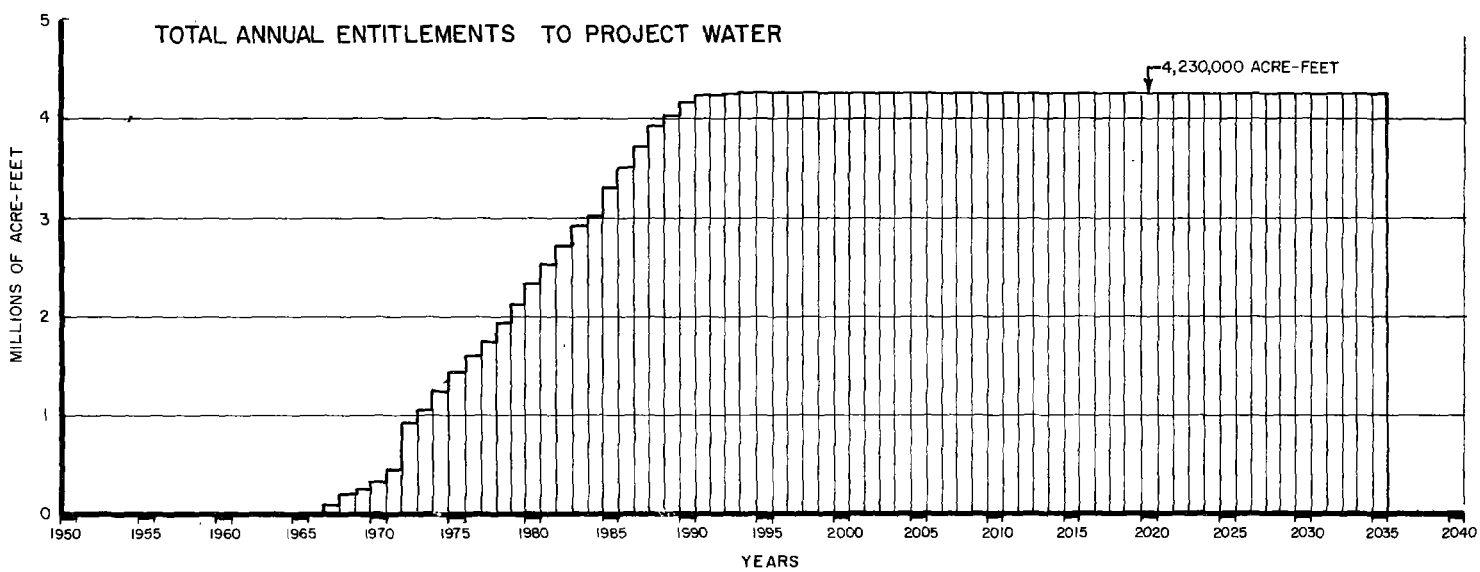
	Capital Cost Component		Operation, Maintenance, Power, and Replacement Components				Total Delta Water Charge	
			Minimum		Variable			
First Rate (through 1969)	3.44		0.00		0.06		3.50	
Initial Conservation Facilities	($)	(AF)	($)	(AF)	($)	(AF)	($)	(AF)
Total values included	737.63[a]	66.78	38.03	66.78	3.96	66.78	779.62	66.78
less, Oroville-Thermalito power revenues for the entire project repayment period[b]	387.80		0.00		0.00		387.80	
less, values for preceding period	1.68	0.25	0.00	0.25	0.03	0.25	1.71	0.25
Total	348.15	66.53	38.03	66.53	3.93	66.53	390.11	66.53
Second Rate (1970-1975)	5.23		0.57		0.06		5.86	
Additional Facilities								
Grindstone Tunnel Additional values included	83.94	0.00	1.85	0.00	0.00	0.00	85.79	0.00
less, values for preceding period	21.97	4.20	2.39	4.20	0.24	4.20	24.60	4.20
Cumulative Total	410.12	62.33	37.49	62.33	3.69	62.33	451.30	62.33
Third Rate (1976-1984)	6.58		0.60		0.06		7.24	
Stony Creek Conveyance Channel Additional values included	3.45	0.00	0.78	0.00	0.00	0.00	4.23	0.00
less, values for preceding period	83.17	12.64	7.58	12.64	0.76	12.64	91.51	12.64
Cumulative Total	330.40	49.69	30.69	49.69	2.93	49.69	364.02	49.69
Fourth Rate (1985)	6.65		0.62		0.06		7.33	
Dos Rios Initial Additional values included	70.02	0.00	3.14	0.00	0.00	0.00	73.16	0.00
less, values for preceding period	11.24	1.69	1.05	1.69	0.10	1.69	12.39	1.69
Cumulative Total	389.18	48.00	32.78	48.00	2.83	48.00	424.79	48.00
Fifth Rate (1986-1993)	8.11		0.68		0.06		8.85	
Dos Rios Reserved Additional Values included	32.08	0.00	1.60	0.00	0.00	0.00	33.68	0.00
less, values for preceding period	113.95	14.05	9.55	14.05	0.84	14.05	124.34	14.05
Cumulative Total	307.31	33.95	24.83	33.95	1.99	33.95	334.13	33.95
Sixth Rate (1994-2035)	9.05		0.73		0.06		9.84	

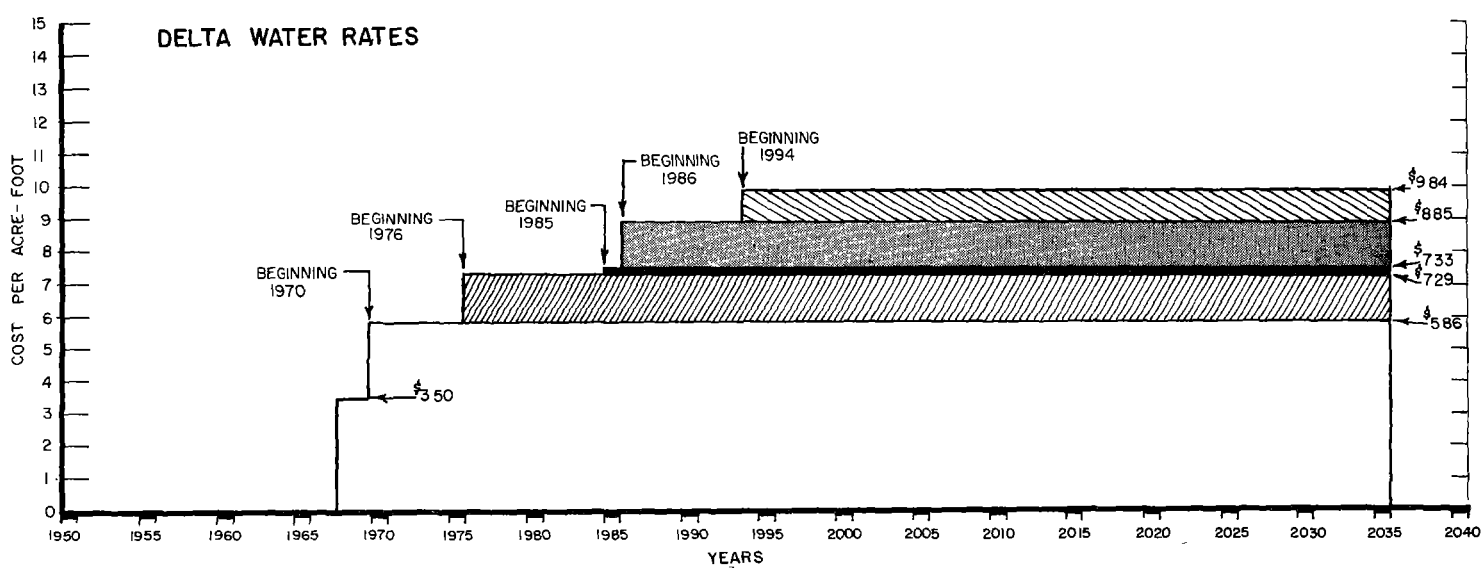
a/ Including a net credit of $4,850,000 applied December 31, 1960, for settlement of the magnitude of project capital costs incurred prior to that date, pursuant to the Department's August 1966 proposal to the water supply contractors.

b/ Considering the project repayment period to end in calendar year 2035.

Figure B-2







RELATIONSHIPS OF COST OF CONSERVATION FACILITIES AND ANNUAL ENTITLEMENTS TO THE DETERMINATION OF THE DELTA WATER RATES.

Projected Delta Water Charges for each year of the project repayment period are shown in Table B-15. Table B-16 demonstrates that these charges, together with projected revenues from the sale of Oroville-Thermalito power, will amortize all costs of project conservation facilities allocable to the purposes of water supply and Oroville-Thermalito power generation, at the project interest rate.

Transportation Charges

The accumulation of the allocated costs of each reach to each contractor forms the basis for the annual components of the Transportation Charge.

Allocated Capital Costs. Table B-17 summarizes each contractor's share of those capital costs of aqueduct reaches presented in Table B-11, as determined by those proportionate use ratios presented in Column 10 of Table B-2. These allocated capital costs are to be set forth in Table C of the respective contracts.

Capital Cost Components. Table B-18 summarizes the capital cost components of the Transportation Charge for each contractor for each year of the project repayment period. These estimated components, adjusted for prior overpayments and/or underpayments, are to be set forth in Tables D of the respective contracts.

Criteria as to the types of amortization schedules applicable to the allocated capital costs shown in Table B-17 for the respective contractors are summarized in the tabulation on page 229. The accounting of interest charges included in the capital cost components of the Transportation Charge follows the procedure established in Settlement Letter No. 2. *251/*

Minimum Operation, Maintenance, Power and Replacement Components. Table B-19 summarizes the minimum operation, maintenance, power and replacement components of the Transportation Charge for each contractor for each year of the project repayment period. These estimated components, adjusted for prior overpayments and/or underpayments, are to be set forth in Tables E of the respective contracts. These components represent the accumulated share of those reach costs presented in Table B-13, as determined by the proportionate use ratios shown for each reach for each contractor in Column 14 of Table B-2.

251/ See footnote 246

WATER SUPPLY CONTRACTOR	SCHEDULE TYPE NO.	WATER SUPPLY CONTRACTOR	SCHEDULE TYPE NO.
Alameda County Flood Control and Water Conservation District, Zone 7	2	Napa County Flood Control and Water Conservation District	7
Alameda County Water District	1	Oak Flat Water District	10
Antelope Valley-East Kern Water Agency	1	Palmdale Irrigation District	4
County of Butte	11	Plumas County Flood Control and Water Conservation District	9
City of Yuba City	11	San Bernardino Valley Municipal Water District	1
Coachella Valley County Water District	4	San Gabriel Valley Municipal Water District	3
Crestline-Lake Arrowhead Water Agency	4	San Gorgonio Pass Water Agency	3
Desert Water Agency	3	San Luis Obispo County Flood Control and Water Conservation District	5
Devil's Den Water District	10	Santa Barbara County Flood Control and Water Conservation District	5
Dudley Ridge Water District	10	Santa Clara County Flood Control and Water District	1
Empire West Side Irrigation District	10	Solano County Flood Control and Water Conservation District	9
Hacienda Water District	10	Tulare Lake Basin Water Storage District	10
Kern County Water Agency:		Upper Santa Clara Valley Water Agency	4
Agricultural Use	10	Ventura County Flood Control District	4
Municipal Use	6		
Kings County	8		
Littlerock Creek Irrigation District	4		
The Metropolitan Water District of Southern California	1		
Mojave Water Agency	4		

Type No.	Description
1.	Amortization of allocated capital costs in 50 equal annual installments, with initial payment due in calendar year 1963.
2.	Amortization of allocated capital costs in 50 equal annual installments, with initial payment due in calendar year 1963 and with principal payments on each annual capital cost prior to 1971 delayed until calendar year 1972, except payments for 1963.
3.	Amortization of allocated capital costs in 50 equal annual installments, with initial payment due in calendar year 1963 but deferred and added to the 1964 payment with accrued interest.
4.	Amortization of allocated capital costs in 50 equal annual installments, with initial payment due in calendar year 1964.
5.	Amortization of allocated capital costs in 50 equal annual installments, with initial payment due in calendar year 1964, except that all principal and interest payments for costs of the "Coastal Stub" are assumed deferred until 1976.
6.	Amortization of allocated capital costs in 50 equal annual installments, with initial payment due in calendar year 1965.
7.	Amortization of allocated capital costs in 50 equal annual installments, with initial payment due in calendar year 1966.
8.	Amortization of allocated capital costs in 50 equal annual installments, with initial payment due in calendar year 1968.
9.	Amortization of allocated capital costs in 50 equal annual installments, with initial payment due in calendar year 1970.
10.	Amortization of allocated capital costs on the basis of an equivalent unit rate applied to annual entitlements within the project repayment period.
11.	Payments on the Delta Water Charge only.

Variable Operation, Maintenance, Power, and Replacement Components. Article 26(a) of the Standard Provisions specifies the following procedure for calculating the variable operation, maintenance, power, and replacement component of the Transportation Charge:

1. 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 operation, maintenance, power and replacement costs to be incurred for the reach.

2. The total annual variable operation, maintenance, power and replacement 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.

The projected unit variable operation, maintenance, power and replacement components for each aqueduct reach for each year of the project repayment period is shown in Table B-5 and was described previously. The projected annual variable components are summarized in Table B-20, based upon the projected deliveries from or through each reach as shown in Table B-7. These estimated components, adjusted for prior overpayments and/or underpayments, are to be set forth in Tables F of the respective contracts.

Total Annual Transportation Charges. Table B-21 presents the estimated total annual Transportation Charges for each year of the project repayment period for each contractor. Table B-21 constitutes the sum of the amounts shown in Tables B-18, B-19, and B-20. These charges, adjusted for prior overpayments and/or underpayments, are to be set forth in Tables G of the respective contracts.

Total Water Charges

The estimated total annual payments for the Delta Water Charge and the unadjusted Transportation Charge by each contractor for each year of the project repayment period are shown in Table B-22.

A summary of these charges is shown in Table B-23 in terms of equivalent costs for each acre-foot of project water entitlements to be delivered to the respective contractors. These equivalent costs may be defined as that

hypothetical contractor payment for each acre-foot of entitlement to be delivered during the project repayment period that would provide the same total sum at the end of the period as those annual payments to be made under the Delta Water Charge and Transportation Charge, with interest taken into account at the project interest rate. The equivalent unit costs shown in Table B-22 provide a readily usable measure of the economic costs of entitlements to water, and reflect the rates of buildup in annual entitlements of the respective contractors.

The unit cost of entitlements to project water for any particular year may be derived by dividing the appropriate charges shown in Table B-22 by the entitlements shown in Table B-6. Such annual unit costs are greater than the equivalent unit cost for a particular contractor during the early years of the buildup in entitlements to project water, and less than the equivalent unit cost during years of full project development.

It must be emphasized that these equivalent unit costs do not reflect the South Bay contractors' payments of the Bureau Water Charge or other contractor payments of charges associated with project water service other than the Delta Water Charge and the Transportation Charge. The potential costs of surplus water service to the contractors will be considerably less than the charges for project water entitlements. Thus, the equivalent unit costs of total project water service are expected to be less than those summarized in Table B-23, depending upon the extent of future surplus water service to the respective contractors.

TABLES TO APPENDIX B

B-1 Through B-23

TABLE B-1

REACH DELIVERY CAPABILITIES AND CAPACITIES OF THE TRANSPORTATION FACILITIES

(in cubic feet per second unless otherwise noted)

REACH NUMBER	REACH DESCRIPTION	WATER SUPPLY CONTRACTORS SERVED FROM REACH	MAXIMUM DELIVERIES FROM REACH		TOTAL CAPACITY PROVIDED FOR WATER SUPPLY CONTRACTORS[1/]	ADDITIONAL CAPACITY[2/]	TOTAL REACH CAPACITY
			ANNUAL ENTITLEMENTS (in acre-feet)	MONTHLY (in percent of annual)			
			(1)	(2)	(3)	(4)	(5)
	NORTH BAY AQUEDUCT						
1	Lindsey Slough to Suisun City	-	-	-	117	0	117
2	Suisun City to Cordelia Pumping Plant	Solano County Flood Control and Water Conservation District	37,800	11	115	0	115
3	Cordelia Pumping Plant to Napa Turnout Reservoir	Napa County Flood Control and Water Conservation District	25,000	11	46	0	46
	SOUTH BAY AQUEDUCT						
1	Bethany Reservoir thru Altamont Turnout	-	-	-	300	0	300
2	Altamont Turnout thru Patterson Reservoir	Alameda County Flood Control and Water Conservation District, Zone 7	17,000	11	300	0	300
4	Patterson Reservoir to Del Valle Junction	-	-	-	300	0	300
5	Del Valle Junction thru Lake Del Valle	Future Contractor - South Bay	12,000[3/]	11	29,301 AF	0	29,301 AF
6	Del Valle Junction thru South Livermore Turnout	Alameda County Flood Control and Water Conservation District, Zone 7	29,000	11	363	0	363
7	South Livermore Turnout thru Vallecitos Turnout	Alameda County Water District	37,000	11[4/]	305	0	305
8	Vallecitos Turnout thru Alameda-Bayside Turnout	Alameda County Water District Future Contractor - South Bay	5,000 25,000[3/]	11[4/] 11	255	0	255
9	Alameda-Bayside Turnout thru Santa Clara Terminal Facilities	Santa Clara County Flood Control and Water District	100,000	11	184	0	184
	CALIFORNIA AQUEDUCT						
1	Delta thru Bethany Reservoir	-	-	-	8,421	74	10,300[5/]
2A	Bethany Reservoir to Orestimba Creek	Oak Flat Water District	5,700	18	8,120	74	10,000[5/]
2B	Orestimba Creek to O'Neill Forebay	-	-	-	8,068	74	10,000[5/]
3	O'Neill Forebay to Dos Amigos Pumping Plant	-	-	-	8,057	74	8,131[6/]
4	Dos Amigos Pumping Plant to Panoche Creek	-	-	-	8,046	74	8,120[6/]
5	Panoche Creek to Five Points	-	-	-	8,031	74	8,105[6/]
6	Five Points to Arroyo Pasajero	-	-	-	8,009	74	8,083[6/]
7	Arroyo Pasajero to Kettleman City	-	-	-	8,002	74	8,076[6/]
8C	Kettleman City thru Milham Avenue	Empire West Side Irrigation District Kings County Tulare Lake Basin Water Storage District	3,000 4,000 61,050	18 11 18	8,181	74	8,255[6/]
8D	Milham Avenue thru Avenal Gap	Dudley Ridge Water District Hacienda Water District Tulare Lake Basin Water Storage District	57,700 8,500 48,950	18 18 18	7,983	117	8,100

Footnotes shown on Sheet 3.

TABLE B-1 (Continu d)
REACH DELIVERY CAPABILITIES AND CAPACITIES
OF THE TRANSPORTATION FACILITIES

(in cubic feet per second unless otherwise noted)

REACH NUMBER	REACH DESCRIPTION	WATER SUPPLY CONTRACTORS SERVED FROM REACH	MAXIMUM DELIVERIES FROM REACH		TOTAL CAPACITY PROVIDED FOR WATER SUPPLY CONTRACTORS[1]	ADDITIONAL CAPACITY[2]	TOTAL REACH CAPACITY
			ANNUAL ENTITLEMENTS (in acre-feet)	MONTHLY (in percent of annual)			
			(1)	(2)	(3)	(4)	(5)
	CALIFORNIA AQUEDUCT (Continued)						
9	Avenal Gap thru Twisselman Road	Kern County Water Agency - Agriculture	46,900	18	7,192	108	7,300
10A	Twisselman Road thru Lost Hills	Kern County Wager Agency - Agriculture	265,800	18	7,042	108	7,150
11B	Lost Hills to 7th Standard Road	Kern County Water Agency - Agriculture	126,300	18	6,237	113	6,350
12D	7th Standard Road thru Elk Hills Road	Kern County Water Agency - Agriculture	3,700	18	5,854	96	5,950
12E	Elk Hills Road thru Tupman Road	Kern County Water Agency - Agriculture Kern County Water Agency - M. & I.	130,800 77,400	18 11	5,831	119	5,950
13B	Tupman Road to Buena Vista Pumping Plant	Kern County Water Agency - Agriculture Kern County Water Agency - M. & I.	86,800 25,200	18 11	5,294	56	5,350
14A	Buena Vista Pumping Plant thru Santiago Creek	Kern County Water Agency - Agriculture	37,500	18	4,979	71	5,050
14B	Santiago Creek thru Old River Road	Kern County Water Agency - Agriculture	60,700	18	4,859	41	4,900
14C	Old River Road to Wheeler Ridge Pumping Plant	Kern County Water Agency - Agriculture	32,500	18	4,671	29	4,700
15A	Wheeler Ridge Pumping Plant to Wind Gap Pumping	Kern County Water Agency - Agriculture	70,000	18	4,568	32	4,600
16A	Wind Gap Pumping Plant to A. D. Edmonston Pumping Plant	Kern County Water Agency - Agriculture Kern County Water Agency - M. & I.	74,100 12,000	18 11	4,358	42	4,400
17E	A. D. Edmonston Pumping Plant to Carley V. Porter Tunnel	Kern County Water Agency - M. & I.	5,000	11	4,106	44	4,150
17F	Carley V. Porter Tunnel to Junction, West Branch, California Aqueduct	-	-	-	4,097	53	4,150
18A	Junction, West Branch, California Aqueduct thru Cottonwood Powerplant	-	-	-	1,617	21	1,638
19	Cottonwood Powerplant to Fairmont	Antelope Valley-East Kern Water Agency	69,600	8-1/3	1,616	21	1,637
19C	Buttes Junction thru Buttes Reservoir	Antelope Valley-East Kern Water Agency	-	-	25,000 AF	-	25,000 AF
20A	Fairmont thru 70th Street West	Antelope Valley-East Kern Water Agency	47,100	8-1/3	1,499	21	1,520
20B	70th Street West to Palmdale	Palmdale Irrigation District	17,300	8-1/3	1,428	21	1,449
21	Palmdale to Littlerock Creek	Littlerock Creek Irrigation District Antelope Valley-East Kern Water Agency	2,300 10,800	8-1/3 8-1/3	1,397	21	1,418
22A	Littlerock Creek to Pearblossom Pumping Plant	Antelope Valley-East Kern Water Agency	10,900	8-1/3	1,376	21	1,397
22B	Pearblossom Pumping Plant to West Fork Mojave River	Coachella Valley County Water District Desert Water Agency Mojave Water Agency	23,100 38,100 50,800	11 11 8-1/3	1,360	15	1,375
23	West Fork Mojave River to Silverwood Lake	-	-	-	1,181	15	1,196
24	Cedar Springs Dam and Silverwood Lake	Crestline-Lake Arrowhead Water Agency	5,800	11	72,640 AF	-	72,640 AF
25	Silverwood Lake to South Portal, San Bernardino Tunnel	San Gorgonio Pass Water Agency	17,300	11	2,011	9	2,020

Footnotes shown on Sheet 3.

TABLE B-1 (Continued)

REACH DELIVERY CAPABILITIES AND CAPACITIES OF THE TRANSPORTATION FACILITIES

(in cubic feet per second unless otherwise noted)

REACH NUMBER	REACH DESCRIPTION	WATER SUPPLY CONTRACTORS SERVED FROM REACH	MAXIMUM DELIVERIES FROM REACH		TOTAL CAPACITY PROVIDED FOR WATER SUPPLY CONTRACTORS[1]	ADDITIONAL CAPACITY[2]	TOTAL REACH CAPACITY
			ANNUAL ENTITLEMENTS (in acre-feet)	MONTHLY (in percent of annual)			
			(1)	(2)	(3)	(4)	(5)
	CALIFORNIA AQUEDUCT (Continued)						
26A	South Portal, San Bernardino Tunnel thru Devil Canyon Powerplant	The Metropolitan Water District of Southern California San Bernardino Valley Municipal Water District San Gabriel Valley Municipal Water District	284,000 88,900 28,800	11 11 10	1,172	8	1,180
28G	Devil Canyon Powerplant thru Barton Road	San Bernardino Valley Municipal Water District	13,700	11	444	9	453
28H	Barton Road to Lake Perris	-	-	-	419	9	428
28J	Perris Dam and Lake Perris	The Metropolitan Water District of Southern California	272,500	11	99,000 AF	-	99,000 AF
	WEST BRANCH						
29A	Junction, West Branch, California Aqueduct thru Oso Pumping Plant	-	-	-	3,120	9	3,129
29F	Oso Pumping Plant thru Quail Embankment	-	-	-	3,119	10	3,129
29G	Quail embankment thru Pyramid Powerplant	-	-	-	3,096	9	3,105
29H	Pyramid Dam and Lake	-	-	-	130,100 AF	-	130,100 AF
29J	Pyramid Lake thru Castaic Powerplant	-	-	-	3,085	7	3,092
30	Castaic Dam and Lake	The Metropolitan Water District of Southern California Upper Santa Clara Valley Water Agency Ventura County Flood Control District	1,455,000 41,500 20,000	11 11 11	334,000 AF	-	334,000 AF
	COASTAL BRANCH						
31A	Avenal Gap to Devil's Den Pumping Plant	Devil's Den Water District Kern County Water Agency - Agriculture	12,700 105,100	18 18[7]	449	1	450
33A	Devil's Den Pumping Plant thru San Luis Obispo Powerplant	San Luis Obispo County Flood Control and Water Conservation District	10,000	8-1/3	126	0	126
34	San Luis Obispo Powerplant to Arroyo Grande	San Luis Obispo County Flood Control and Water Conservation District	5,000	8-1/3	110	0	110
35	Arroyo Grande to Santa Maria Terminus	San Luis Obispo County Flood Control and Water Conservation District Santa Barbara County Flood Control and Water Conservation District	10,000 57,700	8-1/3 8-1/3	102	0	102

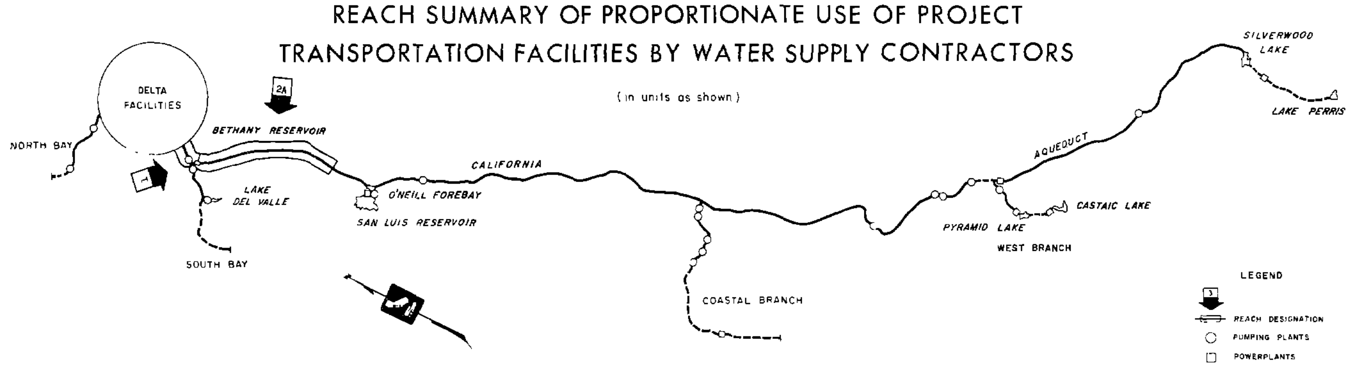
1/ For detailed break-down of capacities provided for water supply contractors, see Table B-3.
2/ Additional capacity includes that provided for practical design considerations and for project purposes other than water supply.
3/ Maximum annual entitlement of a future contractor is considered for allocation purposes to be 25,000 acre-feet in Reach No. 8; 10,000 acre-feet in Reach Nos. 6 and 7; and 22,000 acre-feet in Reach Nos. 1, 2, 4, and 5 of the South Bay Aqueduct.
4/ Maximum monthly delivery in percent of annual entitlement is 11 percent with 16 cfs (5,000 acre-feet) delivered in Reach No. 8 and the balance in Reach No. 7.
5/ Total reach capacities for both project conservation facilities and project transportation facilities. Required capacities for project transportation facilities are 8,495 cubic feet per second in Reach No. 1, 8,194 cubic feet per second in Reach No. 2A, and 8,142 cubic feet per second in Reach No. 2B.
6/ Total reach capacities required for the State Water Project; not the State's share of design capacities of reaches currently under construction.
7/ Water will be delivered through available capacity at less than 18 percent of maximum annual entitlement.

TABLE B-1 (Continued)

TABLE B-2

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)



WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH: FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF: OPERATIONAL LOSSES	SCHEDULED OUTAGES	DOWNSTREAM REGULATION	SUBTOTAL	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	CAPACITY PROVIDED IN REACH: FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS
REACH 1 - DELTA THRU BETHANY	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	284.2	2011500.0	129373.1	0	0	214087	.49249416			2140873.1	.49249416	
	CAPACITY, CFS	0	.46777	2863.07637	203.22572	184.67814	0	3250.98	.38604105	.43926760	0	3250.98023	.38604105	.43926760
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	14.6	102600.0	7394.6	0	0	10999	.02530355			109994.6	.02530355	
	CAPACITY, CFS	0	.02403	172.30098	11.97135	.76762	0	185.03	.02197276	.02363816	0	185.03995	.02197276	.02363816
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	4.1	28800.0	2075.5	0	0	3087	.00710271			30875.5	.00710271	
	CAPACITY, CFS	0	.00675	45.15128	3.36009	1.26003	0	49.77	.00591016	.00650643	0	49.77140	.00591016	.00650643
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	2.5	17300.0	1246.8	0	0	1854	.00426657			18546.8	.00426657	
	CAPACITY, CFS	0	.00412	29.05110	2.01848	.12996	0	31.19	.00370482	.00398570	0	31.19954	.00370482	.00398570
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	.8	5800.0	418.1	0	0	621	.00143043			6218.1	.00143043	
	CAPACITY, CFS	0	.00132	9.73527	.67689	.04500	0	10.45	.00124175	.00133609	0	10.45716	.00124175	.00133609
MOJAVE WATER AGENCY	QUANTITY, AF	0	7.2	50800.0	3263.6	0	0	5406	.01243699			54063.6	.01243699	
	CAPACITY, CFS	0	.01185	70.16895	5.37163	5.26267	0	80.80	.00959507	.01101603	0	80.80325	.00959507	.01101603
DESERT WATER AGENCY	QUANTITY, AF	0	5.4	38100.0	2447.6	0	0	4054	.00932772			40547.6	.00932772	
	CAPACITY, CFS	0	.00889	63.98093	4.02861	.25674	0	68.26	.00810635	.00871703	0	68.26628	.00810635	.00871703
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	3.3	23100.0	1484.1	0	0	2458	.00565542			24584.1	.00565542	
	CAPACITY, CFS	0	.00543	38.78637	2.44272	.15736	0	41.38	.00491448	.00528495	0	41.38645	.00491448	.00528495
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	19.2	138400.0	6027.9	0	0	14442	.03322471			144427.9	.03322471	
	CAPACITY, CFS	0	.03160	191.16896	9.92152	14.33768	0	215.42	.02558124	.02940298	0	215.42816	.02558124	.02940298
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	.3	2300.0	116.0	0	0	241	.00055579			2416.0	.00055579	
	CAPACITY, CFS	0	.00049	3.17694	.19091	.23827	0	3.60	.00042821	.00049200	0	3.60612	.00042821	.00049200
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	2.4	17300.0	835.4	0	0	1813	.00417193			18135.4	.00417193	
	CAPACITY, CFS	0	.00395	23.89612	1.37503	1.79221	0	27.06	.00321367	.00369280	0	27.06336	.00321367	.00369280
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	2.8	20000.0	1082.7	0	0	2108	.00484994			21082.7	.00484994	
	CAPACITY, CFS	0	.00461	27.62557	1.69933	2.10429	0	31.42	.00373209	.00429102	0	31.42919	.00373209	.00429102
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	5.8	41500.0	2246.6	0	0	4374	.01006363			43746.6	.01006363	
	CAPACITY, CFS	0	.00955	57.32306	3.52613	4.36641	0	65.21	.00774409	.00890386	0	65.21560	.00774409	.00890386
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	0	16.3	119600.0	3403.8	0	0	12300	.02829624			123003.8	.02829624	
	CAPACITY, CFS	0	.02683	218.06521	5.60242	0	0	223.66	.02655965	.02742794	0	223.66763	.02655965	.02742794
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF	0	140.9	1033800.0	27667.5	0	0	106146	.24418381			1061467.5	.24418381	
	CAPACITY, CFS	0	.23191	3058.92860	45.53880	0	0	3104.46	.36864323	.30641352	0	3104.46740	.36864323	.30641352
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	8.1	57700.0	3250.9	0	0	6095	.01402136			60950.9	.01402136	
	CAPACITY, CFS	0	.01333	79.69977	5.02006	6.10693	0	90.82	.01078532	.01240334	0	90.82676	.01078532	.01240334
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	3.5	25000.0	1107.9	0	0	2610	.00600596			26107.9	.00600596	
	CAPACITY, CFS	0	.00576	34.53197	1.75724	2.61585	0	38.90	.00461982	.00531289	0	38.90506	.00461982	.00531289
DEVIL'S DEN WATER DISTRICT	QUANTITY, AF	0	1.7	12700.0	322.9	0	0	1302	.00299583			13022.9	.00299583	
	CAPACITY, CFS	0	.00280	37.89123	.53147	0	0	38.42	.00456254	.00377919	0	38.42270	.00456254	.00377919
DUDLEY RIDGE WATER DISTRICT	QUANTITY, AF	0	7.8	57700.0	1061.3	0	0	5876	.01351766			58761.3	.01351766	
	CAPACITY, CFS	0	.01284	172.15151	1.74683	0	0	173.89	.02064974	.01708370	0	173.89834	.02064974	.01708370
TULARE LAKE BASIN WATER STORAGE DISTRICT	QUANTITY, AF	0	14.8	110000.0	1914.3	0	0	11191	.02574517			111914.3	.02574517	
	CAPACITY, CFS	0	.02436	328.19179	3.15081	0	0	331.34	.03934562	.03254540	0	331.34260	.03934562	.03254540
HACIENDA WATER DISTRICT	QUANTITY, AF	0	1.1	8500.0	156.2	0	0	865	.00199130			8656.2	.00199130	
	CAPACITY, CFS	0	.00181	25.36027	.25710	0	0	25.61	.00304196	.00251663	0	25.61737	.00304196	.00251663
EMPIRE WEST SIDE IRRIGATION DISTRICT	QUANTITY, AF	0	.4	3000.0	49.8	0	0	304	.00070159			3049.8	.00070159	
	CAPACITY, CFS	0	.00066	8.95069	.08198	0	0	9.03	.00107259	.00088709	0	9.03267	.00107259	.00088709
KINGS COUNTY	QUANTITY, AF	0	.5	4000.0	66.5	0	0	406	.00093547			4066.5	.00093547	
	CAPACITY, CFS	0	.00082	7.29315	.10943	0	0	7.40	.00087903	.00090725	0	7.40258	.00087903	.00090725
OAK FLAT WATER DISTRICT	QUANTITY, AF	0	.8	5700.0	30.4	0	0	573	.00131824			5730.4	.00131824	
	CAPACITY, CFS	0	.00132	17.00630	.05004	0	0	17.05	.00202537	.00167181	0	17.05634	.00202537	.00167181
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	QUANTITY, AF	0	13.5	100000.0	1735.1	0	0	10173	.02340351			101735.1	.02340351	
	CAPACITY, CFS	0	.02222	149.02297	2.40023	1.70237	0	153.12	.01818306	.02079328	0	153.12557	.01818306	.02079328
ALAMEDA COUNTY WATER DISTRICT	QUANTITY, AF	0	5.7	42000.0	718.2	0	0	4271	.00982705			42718.2	.00982705	
	CAPACITY, CFS	0	.00938	62.60515	.99355	.71449	0	64.31	.00763700	.00873202	0	64.31369	.00763700	.00873202
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	QUANTITY, AF	0	6.2	46000.0	724.4	0	0	4672	.01074865			46724.4	.01074865	
	CAPACITY, CFS	0	.01020	68.55218	1.00223	.78308	0	70.33	.00835230	.00955047	0	70.33749	.00835230	.00955047
FUTURE CONTRACTOR - SOUTH BAY	QUANTITY, AF	0	3.1	22000.0	1580.8	0	0	2358	.00542461			23580.8	.00542461	
	CAPACITY, CFS	0	.00510	9.71128	2.18435	.37452	0	12.27	.00145703	.00344082	0	12.27015	.00145703	.00344082
TOTALS	QUANTITY, AF	0	577.0	4145200.0	201802.0	0	0	434700	1.00000000			4347002.0	1.00000000	
	CAPACITY, CFS	0	.94970	7873.40397	320.23495	227.69412	0	8421.33	1.00000000	1.00000000	0	8421.33304	1.00000000	1.00000000

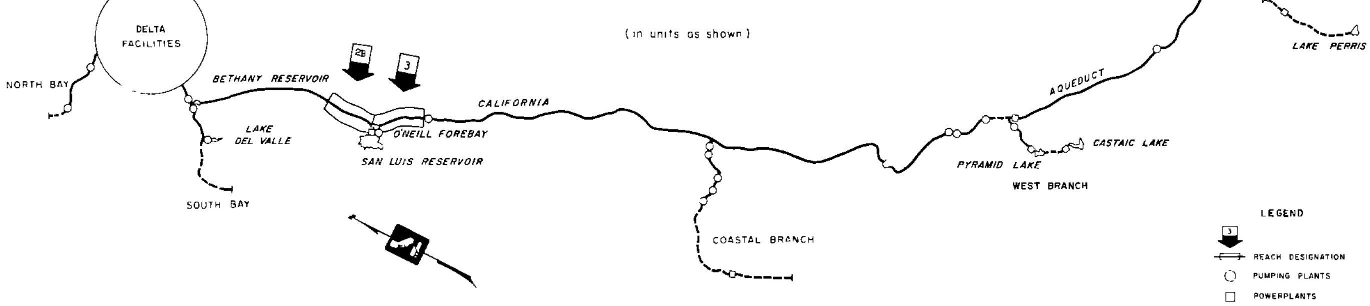
REACH 2A - BETHANY RESERVOIR TO ORESTIMBA CREEK

WATER SUPPLY CONTRACTOR	MEASURE OF USE	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	11064.3	2011500.0	129088.4	0	0	214058	.51808977			2140588.9	.51808977	
	CAPACITY, CFS	0	18.21108	2863.07637	202.75795	184.67814	0	3250.51	.40029052	.45919014	0	3250.51246	.40029052	.45919014
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	568.5	102600.0	7380.0	0	0	10998	.02661862			109980.0	.02661862	
	CAPACITY, CFS	0	.93571	172.30098	11.94732	.76762	0	185.01	.02278414	.02470136	0	185.01592	.02278414	.02470138
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	159.6	28800.0	2071.4	0	0	3087	.00747185			30871.4	.00747185	
	CAPACITY, CFS	0	.26269	45.15128	3.35334	1.26003	0	49.76	.00612836	.00680011	0	49.76465	.00612836	.00680011
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	95.8	17300.0	1244.3	0	0	1854	.00448830			18544.3	.00448830	
	CAPACITY, CFS	0	.15768	29.05110	2.01436	.12996	0	31.19	.00384162	.00416496	0	31.19542	.00384162	.00416496
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	32.1	5800.0	417.3	0	0	621	.00150478			6217.3	.00150478	
	CAPACITY, CFS	0	.05283	9.73527	.67557	.04500	0	10.45	.00128761	.00139619	0	10.45584	.00128761	.00139619
MOJAVE WATER AGENCY	QUANTITY, AF	0	279.4	50800.0	3256.4	0	0	5405	.01308335			54056.4	.01308335	
	CAPACITY, CFS	0	.45987	70.16895	5.35978	5.26267	0	80.79	.00994921	.01151628	0	80.79140	.00994921	.01151628
DESERT WATER AGENCY	QUANTITY, AF	0	209.6	38100.0	2442.2	0	0	4054	.00981249			40542.2	.00981249	
	CAPACITY, CFS	0	.34499	63.98093	4.01972	.25674	0	68.25	.00840569	.00910909	0	68.25739	.00840569	.00910909
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	127.1	23100.0	1480.8	0	0	2458	.00594933			24580.8	.00594933	
	CAPACITY, CFS	0	.20920	38.78637	2.43729	.15736	0	41.38	.00509595	.00552263	0	41.38102	.00509595	.00552263
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	746.4	138400.0	6008.7	0	0	14440	.03495144			144408.7	.03495144	
	CAPACITY, CFS	0	1.22852	191.16896	9.88992	14.33768	0	215.39	.02652542	.03073843	0	215.39656	.02652542	.03073843
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	12.5	2300.0	115.7	0	0	241	.00058467			2415.7	.00058467	
	CAPACITY, CFS	0	.02057	3.17694	.19042	.23827	0	3.60	.00044402	.00051435	0	3.60563	.00044402	.00051435
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	93.7	17300.0	833.0	0	0	1813	.00438876			18133.0	.00438876	
	CAPACITY, CFS	0	.15422	23.89612	1.37108	1.79221	0	27.05	.00333228	.00386052	0	27.05941	.00333228	.00386052
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	109.0	20000.0	1079.9	0	0	2107	.00510200			21079.9	.00510200	
	CAPACITY, CFS	0	.17941	27.62557	1.69472	2.10429	0	31.42	.00386984	.00448592	0	31.42458	.00386984	.00448592
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	226.1	41500.0	2240.8	0	0	4374	.01058665			43740.8	.01058665	
	CAPACITY, CFS	0	.37215	57.32306	3.51658	4.36641	0	65.20	.00802992	.00930828	0	65.20605	.00802992	.00930828
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	0	635.7	119600.0	3387.5	0	0	12298	.02976684			122987.5	.02976684	
	CAPACITY, CFS	0	1.04632	218.06521	5.57559	0	0	223.64	.02754067	.02865375	0	223.64080	.02754067	.02865375
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF	0	5485.8	1033800.0	27526.6	0	0	106132	.25687438			1061326.6	.25687438	
	CAPACITY, CFS	0	9.02925	3058.92860	45.30689	0	0	3104.23	.38227696	.31957567	0	3104.23549	.38227696	.31957567
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	315.0	57700.0	3242.8	0	0	6094	.01475007			60942.8	.01475007	
	CAPACITY, CFS	0	.51847	79.69977	5.00673	6.10693	0	90.81	.01118339	.01296673	0	90.81343	.01118339	.01296673
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	134.9	25000.0	1104.4	0	0	2610	.00631808			26104.4	.00631808	
	CAPACITY, CFS	0	.22204	34.53197	1.75148	2.61585	0	38.89	.00479033	.00555421	0	38.89930	.00479033	.00555421
DEVIL S DEN WATER DISTRICT	QUANTITY, AF	0	67.3	12700.0	321.2	0	0	1302	.00315154			13021.2	.00315154	
	CAPACITY, CFS	0	.11077	37.89123	.52867	0	0	38.41	.00473129	.00394142	0	38.41990	.00473129	.00394142
DUDLEY RIDGE WATER DISTRICT	QUANTITY, AF	0	303.7	57700.0	1053.5	0	0	5875	.01422019			58753.5	.01422019	
	CAPACITY, CFS	0	.49987	172.15151	1.73399	0	0	173.88	.02141346	.01781683	0	173.88550	.02141346	.01781683
TULARE LAKE BASIN WATER STORAGE DISTRICT	QUANTITY, AF	0	578.4	110000.0	1899.5	0	0	11189	.02708319			111899.5	.02708319	
	CAPACITY, CFS	0	.95201	328.19179	3.12645	0	0	331.31	.04080081	.03394200	0	331.31824	.04080081	.03394200
HACIENDA WATER DISTRICT	QUANTITY, AF	0	44.7	8500.0	155.1	0	0	865	.00209481			8655.1	.00209481	
	CAPACITY, CFS	0	.07357	25.36027	.25529	0	0	25.61	.00315448	.00262464	0	25.61556	.00315448	.00262464
EMPIRE WEST SIDE IRRIGATION DISTRICT	QUANTITY, AF	0	15.8	3000.0	49.4	0	0	304	.00073805			3049.4	.00073805	
	CAPACITY, CFS	0	.02601	8.95069	.08132	0	0	9.03	.00111226	.00092516	0	9.03201	.00111226	.00092516
KINGS COUNTY	QUANTITY, AF	0	21.0	4000.0	66.0	0	0	406	.00098410			4066.0	.00098410	
	CAPACITY, CFS	0	.03456	7.29315	.10861	0	0	7.40	.00091150	.00094780	0	7.40176	.00091150	.00094780
OAK FLAT WATER DISTRICT	QUANTITY, AF	5700.0	29.6	5700.0	29.6	0	0	572	.00138674			5729.6	.00138674	
	CAPACITY, CFS	17.00630	.04872	17.00630	.04872	0	0	17.05	.00210027	.00174351	0	17.05502	.00210027	.00174351
TOTALS	QUANTITY, AF	5700.0	21356.0	3935200.0	196495.0	0	0	413164	1.00000000			4131695.0	1.00000000	
	CAPACITY, CFS	17.00630	35.15051	7583.51239	312.75179	224.11916	0	8120.38	1.00000000	1.00000000	0	8120.38334	1.00000000	1.00000000

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)

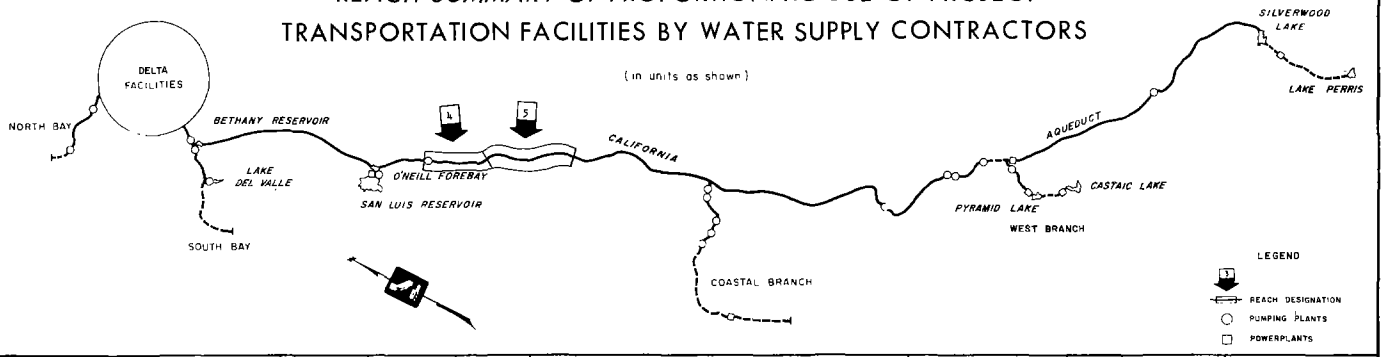


WATER SUPPLY CONTRACTOR	MEASURE OF USE (1)	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH (2)	ESTIMATED OPERATIONAL LOSSES WITHIN REACH (3)	CAPACITY PROVIDED IN REACH: FOR DELIVERY OF ENTITLEMENTS (4)	CAPACITY PROVIDED IN REACH: FOR COMPENSATION OF OPERATIONAL LOSSES (5)	FOR COMPENSATION OF SCHEDULED OUTAGES (6)	FOR COMPENSATION OF DOWNSTREAM REGULATION (7)	SUBTOTAL (8)	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: RATIOS OF TOTAL REACH USE (9)	AVERAGE OF RATIOS (10)	CAPACITY PROVIDED IN REACH: FOR REQUESTED EXCESS PEAKING (11)	TOTAL FOR WATER SUPPLY CONTRACTORS (12)	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: RATIOS OF TOTAL REACH USE (13)	AVERAGE OF RATIOS (14)
REACH 2B – ORESTIMBA CREEK TO O'NEILL FOREBAY														
THE METROPOLITAN WATER DISTRICT	QUANTITY, AF	0	3498.8	2011500.0	118024.6	0	0	212452	.51880923			2124524.6	.51880923	
OF SOUTHERN CALIFORNIA	CAPACITY, CFS	0	5.75879	2863.07637	184.54687	184.67814	0	3232.30	.40062105	.45971514	0	3232.30138	.40062105	.45971514
SAN BERNARDINO VALLEY MUNICIPAL	QUANTITY, AF	0	179.8	102600.0	6811.5	0	0	10941	.02665557			109411.5	.02665557	
WATER DISTRICT	CAPACITY, CFS	0	.29594	172.30098	11.01161	.76762	0	184.08	.02281545	.02473551	0	184.08021	.02281545	.02473551
SAN GABRIEL VALLEY MUNICIPAL	QUANTITY, AF	0	50.5	28800.0	1911.8	0	0	3071	.00748222			30711.8	.00748222	
WATER DISTRICT	CAPACITY, CFS	0	.08312	45.15128	3.09065	1.26003	0	49.50	.00613542	.00680882	0	49.50196	.00613542	.00680882
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	30.3	17300.0	1148.5	0	0	1844	.00449455			18448.5	.00449455	
	CAPACITY, CFS	0	.04987	29.05110	1.85668	.12996	0	31.03	.00384691	.00417073	0	31.03774	.00384691	.00417073
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	10.2	5800.0	385.2	0	0	618	.00150688			6185.2	.00150688	
	CAPACITY, CFS	0	.01679	9.73527	.62274	.04500	0	10.40	.00128938	.00139813	0	10.40301	.00128938	.00139813
MOJAVE WATER AGENCY	QUANTITY, AF	0	88.4	50800.0	2977.0	0	0	5377	.01310152			53777.0	.01310152	
	CAPACITY, CFS	0	.14550	70.16895	4.89991	5.26267	0	80.33	.00995653	.01152902	0	80.33153	.00995653	.01152902
DESERT WATER AGENCY	QUANTITY, AF	0	66.3	38100.0	2232.6	0	0	4033	.00982610			40332.6	.00982610	
	CAPACITY, CFS	0	.10913	63.98093	3.67473	.25674	0	67.91	.00841727	.00912168	0	67.91240	.00841727	.00912168
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	40.2	23100.0	1353.7	0	0	2445	.00595758			24453.7	.00595758	
	CAPACITY, CFS	0	.06617	38.78637	2.22809	.15736	0	41.17	.00510296	.00553027	0	41.17182	.00510296	.00553027
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	276.0	138400.0	5262.3	0	0	14366	.03499998			143662.3	.03499998	
	CAPACITY, CFS	0	.38844	191.16896	8.66140	14.35768	0	214.16	.02654462	.03077230	0	214.16804	.02654462	.03077230
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	3.9	2300.0	103.2	0	0	240	.00058548			2403.2	.00058548	
	CAPACITY, CFS	0	.00642	3.17694	.16985	.23827	0	3.58	.00044434	.00051491	0	3.58506	.00044434	.00051491
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	29.6	17300.0	739.3	0	0	1803	.00439486			18039.3	.00439486	
	CAPACITY, CFS	0	.04872	23.89612	1.21686	1.79221	0	26.90	.00333471	.00386478	0	26.90519	.00333471	.00386478
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	34.5	20000.0	970.9	0	0	2097	.00510907			20970.9	.00510907	
	CAPACITY, CFS	0	.05678	27.62557	1.51531	2.10429	0	31.24	.00387262	.00449085	0	31.24517	.00387262	.00449085
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	71.5	41500.0	2014.7	0	0	4351	.01060135			43514.7	.01060135	
	CAPACITY, CFS	0	.11768	57.32306	3.14443	4.36641	0	64.83	.00803571	.00931853	0	64.83390	.00803571	.00931853
KERN COUNTY WATER AGENCY	QUANTITY, AF	0	201.0	119600.0	2751.8	0	0	12235	.02980817			122351.8	.02980817	
MUNICIPAL AND INDUSTRIAL	CAPACITY, CFS	0	.33083	218.06521	4.52927	0	0	222.59	.02758902	.02869860	0.	222.59448	.02758902	.02869860
KERN COUNTY WATER AGENCY	QUANTITY, AF	0	1734.8	1033800.0	22040.8	0	0	105588	.25723110			1055840.8	.25723110	
AGRICULTURE	CAPACITY, CFS	0	2.85536	3058.92860	36.27764	0	0	3095.20	.38362907	.32043009	0	3095.20624	.38362907	.32043009
SANTA BARBARA COUNTY FLOOD CONTROL	QUANTITY, AF	0	109.6	57700.0	2927.8	0	0	6062	.01477056			60627.8	.01477056	
AND WATER CONSERVATION DISTRICT	CAPACITY, CFS	0	.16393	79.69977	4.48826	6.10693	0	90.29	.01119143	.01298099	0	90.29496	.01119143	.01298099
SAN LUIS OBISPO COUNTY FLOOD CONTROL	QUANTITY, AF	0	42.7	25000.0	969.5	0	0	2596	.00632686			25969.5	.00632686	
AND WATER CONSERVATION DISTRICT	CAPACITY, CFS	0	.07028	34.53197	1.52444	2.61585	0	38.67	.00479377	.00556032	0	38.67726	.00479377	.00556032
DEVIL S DEN WATER DISTRICT	QUANTITY, AF	0	21.3	12700.0	253.9	0	0	1295	.00315592			12953.9	.00315592	
	CAPACITY, CFS	0	.03506	37.89123	.41790	0	0	38.30	.00474815	.00395203	0	38.30913	.00474815	.00395203
DUDLEY RIDGE WATER DISTRICT	QUANTITY, AF	0	96.0	57700.0	749.8	0	0	5844	.01423994			58449.8	.01423994	
	CAPACITY, CFS	0	.15801	172.15151	1.23412	0	0	173.38	.02148993	.01786493	0	173.38563	.02148993	.01786493
TULARE LAKE BASIN WATER STORAGE	QUANTITY, AF	0	182.9	110000.0	1321.1	0	0	11132	.02712080			111321.1	.02712080	
DISTRICT	CAPACITY, CFS	0	.30104	328.19179	2.17444	0	0	330.36	.04094657	.03403369	0	330.36623	.04094657	.03403369
HACIENDA WATER DISTRICT	QUANTITY, AF	0	14.1	8500.0	110.4	0	0	861	.00209772			8610.4	.00209772	
	CAPACITY, CFS	0	.02321	25.36027	.18172	0	0	25.54	.00316575	.00263174	0	25.54199	.00316575	.00263174
EMPIRE WEST SIDE IRRIGATION DISTRICT	QUANTITY, AF	0	5.0	3000.0	33.6	0	0	303	.00073907			3033.6	.00073907	
	CAPACITY, CFS	0	.00823	8.95069	.05531	0	0	9.00	.00111623	.00092765	0	9.00600	.00111623	.00092765
KINGS COUNTY	QUANTITY, AF	0	6.6	4000.0	45.0	0	0	404	.00098547			4045.0	.00098547	
	CAPACITY, CFS	0	.01086	7.29315	.07405	0	0	7.36	.00091311	.00094929	0	7.36720	.00091311	.00094929
TOTALS	QUANTITY, AF	0	6744.0	3929500.0	175139.0	0	0	410463	1.00000000			4104639.0	1.00000000	
	CAPACITY, CFS	0	11.10016	7566.50609	277.60128	224.11916	0	8068.22	1.00000000	1.00000000	0	8068.22653	1.00000000	1.00000000
REACH 3 – O'NEILL FOREBAY TO DOS AMIGOS PUMPING PLANT														
THE METROPOLITAN WATER DISTRICT	QUANTITY, AF	0	3668.0	2011500.0	114525.8	0	0	212602	.51880924			2126025.8	.51880924	
OF SOUTHERN CALIFORNIA	CAPACITY, CFS	0	6.03728	2863.07637	178.78808	184.67814	0	3226.54	.40045823	.45963374	0	3226.54259	.40045823	.45963374
SAN BERNARDINO VALLEY MUNICIPAL	QUANTITY, AF	0	188.5	102600.0	6631.7	0	0	10923	.02665556			109231.7	.02665556	
WATER DISTRICT	CAPACITY, CFS	0	.31026	172.30098	10.71567	.76762	0	183.78	.02281015	.02473286	0	183.78427	.02281015	.02473286
SAN GABRIEL VALLEY MUNICIPAL	QUANTITY, AF	0	52.9	28800.0	1861.3	0	0	3066	.00748221			30661.3	.00748221	
WATER DISTRICT	CAPACITY, CFS	0	.08707	45.15128	3.00753	1.26003	0	49.41	.00613356	.00680788	0	49.41884	.00613356	.00680788
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	31.8	17300.0	1118.2	0	0	1841	.00449455			18418.2	.00449455	
	CAPACITY, CFS	0	.05234	29.05110	1.80681	.12996	0	30.98	.00384602	.00417029	0	30.98787	.00384602	.00417029
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	10.7	5800.0	375.0	0	0	617	.00150687			6175.0	.00150687	
	CAPACITY, CFS	0	.01761	9.73527	.60595	.04500	0	10.38	.00128907	.00139797	0	10.38622	.00128907	.00139797
MOJAVE WATER AGENCY	QUANTITY, AF	0	92.6	50800.0	2888.6	0	0	5368	.01310151			53688.6	.01310151	
	CAPACITY, CFS	0	.15241	70.16895	4.75441	5.26267	0	80.18	.00995219	.01152685	0	80.18603	.00995219	.01152685
DESERT WATER AGENCY	QUANTITY, AF	0	69.5	38100.0	2166.3	0	0	4026	.00982609			40266.3	.00982609	
	CAPACITY, CFS	0	.11439	63.98093	3.56560	.25674	0	67.80	.00841532	.00912070	0	67.80327	.00841532	.00912070
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	42.1	23100.0	1313.5	0	0	2441	.00595757			24413.5	.00595757	
	CAPACITY, CFS	0	.06929	38.78637	2.16192	.15736	0	41.10	.00510177	.00552967	0	41.10565	.00510177	.00552967
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	247.5	138400.0	5026.3	0	0	14342	.03499999			143426.3	.03499999	
	CAPACITY, CFS	0	.40737	191.16896	8.27296	14.33768	0	213.77	.02653298	.03076649	0	213.77960	.02653298	.03076649
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	4.1	2300.0	99.3	0	0	239	.00058550			2399.3	.00058550	
	CAPACITY, CFS	0	.00675	3.17694	.16343	.23827	0	3.57	.00044416	.00051483	0	3.57864	.00044416	.00051483
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	31.1	17300.0	709.7	0	0	1800	.00439487			18009.7	.00439487	
	CAPACITY, CFS	0	.05119	23.89612	1.16814	1.79221	0	26.85	.00333326	.00386406	0	26.85647	.00333326	.00386406
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	36.1	20000.0	936.4	0	0	2093	.00510906			20936.4	.00510906	
	CAPACITY, CFS	0	.05942	27.62557	1.45853	2.10429	0	31.18	.00387091	.00448898	0	31.18839	.00387091	.00448898
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	75.0	41500.0	1943.2	0	0	4344	.01060135			43443.2	.01060135	
	CAPACITY, CFS	0	.12344	57.32306	3.02675	4.36641	0	64.71	.00803217	.00931676	0	64.71622	.00803217	.00931676
KERN COUNTY WATER AGENCY	QUANTITY, AF	0	210.7	119600.0	2550.8	0	0	12215	.02980818			122150.8	.02980818	
MUNICIPAL AND INDUSTRIAL	CAPACITY, CFS	0	.34680	218.06521	4.19844	0	0	222.26	.02758597	.02869708	0	222.26365	.02758597	.02869708
KERN COUNTY WATER AGENCY	QUANTITY, AF	0	1818.6	1033800.0	20306.0	0	0	105410	.25723109			1054106.0	.25723109	
AGRICULTURE	CAPACITY, CFS	0	2.99329	3058.92860	33.42228	0	0	3092.35	.38380320	.32051714	0	3092.35088	.38380320	.32051714
SANTA BARBARA COUNTY FLOOD CONTROL	QUANTITY, AF	0	104.4	57700.0	2828.2	0	0	6052	.01477056			60528.2	.01477056	
AND WATER CONSERVATION DISTRICT	CAPACITY, CFS	0	.17184	79.69977	4.32433	6.10693	0	90.13	.01118650	.01297853	0	90.13103	.01118650	.01297853
SAN LUIS OBISPO COUNTY FLOOD CONTROL	QUANTITY, AF	0	44.7	25000.0	926.8	0	0	2592	.00632686			25926.8	.00632686	
AND WATER CONSERVATION DISTRICT	CAPACITY, CFS	0	.07357	34.53197	1.45916	2.61585	0	38.60	.00479166	.00555926	0	38.60698	.00479166	.00555926
DEVIL S DEN WATER DISTRICT	QUANTITY, AF	0	22.3	12700.0	232.6	0	0	1293	.00315591			12932.6	.00315591	
	CAPACITY, CFS	0	.03670	37.89123	.38284	0	0	38.27	.00475034	.00395313	0	38.27407	.00475034	.00395313
DUDLEY RIDGE WATER DISTRICT	QUANTITY, AF	0	100.7	57700.0	653.8	0	0	5835	.01423995			58353.8	.01423995	
	CAPACITY, CFS	0	.16575	172.15151	1.07611	0	0	173.22	.02149992	.01786994	0	173.22762	.02149992	.01786994
TULARE LAKE BASIN WATER STORAGE	QUANTITY, AF	0	191.7	110000.0	1138.2	0	0	11113	.02712080			111138.2	.02712080	
DISTRICT	CAPACITY, CFS	0	.31553	328.19179	1.87340	0	0	330.06	.04096562	.03404321	0	330.06519	.04096562	.03404321
HACIENDA WATER DISTRICT	QUANTITY, AF	0	14.8	8500.0	96.3	0	0	859	.00209774			8596.3	.00209774	
	CAPACITY, CFS	0	.02436	25.36027	.15851	0	0	25.51	.00316723	.00263248	0	25.51878	.00316723	.00263248
EMPIRE WEST SIDE IRRIGATION DISTRICT	QUANTITY, AF	0	5.2	3000.0	28.6	0	0	302	.00073906			3028.6	.00073906	
	CAPACITY, CFS	0	.00856	8.95069	.04708	0	0	8.99	.00111675	.00092790	0	8.99777	.00111675	.00092790
KINGS COUNTY	QUANTITY, AF	0	7.0	4000.0	38.4	0	0	403	.00098548			4038.4	.00098548	
	CAPACITY, CFS	0	.01152	7.29315	.06319	0	0	7.35	.00091302	.00094925	0	7.35634	.00091302	.00094925
TOTALS	QUANTITY, AF	0	7070.0	3929500.0	168395.0	0	0	409789	1.00000000			4097895.0	1.00000000	
	CAPACITY, CFS	0	11.63674	7566.50609	266.50112	224.11916	0	8057.12	1.00000000	1.00000000	0	8057.12637	1.00000000	1.00000000

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)



WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED REACH					PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS	
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REACH 4 – DOS AMIGOS PUMPING PLANT TO PANOCHE CREEK														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY; AF CAPACITY; CFS	0 0	4565.5 7.51440	2011500.0 2863.07637	110457.8 172.75068	0 184.67814	0 0	212235 3220.500	.51880924 .40026705	.45954814	0	2122357.8 3220.50531	.51880924 .40026705	.45954814
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	234.6 .38614	102600.0 172.50098	6443.2 10.40541	0 .76762	0 0	10404 183.47	.02665555 .02280458	.02473007	0	109043.2 183.47401	.02665555 .02280458	.02473007
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	65.8 .10830	26800.0 45.15128	1808.4 2.92046	0 1.26003	0 0	3060 49.33	.00784221 .00613161	.00680691	0	30606.4 49.33177	.00784221 .00613161	.00680691
SAN GORGONIO PASS WATER AGENCY	QUANTITY; AF CAPACITY; CFS	0 0	39.5 .06501	17300.0 29.05110	1086.6 1.75447	0 .12996	0 0	1838 30.93	.00449455 .00384508	.00416981	0	18386.4 30.93553	.00449455 .00384508	.00416981
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY; AF CAPACITY; CFS	0 0	13.3 .02189	5800.0 9.73527	364.3 .58834	0 .04500	0 0	616 10.34	.00150686 .00128835	.00139760	0	6164.3 10.36861	.00150686 .00128835	.00139760
MOJAVE WATER AGENCY	QUANTITY; AF CAPACITY; CFS	0 0	115.3 .18978	50600.0 79.16895	2798.0 4.60200	0 5.26267	0 0	5360 90.03	.01310151 .00994764	.01152458	0	53596.0 90.03362	.01310151 .00994764	.01152458
DESERT WATER AGENCY	QUANTITY; AF CAPACITY; CFS	0 0	86.5 .14237	38100.0 63.98093	2098.8 3.45121	0 .25674	0 0	4010 67.48	.00982609 .00841327	.00911968	0	40196.8 67.68888	.00982609 .00841327	.00911968
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	52.4 .08625	23100.0 38.78637	1271.4 2.09263	0 .15736	0 0	2437 41.01	.00595758 .00510054	.00552906	0	24371.4 41.03636	.00595758 .00510054	.00552906
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY; AF CAPACITY; CFS	0 0	308.0 .50695	136400.0 191.16896	4778.8 7.86550	0 14.33768	0 0	14317 213.37	.03499998 .02652073	.03076036	0	143178.8 213.37225	.03499998 .02652073	.03076036
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	5.1 .00839	2300.0 3.17698	95.2 .15668	0 .23827	0 0	230 3.57	.00058550 .00044396	.00051473	0	2395.2 3.57169	.00058550 .00044396	.00051473
PALMDALE IRRIGATION DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	38.7 .06370	17300.0 23.89612	678.6 1.11645	0 1.79221	0 0	1797 26.80	.00439866 .00333172	.00386329	0	17978.6 26.80528	.00439866 .00333172	.00386329
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	44.9 .07390	20000.0 27.62457	900.7 1.39911	0 2.10429	0 0	2090 31.12	.00510907 .00386912	.00448909	0	20900.7 31.12807	.00510907 .00386912	.00448909
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY; AF CAPACITY; CFS	0 0	93.3 .15357	41500.0 57.32306	1868.2 2.90331	0 4.36641	0 0	4336 64.59	.01060133 .00802845	.00931489	0	43368.2 64.59278	.01060133 .00802845	.00931489
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY; AF CAPACITY; CFS	0 0	262.3 .43173	119600.0 165.06521	2460.1 3.82164	0 0	0 0	12190 221.41	.02980819 .02758276	.02869548	0	121960.1 221.91685	.02980819 .02758276	.02869548
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY; AF CAPACITY; CFS	2263.6 3.72573	1033600.0 3858.92860	18887.4 30.42949	0 0	0 0	0 0	105228 3089.35	.25723110 .38398627	.32060869	0	1052287.4 3089.35759	.25723110 .38398627	.32060869
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	130.0 .21397	57700.0 74.69977	2723.8 4.19249	0 6.10693	0 0	6042 89.95	.01477057 .01118132	.01297594	0	60423.8 89.95919	.01477057 .01118132	.01297594
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	55.7 .09168	25000.0 34.53197	882.1 1.35550	0 2.61585	0 0	2588 38.54	.00632686 .00478944	.00555816	0	25882.1 38.53341	.00632686 .00478944	.00555816
DEVIL S DEN WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	27.8 .04576	12700.0 17.49123	410.3 .63016	0 0	0 0	1291 38.24	.00315592 .00475265	.00395428	0	12910.3 38.23757	.00315592 .00475265	.00395428
DUDLEY RIDGE WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	125.3 .20623	57700.0 172.15151	553.1 .41036	0 0	0 0	5825 173.06	.01423994 .02151042	.01787518	0	58253.1 173.06187	.01423994 .02151042	.01787518
TULARE LAKE BASIN WATER STORAGE DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	238.7 .39298	110000.0 328.19179	946.5 1.55787	0 0	0 0	11094 329.74	.02712081 .04098565	.03405323	0	110946.5 329.74966	.02712081 .04098565	.03405323
HACIENDA WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	18.5 .03045	8500.0 25.36827	81.5 .13415	0 0	0 0	858 25.49	.00209774 .00316878	.00263326	0	8581.5 25.49442	.00209774 .00316878	.00263326
EMPIRE WEST SIDE IRRIGATION DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	6.5 .01070	3000.0 8.95069	23.4 .03852	0 0	0 0	302 8.98	.00073907 .00111730	.00092818	0	3023.4 8.98921	.00073907 .00111730	.00092818
KINGS COUNTY	QUANTITY; AF CAPACITY; CFS	0 0	8.7 .01432	4000.0 7.29315	31.4 .05167	0 0	0 0	403 7.38	.00098547 .00091291	.00094919	0	4031.4 7.34482	.00098547 .00091291	.00094919
TOTALS	QUANTITY; AF CAPACITY; CFS	0 0	8880.0 14.48420	3929500.0 7566.50609	161325.0 254.86438	0 324.11916	0 0	409082 8045.48	1.00000000 1.00000000	1.00000000	0	4090825.0 8045.48963	1.00000000 1.00000000	1.00000000
REACH 5 – PANOCHE CREEK TO FIVE POINTS														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY; AF CAPACITY; CFS	0 0	6876.8 11.31874	2011500.0 2863.07637	106292.3 166.23630	0 184.67814	0 0	211770 3212.90	.51880924 .40007330	.45944127	0	2117792.3 3212.99081	.51880924 .40007330	.45944127
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	353.3 .58151	102600.0 172.50098	6208.6 10.01927	0 .76762	0 0	10880 183.08	.02665555 .02279763	.02472659	0	108808.6 183.08787	.02665555 .02279763	.02472659
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	0 0	99.2 .16327	26800.0 45.15128	1742.6 2.81216	0 1.26003	0 0	3054 49.27	.00784222 .00612918	.00680570	0	30542.6 49.22567	.00784222 .00612918	.00680570
SAN GORGONIO PASS WATER AGENCY	QUANTITY; AF CAPACITY; CFS	59.6 .09807	17300.0 29.05110	1046.0 1.68894	0 .12996	0 0	1838 30.87	.00449456 .00384392	.00416924	0	18386.0 30.87092	.00449456 .00384392	.00416924
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY; AF CAPACITY; CFS	20.0 .03292	5800.0 9.73527	351.0 .56645	0 .04500	0 0	615 10.34	.00150685 .00128835	.00139760	0	6151.0 10.34672	.00150685 .00128835	.00139760
MOJAVE WATER AGENCY	QUANTITY; AF CAPACITY; CFS	173.7 .28590	50600.0 79.16895	2680.7 4.41222	0 5.26267	0 0	5348 89.84	.01310151 .00994195	.01152173	0	53480.7 89.84384	.01310151 .00994195	.01152173
DESERT WATER AGENCY	QUANTITY; AF CAPACITY; CFS	130.2 .21430	38100.0 63.98093	2010.3 3.30884	0 .25674	0 0	4011 67.54	.00982608 .00841072	.00911840	0	40110.3 67.54651	.00982608 .00841072	.00911840
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	79.0 .13005	23100.0 38.78637	1210.0 2.00638	0 .15736	0 0	2431 40.94	.00595758 .00569900	.00552829	0	24319.0 40.95011	.00595758 .00569900	.00552829
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY; AF CAPACITY; CFS	463.9 .76345	136400.0 191.16896	4670.8 7.35864	0 14.33768	0 0	14287 212.86	.03499998 .02650543	.03075271	0	142870.8 212.86528	.03499998 .02650543	.03075271
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY; AF CAPACITY; CFS	7.8 .01284	2300.0 3.17694	90.1 .14822	0 .23827	0 0	230 3.56	.00058552 .00044372	.00051462	0	2390.1 3.56350	.00058552 .00044372	.00051462
PALMDALE IRRIGATION DISTRICT	QUANTITY; AF CAPACITY; CFS	58.2 .09579	17300.0 23.89612	639.4 1.05325	0 1.79221	0 0	1743 26.74	.00439485 .00332979	.00386232	0	17939.4 26.74158	.00439485 .00332979	.00386232
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY; AF CAPACITY; CFS	67.7 .11143	20000.0 27.62457	855.4 1.32521	0 2.10429	0 0	2086 31.05	.00510908 .00386640	.00448799	0	20855.4 31.05507	.00510908 .00386640	.00448799
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY; AF CAPACITY; CFS	140.5 .23125	41500.0 57.32306	1774.9 2.74974	0 4.36641	0 0	4327 64.43	.01060133 .00802380	.00931257	0	43274.9 64.43921	.01060133 .00802380	.00931257
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY; AF CAPACITY; CFS	395.1 .65031	119600.0 218.06521	2077.8 3.41991	0 0	0 0	12167 221.48	.02980820 .02757875	.02869347	0	121677.8 221.48512	.02980820 .02757875	.02869347
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY; AF CAPACITY; CFS	3409.6 5.61147	1033600.0 3858.92860	16223.4 26.70326	0 0	0 0	105002 3085.67	.25723111 .38421489	.32072300	0	1050023.4 3085.63186	.25723111 .38421489	.32072300
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY; AF CAPACITY; CFS	105.8 .32227	57700.0 79.69977	2593.4 3.93852	0 6.10693	0 0	6029 89.74	.01477056 .01117484	.01297270	0	60293.4 89.74552	.01477056 .01117484	.01297270
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY; AF CAPACITY; CFS	83.9 .13809	25000.0 34.53197	826.4 1.29391	0 2.61585	0 0	2582 38.44	.00632686 .00478666	.00555676	0	25826.4 38.44173	.00632686 .00478666	.00555676
DEVIL S DEN WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	41.8 .06880	12700.0 37.29123	182.5 .30034	0 0	0 0	1288 38.19	.00315591 .00475552	.00395571	0	12882.5 38.19161	.00315591 .00475552	.00395571
DUDLEY RIDGE WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	188.7 .31049	57700.0 172.15151	427.8 .70413	0 0	0 0	5812 172.85	.01423994 .02152354	.01788174	0	58127.8 172.85564	.01423994 .02152354	.01788174
TULARE LAKE BASIN WATER STORAGE DISTRICT	QUANTITY; AF CAPACITY; CFS	359.5 .59171	110000.0 328.19179	707.8 1.16490	0 0	0 0	11070 329.34	.02712080 .04101065	.03406573	0	110707.8 329.35678	.02712080 .04101065	.03406573
HACIENDA WATER DISTRICT	QUANTITY; AF CAPACITY; CFS	27.8 .04576	8500.0 25.36827	63.0 .10370	0 0	0 0	856 25.46	.00209773 .00317071	.00263422	0	8563.0 25.46397	.00209773 .00317071	.00263422
EMPIRE WEST SIDE IRRIGATION DISTRICT	QUANTITY; AF CAPACITY; CFS	9.8 .01613	3000.0 8.95069	16.4 .02702	0 0	0 0	301 8.97	.00073907 .00111799	.00092852	0	3016.4 8.97851	.00073907 .00111799	.00092852
KINGS COUNTY	QUANTITY; AF CAPACITY; CFS	13.1 .02156	4000.0 7.29315	22.7 .03735	0 0	0 0	402 7.33	.00098547 .00091277	.00094912	0	4022.7 7.33050	.00098547 .00091277	.00094912
TOTALS	QUANTITY; AF CAPACITY; CFS	0 0	13255.0 21.81682	3929500.0 7566.50609	152525.0 240.38018	0 324.11916	0 0	408280 8031.00	1.00000000 1.00000000	1.00000000	0	4082025.0 8031.00543	1.00000000 1.00000000	1.00000000

TABLE B-2 (Continued)
REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

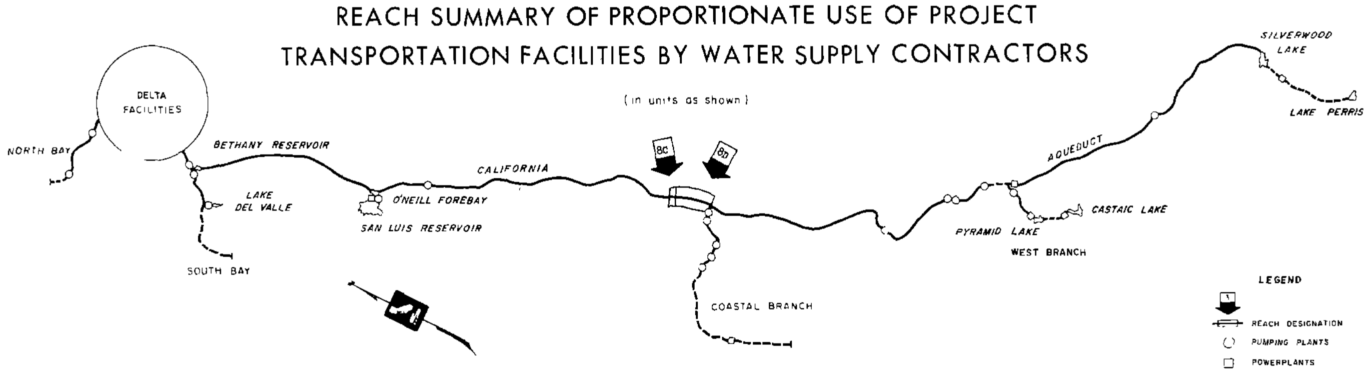
(in units as shown)

WATER SUPPLY CONTRACTOR	MEASURE OF USE (1)	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH (2)	ESTIMATED OPERATIONAL LOSSES WITHIN REACH (3)	CAPACITY PROVIDED IN REACH: FOR DELIVERY OF ENTITLEMENTS (4)	FOR COMPENSATION OF: OPERATIONAL LOSSES (5)	SCHEDULED OUTAGES (6)	DOWNSTREAM REGULATION (7)	SUBTOTAL (8)	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: RATIOS OF TOTAL REACH USE (9)	AVERAGE OF RATIOS (10)	CAPACITY PROVIDED IN REACH: FOR REQUESTED EXCESS PEAKING (11)	TOTAL FOR WATER SUPPLY CONTRACTORS (12)	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: RATIOS OF TOTAL REACH USE (13)	AVERAGE OF RATIOS (14)
REACH 6 – FIVE POINTS TO ARROYO PASAJERO														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	2197.2	2011500.0	99415.5	0	0	211091	.51880925			2110915.5	.51880925	
	CAPACITY, CFS	0	3.61644	2863.07637	153.91756	184.67814	0	3201.67	.39974987	.45927956	0	3201.67207	.39974987	.45927956
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	112.9	102600.0	5855.3	0	0	10845	.02665555			108455.3	.02665555	
	CAPACITY, CFS	0	.18583	172.30098	9.43776	.76762	0	182.50	.02278712	.02472134	0	182.50636	.02278712	.02472134
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	31.7	28800.0	1643.4	0	0	3044	.00748221			30443.4	.00748221	
	CAPACITY, CFS	0	.05218	45.15128	2.64889	1.26003	0	49.06	.00612549	.00680385	0	49.06020	.00612549	.00680385
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	19.0	17300.0	987.3	0	0	1828	.00449455			18287.3	.00449455	
	CAPACITY, CFS	0	.03127	29.05110	1.59136	.12996	0	30.77	.00384214	.00416835	0	30.77242	.00384214	.00416835
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	6.4	5800.0	331.0	0	0	613	.00150684			6131.0	.00150684	
	CAPACITY, CFS	0	.01053	9.73527	.53353	.04500	0	10.31	.00128775	.00139729	0	10.31380	.00128775	.00139729
MOJAVE WATER AGENCY	QUANTITY, AF	0	55.5	50800.0	2507.0	0	0	5330	.01310150			53307.0	.01310150	
	CAPACITY, CFS	0	.09135	70.16895	4.12632	5.26267	0	79.55	.00993333	.01151742	0	79.55794	.00993333	.01151742
DESERT WATER AGENCY	QUANTITY, AF	0	41.6	38100.0	1880.1	0	0	3998	.00982609			39980.1	.00982609	
	CAPACITY, CFS	0	.06847	63.98093	3.09454	.25674	0	67.33	.00840687	.00911648	0	67.33221	.00840687	.00911648
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	25.2	23100.0	1140.0	0	0	2424	.00595757			24240.0	.00595757	
	CAPACITY, CFS	0	.04148	38.78637	1.87635	.15736	0	40.82	.00509666	.00552712	0	40.82008	.00509666	.00552712
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	148.2	138400.0	4006.9	0	0	14240	.03499999			142406.9	.03499999	
	CAPACITY, CFS	0	.24393	191.16896	6.59509	14.33768	0	212.10	.02648230	.03074114	0	212.10173	.02648230	.03074114
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	2.5	2300.0	82.3	0	0	238	.00058551			2382.3	.00058551	
	CAPACITY, CFS	0	.00411	3.17694	.13545	.23827	0	3.55	.00044332	.00051442	0	3.55066	.00044332	.00051442
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	18.6	17300.0	581.7	0	0	1788	.00439487			17881.7	.00439487	
	CAPACITY, CFS	0	.03061	23.89612	.95746	1.79221	0	26.64	.00332690	.00386088	0	26.64579	.00332690	.00386088
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	21.6	20000.0	787.7	0	0	2078	.00510909			20787.7	.00510909	
	CAPACITY, CFS	0	.03555	27.62557	1.21378	2.10429	0	30.94	.00386352	.00448630	0	30.94364	.00386352	.00448630
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	44.9	41500.0	1634.4	0	0	4313	.01060134			43134.4	.01060134	
	CAPACITY, CFS	0	.07390	57.32306	2.51849	4.36641	0	64.20	.00801679	.00930906	0	64.20796	.00801679	.00930906
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	0	126.2	119600.0	1682.7	0	0	12128	.02980820			121282.7	.02980820	
	CAPACITY, CFS	0	.20772	218.06521	2.76960	0	0	220.83	.02757268	.02869044	0	220.83481	.02757268	.02869044
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF	0	1089.4	1033800.0	12814.2	0	0	104661	.25723110			1046614.2	.25723110	
	CAPACITY, CFS	0	1.79308	3058.92860	21.09129	0	0	3080.01	.38456079	.32089595	0	3080.01989	.38456079	.32089595
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	62.5	57700.0	2398.0	0	0	6009	.01477056			60098.0	.01477056	
	CAPACITY, CFS	0	.10287	79.69977	3.61625	6.10693	0	89.42	.01116504	.01296780	0	89.42295	.01116504	.01296780
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	26.8	25000.0	742.5	0	0	2574	.00632685			25742.5	.00632685	
	CAPACITY, CFS	0	.04411	34.53197	1.15582	2.61585	0	38.30	.00478246	.00555466	0	38.30364	.00478246	.00555466
DEVIL S DEN WATER DISTRICT	QUANTITY, AF	0	13.4	12700.0	140.7	0	0	1284	.00315592			12840.7	.00315592	
	CAPACITY, CFS	0	.02206	37.89123	.23158	0	0	38.12	.00475988	.00395790	0	38.12281	.00475988	.00395790
DUDLEY RIDGE WATER DISTRICT	QUANTITY, AF	0	60.3	57700.0	239.1	0	0	5793	.01423995			57939.1	.01423995	
	CAPACITY, CFS	0	.09925	172.15151	.39354	0	0	172.54	.02154339	.01789167	0	172.54505	.02154339	.01789167
TULARE LAKE BASIN WATER STORAGE DISTRICT	QUANTITY, AF	0	114.9	110000.0	348.3	0	0	11034	.02712080			110348.3	.02712080	
	CAPACITY, CFS	0	.18912	328.19179	.57328	0	0	328.76	.04104849	.03408464	0	328.76507	.04104849	.03408464
HACIENDA WATER DISTRICT	QUANTITY, AF	0	8.9	8500.0	35.2	0	0	853	.00209773			8535.2	.00209773	
	CAPACITY, CFS	0	.01465	25.36027	.05794	0	0	25.41	.00317363	.00263568	0	25.41821	.00317363	.00263568
EMPIRE WEST SIDE IRRIGATION DISTRICT	QUANTITY, AF	0	3.1	3000.0	7.1	0	0	300	.00073907			3007.1	.00073907	
	CAPACITY, CFS	0	.00510	8.95069	.01169	0	0	8.96	.00111901	.00092904	0	8.96238	.00111901	.00092904
KINGS COUNTY	QUANTITY, AF	0	4.2	4000.0	9.6	0	0	400	.00098546			4009.6	.00098546	
	CAPACITY, CFS	0	.00691	7.29315	.01579	0	0	7.30	.00091257	.00094901	0	7.30894	.00091257	.00094901
TOTALS	QUANTITY, AF	0	4235.0	3929500.0	139270.0	0	0	406877	1.00000000			4068770.0	1.00000000	
	CAPACITY, CFS	0	6.97052	7566.50609	218.56336	224.11916	0	8009.18	1.00000000	1.00000000	0	8009.18861	1.00000000	1.00000000
REACH 7 – ARROYO PASAJERO TO KETTLEMAN CITY														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	2767.9	2011500.0	97218.3	0	0	210871	.51880924			2108718.3	.51880924	
	CAPACITY, CFS	0	4.55577	2863.07637	150.30112	184.67814	0	3198.05	.39964615	.45922769	0	3198.05563	.39964615	.45922769
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	142.2	102600.0	5742.4	0	0	10834	.02665555			108342.4	.02665555	
	CAPACITY, CFS	0	.23405	172.30098	9.25193	.76762	0	182.32	.02278375	.02471965	0	182.32053	.02278375	.02471965
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	39.9	28800.0	1611.7	0	0	3041	.00748221			30411.7	.00748221	
	CAPACITY, CFS	0	.06567	45.15128	2.59671	1.26003	0	49.00	.00612430	.00680326	0	49.00802	.00612430	.00680326
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	24.0	17300.0	968.3	0	0	1826	.00449456			18268.3	.00449456	
	CAPACITY, CFS	0	.03950	29.05110	1.56009	.12996	0	30.74	.00384158	.00416807	0	30.74115	.00384158	.00416807
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	8.0	5800.0	324.6	0	0	612	.00150684			6124.6	.00150684	
	CAPACITY, CFS	0	.01317	9.73527	.52300	.04500	0	10.30	.00128755	.00139720	0	10.30327	.00128755	.00139720
MOJAVE WATER AGENCY	QUANTITY, AF	0	69.9	50800.0	2451.5	0	0	5325	.01310150			53251.5	.01310150	
	CAPACITY, CFS	0	.11505	70.16895	4.03497	5.26267	0	79.46	.00993057	.01151603	0	79.46659	.00993057	.01151603
DESERT WATER AGENCY	QUANTITY, AF	0	52.4	38100.0	1838.5	0	0	3993	.00982609			39938.5	.00982609	
	CAPACITY, CFS	0	.08625	63.98093	3.02607	.25674	0	67.26	.00840564	.00911586	0	67.26374	.00840564	.00911586
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	31.8	23100.0	1114.8	0	0	2421	.00595758			24214.8	.00595758	
	CAPACITY, CFS	0	.05234	38.78637	1.83487	.15736	0	40.77	.00509591	.00552675	0	40.77860	.00509591	.00552675
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	186.7	138400.0	3858.7	0	0	14225	.03499999			142258.7	.03499999	
	CAPACITY, CFS	0	.30730	191.16896	6.35116	14.33768	0	211.85	.02647488	.03073744	0	211.85780	.02647488	.03073744
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	3.1	2300.0	79.8	0	0	237	.00058550			2379.8	.00058550	
	CAPACITY, CFS	0	.00510	3.17694	.13134	.23827	0	3.54	.00044320	.00051435	0	3.54655	.00044320	.00051435
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	23.4	17300.0	563.1	0	0	1786	.00439487			17863.1	.00439487	
	CAPACITY, CFS	0	.03852	23.89612	.92685	1.79221	0	26.61	.00332598	.00386042	0	26.61518	.00332598	.00386042
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	27.3	20000.0	766.1	0	0	2076	.00510910			20766.1	.00510910	
	CAPACITY, CFS	0	.04493	27.62557	1.17823	2.10429	0	30.90	.00386244	.00448577	0	30.90809	.00386244	.00448577
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	56.6	41500.0	1589.5	0	0	4308	.01060133			43089.5	.01060133	
	CAPACITY, CFS	0	.09316	57.32306	2.44459	4.36641	0	64.13	.00801454	.00930794	0	64.13406	.00801454	.00930794
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	0	159.0	119600.0	1556.5	0	0	12115	.02980821			121156.5	.02980821	
	CAPACITY, CFS	0	.26170	218.06521	2.56188	0	0	220.62	.02757074	.02868947	0	220.62709	.02757074	.02868947
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF	0	1372.3	1033800.0	11724.8	0	0	104552	.25723110			1045524.8	.25723110	
	CAPACITY, CFS	0	2.25871	3058.92860	19.29821	0	0	3078.22	.38467170	.32095140	0	3078.22681	.38467170	.32095140
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	78.8	57700.0	2335.5	0	0	6003	.01477057			60035.5	.01477057	
	CAPACITY, CFS	0	.12970	79.69977	3.51338	6.10693	0	89.32	.01116191	.01296624	0	89.32008	.01116191	.01296624
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	33.8	25000.0	715.7	0	0	2571	.00632685			25715.7	.00632685	
	CAPACITY, CFS	0	.05563	34.53197	1.11171	2.61585	0	38.25	.00478112	.00555398	0	38.25953	.00478112	.00555398
DEVIL S DEN WATER DISTRICT	QUANTITY, AF	0	16.8	12700.0	127.3	0	0	1282	.00315591			12827.3	.00315591	
	CAPACITY, CFS	0	.02765	37.89123	.20952	0	0	38.10	.00476127	.00395859	0	38.10075	.00476127	.00395859
DUDLEY RIDGE WATER DISTRICT	QUANTITY, AF	0	76.0	57700.0	178.8	0	0	5787	.01423996			57878.8	.01423996	
	CAPACITY, CFS	0	.12509	172.15151	.29429	0	0	172.44	.02154975	.01789485	0	172.44580	.02154975	.01789485
TULARE LAKE BASIN WATER STORAGE DISTRICT	QUANTITY, AF	0	144.7	110000.0	233.4	0	0	11023	.02712079			110233.4	.02712079	
	CAPACITY, CFS	0	.23817	328.19179	.38416	0	0	328.57	.04106061	.03409070	0	328.57595	.04106061	.03409070
HACIENDA WATER DISTRICT	QUANTITY, AF	0	11.2	8500.0	26.3	0	0	852	.00209773			8526.3	.00209773	
	CAPACITY, CFS	0	.01844	25.36027	.04329	0	0	25.40	.00317456	.00263615	0	25.40356	.00317456	.00263615
EMPIRE WEST SIDE IRRIGATION DISTRICT	QUANTITY, AF	0	3.9	3000.0	4.0	0	0	300	.00073907			3004.0	.00073907	
	CAPACITY, CFS	0	.00642	8.95069	.00659	0	0	8.95	.00111935	.00092921	0	8.95728	.00111935	.00092921
KINGS COUNTY	QUANTITY, AF	0	5.3	4000.0	5.4	0	0	400	.00098545			4005.4	.00098545	
	CAPACITY, CFS	0	.00872	7.29315	.00888	0	0	7.30	.00091250	.00094898	0	7.30203	.00091250	.00094898
TOTALS	QUANTITY, AF	0	5335.0	3929500.0	135035.0	0	0	406453	1.00000000			4064535.0	1.00000000	
	CAPACITY, CFS	0	8.78104	7566.50609	211.59284	224.11916	0	8002.21	1.00000000	1.00000000	0	8002.21809	1.00000000	1.00000000

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)



WATER SUPPLY CONTRACTOR	MEASURE OF USE (1)	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH (2)	ESTIMATED OPERATIONAL LOSSES WITHIN REACH (3)	CAPACITY PROVIDED IN REACH: FOR DELIVERY OF ENTITLEMENTS (4)	CAPACITY PROVIDED IN REACH: FOR COMPENSATION OF: OPERATIONAL LOSSES (5)	SCHEDULED OUTAGES (6)	DOWNSTREAM REGULATION (7)	SUBTOTAL (8)	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: RATIOS OF TOTAL REACH USE (9)	AVERAGE OF RATIOS (10)	CAPACITY PROVIDED IN REACH: FOR REQUESTED EXCESS PEAKING (11)	TOTAL FOR WATER SUPPLY CONTRACTORS (12)	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: RATIOS OF TOTAL REACH USE (13)	AVERAGE OF RATIOS (14)
REACH 8C – KETTLEMAN CITY THRU MILHAM AVENUE														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	51.9	2011500.0	94450.4	0	0	210595	.51880922			2105950.4	.51880922	
	CAPACITY, CFS	0	.08542	2863.07637	145.74535	184.67814	0	3193.49	.39951523	.45916223	188.00000	3381.49986	.41331368	.46606145
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	2.7	102600.0	5600.2	0	0	10820	.02665555			105200.2	.02665555	
	CAPACITY, CFS	0	.00444	172.30098	9.01788	.76762	0	182.09	.02277950	.02471752	0	182.08648	.02225605	.02445580
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	.7	28800.0	1571.8	0	0	3037	.00748221			30371.8	.00748221	
	CAPACITY, CFS	0	.00115	45.15128	2.53104	1.26003	0	48.94	.00612282	.00680252	0	48.94235	.00598212	.00673217
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	.4	17300.0	944.3	0	0	1824	.00449456			18244.3	.00449456	
	CAPACITY, CFS	0	.00066	29.05110	1.52059	.12996	0	30.70	.00384086	.00416771	0	30.70165	.00375260	.00412358
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	.2	5800.0	316.6	0	0	611	.00150685			6116.6	.00150685	
	CAPACITY, CFS	0	.00033	9.73527	.50983	.04500	0	10.29	.00128732	.00139708	0	10.29010	.00125774	.00138229
MOJAVE WATER AGENCY	QUANTITY, AF	0	1.3	50800.0	2381.6	0	0	5318	.01310150			53181.6	.01310150	
	CAPACITY, CFS	0	.00214	70.16895	3.91992	5.26267	0	79.35	.00992709	.01151429	0	79.35154	.00969897	.01140024
DESERT WATER AGENCY	QUANTITY, AF	0	1.0	38100.0	1786.1	0	0	3988	.00982610			39886.1	.00982610	
	CAPACITY, CFS	0	.00165	63.98093	2.93982	.25674	0	67.17	.00840408	.00911509	0	67.17749	.00821096	.00901853
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	.6	23100.0	1083.0	0	0	2418	.00595758			24183.0	.00595758	
	CAPACITY, CFS	0	.00099	38.78637	1.74253	.15736	0	40.72	.00509496	.00552627	0	40.72626	.00497789	.00546773
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	3.5	138400.0	3672.0	0	0	14207	.03500000			142072.0	.03500000	
	CAPACITY, CFS	0	.00576	191.16896	6.04386	14.33768	0	211.55	.02646552	.03073276	0	211.55050	.02585738	.03042869
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	.1	2300.0	76.7	0	0	237	.00058551			2376.7	.00058551	
	CAPACITY, CFS	0	.00017	3.17694	.12624	.23827	0	3.54	.00044304	.00051428	0	3.54145	.00043286	.00050919
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	.4	17300.0	539.7	0	0	1783	.00439488			17839.7	.00439488	
	CAPACITY, CFS	0	.00066	23.89612	.88833	1.79221	0	26.57	.00332481	.00385985	0	26.57666	.00324841	.00382164
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	.5	20000.0	738.8	0	0	2073	.00510908			20738.8	.00510908	
	CAPACITY, CFS	0	.00082	27.62557	1.13330	2.10429	0	30.86	.00386106	.00448507	0	30.86316	.00377234	.00444071
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	1.1	41500.0	1532.9	0	0	4303	.01060132			43032.9	.01060132	
	CAPACITY, CFS	0	.00182	57.32306	2.35143	4.36641	0	64.04	.00801169	.00930651	0	64.04090	.00782759	.00921446
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	0	3.0	119600.0	1397.5	0	0	12099	.02980821			120997.5	.02980821	
	CAPACITY, CFS	0	.00494	218.06521	2.30018	0	0	220.36	.02756829	.02868825	0	220.36539	.02693480	.02837151
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF	0	25.7	1033800.0	10352.5	0	0	104415	.25723110			1044152.5	.25723110	
	CAPACITY, CFS	0	.04230	3058.92860	17.03950	0	0	3075.96	.38481170	.32102140	0	3075.96810	.37596917	.31660014
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	1.5	57700.0	2256.7	0	0	5995	.01477057			59956.7	.01477057	
	CAPACITY, CFS	0	.00247	79.69977	3.38368	6.10693	0	89.19	.01115795	.01296426	0	89.19038	.01090155	.01283606
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	.6	25000.0	681.9	0	0	2568	.00632684			25681.9	.00632684	
	CAPACITY, CFS	0	.00099	34.53197	1.05608	2.61585	0	38.20	.00477941	.00555312	0	38.20390	.00466958	.00549821
DEVIL S DEN WATER DISTRICT	QUANTITY, AF	0	.3	12700.0	110.5	0	0	1281	.00315592			12810.5	.00315592	
	CAPACITY, CFS	0	.00049	37.89123	.18187	0	0	38.07	.00476304	.00395948	0	38.07310	.00465360	.00390476
DUDLEY RIDGE WATER DISTRICT	QUANTITY, AF	0	1.4	57700.0	102.8	0	0	5780	.01423995			57802.8	.01423995	
	CAPACITY, CFS	0	.00230	172.15151	.16920	0	0	172.32	.02155777	.01789886	0	172.32071	.02106240	.01765117
TULARE LAKE BASIN WATER STORAGE DISTRICT	QUANTITY, AF	61050.0	2.7	110000.0	88.7	0	0	11008	.02712079			110088.7	.02712079	
	CAPACITY, CFS	182.14644	.00444	328.19179	.14599	0	0	328.33	.04107592	.03409835	0	328.33778	.04013204	.03362641
HACIENDA WATER DISTRICT	QUANTITY, AF	0	.2	8500.0	15.1	0	0	851	.00209773			8515.1	.00209773	
	CAPACITY, CFS	0	.00033	25.36027	.02485	0	0	25.38	.00317575	.00263674	0	25.38512	.00310277	.00260025
EMPIRE WEST SIDE IRRIGATION DISTRICT	QUANTITY, AF	3000.0	.1	3000.0	.1	0	0	300	.00073909			3000.1	.00073909	
	CAPACITY, CFS	8.95069	.00017	8.95069	.00017	0	0	8.95	.00111978	.00092943	0	8.95086	.00109405	.00091657
KINGS COUNTY	QUANTITY, AF	4000.0	.1	4000.0	.1	0	0	400	.00098544			4000.1	.00098544	
	CAPACITY, CFS	7.29315	.00016	7.29315	.00016	0	0	7.29	.00091241	.00094893	0	7.29332	.00089145	.00093844
TOTALS	QUANTITY, AF	68050.0	100.0	3929500.0	129700.0	0	0	405920	1.00000000			4059200.0	1.00000000	
	CAPACITY, CFS	198.39028	.16459	7566.50609	202.81180	224.11916	0	7993.43	1.00000000	1.00000000	188.00000	8181.43705	1.00000000	1.00000000
REACH 8D – MILHAM AVENUE THRU AVENAL GAP														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	3603.6	2011500.0	94398.5	0	0	210589	.52765525			2105898.5	.52765525	
	CAPACITY, CFS	0	6.07941	2863.07637	145.65993	184.67814	0	3193.41	.40968091	.46866808	188.00000	3381.41444	.42358316	.47561921
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	189.8	102600.0	5597.5	0	0	10819	.02711003			108197.5	.02711003	
	CAPACITY, CFS	0	.31240	172.30098	9.01344	.76762	0	182.08	.02335918	.02523461	0	182.08204	.02280906	.02495955
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	53.3	28800.0	1571.1	0	0	3037	.00760980			30371.1	.00760980	
	CAPACITY, CFS	0	.08773	45.15128	2.52989	1.26003	0	48.94	.00627863	.00694422	0	48.94120	.00613077	.00687029
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	32.0	17300.0	943.9	0	0	1824	.00457120			18243.9	.00457120	
	CAPACITY, CFS	0	.05267	29.05110	1.51993	.12996	0	30.70	.00393861	.00425491	0	30.70099	.00384585	.00420853
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	10.7	5800.0	316.4	0	0	611	.00153253			6116.4	.00153253	
	CAPACITY, CFS	0	.01761	9.73527	.50950	.04500	0	10.28	.00132007	.00142630	0	10.28977	.00128898	.00141075
MOJAVE WATER AGENCY	QUANTITY, AF	0	93.3	50800.0	2380.3	0	0	5318	.01332489			53180.3	.01332489	
	CAPACITY, CFS	0	.15356	70.16895	3.91778	5.26267	0	79.34	.01017968	.01175228	0	79.34940	.00993994	.01163242
DESERT WATER AGENCY	QUANTITY, AF	0	69.9	38100.0	1785.1	0	0	3988	.00999364			39885.1	.00999364	
	CAPACITY, CFS	0	.11505	63.98093	2.93817	.25674	0	67.17	.00861794	.00930579	0	67.17584	.00841499	.00920431
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	42.4	23100.0	1082.4	0	0	2418	.00605916			24182.4	.00605916	
	CAPACITY, CFS	0	.06979	38.78637	1.78154	.15736	0	40.72	.00522462	.00564189	0	40.72527	.00510158	.00558037
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	249.2	138400.0	3668.5	0	0	14206	.03559677			142068.5	.03559677	
	CAPACITY, CFS	0	.41017	191.16896	6.03810	14.33768	0	211.54	.02713893	.03136785	0	211.54474	.02649980	.03104828
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	4.2	2300.0	76.6	0	0	237	.00059548			2376.6	.00059548	
	CAPACITY, CFS	0	.00691	3.17694	.12607	.23827	0	3.54	.00045431	.00052490	0	3.54128	.00044361	.00051955
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	31.3	17300.0	539.3	0	0	1783	.00446983			17839.3	.00446983	
	CAPACITY, CFS	0	.05152	23.89612	.88767	1.79221	0	26.57	.00340942	.00393962	0	26.57600	.00332912	.00389947
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	36.4	20000.0	738.3	0	0	2073	.00519620			20738.3	.00519620	
	CAPACITY, CFS	0	.05991	27.62557	1.13248	2.10429	0	30.86	.00395931	.00457776	0	30.86234	.00386607	.00453113
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	75.5	41500.0	1531.8	0	0	4303	.01078208			43031.8	.01078208	
	CAPACITY, CFS	0	.12427	57.32306	2.34962	4.36641	0	64.03	.00821553	.00949880	0	64.03909	.00802205	.00940206
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	0	212.2	119600.0	1394.5	0	0	12099	.03031646			120994.5	.03031646	
	CAPACITY, CFS	0	.34927	218.06521	2.29524	0	0	220.36	.02826989	.02929317	0	220.36045	.02760412	.02896029
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF	-6400.0	1831.3	1033800.0	10326.8	0	0	104412	.26161707			1044126.8	.26161707	
	CAPACITY, CFS	-14.00000	3.01419	3058.92860	16.99720	0	0	3075.92	.39460837	.32811272	0	3075.92580	.38531519	.32346613
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	105.1	57700.0	2255.2	0	0	5995	.01502241			59955.2	.01502241	
	CAPACITY, CFS	0	.17299	79.69977	3.38121	6.10693	0	89.18	.01144185	.01323213	0	89.18791	.01117239	.01309740
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF	0	45.0	25000.0	681.3	0	0	2568	.00643472			25681.3	.00643472	
	CAPACITY, CFS	0	.07407	34.53197	1.05509	2.61585	0	38.20	.00490102	.00566787	0	38.20291	.00478560	.00561016
DEVIL S DEN WATER DISTRICT	QUANTITY, AF	0	22.5	12700.0	110.2	0	0	1281	.00320973			12810.2	.00320973	
	CAPACITY, CFS	0	.03703	37.89123	.18138	0	0	38.07	.00488431	.00404702	0	38.07261	.00476928	.00398951
DUDLEY RIDGE WATER DISTRICT	QUANTITY, AF	57700.0	101.4	57700.0	101.4	0	0	5780	.01448276			57801.4	.01448276	
	CAPACITY, CFS	172.15151	.16690	172.15151	.16690	0	0	172.31	.02210661	.01829468	0	172.31841	.02158599	.01803437
TULARE LAKE BASIN WATER STORAGE DISTRICT	QUANTITY, AF	48950.0	86.0	48950.0	86.0	0	0	4903	.01228649			49036.0	.01228649	
	CAPACITY, CFS	146.04535	.14155	146.04535	.14155	0	0	146.18	.01875421	.01552035	0	146.18690	.01831255	.01529952
HACIENDA WATER DISTRICT	QUANTITY, AF	8500.0	14.9	8500.0	14.9	0	0	851	.00213350			8514.9	.00213350	
	CAPACITY, CFS	25.36027	.02452	25.36027	.02452	0	0	25.38	.00325660	.00269505	0	25.38479	.00317990	.00265670
TOTALS	QUANTITY, AF	108750.0	7000.0	3861450.0	129600.0	0	0	399105	1.00000000			3991050.0	1.00000000	
	CAPACITY, CFS	329.55713	11.52152	7368.11581	202.64721	224.11916	0	7794.88	1.00000000	1.00000000	188.00000	7982.88218	1.00000000	1.00000000

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

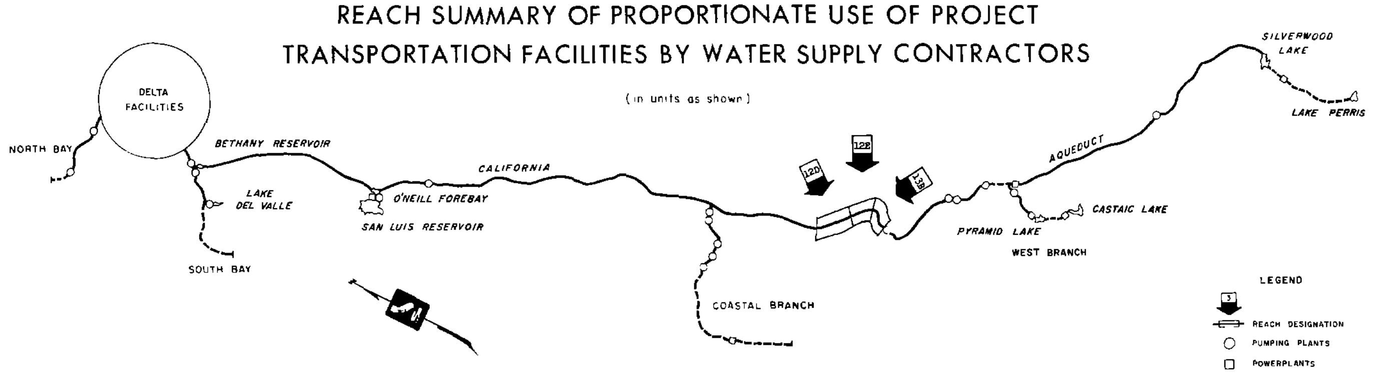
(in units as shown)

WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH: FOR DELIVERY OF ENTITLEMENTS	CAPACITY PROVIDED IN REACH: FOR COMPENSATION OF: OPERATIONAL LOSSES	CAPACITY PROVIDED IN REACH: FOR COMPENSATION OF: SCHEDULED OUTAGES	CAPACITY PROVIDED IN REACH: FOR COMPENSATION OF: DOWNSTREAM REGULATION	CAPACITY PROVIDED IN REACH: SUBTOTAL	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: RATIOS OF TOTAL REACH USE	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: AVERAGE OF RATIOS	CAPACITY PROVIDED IN REACH: FOR REQUESTED EXCESS PEAKING	CAPACITY PROVIDED IN REACH: TOTAL FOR WATER SUPPLY CONTRACTORS	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: RATIOS OF TOTAL REACH USE	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: AVERAGE OF RATIOS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REACH 9 – AVENAL GAP THRU TWISSELMAN ROAD														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	3779.3	2011500.0	90704.9	0	0	210220	.57262064			2102204.9	.57262064	
	CAPACITY, CFS	0	6.22047	2863.07637	139.58052	184.67814	0	3187.33	.45504564	.51383314	188.00000	3375.33503	.46928998	.52095531
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	194.2	102600.0	5407.7	0	0	10800	.02942027			108007.7	.02942027	
	CAPACITY, CFS	0	.31964	172.30098	8.70104	.76762	0	181.76	.02595067	.02768547	0	181.76964	.02527236	.02734632
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	54.5	28800.0	1517.8	0	0	3031	.00825828			30317.8	.00825828	
	CAPACITY, CFS	0	.08970	45.15128	2.44216	1.26003	0	48.85	.00697465	.00761647	0	48.85347	.00679235	.00752531
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	32.7	17300.0	911.9	0	0	1821	.00496075			18211.9	.00496075	
	CAPACITY, CFS	0	.05382	29.05110	1.46726	.12996	0	30.64	.00437556	.00466816	0	30.64832	.00426119	.00461097
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	11.0	5800.0	305.7	0	0	610	.00166314			6105.7	.00166314	
	CAPACITY, CFS	0	.01811	9.73527	.49189	.04500	0	10.27	.00146652	.00156483	0	10.27216	.00142819	.00154566
MOJAVE WATER AGENCY	QUANTITY, AF	0	95.4	50800.0	2287.0	0	0	5308	.01446039			53087.0	.01446039	
	CAPACITY, CFS	0	.15702	70.16895	3.76422	5.26267	0	79.19	.01130654	.01288347	0	79.19584	.01101100	.01273570
DESERT WATER AGENCY	QUANTITY, AF	0	71.6	38100.0	1715.2	0	0	3981	.01084528			39815.2	.01084528	
	CAPACITY, CFS	0	.11785	63.98093	2.82312	.25674	0	67.06	.00957406	.01020967	0	67.06079	.00932380	.01008454
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	43.4	23100.0	1040.0	0	0	2414	.00657551			24140.0	.00657551	
	CAPACITY, CFS	0	.07143	38.78637	1.71175	.15736	0	40.65	.00580425	.00618988	0	40.65548	.00565254	.00611402
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	255.0	138400.0	3419.3	0	0	14181	.03863023			141819.3	.03863023	
	CAPACITY, CFS	0	.41971	191.16896	5.62793	14.33768	0	211.13	.03014301	.03438662	0	211.13457	.02935511	.03399267
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	4.3	2300.0	72.4	0	0	237	.00064622			2372.4	.00064622	
	CAPACITY, CFS	0	.00708	3.17694	.11916	.23827	0	3.53	.00050459	.00057540	0	3.53437	.00049140	.00056881
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	32.0	17300.0	508.0	0	0	1780	.00485073			17808.0	.00485073	
	CAPACITY, CFS	0	.05267	23.89612	.83615	1.79221	0	26.52	.00378682	.00431877	0	26.52448	.00368783	.00426928
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	37.2	20000.0	701.9	0	0	2070	.00563900			20701.9	.00563900	
	CAPACITY, CFS	0	.06123	27.62557	1.07257	2.10429	0	30.80	.00439756	.00501828	0	30.80243	.00428262	.00496081
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	77.2	41500.0	1456.3	0	0	4295	.01170089			42956.3	.01170089	
	CAPACITY, CFS	0	.12707	57.32306	2.22535	4.36641	0	63.91	.00912492	.01041290	0	63.91482	.00888640	.01029365
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	0	217.1	119600.0	1182.3	0	0	12078	.03289995			120782.3	.03289995	
	CAPACITY, CFS	0	.35733	218.06521	1.94597	0	0	220.01	.03141029	.03215512	0	220.01118	.03058927	.03174461
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF	46900.0	1695.1	935100.0	7769.6	0	0	94286	.25682872			942869.6	.25682872	
	CAPACITY, CFS	139.92905	2.79002	2789.92860	12.78823	0	0	2802.71	.40013492	.32848182	0	2802.71683	.38967596	.32325234
TOTALS	QUANTITY, AF	46900.0	6600.0	3552200.0	119000.0	0	0	367120	1.00000000			3671200.0	1.00000000	
	CAPACITY, CFS	139.92905	10.86315	6603.43571	185.59732	215.39638	0	7004.42	1.00000000	1.00000000	188.00000	7192.42941	1.00000000	1.00000000
REACH 10A – TWISSELMAN ROAD THRU LOST HILLS														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	4060.3	2011500.0	86925.6	0	0	209842	.58004412			2098425.6	.58004412	
	CAPACITY, CFS	0	6.68298	2863.07637	133.36005	184.67814	0	3181.11	.46414983	.52209697	188.00000	3369.11456	.47845614	.52925013
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	208.6	102600.0	5213.5	0	0	10781	.02980167			107813.5	.02980167	
	CAPACITY, CFS	0	.34334	172.30098	8.38140	.76762	0	181.45	.02647499	.02813833	0	181.45000	.02576816	.02778491
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	58.5	28800.0	1463.3	0	0	3026	.00836534			30263.3	.00836534	
	CAPACITY, CFS	0	.09629	45.15128	2.35246	1.26003	0	48.76	.00711502	.00774018	0	48.76377	.00692506	.00764520
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	35.2	17300.0	879.2	0	0	1817	.00502507			18179.2	.00502507	
	CAPACITY, CFS	0	.05794	29.05110	1.41344	.12996	0	30.59	.00446398	.00474453	0	30.59450	.00434480	.00468493
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	11.8	5800.0	294.7	0	0	609	.00168469			6094.7	.00168469	
	CAPACITY, CFS	0	.01942	9.73527	.47378	.04500	0	10.25	.00149615	.00159042	0	10.25405	.00145620	.00157045
MOJAVE WATER AGENCY	QUANTITY, AF	0	102.5	50800.0	2191.6	0	0	5299	.01464787			52991.6	.01464787	
	CAPACITY, CFS	0	.16871	70.16895	3.60720	5.26267	0	79.03	.01153239	.01309013	0	79.03882	.01122449	.01293618
DESERT WATER AGENCY	QUANTITY, AF	0	76.9	38100.0	1643.6	0	0	3974	.01098587			39743.6	.01098587	
	CAPACITY, CFS	0	.12657	63.98093	2.70527	.25674	0	66.94	.00976751	.01037669	0	66.94294	.00950673	.01024630
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	46.6	23100.0	996.6	0	0	2409	.00666075			24096.6	.00666075	
	CAPACITY, CFS	0	.07670	38.78637	1.64032	.15736	0	40.58	.00592153	.00629114	0	40.58405	.00576344	.00621210
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	273.9	138400.0	3164.3	0	0	14156	.03913102			141564.3	.03913102	
	CAPACITY, CFS	0	.45082	191.16896	5.20822	14.33768	0	210.71	.03074497	.03493800	0	210.71486	.02992413	.03452758
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	4.6	2300.0	68.1	0	0	236	.00065459			2368.1	.00065459	
	CAPACITY, CFS	0	.00757	3.17694	.11208	.23827	0	3.52	.00051466	.00058462	0	3.52729	.00050092	.00057775
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	34.4	17300.0	476.0	0	0	1777	.00491362			17776.0	.00491362	
	CAPACITY, CFS	0	.05662	23.89612	.78348	1.79221	0	26.47	.00386245	.00438803	0	26.47181	.00375933	.00433647
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	40.0	20000.0	664.7	0	0	2066	.00571211			20664.7	.00571211	
	CAPACITY, CFS	0	.06584	27.62557	1.01134	2.10429	0	30.74	.00448538	.00509875	0	30.74120	.00436563	.00503887
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	83.0	41500.0	1379.1	0	0	4287	.01185259			42879.1	.01185259	
	CAPACITY, CFS	0	.13661	57.32306	2.09828	4.36641	0	63.78	.00930714	.01057986	0	63.78775	.00905865	.01045562
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	0	233.3	119600.0	965.2	0	0	12056	.03332648			120565.2	.03332648	
	CAPACITY, CFS	0	.38399	218.06521	1.58864	0	0	219.65	.03204924	.03268786	0	219.65385	.03119358	.03226003
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF	265800.0	1730.4	888200.0	6074.5	0	0	89427	.24719421			894274.5	.24719421	
	CAPACITY, CFS	793.03071	2.84812	2649.99955	9.99821	0	0	2659.90	.38811476	.31765449	0	2659.99776	.37775274	.31247348
TOTALS	QUANTITY, AF	265800.0	7000.0	3505300.0	112400.0	0	0	361770	1.00000000			3617700.0	1.00000000	
	CAPACITY, CFS	793.03071	11.52152	6463.50666	174.73417	215.39638	0	6853.63	1.00000000	1.00000000	188.00000	7041.63721	1.00000000	1.00000000
REACH 11B – LOST HILLS TO 7TH STANDARD ROAD														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	2441.9	2011500.0	82865.3	0	0	209436	.62613689			2094365.3	.62613689	
	CAPACITY, CFS	0	4.01920	2863.07637	126.67707	184.67814	0	3174.43	.52477880	.57545785	188.00000	3362.43158	.53910306	.58261998
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	125.5	102600.0	5004.9	0	0	10760	.03216984			107604.9	.03216984	
	CAPACITY, CFS	0	.20656	172.30098	8.03806	.76762	0	181.10	.02993951	.03105468	0	181.10666	.02903707	.03060345
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	35.2	28800.0	1404.8	0	0	3020	.00903011			30204.8	.00903011	
	CAPACITY, CFS	0	.05794	45.15128	2.25617	1.26003	0	48.66	.00804543	.00853777	0	48.66748	.00780292	.00841651
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	21.2	17300.0	844.0	0	0	1814	.00542438			18144.0	.00542438	
	CAPACITY, CFS	0	.03489	29.05110	1.35550	.12996	0	30.53	.00504813	.00523625	0	30.53656	.00489597	.00516017
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	7.1	5800.0	282.9	0	0	608	.00181856			6082.9	.00181856	
	CAPACITY, CFS	0	.01169	9.73527	.45436	.04500	0	10.23	.00169193	.00175524	0	10.23463	.00164093	.00172975
MOJAVE WATER AGENCY	QUANTITY, AF	0	61.7	50800.0	2089.1	0	0	5288	.01581186			52889.1	.01581186	
	CAPACITY, CFS	0	.10155	70.16895	3.43849	5.26267	0	78.87	.01303835	.01442511	0	78.87011	.01264535	.01422860
DESERT WATER AGENCY	QUANTITY, AF	0	46.2	38100.0	1566.7	0	0	3966	.01185886			39666.7	.01185886	
	CAPACITY, CFS	0	.07604	63.98093	2.57870	.25674	0	66.81	.01104570	.01145228	0	66.81637	.01071275	.01128581
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	28.0	23100.0	950.0	0	0	2405	.00719005			24050.0	.00719005	
	CAPACITY, CFS	0	.04609	38.78637	1.56362	.15736	0	40.50	.00669644	.00694325	0	40.50735	.00649460	.00684232
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	164.7	138400.0	2890.4	0	0	14129	.04224055			141290.4	.04224055	
	CAPACITY, CFS	0	.27109	191.16896	4.75740	14.33768	0	210.26	.03475964	.03850009	0	210.26404	.03371191	.03797623
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	2.8	2300.0	63.5	0	0	236	.00070660			2363.5	.00070660	
	CAPACITY, CFS	0	.00461	3.17694	.10453	.23827	0	3.51	.00058186	.00064423	0	3.51972	.00056432	.00063546
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	20.7	17300.0	441.6	0	0	1774	.00530407			17741.6	.00530407	
	CAPACITY, CFS	0	.03407	23.89612	.72686	1.79221	0	26.41	.00436681	.00483544	0	26.41519	.00423518	.00476963
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	24.0	20000.0	624.7	0	0	2062	.00616601			20624.7	.00616601	
	CAPACITY, CFS	0	.03950	27.62557	.94550	2.10429	0	30.67	.00507108	.00561854	0	30.67536	.00491822	.00554212
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	49.9	41500.0	1296.1	0	0	4279	.01279443			42796.1	.01279443	
	CAPACITY, CFS	0	.08213	57.32306	1.96167	4.36641	0	63.65	.01052244	.01165844	0	63.65114	.01020527	.01149985
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	0	140.3	119600.0	731.9	0	0	12033	.03597474			120331.9	.03597474	
	CAPACITY, CFS	0	.23092	218.06521	1.20465	0	0	219.26	.03624844	.03611159	0	219.26986	.03515582	.03556528
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF	126300.0	730.8	622400.0	4344.1	0	0	62674	.18737305			626744.1	.18737305	
	CAPACITY, CFS	376.82385	1.20285	1856.96884	7.15009	0	0	1864.11	.30816544	.24776924	0	1864.11893	.29887663	.24312484
TOTALS	QUANTITY, AF	126300.0	3900.0	3239500.0	105400.0	0	0	334490	1.00000000			3344900.0	1.00000000	
	CAPACITY, CFS	376.82385	6.41913	5670.47595	163.21265	215.39638	0	6049.08	1.00000000	1.00000000	188.00000	6237.08498	1.00000000	1.00000000

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)

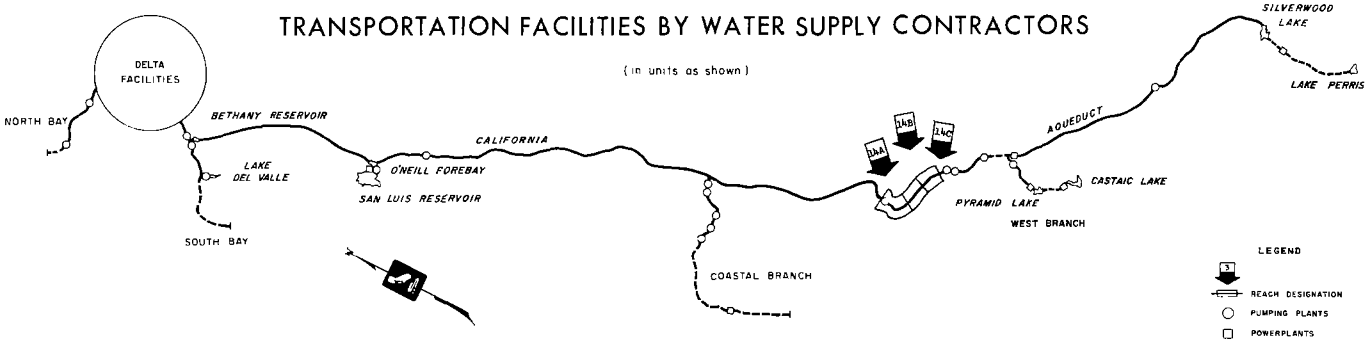


WATER SUPPLY CONTRACTOR	MEASURE OF USE (1)	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH (2)	ESTIMATED OPERATIONAL LOSSES WITHIN REACH (3)	CAPACITY PROVIDED IN REACH: FOR DELIVERY OF ENTITLEMENTS (4)	FOR COMPENSATION OF: OPERATIONAL LOSSES (5)	SCHEDULED OUTAGES (6)	DOWNSTREAM REGULATION (7)	SUBTOTAL (8)	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: RATIOS OF TOTAL REACH USE (9)	AVERAGE OF RATIOS (10)	CAPACITY PROVIDED IN REACH: FOR REQUESTED EXCESS PEAKING (11)	TOTAL FOR WATER SUPPLY CONTRACTORS (12)	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: RATIOS OF TOTAL REACH USE (13)	AVERAGE OF RATIOS (14)
REACH 12D – 7TH STANDARD ROAD THRU ELK HILLS ROAD														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF CAPACITY, CFS	0 0	4620.2 7.60453	2011500.0 2863.07637	80423.4 122.65787	0 184.67814	0 0	209192 3170.41	.65073674 .55956597	.60515136	188.00000	2091923.4 3358.41238	.65073674 .57371080	.61222377
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	237.4 .39074	102600.0 172.30098	4879.4 7.83150	0 .76762	0 0	10747 180.90	.03343373 .03192819	.03268096	0	107479.4 180.90010	.03343373 .03090280	.03216826
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	66.6 .10962	28800.0 45.15128	1369.6 2.19823	0 1.26003	0 0	3016 48.60	.00938489 .00857940	.00898215	0	30169.6 48.60954	.00938489 .00830387	.00884438
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	40.0 .06584	17300.0 29.05110	822.8 1.32061	0 .12996	0 0	1812 30.50	.00563748 .00538343	.00551045	0	18122.8 30.50167	.00563748 .00521054	.00542401
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	13.4 .02205	5800.0 9.73527	275.8 .44267	0 .04500	0 0	607 10.22	.00189001 .00180431	.00184716	0	6075.8 10.22294	.00189001 .00174636	.00181819
MOJAVE WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	116.7 .19208	50800.0 70.16895	2027.4 3.33694	0 5.26267	0 0	5282 78.76	.01643307 .01390236	.01516772	0	52827.4 78.76856	.01643307 .01345587	.01494447
DESERT WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	87.5 .14402	38100.0 63.98093	1520.5 2.50266	0 .25674	0 0	3962 66.74	.01232479 .01177942	.01205210	0	39620.5 66.74033	.01232479 .01140112	.01186295
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	53.1 .08740	23100.0 38.78637	922.0 1.51753	0 .15736	0 0	2402 40.46	.00747255 .00714126	.00730691	0	24022.0 40.46126	.00747255 .00691192	.00719223
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	311.7 .51304	138400.0 191.16896	2725.7 4.48631	0 14.33768	0 0	14112 209.99	.04390011 .03706297	.04048154	0	141125.7 209.99295	.04390011 .03587267	.03988639
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	5.2 .00856	2300.0 3.17694	60.7 .09990	0 .23827	0 0	236 3.51	.00073435 .00062041	.00067737	0	2360.7 3.51511	.00073435 .00060048	.00066741
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	39.1 .06436	17300.0 23.89612	420.9 .69279	0 1.74221	0 0	1772 26.39	.00551246 .00465617	.00508431	0	17720.9 26.38112	.00551246 .00450663	.00500955
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	45.5 .07489	20000.0 27.62557	600.7 .90600	0 2.10429	0 0	2060 30.63	.00640828 .00540712	.00590770	0	20600.7 30.63586	.00640828 .00523346	.00582087
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	94.4 .15538	41500.0 57.32306	1246.2 1.87954	0 4.36641	0 0	4274 63.56	.01329710 .01121969	.01225840	0	42746.2 63.56901	.01329710 .01085937	.01207824
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF CAPACITY, CFS	0 0	265.5 .43699	119600.0 218.06521	591.6 .97373	0 0	0 0	12019 219.03	.03738812 .03865956	.03802384	0	120191.6 219.03894	.03738812 .03741798	.03740305
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF CAPACITY, CFS	3700.0 11.03918	1103.7 1.81661	496100.0 1480.14499	3613.3 5.94724	0 0	0 0	49971 1486.09	.15544632 .26228974	.20886803	0	499713.3 1486.09223	.15544632 .25386613	.20465623
TOTALS	QUANTITY, AF CAPACITY, CFS	3700.0 11.03918	7100.0 11.68611	3113200.0 5293.65210	101500.0 156.79352	0 215.34638	0 0	321470 5665.84	1.00000000 1.00000000	1.00000000	188.00000	3214700.0 5853.84200	1.00000000 1.00000000	1.00000000
REACH 12E – ELK HILLS ROAD THRU TUPMAN ROAD														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF CAPACITY, CFS	0 0	2149.9 3.53859	2011500.0 2863.07637	75803.2 115.05334	0 184.67814	0 0	208730 3162.80	.65148825 .56047181	.60598003	188.00000	2087303.2 3350.80785	.65148825 .57464256	.61306541
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	110.5 .18188	102600.0 172.30098	4642.0 7.44076	0 .76762	0 0	10724 180.50	.03347233 .03198753	.03272993	0	107242.0 180.50936	.03347233 .03095623	.03221428
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	31.0 .05102	28800.0 45.15128	1303.0 2.08861	0 1.26003	0 0	3010 48.49	.00939574 .00859453	.00899513	0	30103.0 48.49992	.00939574 .00831743	.00885658
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	18.6 .03061	17300.0 29.05110	782.8 1.25477	0 .12996	0 0	1808 30.43	.00564400 .00539344	.00551872	0	18082.8 30.43583	.00564400 .00521955	.00543177
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	6.3 .01037	5800.0 9.73527	262.4 .42062	0 .04500	0 0	606 10.20	.00189219 .00180767	.00184993	0	6062.4 10.20089	.00189219 .00174939	.00182079
MOJAVE WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	54.3 .08937	50800.0 70.16895	1910.7 3.14486	0 5.26267	0 0	5271 78.57	.01645204 .01392431	.01518817	0	52710.7 78.57648	.01645204 .01347538	.01496371
DESERT WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	40.7 .06699	38100.0 63.98093	1433.0 2.35864	0 .25674	0 0	3953 66.59	.01233902 .01180133	.01207018	0	39533.0 66.59631	.01233902 .01142085	.01187994
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	24.7 .04065	23100.0 38.78637	868.9 1.43013	0 .15736	0 0	2396 40.37	.00748116 .00715453	.00731785	0	23968.9 40.37386	.00748116 .00692386	.00720251
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	145.0 .23866	138400.0 191.16896	2414.0 3.97327	0 14.33768	0 0	14081 209.47	.04395081 .03712131	.04053606	0	140814.0 209.47991	.04395081 .03592449	.03993765
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	2.4 .00395	2300.0 3.17694	55.5 .09134	0 .23827	0 0	235 3.50	.00073520 .00062139	.00067829	0	2355.5 3.50655	.00073520 .00060135	.00066827
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	18.2 .02996	17300.0 23.89612	381.8 .62843	0 1.79221	0 0	1768 26.31	.00551884 .00466352	.00509118	0	17681.8 26.31676	.00551884 .00451316	.00501600
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	21.2 .03489	20000.0 27.62557	555.2 .83111	0 2.10429	0 0	2055 30.56	.00641568 .00541562	.00591565	0	20555.2 30.56097	.00641568 .00524102	.00582835
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	43.4 .07226	41500.0 57.32306	1151.8 1.72416	0 4.36641	0 0	4265 63.41	.01331246 .01123734	.01227490	0	42651.8 63.41363	.01331246 .01087504	.01209375
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF CAPACITY, CFS	77400.0 141.12247	123.5 .20327	119600.0 218.06521	326.1 .53674	0 0	0 0	11992 218.60	.03743129 .03873780	.03808455	0	119926.1 218.60195	.03743129 .03748887	.03746008
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF CAPACITY, CFS	130800.0 390.24988	509.8 .83910	492400.0 1469.10581	2509.6 4.13063	0 0	0 0	49490 1473.23	.15447099 .26106787	.20776943	0	494909.6 1473.23644	.15447099 .25265082	.20356091
TOTALS	QUANTITY, AF CAPACITY, CFS	208200.0 531.37235	3300.0 5.43157	3109500.0 5282.61292	94400.0 145.10741	0 215.39638	0 0	320390 5643.11	1.00000000 1.00000000	1.00000000	188.00000	3203900.0 5831.11671	1.00000000 1.00000000	1.00000000
REACH 13B – TUPMAN ROAD TO BUENA VISTA PUMPING PLANT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF CAPACITY, CFS	0 0	4250.6 6.99620	2011500.0 2863.07637	73653.3 111.51475	0 184.67814	0 0	208515 3159.26	.69681637 .61869873	.65775755	188.00000	2085153.3 3347.26926	.69681637 .63223867	.66452752
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	218.4 .35947	102600.0 172.30098	4531.5 7.25888	0 .76762	0 0	10713 180.32	.03580120 .03531462	.03555791	0	107131.5 180.32748	.03580120 .03406060	.03493090
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	61.3 .10090	28800.0 45.15128	1272.0 2.03759	0 1.26003	0 0	3007 48.44	.01004946 .00948804	.00976875	0	30072.0 48.44890	.01004946 .00915112	.00960029
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	36.8 .06057	17300.0 29.05110	764.2 1.22416	0 .12996	0 0	1806 30.40	.00603669 .00595444	.00599557	0	18064.2 30.40522	.00603669 .00574300	.00588984
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	12.3 .02025	5800.0 9.73527	256.1 .41025	0 .04500	0 0	605 10.19	.00202383 .00199567	.00200975	0	6056.1 10.19052	.00202383 .00192480	.00197432
MOJAVE WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	107.3 .17661	50800.0 70.16895	1856.4 3.05549	0 5.26267	0 0	5265 78.48	.01759671 .01537060	.01648366	0	52656.4 78.48711	.01759671 .01482480	.01621075
DESERT WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	80.5 .13250	38100.0 63.98093	1392.3 2.29165	0 .25674	0 0	3949 66.52	.01319753 .01302884	.01311319	0	39492.3 66.52932	.01319753 .01256619	.01288186
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	48.8 .08032	23100.0 38.78637	844.2 1.38948	0 .15736	0 0	2394 40.33	.00800167 .00789870	.00795018	0	23944.2 40.33321	.00800167 .00761821	.00780994
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	286.8 .47205	138400.0 191.16896	2269.0 3.73461	0 14.33768	0 0	14066 209.24	.04700876 .04097697	.04399286	0	140669.0 209.24125	.04700876 .03952189	.04326532
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	4.8 .00790	2300.0 3.17694	53.1 .08739	0 .23827	0 0	235 3.50	.00078636 .00068593	.00073615	0	2353.1 3.50260	.00078636 .00066158	.00072397
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	36.0 .05925	17300.0 23.89612	363.6 .59847	0 1.79221	0 0	1766 26.28	.00590282 .00514790	.00552536	0	17663.6 26.28680	.00590282 .00496510	.00543396
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	41.9 .06896	20000.0 27.62557	534.0 .79622	0 2.10429	0 0	2053 30.52	.00686205 .00597811	.00642008	0	20534.0 30.52608	.00686205 .00576582	.00631394
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	86.9 .14303	41500.0 57.32306	1107.9 1.65190	0 4.36641	0 0	4260 63.34	.01423870 .01240452	.01332161	0	42607.9 63.34137	.01423870 .01196404	.01310137
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF CAPACITY, CFS	25200.0 45.94685	86.4 .14221	42200.0 76.94274	202.6 .33347	0 0	0 0	4240 77.27	.01417010 .01513347	.01465178	0	42402.6 77.27621	.01417010 .01459608	.01438309
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF CAPACITY, CFS	86800.0 258.97316	741.2 1.21996	361600.0 1078.85593	1999.8 3.29153	0 0	0 0	36359 1082.14	.12150775 .21192346	.16671560	0	363599.8 1082.14746	.12150775 .20439810	.16295293
TOTALS	QUANTITY, AF CAPACITY, CFS	112000.0 304.92001	6100.0 10.04018	2901300.0 4751.24057	91100.0 139.67584	0 215.39638	0 0	299240 5106.31	1.00000000 1.00000000	1.00000000	188.00000	2992400.0 5294.31279	1.00000000 1.00000000	1.00000000

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)



REACH 14A – BUENA VISTA PUMPING PLANT THRU SANTIAGO CREEK

WATER SUPPLY CONTRACTOR	MEASURE OF USE (1)	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH (2)	ESTIMATED OPERATIONAL LOSSES WITHIN REACH (3)	CAPACITY PROVIDED IN REACH: FOR DELIVERY OF ENTITLEMENTS (4)	FOR COMPENSATION OF: OPERATIONAL LOSSES (5)	SCHEDULED OUTAGES (6)	DOWNSTREAM REGULATION (7)	SUBTOTAL (8)	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: RATIOS OF TOTAL REACH USE (9)	AVERAGE OF RATIOS (10)	CAPACITY PROVIDED IN REACH: FOR REQUESTED EXCESS PEAKING (11)	TOTAL FOR WATER SUPPLY CONTRACTORS (12)	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: RATIOS OF TOTAL REACH USE (13)	AVERAGE OF RATIOS (14)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF CAPACITY, CFS	0 0	3909.4 6.43461	2011500.0 2863.07637	69402.7 104.51855	0 184.67814	0 0	208090 3152.27	.72396851 .65790880	.69093866	188.00000	2080902.7 3340.27306	.72396851 .67082477	.69739664
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	200.9 .33067	102600.0 172.30098	4313.1 6.89941	0 .76762	0 0	10691 179.96	.03719622 .03756100	.03737861	0	106913.1 179.96801	.03719622 .03614285	.03666954
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	56.4 .09283	28800.0 45.15128	1210.7 1.93669	0 1.26003	0 0	3001 48.34	.01044105 .01009068	.01026586	0	30010.7 48.34800	.01044105 .00970970	.01007537
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	33.9 .05580	17300.0 29.05110	727.4 1.16359	0 .12996	0 0	1802 30.34	.00627193 .00633321	.00630257	0	18027.4 30.34465	.00627193 .00609410	.00618301
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	11.4 .01876	5800.0 9.73527	243.8 .39000	0 .04500	0 0	604 10.17	.00210270 .00212263	.00211267	0	6043.8 10.17027	.00210270 .00204249	.00207260
MOJAVE WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	98.7 .16245	50800.0 70.16895	1749.1 2.87888	0 5.26267	0 0	5254 78.31	.01828240 .01634413	.01731327	0	52549.1 78.31050	.01828240 .01572704	.01700472
DESERT WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	74.0 .12180	38100.0 63.98093	1311.8 2.15915	0 .25674	0 0	3941 66.39	.01371179 .01385764	.01378471	0	39411.8 66.39682	.01371179 .01333443	.01352311
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	44.9 .07390	23100.0 38.78637	795.4 1.30916	0 .15736	0 0	2389 40.25	.00831347 .00840115	.00835731	0	23895.4 40.25289	.00831347 .00808396	.00819871
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	263.7 .43403	138400.0 191.16896	1982.2 3.26256	0 14.33768	0 0	14038 208.76	.04884048 .04357208	.04620628	0	140382.2 208.76920	.04884048 .04192698	.04538373
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	4.4 .00724	2300.0 3.17694	48.3 .07949	0 .23827	0 0	234 3.49	.00081700 .00072938	.00077319	0	2348.3 3.49470	.00081700 .00070184	.00075942
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	33.1 .05448	17300.0 23.89612	327.6 .53922	0 1.79221	0 0	1762 26.22	.00613283 .00547394	.00580338	0	17627.6 26.22755	.00613283 .00526726	.00570005
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	38.5 .06337	20000.0 27.62557	492.1 .72726	0 2.10429	0 0	2049 30.45	.00712942 .00635669	.00674305	0	20492.1 30.45712	.00712942 .00611668	.00662305
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	79.9 .13151	41500.0 57.32306	1021.0 1.50887	0 4.36641	0 0	4252 63.19	.01479352 .01319008	.01399180	0	42521.0 63.19834	.01479352 .01269208	.01374280
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF CAPACITY, CFS	0 0	32.2 .05300	17000.0 30.99589	116.2 .19126	0 0	0 0	1711 31.19	.00595491 .00650905	.00623198	0	17116.2 31.18715	.00595491 .00626329	.00610910
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF CAPACITY, CFS	37500.0 111.88357	518.6 .85358	274800.0 819.88277	1258.6 2.07157	0 0	0 0	27605 821.95	.09604377 .17154954	.13379666	0	276058.6 821.95434	.09604377 .16507253	.13055815
TOTALS	QUANTITY, AF CAPACITY, CFS	37500.0 111.88357	5400.0 8.88803	2789300.0 4446.32056	85000.0 129.63566	0 215.34638	0 0	287430 4791.35	1.00000000 1.00000000	1.00000000	188.00000	2874300.0 4979.35260	1.00000000 1.00000000	1.00000000

REACH 14B – SANTIAGO CREEK THRU OLD RIVER ROAD

WATER SUPPLY CONTRACTOR	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF CAPACITY, CFS	0 0	2787.5 4.58803	2011500.0 2863.07637	65493.3 98.08394	0 184.67814	0 0	207699 3145.83	.73355700 .67354328	.70355014	188.00000	2076993.3 3333.83845	.73355700 .68617534	.70986617
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	143.2 .23570	102600.0 172.30098	4112.2 6.56874	0 .76762	0 0	10671 179.63	.03768885 .03846145	.03807515	0	106712.2 179.63734	.03768885 .03697321	.03733103
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	40.2 .06617	28800.0 45.15128	1154.3 1.84386	0 1.26003	0 0	2995 48.25	.01057933 .01033173	.01045553	0	29954.3 48.25517	.01057933 .00993195	.01025564
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	24.1 .03967	17300.0 29.05110	693.5 1.10779	0 .12996	0 0	1799 30.28	.00635498 .00648503	.00642000	0	17993.5 30.28885	.00635498 .00623409	.00629454
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	8.1 .01333	5800.0 9.73527	232.4 .37124	0 .04500	0 0	603 10.15	.00213054 .00217350	.00215202	0	6032.4 10.15151	.00213054 .00208940	.00210997
MOJAVE WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	70.4 .11587	50800.0 70.16895	1650.4 2.71643	0 5.26267	0 0	5245 78.14	.01852455 .01673198	.01762826	0	52450.4 78.14805	.01852455 .01608454	.01730454
DESERT WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	52.8 .08691	38100.0 63.98093	1237.8 2.03735	0 .25674	0 0	3933 66.27	.01389341 .01418929	.01404165	0	39337.8 66.27502	.01389341 .01364082	.01376711
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	32.0 .05267	23100.0 38.78637	750.5 1.23526	0 .15736	0 0	2385 40.17	.00842357 .00860257	.00851307	0	23850.5 40.17899	.00842357 .00826970	.00834663
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	188.1 .30960	138400.0 191.16896	1718.5 2.82853	0 14.33768	0 0	14011 208.33	.04948736 .04460584	.04704660	0	140118.5 208.33517	.04948736 .04287084	.04618360
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	3.1 .00510	2300.0 3.17694	43.9 .07225	0 .23827	0 0	234 3.48	.00082782 .00074669	.00078725	0	2343.9 3.48746	.00082782 .00071779	.00077281
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	23.6 .03884	17300.0 23.89612	294.5 .48474	0 1.79221	0 0	1759 26.17	.00621406 .00560381	.00590894	0	17594.5 26.17307	.00621406 .00538698	.00580052
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	27.5 .04526	20000.0 27.62557	453.6 .66389	0 2.10429	0 0	2045 30.39	.00722385 .00650749	.00686567	0	20453.6 30.39375	.00722385 .00625568	.00673977
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	57.0 .09382	41500.0 57.32306	941.1 1.37736	0 4.36641	0 0	4244 63.06	.01498944 .01350299	.01424622	0	42441.1 63.06683	.01498944 .01298050	.01398497
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF CAPACITY, CFS	0 0	22.9 .03769	17000.0 30.99589	84.0 .13826	0 0	0 0	1708 31.13	.00603376 .00666601	.00634989	0	17084.0 31.13415	.00603376 .00640808	.00622092
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF CAPACITY, CFS	60700.0 181.10220	319.5 .52588	237300.0 707.99920	740.0 1.21799	0 0	0 0	23804 709.21	.08407148 .15184774	.11795961	0	238040.0 709.21719	.08407148 .14597208	.11502178
TOTALS	QUANTITY, AF CAPACITY, CFS	60700.0 181.10220	3800.0 6.25454	2751800.0 4334.43699	79600.0 120.74763	0 215.39638	0 0	283140 4670.58	1.00000000 1.00000000	1.00000000	188.00000	2831400.0 4858.58100	1.00000000 1.00000000	1.00000000

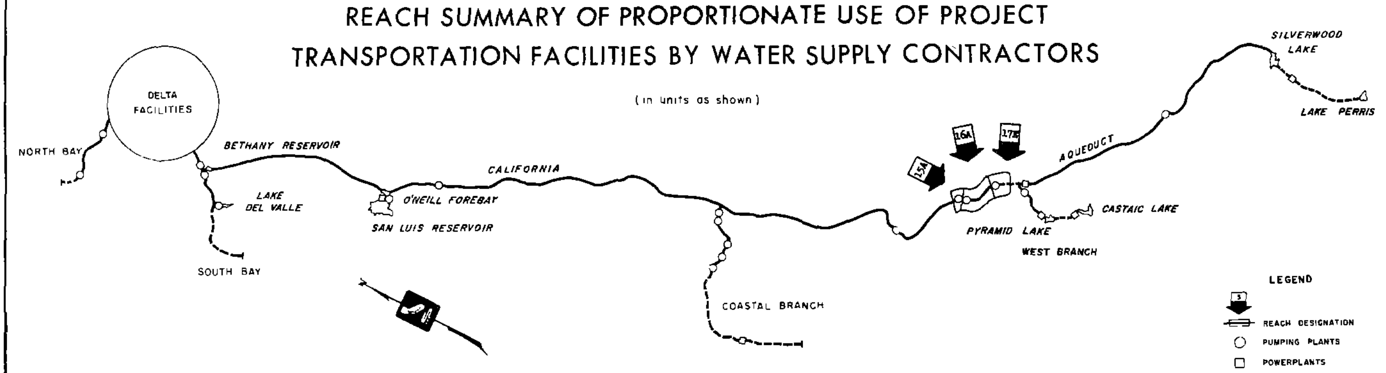
REACH 14C – OLD RIVER ROAD TO WHEELER RIDGE PUMPING PLANT

WATER SUPPLY CONTRACTOR	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF CAPACITY, CFS	0 0	2698.7 4.44188	2011500.0 2863.07637	62705.8 93.49591	0 184.67814	0 0	207420 3141.25	.74964972 .70066770	.72515871	188.00000	2074205.8 3329.25042	.74964972 .71271475	.73118223
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	138.7 .22829	102600.0 172.30098	3969.0 6.33304	0 .76762	0 0	10656 179.40	.03851567 .04001621	.03926594	0	106569.0 179.40164	.03851567 .03840570	.03846068
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	38.9 .06403	28800.0 45.15128	1114.1 1.77769	0 1.26003	0 0	2991 48.18	.01081141 .01074874	.01078008	0	29914.1 48.18900	.01081141 .01031614	.01056378
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	23.4 .03851	17300.0 29.05110	669.4 1.06812	0 .12996	0 0	1796 30.24	.00649442 .00674719	.00662080	0	17969.4 30.24918	.00649442 .00647564	.00648503
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	7.8 .01284	5800.0 9.73527	224.3 .35791	0 .04500	0 0	602 10.13	.00217727 .00226136	.00221932	0	6024.3 10.13818	.00217727 .00217035	.00217381
MOJAVE WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	68.2 .11225	50800.0 70.16895	1580.0 2.60056	0 5.26267	0 0	5238 78.03	.01893093 .01740537	.01816815	0	52380.0 78.03218	.01893093 .01670487	.01781790
DESERT WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	51.1 .08411	38100.0 63.98093	1185.0 1.95044	0 .25674	0 0	3928 66.18	.01419820 .01476351	.01448085	0	39285.0 66.18811	.01419820 .01416933	.01418377
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	31.0 .05102	23100.0 38.78637	718.5 1.18259	0 .15736	0 0	2381 40.12	.00860837 .00895033	.00877935	0	23818.5 40.12632	.00860837 .00859011	.00859924
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	182.1 .29972	138400.0 191.16896	1530.4 2.51893	0 14.33768	0 0	13993 208.02	.05057299 .04640088	.04848694	0	139930.4 208.02557	.05057299 .04453341	.04755320
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	3.0 .00494	2300.0 3.17694	40.8 .06715	0 .23827	0 0	234 3.48	.00084600 .00077675	.00081138	0	2340.8 3.48236	.00084600 .00074549	.00079575
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	22.9 .03769	17300.0 23.89612	270.9 .44590	0 1.79221	0 0	1757 26.13	.00635039 .00582934	.00608987	0	17570.9 26.13423	.00635039 .00559473	.00597256
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	26.6 .04378	20000.0 27.62557	426.1 .61863	0 2.10429	0 0	2042 30.34	.00738231 .00676934	.00707582	0	20426.1 30.34849	.00738231 .00649690	.00693960
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF CAPACITY, CFS	0 0	55.1 .09069	41500.0 57.32306	884.1 1.28354	0 4.36641	0 0	4238 62.97	.01531826 .01404637	.01468231	0	42384.1 62.97301	.01531826 .01348105	.01439966
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF CAPACITY, CFS	0 0	22.2 .03654	17000.0 30.99589	61.1 .10057	0 0	0 0	1706 31.09	.00616614 .00693618	.00655116	0	17061.1 31.09646	.00616614 .00665703	.00641158
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF CAPACITY, CFS	32500.0 96.96576	230.3 .37906	176600.0 526.89700	420.5 .69211	0 0	0 0	17702 527.58	.06397792 .11768073	.09082932	0	177020.5 527.58911	.06397792 .11294450	.08846121
TOTALS	QUANTITY, AF CAPACITY, CFS	32500.0 96.96576	3600.0 5.92535	2691100.0 4153.33479	75800.0 114.49309	0 215.39638	0 0	276690 4483.22	1.00000000 1.00000000	1.00000000	188.00000	2766900.0 4671.22426	1.00000000 1.00000000	1.00000000

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)

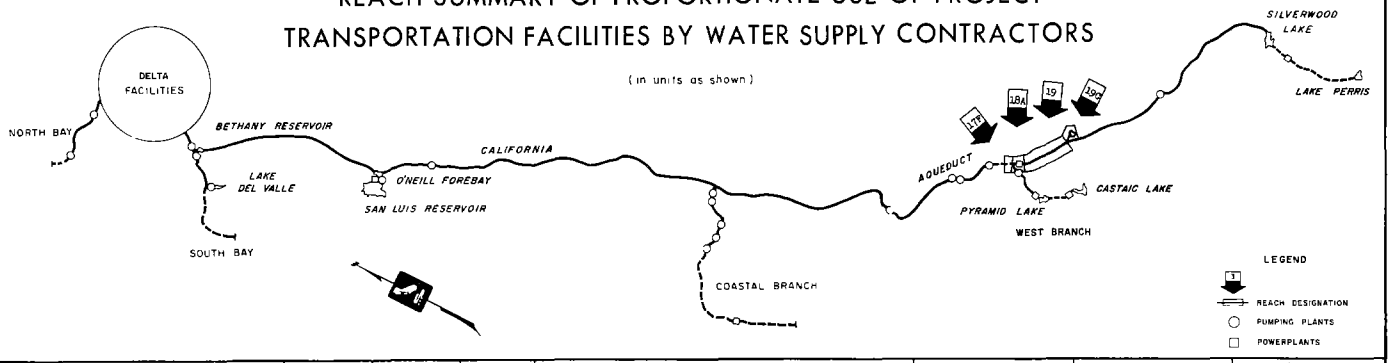


WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH: FOR DELIVERY OF ENTITLEMENTS	CAPACITY PROVIDED IN REACH: FOR COMPENSATION OF OPERATIONAL LOSSES	CAPACITY PROVIDED IN REACH: FOR COMPENSATION OF SCHEDULED OUTAGES	CAPACITY PROVIDED IN REACH: FOR COMPENSATION OF DOWNSTREAM REGULATION	CAPACITY PROVIDED IN REACH: SUBTOTAL	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: RATIOS OF TOTAL REACH USE	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: AVERAGE OF RATIOS	CAPACITY PROVIDED IN REACH: FOR REQUESTED EXCESS PEAKING	CAPACITY PROVIDED IN REACH: TOTAL FOR WATER SUPPLY CONTRACTORS	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: RATIOS OF TOTAL REACH USE	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: AVERAGE OF RATIOS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REACH 15A – WHEELER RIDGE PUMPING PLANT TO WIND GAP PUMPING PLANT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	606.8	2011500.0	60007.1	0	0	207150	.75857152			2071507.1	.75857152	
	CAPACITY, CFS	0	.99875	2863.07637	89.05403	184.67814	0	3136.80	.71611186	.73734169	188.00000	3324.80854	.72779467	.74518310
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	31.2	102600.0	3830.3	0	0	10643	.03897404			106430.3	.03897404	
	CAPACITY, CFS	0	.05135	172.30098	6.10475	.76762	0	179.17	.04090405	.03993904	0	179.17335	.03922073	.03909738
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	8.7	28800.0	1075.2	0	0	2487	.01094009			29875.2	.01094009	
	CAPACITY, CFS	0	.01432	45.15128	1.71366	1.26003	0	48.12	.01098660	.01096335	0	48.12497	.01053447	.01073728
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	5.3	17300.0	646.0	0	0	1794	.00657170			17946.0	.00657170	
	CAPACITY, CFS	0	.00873	29.05110	1.02961	.12996	0	30.21	.00689689	.00673429	0	30.21067	.00661306	.00659238
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	1.8	5800.0	216.5	0	0	601	.00220320			6016.5	.00220320	
	CAPACITY, CFS	0	.00296	9.73527	.34507	.04500	0	10.12	.00231154	.00225737	0.	10.12534	.00221642	.00220981
MOJAVE WATER AGENCY	QUANTITY, AF	0	15.3	50800.0	1511.8	0	0	5231	.01915622			52311.8	.01915622	
	CAPACITY, CFS	0	.02518	70.16895	2.48831	5.26267	0	77.91	.01778858	.01847240	0	77.91993	.01705653	.01810638
DESERT WATER AGENCY	QUANTITY, AF	0	11.5	38100.0	1133.9	0	0	3923	.01436718			39233.9	.01436718	
	CAPACITY, CFS	0	.01893	63.98093	1.86633	.25674	0	66.10	.01509109	.01472914	0	66.10400	.01447005	.01441862
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	7.0	23100.0	687.5	0	0	2378	.00871082			23787.5	.00871082	
	CAPACITY, CFS	0	.01152	38.78637	1.13157	.15736	0	40.07	.00914892	.00892987	0	40.07530	.00877241	.00874161
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	40.9	138400.0	1348.3	0	0	13974	.05117486			139748.3	.05117486	
	CAPACITY, CFS	0	.06732	191.16896	2.21921	14.33768	0	207.72	.04742239	.04929862	0	207.72585	.04547082	.04832284
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	.7	2300.0	37.8	0	0	233	.00085609			2337.8	.00085609	
	CAPACITY, CFS	0	.00115	3.17694	.06721	.23827	0	3.47	.00079387	.00082498	0	3.47742	.00076120	.00080864
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	5.1	17300.0	248.0	0	0	1754	.00642595			17548.0	.00642595	
	CAPACITY, CFS	0	.00840	23.89612	.40821	1.74221	0	26.09	.00595766	.00619181	0	26.09654	.00571249	.00606922
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	6.0	20000.0	399.5	0	0	2039	.00747015			20399.5	.00747015	
	CAPACITY, CFS	0	.00988	27.62557	.57485	2.10429	0	30.30	.00691836	.00719426	0	30.30471	.00663365	.00705190
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	12.4	41500.0	829.0	0	0	4232	.01550058			42329.0	.01550058	
	CAPACITY, CFS	0	.02041	57.32306	1.19285	4.36641	0	62.88	.01435560	.01492809	0	62.88232	.01376483	.01463271
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	0	5.0	17000.0	38.9	0	0	1703	.00623953			17038.9	.00623953	
	CAPACITY, CFS	0	.00823	30.99589	.06403	0	0	31.05	.00709077	.00666515	0	31.05992	.00679896	.00651924
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF	70000.0	42.3	144100.0	190.2	0	0	14429	.05283807			144290.2	.05283807	
	CAPACITY, CFS	208.84932	.06962	429.93124	.31305	0	0	430.24	.09822182	.07552994	0	430.24429	.09417971	.07350889
TOTALS	QUANTITY, AF	70000.0	800.0	2658600.0	72200.0	0	0	273080	1.00000000			2730800.0	1.00000000	
	CAPACITY, CFS	208.84932	1.31675	4056.36903	108.56774	215.39638	0	4380.33	1.00000000	1.00000000	188.00000	4568.33315	1.00000000	1.00000000
REACH 16A – WIND GAP PUMPING PLANT TO A D EDMONSTON PUMPING PLANT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	4126.2	2011500.0	59400.3	0	0	207090	.77853395			2070900.3	.77853395	
	CAPACITY, CFS	0	6.79144	2863.07637	88.05528	184.67814	0	3135.80	.75196263	.76524829	188.00000	3323.80979	.76266231	.77059813
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	212.0	102600.0	3799.1	0	0	10639	.03999966			106399.1	.03999966	
	CAPACITY, CFS	0	.34894	172.30098	6.05340	.76762	0	179.12	.04295320	.04147643	0	179.12200	.04110031	.04054998
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	59.5	28800.0	1066.5	0	0	2986	.01122801			29866.5	.01122801	
	CAPACITY, CFS	0	.09793	45.15128	1.69934	1.26003	0	48.11	.01153686	.01138243	0	48.11065	.01103919	.01113360
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	35.7	17300.0	640.7	0	0	1794	.00674462			17940.7	.00674462	
	CAPACITY, CFS	0	.05876	29.05110	1.02088	.12996	0	30.20	.00724238	.00699350	0	30.20194	.00692996	.00683729
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	12.0	5800.0	214.7	0	0	601	.00226117			6014.7	.00226117	
	CAPACITY, CFS	0	.01975	9.73527	.34211	.04500	0	10.12	.00242733	.00234425	0	10.12238	.00232262	.00229189
MOJAVE WATER AGENCY	QUANTITY, AF	0	104.2	50800.0	1496.5	0	0	5229	.01966034			52296.5	.01966034	
	CAPACITY, CFS	0	.17151	70.16895	2.46313	5.26267	0	77.89	.01867905	.01916969	0	77.89475	.01787328	.01876681
DESERT WATER AGENCY	QUANTITY, AF	0	78.2	38100.0	1122.4	0	0	3922	.01474526			39222.4	.01474526	
	CAPACITY, CFS	0	.12871	63.98093	1.84740	.25674	0	66.08	.01584710	.01529618	0	66.08507	.01516350	.01495438
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	47.4	23100.0	680.5	0	0	2378	.00894004			23780.5	.00894004	
	CAPACITY, CFS	0	.07802	38.78637	1.12005	.15736	0	40.06	.00960724	.00927364	0	40.06378	.00919281	.00906642
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	278.4	138400.0	1307.4	0	0	13970	.05252158			139707.4	.05252158	
	CAPACITY, CFS	0	.45823	191.16896	2.15189	14.33768	0	207.65	.04979621	.05115890	0	207.65853	.04764813	.05008486
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	4.7	2300.0	37.1	0	0	233	.00087861			2337.1	.00087861	
	CAPACITY, CFS	0	.00774	3.17694	.06106	.23827	0	3.47	.00083360	.00085611	0	3.47627	.00079765	.00083813
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	35.0	17300.0	242.9	0	0	1754	.00659507			17542.9	.00659507	
	CAPACITY, CFS	0	.05761	23.89612	.39981	1.74221	0	26.08	.00625590	.00642549	0	26.08814	.00598604	.00629056
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	40.6	20000.0	393.5	0	0	2039	.00766673			20393.5	.00766673	
	CAPACITY, CFS	0	.06682	27.62557	.56497	2.10429	0	30.29	.00726466	.00746569	0	30.29483	.00695128	.00730900
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	84.3	41500.0	816.6	0	0	4231	.01590850			42316.6	.01590850	
	CAPACITY, CFS	0	.13875	57.32306	1.17244	4.36641	0	62.86	.01507419	.01549134	0	62.86191	.01442393	.01516622
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	12000.0	33.9	17000.0	33.9	0	0	1703	.00640372			17033.9	.00640372	
	CAPACITY, CFS	21.87945	.05580	30.99589	.05580	0	0	31.05	.00744615	.00692494	0	31.05169	.00712494	.00676433
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF	74100.0	147.9	74100.0	147.9	0	0	7424	.02791274			74247.9	.02791274	
	CAPACITY, CFS	221.08192	.24343	221.08192	.24343	0	0	221.32	.05307350	.04049312	0	221.32535	.05078405	.03934840
TOTALS	QUANTITY, AF	86100.0	5300.0	2588600.0	71400.0	0	0	266000	1.00000000			2660000.0	1.00000000	
	CAPACITY, CFS	242.96137	8.72344	3847.51971	107.25099	215.39638	0	4170.16	1.00000000	1.00000000	188.00000	4358.16708	1.00000000	1.00000000
REACH 17E – A D EDMONSTON PUMPING PLANT TO CARLEY V PORTER TUNNEL														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	0	2011500.0	55274.1	0	0	206677	.80463058			2066774.1	.80463058	
	CAPACITY, CFS	0	0	2863.07637	81.26384	184.67814	0	3129.01	.79852814	.80157936	188.00000	3317.01835	.80775178	.80619118
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	0	102600.0	3587.1	0	0	10618	.04134046			106187.1	.04134046	
	CAPACITY, CFS	0	0	172.30098	5.70446	.76762	0	178.77	.04562304	.04348175	0	178.77306	.04353436	.04243741
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	0	28800.0	1007.0	0	0	2980	.01160438			29807.0	.01160438	
	CAPACITY, CFS	0	0	45.15128	1.60141	1.26003	0	48.01	.01225289	.01192863	0	48.01272	.01169193	.01164815
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	0	17300.0	605.0	0	0	1790	.00697072			17905.0	.00697072	
	CAPACITY, CFS	0	0	29.05110	.96212	.12996	0	30.14	.00769257	.00733164	0	30.14318	.00734039	.00715556
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	0	5800.0	202.7	0	0	600	.00233695			6002.7	.00233695	
	CAPACITY, CFS	0	0	9.73527	.32236	.04500	0	10.10	.00257820	.00245758	0	10.10263	.00246017	.00239856
MOJAVE WATER AGENCY	QUANTITY, AF	0	0	50800.0	1392.3	0	0	5219	.02031936			52192.3	.02031936	
	CAPACITY, CFS	0	0	70.16895	2.29162	5.26267	0	77.72	.01983504	.02007720	0	77.72324	.01892696	.01962316
DESERT WATER AGENCY	QUANTITY, AF	0	0	38100.0	1044.2	0	0	3914	.01523951			39144.2	.01523951	
	CAPACITY, CFS	0	0	63.98093	1.71869	.25674	0	65.95	.01683212	.01603581	0	65.95636	.01606152	.01565051
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	0	23100.0	633.1	0	0	2373	.00923970			23733.1	.00923970	
	CAPACITY, CFS	0	0	38.78637	1.04203	.15736	0	39.98	.01020440	.00972205	0	39.98576	.00973723	.00948847
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	0	138400.0	1029.0	0	0	13942	.05428210			139429.0	.05428210	
	CAPACITY, CFS	0	0	191.16896	1.69366	14.33768	0	207.20	.05287769	.05357990	0	207.20030	.05045688	.05236949
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	0	2300.0	32.4	0	0	233	.00090804			2332.4	.00090804	
	CAPACITY, CFS	0	0	3.17694	.05332	.23827	0	3.46	.00088517	.00089661	0	3.46853	.00084465	.00087634
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	0	17300.0	207.9	0	0	1750	.00681612			17507.9	.00681612	
	CAPACITY, CFS	0	0	23.89612	.34220	1.79221	0	26.03	.00664301	.00672957	0	26.03053	.00633889	.00657751
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	0	20000.0	352.9	0	0	2035	.00792373			20352.9	.00792373	
	CAPACITY, CFS	0	0	27.62557	.49815	2.10429	0	30.22	.00771421	.00781897	0	30.22801	.00736105	.00764239
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	0	41500.0	732.3	0	0	4223	.01644176			42232.3	.01644176	
	CAPACITY, CFS	0	0	57.32306	1.03369	4.36641	0	62.72	.01600700	.01622438	0	62.72316	.01527418	.01585797
KERN COUNTY WATER AGENCY MUNICIPAL AND INDUSTRIAL	QUANTITY, AF	5000.0	0	5000.0	0	0	0	500	.00194659			5000.0	.00194659	
	CAPACITY, CFS	9.11644	0	9.11644	0	0	0	9.11	.00232652	.00213655	0	9.11644	.00222001	.00208330
TOTALS	QUANTITY, AF	5000.0	0	2502500.0	66100.0	0	0	256860	1.00000000			2568600.0	1.00000000	
	CAPACITY, CFS	9.11644	0	3604.55834	98.52755	215.39638	0	3918.48	1.00000000	1.00000000	188.00000	4106.48227	1.00000000	1.00000000

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)

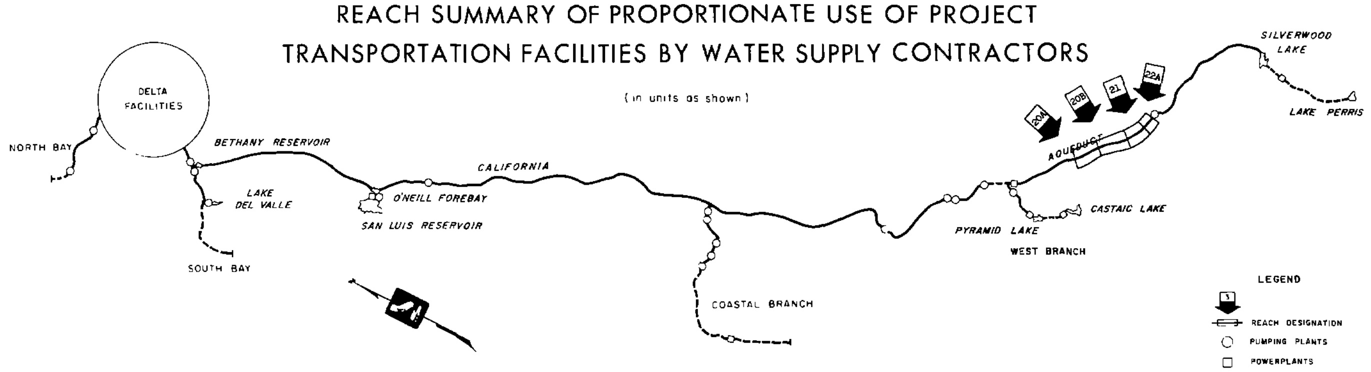


WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH					PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MIN MUM OM&R COSTS	
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REACH 17F – CARLEY V PORTER TUNNEL TO JUNCTION, WEST BRANCH, CALIFORNIA AQUEDUCT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	80.6	2011560.0	55278.1	0	0	2066677	.80619901			2066778.1	.80619901	
	CAPACITY, CFS	0	.13266	2863.37637	81.26384	184.67814	0	3129.81	.80039026	.80329509	188.00000	3317.01835	.80954899	.80787445
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	4.2	102600.0	3587.1	0	0	10618	.04142109			106187.1	.04142109	
	CAPACITY, CFS	0	.00691	172.30098	5.74446	.76762	0	178.77	.04579943	.04357526	0	178.77306	.04363122	.04252615
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	1.2	28800.0	1007.0	0	0	2980	.01162701			29807.0	.01162701	
	CAPACITY, CFS	0	.00198	48.51528	1.60141	1.26003	0	48.01	.01228146	.01195423	0	48.01272	.01171795	.01167948
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	.7	17300.0	605.0	0	0	1790	.00698432			17905.0	.00698432	
	CAPACITY, CFS	0	.00115	29.05110	.96219	.12996	0	30.10	.00771050	.00734741	0	30.14318	.00735479	.00717052
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	.3	5800.0	202.7	0	0	600	.00234151			6002.7	.00234151	
	CAPACITY, CFS	0	.00033	9.73527	.32204	.04500	0	10.10	.00258421	.00246286	0	10.10263	.00246764	.00240358
MOJAVE WATER AGENCY	QUANTITY, AF	0	2.0	50800.0	1392.3	0	0	5210	.02035899			52192.3	.02035899	
	CAPACITY, CFS	0	.00329	70.16895	2.22103	5.26267	0	77.72	.01988129	.02012014	0	77.72324	.01896907	.01966403
DESERT WATER AGENCY	QUANTITY, AF	0	1.5	38100.0	1044.2	0	0	3911	.01526923			39144.2	.01526923	
	CAPACITY, CFS	0	.00247	63.98093	1.71860	.25674	0	65.95	.01687137	.01607030	0	65.95536	.01609724	.01564324
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	.9	23100.0	633.1	0	0	2373	.00925772			23733.1	.00925772	
	CAPACITY, CFS	0	.00148	38.78637	1.08203	.15736	0	39.98	.01022820	.00974296	0	39.98576	.00975288	.00950831
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	5.4	138400.0	1029.0	0	0	13429	.05436797			134429.0	.05436797	
	CAPACITY, CFS	0	.00885	191.16896	1.64366	14.33768	0	207.20	.05300100	.05369449	0	207.20130	.05056615	.05247856
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	.1	2300.0	32.4	0	0	233	.00089881			2332.4	.00089881	
	CAPACITY, CFS	0	.00016	3.17694	.05339	.23827	0	3.46	.00088724	.00089853	0	3.46853	.00084653	.00087817
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	.7	17300.0	207.9	0	0	1750	.00682942			17507.9	.00682942	
	CAPACITY, CFS	0	.00115	29.89612	.34220	1.79221	0	26.03	.00665851	.00674396	0	26.03053	.00635296	.00659120
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	.8	20000.0	352.9	0	0	2035	.00793919			20352.9	.00793919	
	CAPACITY, CFS	0	.00132	27.62457	.49815	2.11429	0	30.22	.00773220	.00783569	0	30.22801	.00737742	.00765831
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	1.7	41500.0	732.3	0	0	4233	.01647383			42332.3	.01647383	
	CAPACITY, CFS	0	.00280	57.32106	1.03364	4.36841	0	62.72	.01604433	.01625908	0	62.72316	.01530917	.01589100
TOTALS	QUANTITY, AF	0	100.0	2497500.0	66100.0	0	0	2563600	1.00000000			2563600.0	1.00000000	
	CAPACITY, CFS	0	.16459	3594.44190	98.52755	215.39638	0	3909.36	1.00000000	1.00000000	188.00000	4097.36583	1.00000000	1.00000000
REACH 18A – JUNCTION, WEST BRANCH, CALIFORNIA AQUEDUCT THRU COTTONWOOD POWERPLANT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	459.5	556500.0	29576.2	0	0	58807	.57441556			586076.2	.57441556	
	CAPACITY, CFS	0	.75631	853.31603	44.94480	31.54045	0	929.80	.57497954	.57469755	0	929.89128	.57497454	.57469755
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	83.3	102600.0	3582.0	0	0	10618	.10407027			106182.0	.10407027	
	CAPACITY, CFS	0	.13711	172.30098	5.69755	.76762	0	178.76	.11053645	.10730336	0	178.76615	.11053645	.10730336
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	23.4	28800.0	1005.4	0	0	2980	.02921278			29805.4	.02921278	
	CAPACITY, CFS	0	.03861	48.51528	1.59949	1.26003	0	48.01	.02656647	.02944963	0	48.01074	.02968647	.02944963
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	10.1	17300.0	604.3	0	0	1790	.01754808			17904.3	.01754808	
	CAPACITY, CFS	0	.00231	29.05110	.96097	.12996	0	30.10	.01863772	.01809289	0	30.14203	.01863772	.01809289
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	4.7	5800.0	202.5	0	0	600	.00588307			6002.5	.00588307	
	CAPACITY, CFS	0	.00774	9.73527	.32203	.04500	0	10.10	.00624655	.00606481	0	10.10230	.00624655	.00606481
MOJAVE WATER AGENCY	QUANTITY, AF	0	40.4	50800.0	1390.3	0	0	5210	.05115192			52190.3	.05115192	
	CAPACITY, CFS	0	.06712	70.16895	2.22033	5.26267	0	77.71	.04805657	.04960424	0	77.71995	.04805657	.04960424
DESERT WATER AGENCY	QUANTITY, AF	0	30.7	38100.0	1042.7	0	0	3911	.03836391			39142.7	.03836391	
	CAPACITY, CFS	0	.05053	63.98093	1.71622	.25674	0	65.95	.04078126	.03957259	0	65.95589	.04078126	.03957259
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	18.6	23100.0	632.2	0	0	2373	.02326002			23732.2	.02326002	
	CAPACITY, CFS	0	.03061	38.78637	1.08056	.15736	0	39.98	.02472347	.02399175	0	39.98428	.02472347	.02399175
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	109.3	138400.0	1023.6	0	0	13429	.13664961			134923.6	.13664961	
	CAPACITY, CFS	0	.17990	191.16896	1.64877	14.33768	0	207.10	.12811263	.13238112	0	207.19141	.12811263	.13238112
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	1.8	2300.0	32.3	0	0	233	.00228590			2332.3	.00228590	
	CAPACITY, CFS	0	.00296	3.17694	.05314	.23827	0	3.46	.00214460	.00221525	0	3.46837	.00214460	.00221525
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	13.7	17300.0	207.2	0	0	1750	.01715868			17507.2	.01715868	
	CAPACITY, CFS	0	.00255	29.89612	.34105	1.79221	0	26.03	.01609474	.01662681	0	26.02938	.01609474	.01662681
TOTALS	QUANTITY, AF	0	800.0	981000.0	39300.0	0	0	102030	1.00000000			1020300.0	1.00000000	
	CAPACITY, CFS	0	1.31675	1500.73293	60.68886	55.83799	0	1617.25	1.00000000	1.00000000	0	1617.25978	1.00000000	1.00000000
REACH 19 – COTTONWOOD POWERPLANT TO FAIRMONT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	2182.8	556500.0	29116.7	0	0	58841	.57441560			585616.7	.57441560	
	CAPACITY, CFS	0	3.59274	853.31603	44.22949	31.54045	0	929.13	.57498003	.57469781	0	929.13497	.57498003	.57469781
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	395.8	102600.0	3499.6	0	0	10609	.10407023			106099.6	.10407023	
	CAPACITY, CFS	0	.65080	172.30098	5.56048	.76762	0	178.69	.11054167	.10730595	0	178.62904	.11054167	.10730595
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	111.0	28800.0	982.4	0	0	2978	.02921275			29782.4	.02921275	
	CAPACITY, CFS	0	.18270	48.51528	1.56092	1.26003	0	47.97	.02968683	.02944979	0	47.97223	.02968683	.02944979
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	66.7	17300.0	590.2	0	0	1790	.01754801			17890.2	.01754801	
	CAPACITY, CFS	0	.10978	29.05110	.93776	.12996	0	30.11	.01863854	.01809328	0	30.11882	.01863854	.01809328
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	22.3	5800.0	197.8	0	0	590	.00588308			5987.8	.00588308	
	CAPACITY, CFS	0	.00670	9.73527	.31429	.04500	0	10.09	.00624685	.00606497	0	10.09456	.00624685	.00606497
MOJAVE WATER AGENCY	QUANTITY, AF	0	194.4	50800.0	1349.4	0	0	5214	.05115194			52149.4	.05115194	
	CAPACITY, CFS	0	.31907	70.16895	2.22101	5.26267	0	77.65	.04805407	.04960300	0	77.65263	.04805407	.04960300
DESERT WATER AGENCY	QUANTITY, AF	0	145.8	38100.0	1012.0	0	0	3411	.03836390			39112.0	.03836390	
	CAPACITY, CFS	0	.23998	63.98093	1.66569	.25674	0	65.90	.04078322	.03957356	0	65.90336	.04078322	.03957356
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	88.4	23100.0	613.6	0	0	2371	.02326003			23713.6	.02326003	
	CAPACITY, CFS	0	.14550	38.78637	1.00994	.15736	0	39.95	.02472468	.02399235	0	39.95367	.02472468	.02399235
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	69600.0	514.3	138400.0	914.3	0	0	13431	.13664963			139314.3	.13664963	
	CAPACITY, CFS	96.13699	.84673	191.16896	1.50467	14.33768	0	207.01	.12810570	.13237767	0	207.01151	.12810570	.13237767
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	9.7	2300.0	30.6	0	0	233	.00228593			2339.6	.00228593	
	CAPACITY, CFS	0	.01432	3.17694	.05028	.23827	0	3.46	.00214451	.00221522	0	3.46541	.00214451	.00221522
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	65.2	17300.0	195.5	0	0	1760	.01715890			17495.5	.01715890	
	CAPACITY, CFS	0	.10742	23.89612	.31850	1.74221	0	26.00	.01609390	.01662640	0	26.00683	.01609390	.01662640
TOTALS	QUANTITY, AF	69600.0	3800.0	981000.0	38500.0	0	0	101950	1.00000000			1019500.0	1.00000000	
	CAPACITY, CFS	96.13699	6.25454	1500.73293	59.37211	55.83799	0	1615.94	1.00000000	1.00000000	0	1615.94303	1.00000000	1.00000000
REACH 19C – BUTTES JUNCTION THRU BUTTES RESERVOIR														
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	0	0	0	0		2500	1.00000000	1.00000000		25000.0	1.00000000	1.00000000
	CAPACITY, AF	25000.0	0	25000.0	0	0	0							
TOTALS	QUANTITY, AF	0	0	0	0	0		2500	1.00000000	1.00000000		25000.0	1.00000000	1.00000000
	CAPACITY, AF	25000.0	0	25000.0	0	0	0							

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)

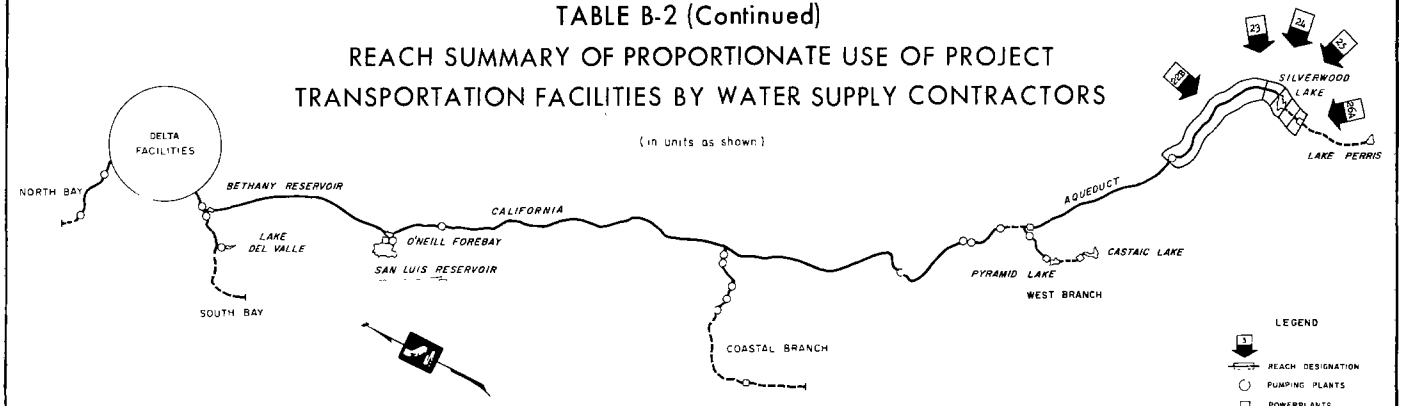


WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH: FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF: OPERATIONAL LOSSES	FOR COMPENSATION OF: SCHEDULED OUTAGES	FOR COMPENSATION OF: DOWNSTREAM REGULATION	SUBTOTAL	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	CAPACITY PROVIDED IN REACH: FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REACH 20A – FAIRMONT THRU 70TH STREET WEST														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	2220.0	556500.0	26933.9	0	0	58343	.61667255			583433.9	.61667255	
	CAPACITY, CFS	0	3.65397	853.31603	40.63575	31.59045	0	925.54	.61735172	.61701213	0	925.54223	.61735172	.61701213
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	402.2	102600.0	3104.2	0	0	10570	.11172624			105704.2	.11172624	
	CAPACITY, CFS	0	.66199	172.30098	4.90464	.76762	0	177.97	.11871438	.11522031	0	177.97824	.11871438	.11522031
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	112.9	28800.0	871.4	0	0	2967	.03136180			29671.4	.03136180	
	CAPACITY, CFS	0	.18583	45.15128	1.37822	1.26003	0	47.78	.03187639	.03161910	0	47.78953	.03187639	.03161910
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	67.8	17300.0	523.5	0	0	1782	.01883892			17823.5	.01883892	
	CAPACITY, CFS	0	.11159	29.05110	.82798	.12996	0	30.00	.02001652	.01942772	0	30.00904	.02001652	.01942772
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	22.8	5800.0	175.5	0	0	597	.00631593			5975.5	.00631593	
	CAPACITY, CFS	0	.03753	9.73527	.27759	.04500	0	10.05	.00670876	.00651234	0	10.05786	.00670876	.00651234
MOJAVE WATER AGENCY	QUANTITY, AF	0	197.7	50800.0	1155.0	0	0	5195	.05491491			51955.0	.05491491	
	CAPACITY, CFS	0	.32540	70.16895	1.90104	5.26267	0	77.33	.05158214	.05324853	0	77.33266	.05158214	.05324853
DESERT WATER AGENCY	QUANTITY, AF	0	148.3	38100.0	866.2	0	0	3896	.04118613			38966.2	.04118613	
	CAPACITY, CFS	0	.24409	63.98093	1.42571	.25674	0	65.66	.04379854	.04249234	0	65.66338	.04379854	.04249234
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	89.9	23100.0	525.2	0	0	2362	.02497115			23625.2	.02497115	
	CAPACITY, CFS	0	.14797	38.78637	.86444	.15736	0	39.80	.02655270	.02576192	0	39.80817	.02655270	.02576192
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	47100.0	263.3	68800.0	395.0	0	0	6919	.07313709			69195.0	.07313709	
	CAPACITY, CFS	65.05822	.43337	95.03197	.65014	0	0	95.68	.06382152	.06847931	0	95.68211	.06382152	.06847931
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	8.8	2300.0	21.8	0	0	232	.00245408			2321.8	.00245408	
	CAPACITY, CFS	0	.01448	3.17694	.03588	.23827	0	3.45	.00230193	.00237800	0	3.45109	.00230193	.00237800
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	0	66.3	17300.0	128.3	0	0	1742	.01842120			17428.3	.01842120	
	CAPACITY, CFS	0	.10913	23.89612	.21118	1.79221	0	25.89	.01727540	.01784830	0	25.89951	.01727540	.01784830
TOTALS	QUANTITY, AF	47100.0	3600.0	911400.0	34700.0	0	0	94610	1.00000000			946100.0	1.00000000	
	CAPACITY, CFS	65.05822	5.92535	1404.59594	53.11757	41.50031	0	1499.21	1.00000000	1.00000000	0	1499.21382	1.00000000	1.00000000
REACH 20B – 70TH STREET WEST TO PALMDALE														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	2077.2	556500.0	24713.9	0	0	58121	.64911090			581213.9	.64911090	
	CAPACITY, CFS	0	3.41893	853.31603	36.98178	31.54045	0	921.88	.64547594	.64729342	0	921.88826	.64547594	.64729342
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	376.3	102600.0	2702.0	0	0	10530	.11760331			105302.0	.11760331	
	CAPACITY, CFS	0	.61936	172.30098	4.24765	.76762	0	177.31	.12415103	.12087717	0	177.31625	.12415103	.12087717
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	105.6	28800.0	758.5	0	0	2955	.03301150			29558.5	.03301150	
	CAPACITY, CFS	0	.17381	45.15128	1.19239	1.26003	0	47.60	.03333055	.03317103	0	47.60370	.03333055	.03317103
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	63.5	17300.0	455.7	0	0	1775	.01982991			17755.7	.01982991	
	CAPACITY, CFS	0	.10452	29.05110	.71639	.12996	0	29.89	.02093321	.02038156	0	29.89745	.02093321	.02038156
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	21.3	5800.0	152.7	0	0	595	.00664809			5952.7	.00664809	
	CAPACITY, CFS	0	.03506	9.73527	.24006	.04500	0	10.02	.00701591	.00683200	0	10.02033	.00701591	.00683200
MOJAVE WATER AGENCY	QUANTITY, AF	0	185.0	50800.0	957.3	0	0	5175	.05780355			51757.3	.05780355	
	CAPACITY, CFS	0	.30450	70.16895	1.57564	5.26267	0	77.00	.05391796	.05586075	0	77.00726	.05391796	.05586075
DESERT WATER AGENCY	QUANTITY, AF	0	138.7	38100.0	717.9	0	0	3881	.04335258			38817.9	.04335258	
	CAPACITY, CFS	0	.22829	63.98093	1.18162	.25674	0	65.41	.04580444	.04457851	0	65.41929	.04580444	.04457851
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	84.1	23100.0	435.3	0	0	2353	.02628468			23535.3	.02628468	
	CAPACITY, CFS	0	.13842	38.78637	.71647	.15736	0	39.66	.02776877	.02702672	0	39.66020	.02776877	.02702672
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	78.0	21700.0	131.7	0	0	2183	.02438206			21831.7	.02438206	
	CAPACITY, CFS	0	.12838	29.97375	.21677	0	0	30.19	.02113841	.02276024	0	30.19052	.02113841	.02276024
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	0	8.3	2300.0	13.0	0	0	231	.00258320			2313.0	.00258320	
	CAPACITY, CFS	0	.01366	3.17694	.02140	.23827	0	3.43	.00240620	.00249470	0	3.43661	.00240620	.00249470
PALMDALE IRRIGATION DISTRICT	QUANTITY, AF	17300.0	62.0	17300.0	62.0	0	0	1736	.01939022			17362.0	.01939022	
	CAPACITY, CFS	23.89612	.10205	23.89612	.10205	1.79221	0	25.79	.01805758	.01872390	0	25.79038	.01805758	.01872390
TOTALS	QUANTITY, AF	17300.0	3200.0	864300.0	31100.0	0	0	89540	1.00000000			895400.0	1.00000000	
	CAPACITY, CFS	23.89612	5.26698	1339.53772	47.19222	41.50031	0	1428.23	1.00000000	1.00000000	0	1428.23025	1.00000000	1.00000000
REACH 21 – PALMDALE TO LITTLEROCK CREEK														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	1191.5	556500.0	22636.7	0	0	57913	.66194617			579136.7	.66194617	
	CAPACITY, CFS	0	1.96113	853.31603	33.56285	31.54045	0	918.46	.65732899	.65963758	0	918.46933	.65732899	.65963758
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	215.9	102600.0	2325.7	0	0	10492	.11992879			104925.7	.11992879	
	CAPACITY, CFS	0	.35536	172.30098	3.62829	.76762	0	176.69	.12645821	.12319350	0	176.69689	.12645821	.12319350
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	60.6	28800.0	652.9	0	0	2945	.03366430			29452.9	.03366430	
	CAPACITY, CFS	0	.09974	45.15128	1.01858	1.26003	0	47.42	.03394456	.03380444	0	47.42989	.03394456	.03380444
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	36.4	17300.0	392.2	0	0	1769	.02022197			17692.2	.02022197	
	CAPACITY, CFS	0	.05991	29.05110	.61187	.12996	0	29.79	.02132217	.02077207	0	29.79293	.02132217	.02077207
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	12.2	5800.0	131.4	0	0	593	.00677952			5931.4	.00677952	
	CAPACITY, CFS	0	.02008	9.73527	.20500	.04500	0	9.98	.00714625	.00696288	0	9.98527	.00714625	.00696288
MOJAVE WATER AGENCY	QUANTITY, AF	0	106.1	50800.0	772.3	0	0	5157	.05894651			51572.3	.05894651	
	CAPACITY, CFS	0	.17463	70.16895	1.27114	5.26267	0	76.70	.05489454	.05692052	0	76.70276	.05489454	.05692052
DESERT WATER AGENCY	QUANTITY, AF	0	79.6	38100.0	579.2	0	0	3867	.04420985			38679.2	.04420985	
	CAPACITY, CFS	0	.13102	63.98093	.95333	.25674	0	65.19	.04665581	.04543283	0	65.19100	.04665581	.04543283
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	48.2	23100.0	351.2	0	0	2345	.02680444			23451.2	.02680444	
	CAPACITY, CFS	0	.07933	38.78637	.57805	.15736	0	39.52	.02828490	.02754467	0	39.52178	.02828490	.02754467
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	10800.0	44.8	21700.0	53.7	0	0	2175	.02486421			21753.7	.02486421	
	CAPACITY, CFS	14.91781	.07374	29.97375	.08839	0	0	30.06	.02151484	.02318952	0	30.06214	.02151484	.02318952
LITTLEROCK CREEK IRRIGATION DISTRICT	QUANTITY, AF	2300.0	4.7	2300.0	4.7	0	0	230	.00263424			2304.7	.00263424	
	CAPACITY, CFS	3.17694	.00774	3.17694	.00774	.23827	0	3.42	.00244973	.00254199	0	3.42295	.00244973	.00254199
TOTALS	QUANTITY, AF	13100.0	1800.0	847000.0	27900.0	0	0	87490	1.00000000			874900.0	1.00000000	
	CAPACITY, CFS	18.09475	2.96268	1315.64160	41.92524	39.70810	0	1397.27	1.00000000	1.00000000	0	1397.27494	1.00000000	1.00000000
REACH 22A – LITTLEROCK CREEK TO PEARBLOSSOM PUMPING PLANT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	470.4	556500.0	21445.2	0	0	[illegible]	.67202930			577945.2	.67202930	
	CAPACITY, CFS	0	.77425	853.31603	31.60172	31.59045	0	916.50	.66607705	.66905318	0	916.50820	.66607705	.66905318
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	85.2	102600.0	2104.8	0	0	10470	.12175558			104709.8	.12175558	
	CAPACITY, CFS	0	.14023	172.30098	3.27293	.76762	0	176.34	.12815712	.12495635	0	176.34153	.12815712	.12495635
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	23.9	28800.0	592.3	0	0	2939	.03417709			29392.3	.03417709	
	CAPACITY, CFS	0	.03934	45.15128	.91884	1.26003	0	47.33	.03439743	.03428726	0	47.33015	.03439743	.03428726
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	14.4	17300.0	355.8	0	0	1765	.02053000			17655.8	.02053000	
	CAPACITY, CFS	0	.02370	29.05110	.55196	.12996	0	29.73	.02160863	.02106931	0	29.73302	.02160863	.02106931
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	4.8	5800.0	119.2	0	0	591	.00688279			5919.2	.00688279	
	CAPACITY, CFS	0	.00790	9.73527	.18492	.04500	0	9.96	.00724225	.00706252	0	9.96519	.00724225	.00706252
MOJAVE WATER AGENCY	QUANTITY, AF	0	41.9	50800.0	666.2	0	0	5146	.05984442			51466.2	.05984442	
	CAPACITY, CFS	0	.06896	70.16895	1.09651	5.26267	0	76.52	.05561721	.05773081	0	76.52813	.05561721	.05773081
DESERT WATER AGENCY	QUANTITY, AF	0	31.4	38100.0	499.6	0	0	3859	.04488326			38599.6	.04488326	
	CAPACITY, CFS	0	.05168	63.98093	.82231	.25674	0	65.05	.04728268	.04608297	0	65.05998	.04728268	.04608297
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	19.1	23100.0	303.0	0	0	2340	.02721279			23403.0	.02721279	
	CAPACITY, CFS	0	.03144	38.78637	.49872	.15736	0	39.44	.02866500	.02793890	0	39.44245	.02866500	.02793890
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	10900.0	8.9	10900.0	8.9	0	0	1090	.01268477			10908.9	.01268477	
	CAPACITY, CFS	15.05594	.01465	15.05594	.01465	0	0	15.07	.01095263	.01181870	0	15.07059	.01095263	.01181870
TOTALS	QUANTITY, AF	10900.0	700.0	833900.0	26100.0	0	0	86000	1.00000000			860000.0	1.00000000	
	CAPACITY, CFS	15.05594	1.15215	1297.54685	38.96256	39.46983	0	1375.97	1.00000000	1.00000000	0	1375.97924	1.00000000	1.00000000

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)



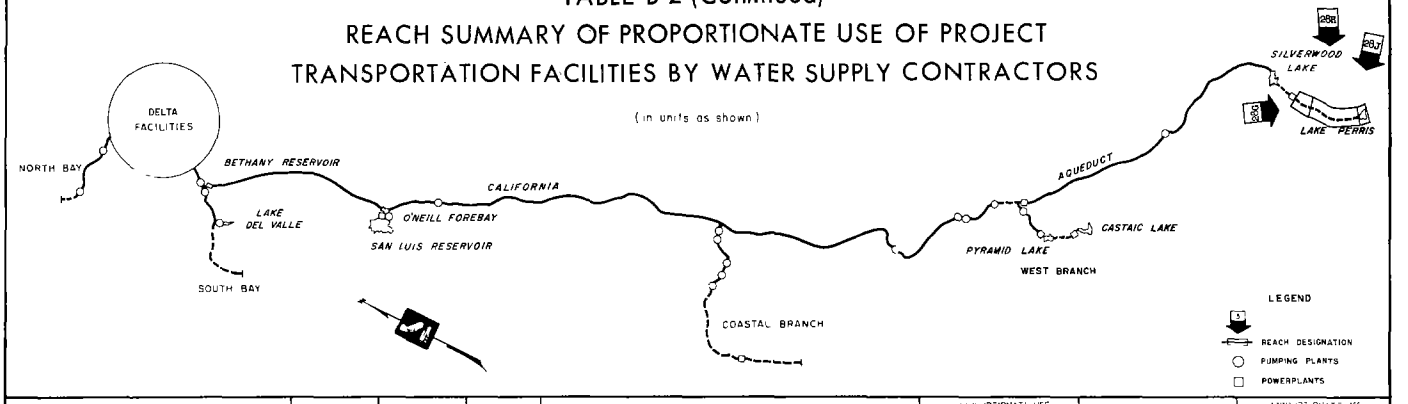
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH					PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN RE-CH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS	
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF: OPERATIONAL LOSSES	FOR COMPENSATION OF: SCHEDULED OUTAGES	FOR COMPENSATION OF: DOWNSTREAM REGULATION	SUBTOTAL	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REACH 22B – PEARBLOSSOM PUMPING PLANT TO WEST FORK MOJAVE RIVER														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	7010.8	556500.0	20974.8	0	0	57787	.68066337		0	577474.8	.68066337	
	CAPACITY, CFS	0	11.55830	853.31603	30.82747	31.59045	0	915.73	.67344711	.67705524		915.73395	.67344711	.67705524
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	1270.2	102600.0	2024.6	0	0	10462	.12331990		0	106624.6	.12331990	
	CAPACITY, CFS	0	2.09046	172.30998	3.13270	.76762	0	176.20	.12958158	.12654074		176.20130	.12958158	.12654074
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	356.6	28800.0	568.4	0	0	2934	.03461622		0	2936A.4	.03461622	
	CAPACITY, CFS	0	.58694	48.14128	.87950	1.26003	0	47.20	.03477851	.03469736		47.20041	.03477851	.03469736
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	314.2	17300.0	341.4	0	0	1764	.02079373		0	17641.4	.02079373	
	CAPACITY, CFS	0	.35256	29.05110	.52826	.12996	0	29.70	.02134876	.02132125		29.70932	.02134876	.02132125
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	0	71.8	5800.0	114.4	0	0	591	.00697124		0	5914.4	.00697124	
	CAPACITY, CFS	0	.11818	9.73527	.17702	.04500	0	9.96	.00732277	.00714700		9.95729	.00732277	.00714700
MOJAVE WATER AGENCY	QUANTITY, AF	50800.0	624.3	50800.0	624.1	0	0	5142	.06061327		0	51424.3	.06061327	
	CAPACITY, CFS	70.16895	1.02755	70.16895	1.02755	5.26267	0	76.45	.05622944	.05842136		76.45917	.05622944	.05842136
DESERT WATER AGENCY	QUANTITY, AF	38100.0	468.2	38100.0	468.2	0	0	3856	.04545992		0	38568.2	.04545992	
	CAPACITY, CFS	52.62671	.77063	63.98803	.77063	.26574	0	65.00	.04780827	.04663409		65.00830	.04780827	.04663409
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	23100.0	283.9	23100.0	283.9	0	0	2338	.02756235		0	23383.9	.02756235	
	CAPACITY, CFS	31.90754	.46758	38.78637	.46728	.14736	0	39.41	.02892356	.02827296		39.41101	.02892356	.02827296
TOTALS	QUANTITY, AF	112000.0	10300.0	823000.0	25400.0	0	0	84840	1.00000000		0	848400.0	1.00000000	
	CAPACITY, CFS	154.70320	16.95310	1282.49091	37.81041	39.46983	0	1359.77	1.00000000	1.00000000	0	1359.77115	1.00000000	1.00000000
REACH 23 – WEST FORK MOJAVE RIVER TO SILVERWOOD LAKE														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	84.63450	0	556500.0	13984.0	0	0	57046	.76326441		0	570464.0	.76326441	
	CAPACITY, CFS	0	0	853.31603	19.28817	31.59045	0	904.19	.76565012	.77445726		904.19465	.76565012	.77445726
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	30.58180	0	102600.0	754.4	0	0	10535	.14190873		0	103354.4	.14190873	
	CAPACITY, CFS	0	0	172.30998	1.04204	.76762	0	174.11	.14743067	.14467070		174.11166	.14743067	.14467070
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	4.37046	0	28800.0	211.6	0	0	2401	.03083408		0	29011.6	.03083408	
	CAPACITY, CFS	0	0	48.15128	.29054	1.26003	0	46.70	.03954770	.03969090		46.70387	.03954770	.03969090
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	5.15498	0	17300.0	127.2	0	0	1742	.02392808		0	17427.2	.02392808	
	CAPACITY, CFS	0	0	29.05110	.17470	.12996	0	29.36	.02485869	.02439333		29.35696	.02485869	.02439333
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	1.72385	0	5800.0	42.6	0	0	584	.00802207		0	5842.6	.00802207	
	CAPACITY, CFS	0	0	9.73527	.05884	.04500	0	9.83	.00833152	.00817679		9.83911	.00833152	.00817679
DESERT WATER AGENCY	QUANTITY, AF	0	0	0	0	1380.0	0	138	.00189478		0	1380.0	.00189478	
	CAPACITY, CFS	0	0	0	0	.72730	0.69734	10.42	.00982737	.00536108		10.42668	.00982737	.00536108
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	0	0	0	836.0	0	83	.00114785		0	836.0	.00114785	
	CAPACITY, CFS	0	0	0	0	.44096	6.87452	6.32	.00435203	.00324944		6.32048	.00435203	.00324944
TOTALS	QUANTITY, AF	0	0	711000.0	15100.0	0	2216.0	72831	1.00000000		0	728316.0	1.00000000	
	CAPACITY, CFS	127.46559	0	1109.55466	20.85731	34.96132	15.57690	1180.95	1.00000000	1.00000000		1180.95019	1.00000000	1.00000000
REACH 24 – CEDAR SPRINGS DAM AND SILVERWOOD LAKE														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	8164.0	556500.0	13984.0	0		840.68	.78565463			840.68841*	.78565463	
	CAPACITY, AF	46092.0	1054.0	46092.0	1194.0	0		4716	.64803634	.66656392#		47146.0	.64803634	.66656392#
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	754.4	102600.0	754.4	0		152.34	.14234184			152.34812*	.14234184	
	CAPACITY, AF	16650.0	380.0	16650.0	380.0	0		1703	.23444383	.22262753#		17030.0	.23444383	.22262753#
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	211.8	28800.0	211.8	0		42.76	.03995560			42.76438*	.03995560	
	CAPACITY, AF	3055.0	70.0	3055.0	70.0	0		312	.04362038	.04262718#		3125.0	.04362038	.04262718#
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	0	127.2	17300.0	127.2	0		25.68	.02400111			25.68833*	.02400111	
	CAPACITY, AF	2067.0	47.0	2067.0	47.0	0		211	.02910242	.02844794#		2114.0	.02910242	.02844794#
CRESTLINE-LAKE ARROWHEAD WATER AGENCY	QUANTITY, AF	5800.0	42.6	5800.0	42.6	0		8.61	.00804662			8.61228*	.00804662	
	CAPACITY, AF	937.0	21.0	937.0	21.0	0		95	.01318833	.01252867#		958.0	.01318833	.01252867#
DESERT WATER AGENCY	QUANTITY, AF	0	0	0	0	0		0				0*		
	CAPACITY, AF	1380.0	32.0	1380.0	32.0	0		141	.01943833	.01694448#		1412.0	.01943833	.01694448#
COACHELLA VALLEY COUNTY WATER DISTRICT	QUANTITY, AF	0	0	0	0	0		0				0*		
	CAPACITY, AF	836.0	19.0	836.0	19.0	0		86	.01177037	.01026028#		855.0	.01177037	.01026028#
TOTALS	QUANTITY, AF	5800.0	5300.0	711000.0	15100.0	0		1079.29	1.00000000			1070.29752*	1.00000000	
	CAPACITY, AF	71017.0	1623.0	71017.0	1623.0	0		7244	1.00000000	1.00000000#		72640.0	1.00000000	1.00000000#
REACH 25 – SILVERWOOD LAKE TO SOUTH PORTAL, SAN BERNARDINO TUNNEL														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	0	556500.0	9800.0	0	0	56630	.79202797			566300.0	.79202797	
	CAPACITY, CFS	0	0	894.21213	13.53653	29.24512	0	936.99	.77865896	.78534346	787.00000	1725.99378	.85713666	.82459181
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	0	102600.0	0	0	0	10260	.14349650			102600.0	.14349650	
	CAPACITY, CFS	0	0	187.06932	0	0	0	187.06	.15545802	.14947726	0	187.06932	.09300717	.11825184
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	0	0	28800.0	0	0	0	2880	.04027972			28800.0	.04027972	
	CAPACITY, CFS	0	0	47.73699	0	0	0	47.73	.03967031	.03997502	21.00000	68.73699	.03417467	.03722720
SAN GORGONIO PASS WATER AGENCY	QUANTITY, AF	17300.0	0	17300.0	0	0	0	1730	.02419581			17300.0	.02419581	
	CAPACITY, CFS	31.54288	0	31.54288	0	0	0	31.54	.02621271	.02520426	0	31.54288	.01568950	.01903915
TOTALS	QUANTITY, AF	17300.0	0	705200.0	9800.0	0	0	71500	1.00000000			715000.0	1.00000000	
	CAPACITY, CFS	31.54288	0	1160.56132	13.53653	29.24512	0	1203.34	1.00000000	1.00000000	808.00000	2011.34207	1.00000000	1.00000000
REACH 26A – SOUTH PORTAL, SAN BERNARDINO TUNNEL THRU DEVIL CANYON POWERPLANT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	288000.0	0	556500.0	9800.0	0	0	56630	.81166690		0	566300.0	.81166690	
	CAPACITY, CFS	517.81372	0	894.21213	13.53653	29.24512	0	936.99	.79961914	.80564302		936.99378	.79961914	.80564302
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	89000.0	0	102600.0	0	0	0	10260	.14705461		0	102600.0	.14705461	
	CAPACITY, CFS	163.00028	0	187.06932	0	0	0	187.06	.15964269	.15334865		187.06932	.15964269	.15334865
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF	28800.0	0	28800.0	0	0	0	2880	.04127849		0	28800.0	.04127849	
	CAPACITY, CFS	47.73699	0	47.73699	0	0	0	47.73	.04073817	.04100833		47.73699	.04073817	.04100833
TOTALS	QUANTITY, AF	401700.0	0	687900.0	9800.0	0	0	69770	1.00000000		0	697700.0	1.00000000	
	CAPACITY, CFS	727.64099	0	1129.01844	13.53653	29.24512	0	1171.80	1.00000000	1.00000000		1171.80089	1.00000000	1.00000000

* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.
# SUMMATION OF QUANTITY RATIO WEIGHTED BY .12829577 AND CAPACITY RATIO WEIGHTED BY .87170423.

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)



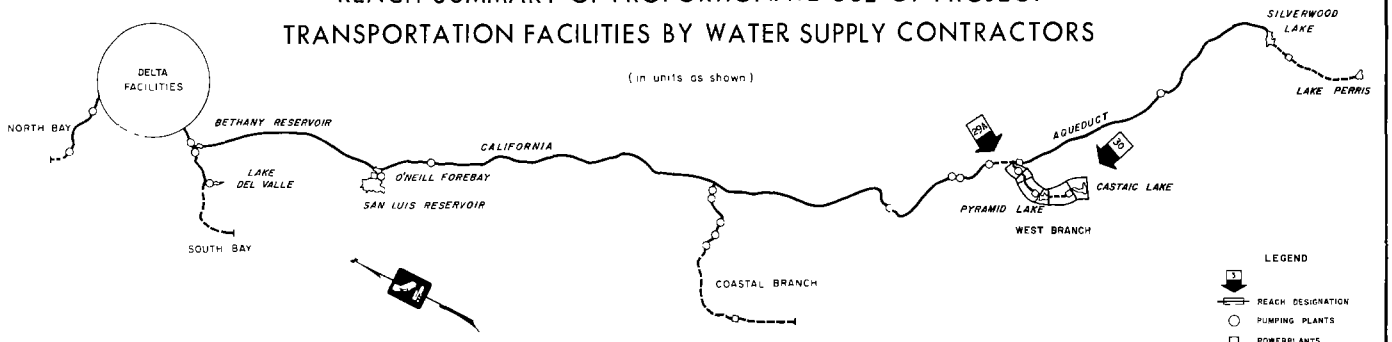
WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH					PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OM&R COSTS	
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REACH 28G – DEVIL CANYON POWERPLANT THRU BARTON ROAD														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF CAPACITY, CFS	0 0	0 0	272500.0 376.39841	9800.0 13.53653	0 29.24512	0 0	28230 419.18	.95371622 .94376105	.94873863	0	282300.0 419.18006	.95371622 .94376105	.94873863
SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	13700.0 24.97904	0 0	13700.0 24.97904	0 0	0 0	0 0	1370 24.97	.04628378 .05623895	.05126137	0	13700.0 24.97904	.04628378 .05623895	.05126137
TOTALS	QUANTITY, AF CAPACITY, CFS	13700.0 24.97904	0 0	286200.0 401.37745	9800.0 13.53653	0 29.24512	0 0	29600 444.15	1.00000000 1.00000000	1.00000000	0	296000.0 444.15910	1.00000000 1.00000000	1.00000000
REACH 28H – BARTON ROAD TO LAKE PERRIS														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF CAPACITY, CFS	0 0	0 0	272500.0 376.39841	9800.0 13.53653	0 29.24512	0 0	28230 419.18	1.00000000 1.00000000	1.00000000	0	282300.0 419.18006	1.00000000 1.00000000	1.00000000
TOTALS	QUANTITY, AF CAPACITY, CFS	0 0	0 0	272500.0 376.39841	9800.0 13.53653	0 29.24512	0 0	28230 419.18	1.00000000 1.00000000	1.00000000	0	282300.0 419.18006	1.00000000 1.00000000	1.00000000
REACH 28J – PERRIS DAM AND LAKE PERRIS														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF CAPACITY, AF	272500.0 95999.0	9800.0 3001.0	272500.0 95999.0	9800.0 3001.0	0 0		404.62 9900	1.00000000 1.00000000	1.00000000#		404.62829* 99000.0	1.00000000 1.00000000	1.00000000#
TOTALS	QUANTITY, AF CAPACITY, AF	272500.0 95999.0	9800.0 3001.0	272500.0 95999.0	9800.0 3001.0	0 0		404.62 9900	1.00000000 1.00000000	1.00000000#		404.62829* 99000.0	1.00000000 1.00000000	1.00000000#

* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.
\# SUMMATION OF QUANTITY RATIO WEIGHTED BY 0 AND CAPACITY RATIO WEIGHTED BY 1.00000000.

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)



WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH					PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS		CAPACITY PROVIDED IN REACH		PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OM&R COSTS	
				FOR DELIVERY OF ENTITLEMENTS	FOR COMPENSATION OF OPERATIONAL LOSSES	FOR COMPENSATION OF SCHEDULED OUTAGES	FOR COMPENSATION OF DOWNSTREAM REGULATION	SUBTOTAL	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS	FOR REQUESTED EXCESS PEAKING	TOTAL FOR WATER SUPPLY CONTRACTORS	RATIOS OF TOTAL REACH USE	AVERAGE OF RATIOS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REACH 29A – JUNCTION, WEST BRANCH, CALIFORNIA AQUEDUCT THRU OSO PUMPING PLANT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	479.7	1455000.0	25617.3	153.08769	0	148061	.95944615	.95944614	0	1480617.3	.95944615	.95652470
	CAPACITY, CFS	0	.78446	2785.95222	36.14838		0	2975.18	.95944613			2975.18629	.95360324	
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	0	0	0	0	0	0				0		.00304493
	CAPACITY, CFS	0	0	0	0		0	0		0	19.00000	19.00000	.00608586	
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	6.6	20000.0	352.7	0	0	2035	.01318825			20352.1	.01318825	.01314809
	CAPACITY, CFS	0	.01086	38.29688	.48694	2.10829		40.80	.01318825	.01318825	0	40.80600	.01310794	
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	13.7	41500.0	730.6	0	0	4227	.02736560			42230.6	.02736560	.02728228
	CAPACITY, CFS	0	.02245	79.46187	1.00838	4.36641		84.85	.02736562	.02736561	0	84.85917	.02719896	
TOTALS	QUANTITY, AF	0	500.0	1516500.0	26700.0	0	0	154320	1.00000000			1543200.0	1.00000000	
	CAPACITY, CFS	0	.82297	2903.70897	37.67417	154.55839		3100.96	1.00000000	1.00000000	19.00000	3119.96146	1.00000000	1.00000000
REACH 29F – OSO PUMPING PLANT THRU QUAIL EMBANKMENT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	2308.6	1455000.0	25137.6	153.08769	0	148813	.95944617	.95944615	0	1480137.6	.95944617	.95652394
	CAPACITY, CFS	0	3.94743	2785.95222	35.35683		0	2974.30	.95944614			2974.30673	.95360171	
ANTELOPE VALLEY-EAST KERN WATER AGENCY	QUANTITY, AF	0	0	0	0	0	0	0				0		.00304573
	CAPACITY, CFS	0	0	0	0		0	0		0	19.00000	19.00000	.00609146	
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	33.0	20000.0	345.5	0	0	2035	.01318824			20345.5	.01318824	.01314808
	CAPACITY, CFS	0	.04432	38.29688	.48597	2.10829		40.88	.01318825	.01318825	0	40.88514	.01310792	
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	68.4	41500.0	716.6	0	0	4221	.02736559			42216.9	.02736559	.02728225
	CAPACITY, CFS	0	.11258	79.46187	1.00834	4.36641		84.83	.02736561	.02736560	0	84.83662	.02719491	
TOTALS	QUANTITY, AF	0	2500.0	1516500.0	26200.0	0	0	154270	1.00000000			1542700.0	1.00000000	
	CAPACITY, CFS	0	4.11483	2903.70897	36.85113	154.55839		3100.11	1.00000000	1.00000000	19.00000	3119.11849	1.00000000	1.00000000
REACH 29G – QUAIL EMBANKMENT THRU PYRAMID POWERPLANT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	0	1455000.0	22739.0	0	0	147773	.95944618			1477739.0	.95944618	.95944616
	CAPACITY, CFS	0	0	2785.95222	31.40846	153.08769	0	2970.44	.95944615	.95944616	0	2970.44880	.95944615	
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	0	20000.0	312.5	0	0	2031	.01318822			20312.5	.01318822	.01318823
	CAPACITY, CFS	0	0	38.29688	.43164	2.10829		40.84	.01318824	.01318823	0	40.83682	.01318824	
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	0	41500.0	648.5	0	0	4214	.02736560			42148.5	.02736560	.02736561
	CAPACITY, CFS	0	0	79.46187	.89576	4.36641		84.72	.02736561	.02736561	0	84.72404	.02736561	
TOTALS	QUANTITY, AF	0	0	1516500.0	23700.0	0	0	154020	1.00000000			1540200.0	1.00000000	
	CAPACITY, CFS	0	0	2903.70897	32.73630	154.55839		3091.00	1.00000000	1.00000000	0	3091.00366	1.00000000	1.00000000
REACH 29H – PYRAMID DAM AND PYRAMID LAKE														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	7195.9	1455000.0	22739.0	0	0	2183.57	.95944615			2183.57192*	.95944615	
	CAPACITY, AF	123419.0	2217.0	12419.0	2217.0	0	0	1259	.96568793	.96437012#		126636.0	.96568793	.96437012#
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	98.9	20000.0	312.5	0	0	30.01	.01318822			30.01465*	.01318822	
	CAPACITY, AF	1031.0	14.0	1031.0	14.0	0	0	104	.00807072	.00915116#		1050.0	.00807072	.00915116#
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	205.2	41500.0	648.5	0	0	62.28	.02736563			62.28053*	.02736563	
	CAPACITY, AF	3354.0	60.0	3354.0	60.0	0	0	341	.02624135	.02647872#		3414.0	.02624135	.02647872#
TOTALS	QUANTITY, AF	0	7500.0	1516500.0	23700.0	0	0	2275.86	1.00000000			2275.86710*	1.00000000	
	CAPACITY, AF	127804.0	2296.0	127804.0	2296.0	0	0	13010	1.00000000	1.00000000#		130100.0	1.00000000	1.00000000#

* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.
\# SUMMATION OF QUANTITY RATIO WEIGHTED BY .21112739 AND CAPACITY RATIO WEIGHTED BY .78887261.

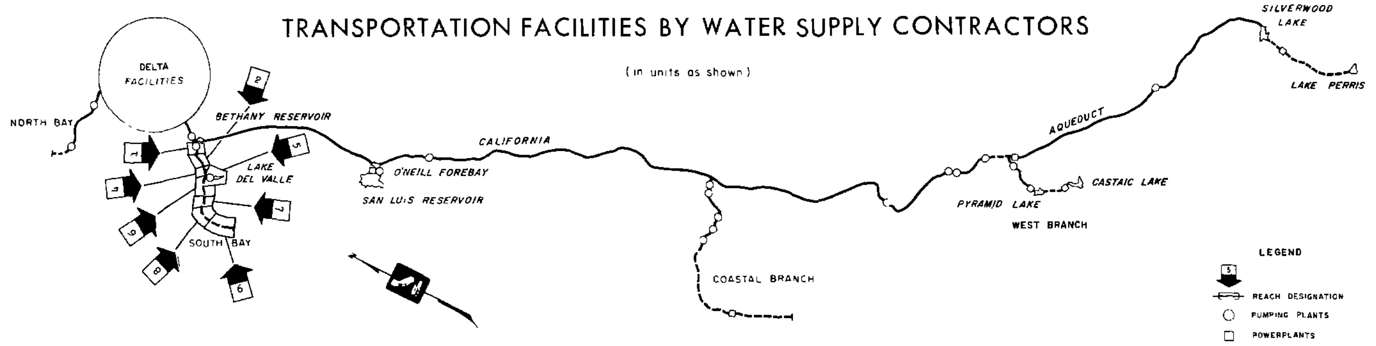
REACH 29J – PYRAMID LAKE THRU CASTAIC POWERPLANT														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	0	96.0	1455000.0	15543.1	0	0	1470594	.95944614			1470543.1	.95944614	
	CAPACITY, CFS	776.19188	.15801	2785.95222	21.49476	142.33228	0	2959.77	.95944613	.95944614	0	2959.77926	.95944613	.95944614
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	0	1.3	20000.0	213.6	0	0	2021	.01318823			2021.6	.01318823	
	CAPACITY, CFS	10.66631	.00218	38.29688	.29530	2.09341	0	40.84	.01318824	.01318823	0	40.84418	.01318824	.01318823
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	0	2.7	41500.0	443.3	0	0	4194	.02736563			41943.3	.02736563	
	CAPACITY, CFS	22.13881	.00444	79.46187	.61303	4.34847	0	84.41	.02736563	.02736563	0	84.41977	.02736563	.02736563
TOTALS	QUANTITY, AF	0	100.0	1516500.0	16200.0	0	0	153270	1.00000000			1532700.0	1.00000000	
	CAPACITY, CFS	809.00000	.16469	2903.70897	22.40519	158.77196	0	3094.88	1.00000000	1.00000000	0	3094.88321	1.00000000	1.00000000
REACH 30 – CASTAIC DAM AND LAKE CASTAIC														
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	QUANTITY, AF	1455000.0	15447.1	1455000.0	15447.1	0		2160.49	.95944609			2160.49236*	.95944609	
	CAPACITY, AF	317780.0	4761.0	317780.0	4761.0	0		32254	.96469162	.96489591#		322541.0	.96569162	.96489591#
VENTURA COUNTY FLOOD CONTROL DISTRICT	QUANTITY, AF	20000.0	212.3	20000.0	212.3	0		29.60	.01318826			29.69749*	.01318826	
	CAPACITY, AF	2652.0	40.0	2652.0	40.0	0		269	.00805988	.00871326#		2692.0	.00805988	.00871326#
UPPER SANTA CLARA VALLEY WATER AGENCY	QUANTITY, AF	41500.0	440.6	41500.0	440.6	0		61.62	.02736565			61.62329*	.02736565	
	CAPACITY, AF	8638.0	129.0	8638.0	129.0	0		876	.02624850	.02639083#		8767.0	.02624850	.02639083#
TOTALS	QUANTITY, AF	1516500.0	16100.0	1516500.0	16100.0	0		2251.81	1.00000000			2251.81214*	1.00000000	
	CAPACITY, AF	329070.0	4930.0	329070.0	4930.0	0		33400	1.00000000	1.00000000#		334000.0	1.00000000	1.00000000#

* CFS CAPACITY FOR CONVEYANCE OF ANNUAL QUANTITIES DELIVERED FROM OR THROUGH THE RESERVOIR, EXCLUDING RESERVOIR LOSSES.
\# SUMMATION OF QUANTITY RATIO WEIGHTED BY .12740522 AND CAPACITY RATIO WEIGHTED BY .87259478.

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)

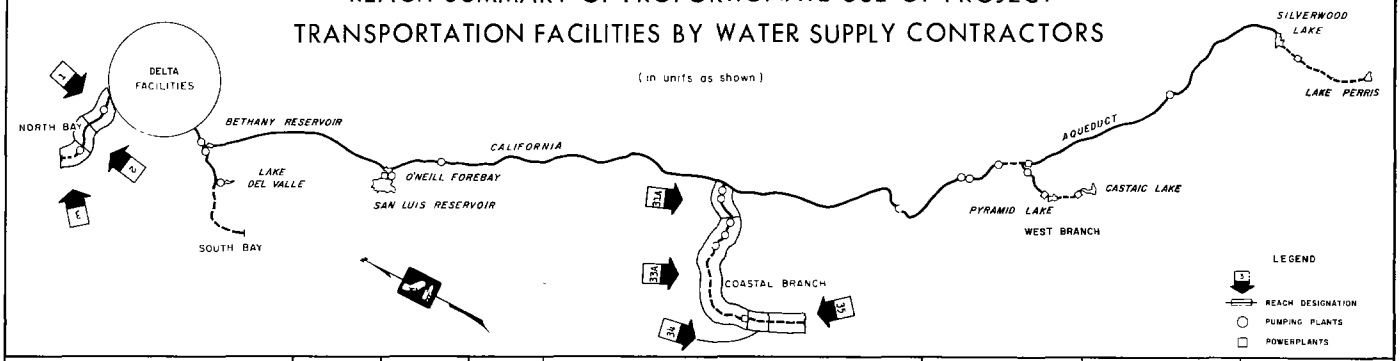


WATER SUPPLY CONTRACTOR	MEASURE OF USE (1)	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH (2)	ESTIMATED OPERATIONAL LOSSES WITHIN REACH (3)	CAPACITY PROVIDED IN REACH: FOR DELIVERY OF ENTITLEMENTS (4)	CAPACITY PROVIDED IN REACH: FOR COMPENSATION OF: OPERATIONAL LOSSES (5)	FOR COMPENSATION OF: SCHEDULED OUTAGES (6)	FOR COMPENSATION OF: DOWNSTREAM REGULATION (7)	SUBTOTAL (8)	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS: RATIOS OF TOTAL REACH USE (9)	AVERAGE OF RATIOS (10)	CAPACITY PROVIDED IN REACH: FOR REQUESTED EXCESS PEAKING (11)	TOTAL FOR WATER SUPPLY CONTRACTORS (12)	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS: RATIOS OF TOTAL REACH USE (13)	AVERAGE OF RATIOS (14)
REACH 1 – BEATHANY RESERVOIR THRU ALTAMONT TURNOUT														
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	QUANTITY, AF	0	85.3	100000.0	1721.6	0	0	10172	.47371862			101721.6	.47371862	
	CAPACITY, CFS	0	.11782	149.02297	2.37801	1.70237	0	153.10	.51034450	.49203156	0	153.10335	.51034450	.49203156
ALAMEDA COUNTY WATER DISTRICT	QUANTITY, AF	0	35.8	42000.0	712.5	0	0	4271	.19891259			42712.5	.19891259	
	CAPACITY, CFS	0	.04905	62.60515	.98417	.71409	0	64.30	.21434770	.20663014	0	64.30431	.21434770	.20663014
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	QUANTITY, AF	0	39.1	46000.0	718.2	0	0	4671	.21756718			46718.2	.21756718	
	CAPACITY, CFS	0	.05401	68.55218	.99203	.78308	0	70.32	.23442430	.22599574	0	70.32729	.23442430	.22599574
FUTURE CONTRACTOR – SOUTH BAY	QUANTITY, AF	0	19.8	22000.0	1577.7	0	0	2357	.10980161			23577.7	.10980161	
	CAPACITY, CFS	0	.02735	9.71128	2.17925	.37452	0	12.26	.04088350	.07534256	0	12.26505	.04088350	.07534256
TOTALS	QUANTITY, AF	0	180.0	210000.0	4730.0	0	0	21473	1.00000000			214730.0	1.00000000	
	CAPACITY, CFS	0	.24863	289.89158	6.53346	3.57496	0	300.00	1.00000000	1.00000000	0	300.00000	1.00000000	1.00000000
REACH 2 – ALTAMONT TURNOUT THRU PATTERSON RESERVOIR														
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	QUANTITY, AF	0	113.7	100000.0	1636.3	0	0	10163	.47371848			101636.3	.47371848	
	CAPACITY, CFS	0	.15705	149.02297	2.26019	1.80551	.01517	153.10	.51034613	.49203231	0	153.10384	.51034613	.49203231
ALAMEDA COUNTY WATER DISTRICT	QUANTITY, AF	0	47.7	42000.0	676.7	0	0	4267	.19891261			42676.7	.19891261	
	CAPACITY, CFS	0	.06589	62.60515	.93472	.75832	.00637	64.30	.21434854	.20663057	0	64.30456	.21434854	.20663057
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	QUANTITY, AF	17000.0	52.2	46000.0	679.1	0	0	4667	.21756747			46679.1	.21756747	
	CAPACITY, CFS	23.48174	.07210	68.55218	.93802	.83053	.00696	70.32	.23442563	.22599655	0	70.32769	.23442563	.22599655
FUTURE CONTRACTOR – SOUTH BAY	QUANTITY, AF	0	26.4	22000.0	1557.9	0	0	2355	.10980144			23557.9	.10980144	
	CAPACITY, CFS	0	.03647	9.71128	2.15190	.39721	.00352	12.26	.04087970	.07534057	0	12.26391	.04087970	.07534057
TOTALS	QUANTITY, AF	17000.0	240.0	210000.0	4550.0	0	0	21455	1.00000000			214550.0	1.00000000	
	CAPACITY, CFS	23.48174	.33151	289.89158	6.28483	3.79157	.03202	300.00	1.00000000	1.00000000	0	300.00000	1.00000000	1.00000000
REACH 4 – PATTERSON RESERVOIR TO DEL VALLE JUNCTION														
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	QUANTITY, AF	0	416.8	100000.0	1522.6	0	0	10152						
	CAPACITY, CFS	0	.57572	149.02297	2.10314	2.11419	.03540	153.27	.51062826			101522.6	.51062826	
ALAMEDA COUNTY WATER DISTRICT	QUANTITY, AF	0	175.0	42000.0	629.0	0	0	4262	.21441110			42629.0	.21441110	
	CAPACITY, CFS	0	.24173	62.60515	.86883	.84796	.01485	64.37	.21458930	.21450020	0	64.37679	.21458930	.21450020
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	QUANTITY, AF	0	121.6	29000.0	626.9	0	1509.0	3113	.15660425			31135.9	.15660425	
	CAPACITY, CFS	0	.16796	45.07044	.86592	.61311	23.49799	70.04	.23349153	.19504789	0	70.04746	.23349153	.19504789
FUTURE CONTRACTOR – SOUTH BAY	QUANTITY, AF	0	96.6	22000.0	1531.5	0	0	2353	.11835639			23531.5	.11835639	
	CAPACITY, CFS	0	.13303	9.71128	2.11543	.46512	.00822	12.30	.04100017	.07967828	0	12.30005	.04100017	.07967828
TOTALS	QUANTITY, AF	0	810.0	193000.0	4310.0	0	1509.0	19881	1.00000000			198819.0	1.00000000	
	CAPACITY, CFS	0	1.11884	266.40984	5.95332	4.04038	23.55646	300.00	1.00000000	1.00000000	0	300.00000	1.00000000	1.00000000
REACH 5 – DEL VALLE JUNCTION THRU LAKE DEL VALLE														
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	QUANTITY AF	0	1105.8	100000.0	1105.8									
	CAPACITY, AF	8936.0	321.0	8936.0	321.0	0		9257.0	.31592778	.31592778		9257.0	.31592778	.31592778
ALAMEDA COUNTY WATER DISTRICT	QUANTITY AF	0	454.0	42000.0	454.0									
	CAPACITY, AF	3669.0	132.0	3669.0	132.0	0		3801.0	.12972254	.12972254		3801.0	.12972254	.12972254
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT ZONE 7	QUANTITY AF	0	505.3	29000.0	505.3									
	CAPACITY, AF	4083.0	147.0	4083.0	147.0	0		4230.0	.14436367	.14436367		4230.0	.14436367	.14436367
FUTURE CONTRACTOR – SOUTH BAY	QUANTITY AF	12000.0	1434.9	22000.0	1434.9									
	CAPACITY AF	11596.0	417.0	11596.0	417.0	0		12013.0	.40998601	.40998601		12013.0	.40998601	.40998601
TOTALS	QUANTITY, AF	12000.0	3500.0	193000.0	3500.0									
	CAPACITY, AF	28284.0	1017.0	28284.0	1017.0	0		2930	1.00000000	1.00000000		29301.0	1.00000000	1.00000000
REACH 6 – DEL VALLE JUNCTION THRU SOUTH LIVERMORE TURNOUT														
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	QUANTITY, AF	0	0	100000.0	0	0	0	10000	.55248619			100000.0	.55248619	
	CAPACITY, CFS	0	0	184.00000	0	0	0	184.00	.50688705	.52968662	0	184.00000	.50688705	.52968662
ALAMEDA COUNTY WATER DISTRICT	QUANTITY, AF	0	0	42000.0	0	0	0	4200	.23204420			42000.0	.23204420	
	CAPACITY, CFS	0	0	76.57808	0	0	0	76.57	.21095890	.22150155	0	76.57808	.21095890	.22150155
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	QUANTITY, AF	29000.0	0	29000.0	0	0	0	2900	.16022099			29000.0	.16022099	
	CAPACITY, CFS	52.87534	0	58.00000	0	0	0	58.00	.15977961	.16000030	0	58.00000	.15977961	.16000030
FUTURE CONTRACTOR – SOUTH BAY	QUANTITY, AF	0	0	10000.0	0	0	0	1000	.05524862			10000.0	.05524862	
	CAPACITY, CFS	0	0	44.42192	0	0	0	44.42	.12237444	.08881153	0	44.42192	.12237444	.08881153
TOTALS	QUANTITY, AF	29000.0	0	181000.0	0	0	0	18100	1.00000000			181000.0	1.00000000	
	CAPACITY, CFS	52.87534	0	363.00000	0	0	0	363.00	1.00000000	1.00000000	0	363.00000	1.00000000	1.00000000
REACH 7 – SOUTH LIVERMORE TURNOUT THRU VALLECITOS TURNOUT														
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	QUANTITY, AF	0	0	100000.0	0	0	0	10000	.65789474			100000.0	.65789474	
	CAPACITY, CFS	0	0	184.00000	0	0	0	184.00	.60327869	.63058671	0	184.00000	.60327869	.63058671
ALAMEDA COUNTY WATER DISTRICT	QUANTITY, AF	37000.0	0	42000.0	0	0	0	4200	.27631579			42000.0	.27631579	
	CAPACITY, CFS	67.46165	0	76.57808	0	0	0	76.57	.25107567	.26369573	0	76.57808	.25107567	.26369573
FUTURE CONTRACTOR – SOUTH BAY	QUANTITY, AF	-15000.0	0	10000.0	0	0	0	1000	.06578947			10000.0	.06578947	
	CAPACITY, CFS	-27.34932	0	44.42192	0	0	0	44.42	.14564564	.10571756	0	44.42192	.14564564	.10571756
TOTALS	QUANTITY, AF	22000.0	0	152000.0	0	0	0	15200	1.00000000			152000.0	1.00000000	
	CAPACITY, CFS	40.11233	0	305.00000	0	0	0	305.00	1.00000000	1.00000000	0	305.00000	1.00000000	1.00000000
REACH 8 – VALLECITOS TURNOUT THRU ALAMEDA BAYSIDE TURNOUT														
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	QUANTITY, AF	0	0	100000.0	0	0	0	10000	.76923077			100000.0	.76923077	
	CAPACITY, CFS	0	0	184.00000	0	0	0	184.00	.72156863	.74539970	0	184.00000	.72156863	.74539970
ALAMEDA COUNTY WATER DISTRICT	QUANTITY, AF	5000.0	0	5000.0	0	0	0	500	.03846154			5000.0	.03846154	
	CAPACITY, CFS	16.00000	0	16.00000	0	0	0	16.00	.06274510	.05060332	0	16.00000	.06274510	.05060332
FUTURE CONTRACTOR – SOUTH BAY	QUANTITY, AF	25000.0	0	25000.0	0	0	0	2500	.19230769			25000.0	.19230769	
	CAPACITY, CFS	45.58219	0	55.00000	0	0	0	55.00	.21568627	.20399698	0	55.00000	.21568627	.20399698
TOTALS	QUANTITY, AF	30000.0	0	130000.0	0	0	0	13000	1.00000000			130000.0	1.00000000	
	CAPACITY, CFS	61.58219	0	255.00000	0	0	0	255.00	1.00000000	1.00000000	0	255.00000	1.00000000	1.00000000
REACH 9 – ALAMEDA-BAYSIDE TURNOUT THRU SANTA CLARA TERMINAL FACILITIES														
SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	QUANTITY, AF	100000.0	0	100000.0	0	0	0	10000	1.00000000			100000.0	1.00000000	
	CAPACITY, CFS	184.00000	0	184.00000	0	0	0	184.00	1.00000000	1.00000000	0	184.00000	1.00000000	1.00000000
TOTALS	QUANTITY, AF	100000.0	0	100000.0	0	0	0	10000	1.00000000			100000.0	1.00000000	
	CAPACITY, CFS	184.00000	0	184.00000	0	0	0	184.00	1.00000000	1.00000000	0	184.00000	1.00000000	1.00000000

TABLE B-2 (Continued)

REACH SUMMARY OF PROPORTIONATE USE OF PROJECT TRANSPORTATION FACILITIES BY WATER SUPPLY CONTRACTORS

(in units as shown)



WATER SUPPLY CONTRACTOR	MEASURE OF USE	MAXIMUM ANNUAL ENTITLEMENTS DELIVERED FROM REACH	ESTIMATED OPERATIONAL LOSSES WITHIN REACH	CAPACITY PROVIDED IN REACH FOR CONVEYANCE OF ENTITLEMENTS	CAPACITY PROVIDED IN REACH FOR COMPENSATION OF OPERATIONAL LOSSES	CAPACITY PROVIDED IN REACH FOR COMPENSATION OF SCHEDULED OUTAGES	CAPACITY PROVIDED IN REACH FOR COMPENSATION OF DOWNSTREAM REGULATION	CAPACITY PROVIDED IN REACH SUBTOTAL	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS RATIOS OF TOTAL REACH USE	PROPORTIONATE USE FOR ALLOCATION OF CAPITAL COSTS AVERAGE OF RATIOS	CAPACITY PROVIDED IN REACH FOR REQUESTED EXCESS CAPACITY	CAPACITY PROVIDED IN REACH TOTAL FOR WATER SUPPLY CONTRACTORS	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS RATIOS OF TOTAL REACH USE	PROPORTIONATE USE FOR ALLOCATION OF MINIMUM OMP&R COSTS AVERAGE OF RATIOS
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
REACH 31A – AVENAL GAP TO DEVIL'S DEN PUMPING PLANT														
KERN COUNTY WATER AGENCY AGRICULTURE	QUANTITY, AF CAPACITY, CFS	105100.0 283.00000	725.9 1.19478	105100.0 283.00000	725.9 1.19478	0 0	0 0	10582 284.19	.51850024 .63242356	.57546190	0	105825.9 284.19478	.51850024 .63242356	.57546190
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	410.5 .67565	57700.0 79.69077	2150.1 3.20822	0 6.11693	0 0	5486 89.01	.26923910 .19808644	.24566277	0	59850.1 89.01492	.26923910 .19808644	.24566277
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	175.9 .28942	25000.0 34.53147	636.3 .98102	0 2.61585	0 0	2561 38.12	.12560657 .08484877	.10522767	0	25636.3 38.12884	.12560657 .08484877	.10522767
DEVIL S DEN WATER DISTRICT	QUANTITY, AF CAPACITY, CFS	12700.0 37.49123	87.7 .14435	12700.0 37.49123	87.7 .14435	0 0	0 0	1275 38.07	.06265409 .08464123	.07364766	0	12787.7 38.03558	.06265409 .08464123	.07364766
TOTALS	QUANTITY, AF CAPACITY, CFS	117800.0 320.89123	1400.0 2.30430	200500.0 435.12297	3600.0 5.52837	0 8.72278	0 0	20410 449.37	1.00000000 1.00000000	1.00000000	0	204100.0 449.37412	1.00000000 1.00000000	1.00000000
REACH 33A – DEVIL'S DEN PUMPING PLANT THRU SAN LUIS OBISPO POWERPLANT														
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	490.1 .80667	57700.0 79.69077	1739.6 2.43257	0 6.11693	0 0	5983 88.33	.70011307 .70011299	.70011303	0	59439.6 88.33927	.70011307 .70011299	.70011303
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	10000.0 13.81279	209.9 .34548	25000.0 34.53197	460.4 .69158	0 2.61585	0 0	2546 37.84	.29988693 .29988701	.29988697	0	25460.4 37.83932	.29988693 .29988701	.29988697
TOTALS	QUANTITY, AF CAPACITY, CFS	10000.0 13.81279	700.0 1.15215	82700.0 114.23174	2200.0 3.22407	0 8.72278	0 0	8490 126.17	1.00000000 1.00000000	1.00000000	0	84900.0 126.17859	1.00000000 1.00000000	1.00000000
REACH 34 – SAN LUIS OBISPO POWERPLANT TO ARROYO GRANDE														
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	307.2 .58464	57700.0 79.69077	1244.5 1.72540	0 6.11693	0 0	5948 87.57	.79446765 .79446756	.79446761	0	58989.5 87.53260	.79446765 .79446756	.79446761
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	5000.0 6.90639	102.8 .14200	15000.0 20.71918	250.5 .34602	0 1.57086	0 0	1526 22.64	.20553235 .20553244	.20553239	0	15250.5 22.64509	.20553235 .20553244	.20553239
TOTALS	QUANTITY, AF CAPACITY, CFS	5000.0 6.90639	500.0 .69064	72700.0 100.41495	1500.0 2.07142	0 7.68682	0 0	7474 110.17	1.00000000 1.00000000	1.00000000	0	74200.0 110.17769	1.00000000 1.00000000	1.00000000
REACH 35 – ARROYO GRANDE TO SANTA MARIA TERMINUS														
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	57700.0 79.69077	852.3 1.17726	57700.0 79.69077	852.3 1.17726	0 6.11693	0 0	5955 86.99	.85228967 .85228958	.85228962	0	58552.3 86.94201	.85228967 .85228958	.85228962
SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	10000.0 13.81279	147.7 .20402	10000.0 13.81279	147.7 .20402	0 1.08126	0 0	1414 15.06	.14771033 .14771042	.14771038	0	10147.7 15.06807	.14771033 .14771042	.14771038
TOTALS	QUANTITY, AF CAPACITY, CFS	67700.0 93.51256	1000.0 1.38128	67700.0 93.51256	1000.0 1.38128	0 7.11704	0 0	6970 102.01	1.00000000 1.00000000	1.00000000	0	68700.0 102.01088	1.00000000 1.00000000	1.00000000

REACH 1 – LINDSEY SLOUGH TO SUISUN CITY														
NAPA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	308.1 .65594	25000.0 45.58219	557.3 .91727	0 0	0 0	2555 46.40	.39808879 .39808874	.39808876	0	25557.3 46.49946	.39808879 .39808874	.39808876
SOLANO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	601.9 .90049	37800.0 68.92028	842.7 1.38703	0 0	0 0	3864 70.30	.60191121 .60191126	.60191124	0	38642.7 70.30731	.60191121 .60191126	.60191124
TOTALS	QUANTITY, AF CAPACITY, CFS	0 0	1000.0 1.64593	62800.0 114.50247	1400.0 2.30430	0 0	0 0	6420 116.80	1.00000000 1.00000000	1.00000000	0	64200.0 116.80677	1.00000000 1.00000000	1.00000000
REACH 2 – SUISUN CITY TO CORDELIA PUMPING PLANT														
NAPA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	0 0	159.2 .26203	25000.0 45.58219	159.2 .26203	0 0	0 0	2515 45.84	.39808861 .39808862	.39808861	0	25159.2 45.84422	.39808861 .39808862	.39808861
SOLANO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	37800.0 68.92028	240.8 .39634	37800.0 68.92028	240.8 .39634	0 0	0 0	3808 69.31	.60191139 .60191138	.60191139	0	38040.8 69.31662	.60191139 .60191138	.60191139
TOTALS	QUANTITY, AF CAPACITY, CFS	37800.0 68.92028	400.0 .65837	62800.0 114.50247	400.0 .65837	0 0	0 0	6320 115.16	1.00000000 1.00000000	1.00000000	0	63200.0 115.16084	1.00000000 1.00000000	1.00000000
REACH 3 – CORDELIA PUMPING PLANT TO NAPA TURNOUT RESERVOIR														
NAPA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	QUANTITY, AF CAPACITY, CFS	25000.0 45.58219	0 0	25000.0 45.58219	0 0	0 0	0 0	2500 45.58	1.00000000 1.00000000	1.00000000	0	25000.0 45.58219	1.00000000 1.00000000	1.00000000
TOTALS	QUANTITY, AF CAPACITY, CFS	25000.0 45.58219	0 0	25000.0 45.58219	0 0	0 0	0 0	2500 45.58	1.00000000 1.00000000	1.00000000	0	25000.0 45.58219	1.00000000 1.00000000	1.00000000

TABLE B-3

ANNUAL QUANTITIES CONVEYED THROUGH EACH PUMPING AND POWER RECOVERY PLANT

(in acre-feet)

CALENDAR YEAR	NORTH BAY AQUEDUCT										SOUTH BAY AQUEDUCT				
	CALHOUN PUMPING PLANT					CORDELIA PUMPING PLANT					SOUTH BAY PUMPING PLANT				
	Construction Water	Operational Losses	Deliveries		Total	Construction Water	Operational Losses	Deliveries		Total 1/	Construction Water	Operational Losses	Deliveries		Total
			Water Supply	Recreation				Water Supply 1/	Recreation				Water Supply	Recreation	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1962	0	0	0	0	0	0	0	0	0	0	9	272	8,906	0	9,187
63	0	0	0	0	0	0	0	0	0	0	71	185	12,645	0	12,901
64	0	0	0	0	0	0	0	0	0	0	171	152	20,911	0	21,234
65	0	0	0	0	0	0	0	0	0	0	93	729	34,026	0	34,848
66	0	0	0	0	0	0	0	0	0	0	0	1,746	54,913	0	56,659
67	0	0	0	0	0	0	0	0	0	0	0	1,677	56,763	0	58,440
68	0	0	0	0	0	0	0	2,045	0	2,045	0	1,230	119,900	0	121,130
69	0	0	0	0	0	0	0	3,700	0	3,700	10,000	4,730	112,300	0	127,030
1970	0	0	0	0	0	0	0	4,013	0	4,013	0	4,730	114,200	0	118,930
71	0	0	0	0	0	0	0	4,366	0	4,366	0	4,730	116,200	0	120,930
72	0	0	0	0	0	0	0	4,650	0	4,650	0	4,730	118,300	0	123,030
73	0	0	0	0	0	0	0	5,800	0	5,800	0	4,730	120,400	0	125,130
74	0	0	0	0	0	0	0	6,700	0	6,700	0	4,730	122,400	0	127,130
75	0	0	0	0	0	0	0	7,700	0	7,700	0	4,730	124,500	0	129,230
76	0	0	0	0	0	0	0	8,600	0	8,600	0	4,730	126,500	0	131,230
77	0	0	0	0	0	0	0	9,600	0	9,600	0	4,730	128,600	0	133,330
78	0	0	0	0	0	0	0	10,500	0	10,500	0	4,730	130,700	0	135,430
79	0	0	0	0	0	0	0	11,500	0	11,500	0	4,730	132,700	0	137,430
1980	120	1,400	19,250	0	20,770	0	0	12,500	0	12,500	0	4,730	134,800	0	139,530
81	0	1,400	21,750	0	23,150	0	0	13,750	0	13,750	0	4,730	137,000	0	141,730
82	0	1,400	24,400	0	25,800	0	0	15,000	0	15,000	0	4,730	139,200	0	143,930
83	0	1,400	27,050	0	28,450	0	0	16,250	0	16,250	0	4,730	141,400	0	146,130
84	0	1,400	29,600	0	31,000	0	0	17,500	0	17,500	0	4,730	143,600	0	148,330
85	0	1,400	32,750	0	34,150	0	0	18,750	0	18,750	0	4,730	145,800	0	150,530
86	0	1,400	36,500	0	37,900	0	0	20,000	0	20,000	0	4,730	148,100	0	152,830
87	0	1,400	41,250	0	42,650	0	0	21,250	0	21,250	0	4,730	150,300	0	155,030
88	0	1,400	49,500	0	50,900	0	0	22,500	0	22,500	0	4,730	152,500	0	157,230
89	0	1,400	58,250	0	59,650	0	0	23,750	0	23,750	0	4,730	156,700	0	161,430
1990	0	1,400	62,800	0	64,200	0	0	25,000	0	25,000	0	4,730	160,900	0	165,630
91	0	1,400	62,800	0	64,200	0	0	25,000	0	25,000	0	4,730	166,400	0	171,130
92	0	1,400	62,800	0	64,200	0	0	25,000	0	25,000	0	4,730	171,900	0	176,630
93	0	1,400	62,800	0	64,200	0	0	25,000	0	25,000	0	4,730	177,400	0	182,130
94	0	1,400	62,800	0	64,200	0	0	25,000	0	25,000	0	4,730	182,000	0	186,730
95	0	1,400	62,800	0	64,200	0	0	25,000	0	25,000	0	4,730	184,000	0	188,730
96	0	1,400	62,800	0	64,200	0	0	25,000	0	25,000	0	4,730	186,000	0	190,730
97	0	1,400	62,800	0	64,200	0	0	25,000	0	25,000	0	4,730	188,000	0	192,730
98	0	1,400	62,800	0	64,200	0	0	25,000	0	25,000	0	4,730	188,000	0	192,730
99 2/	0	1,400	62,800	0	64,200	0	0	25,000	0	25,000	0	4,730	188,000	0	192,730
2000 2/	0	1,400	62,800	0	64,200	0	0	25,000	0	25,000	0	4,730	188,000	0	192,730

1/ Between 1968 and 1979 inclusive, annual quantities delivered are nonproject water pumped through an interim facility.
2/ And each year thereafter for the remainder of the project repayment period.

TABLE B-3 (Continu d)

ANNUAL QUANTITIES CONVEYED THROUGH EACH PUMPING AND POWER RECOVERY PLANT

(in acre-feet)

CALENDAR YEAR	CALIFORNIA AQUEDUCT																	
	NORTH SAN JOAQUIN DIVISION							SAN LUIS DIVISION					SOUTH SAN JOAQUIN DIVISION					
	DELTA PUMPING PLANT							DOS AMIGOS PUMPING PLANT					BUENA VISTA PUMPING PLANT					
	Transportation Water					Conservation Water[1]	Total	Construction Water	Operational Losses	Deliveries		Total	Construction Water	Operational Losses	Deliveries		Total
	Construction Water	Operational Losses	Deliveries		Total					Water Supply	Recreation				Water Supply	Recreation	
			Water Supply	Recreation													
	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	6,842	1,341	11,538	0	19,721	1,703	21,424	0	0	0	0	0	0	0	0	0	0
68	11,032	93,522	360,497	0	465,051	353,252	818,303	11,032	56,547	236,297	0	303,876	0	0	0	0	0
69	16,808	101,181	263,900	0	381,889	686,352	1,068,241	6,808	60,706	149,100	0	216,614	0	0	0	0	0
1970	6,834	127,227	321,400	0	455,461	193,252	648,713	6,834	86,752	204,600	0	298,186	6,834	12,627	0	0	19,461
71	136,592	148,695	454,700	9,500	749,487	46,352	795,839	136,592	108,220	335,700	9,500	590,012	136,592	34,095	92,000	0	262,687
72	193,629	175,600	838,070	23,500	1,230,799	46,352	1,277,151	193,629	135,125	716,870	23,500	1,069,124	193,629	61,000	419,670	14,000	688,299
73	105,000	181,609	1,001,100	23,500	1,311,209	46,352	1,357,561	105,000	141,134	877,600	23,500	1,147,234	105,000	67,009	545,700	14,000	731,709
74	142,480	188,700	1,162,220	23,500	1,516,900	46,352	1,563,252	142,480	148,225	1,036,620	23,500	1,350,825	142,480	74,100	657,820	14,000	888,400
75	29,401	189,800	1,325,950	23,500	1,568,651	46,352	1,615,003	29,401	149,325	1,198,050	23,500	1,400,276	29,401	75,200	781,150	14,000	899,751
76	0	189,800	1,502,380	23,500	1,715,680	46,352	1,762,032	0	149,325	1,372,380	23,500	1,545,205	0	75,200	912,080	14,000	1,001,280
77	0	189,800	1,679,501	23,500	1,892,801	46,352	1,939,153	0	149,325	1,547,201	23,500	1,720,026	0	75,200	1,041,201	14,000	1,130,401
78	0	189,800	1,856,922	23,500	2,070,222	46,352	2,116,574	0	149,325	1,722,322	23,500	1,895,147	0	75,200	1,171,722	14,000	1,260,922
79	0	189,800	2,031,473	23,500	2,244,773	46,352	2,291,125	0	149,325	1,894,773	23,500	2,067,598	0	75,200	1,300,773	14,000	1,389,973
1980	87,826	201,800	2,218,914	45,500	2,554,040	46,352	2,600,392	87,826	161,325	2,079,914	45,500	2,374,565	87,626	85,000	1,440,114	20,000	1,632,740
81	9,082	201,800	2,405,465	45,500	2,661,847	46,352	2,708,199	9,082	161,325	2,264,165	45,500	2,480,072	9,082	85,000	1,575,465	20,000	1,689,547
82	0	201,800	2,591,806	45,500	2,839,106	46,352	2,885,458	0	161,325	2,448,106	45,500	2,654,931	0	85,000	1,710,206	20,000	1,815,206
83	0	201,800	2,784,057	45,500	3,031,357	46,352	3,077,709	0	161,325	2,638,057	45,500	2,844,882	0	85,000	1,848,857	20,000	1,953,857
84	0	201,800	2,974,398	45,500	3,221,698	46,352	3,268,050	0	161,325	2,825,998	45,500	3,032,823	0	85,000	1,985,298	20,000	2,090,298
85	0	201,800	3,168,949	45,500	3,416,249	46,352	3,462,601	0	161,325	3,018,249	45,500	3,225,074	0	85,000	2,122,449	20,000	2,227,449
86	0	201,800	3,362,290	45,500	3,609,590	46,352	3,655,942	0	161,325	3,209,090	45,500	3,415,915	0	85,000	2,261,190	20,000	2,366,190
87	0	201,800	3,558,241	45,500	3,805,541	46,352	3,851,893	0	161,325	3,402,741	45,500	3,609,566	0	85,000	2,402,341	20,000	2,507,341
88	0	201,800	3,752,782	45,500	4,000,082	46,352	4,046,434	0	161,325	3,594,882	45,500	3,801,707	0	85,000	2,544,182	20,000	2,649,182
89	0	201,800	3,941,133	45,500	4,188,433	46,352	4,234,785	0	161,325	3,778,833	45,500	3,985,658	0	85,000	2,681,933	20,000	2,786,933
1990	0	201,800	4,088,700	45,500	4,336,000	46,352	4,382,352	0	161,325	3,922,100	45,500	4,128,925	0	85,000	2,769,300	20,000	2,874,300
91	0	201,800	4,101,600	45,500	4,348,900	46,352	4,395,252	0	161,325	3,929,500	45,500	4,136,325	0	85,000	2,776,700	20,000	2,881,700
92	0	201,800	4,107,100	45,500	4,354,400	46,352	4,400,752	0	161,325	3,929,500	45,500	4,136,325	0	85,000	2,776,700	20,000	2,881,700
93	0	201,800	4,112,600	45,500	4,359,900	46,352	4,406,252	0	161,325	3,929,500	45,500	4,136,325	0	85,000	2,776,700	20,000	2,881,700
94	0	201,800	4,117,200	45,500	4,364,500	46,352	4,410,852	0	161,325	3,929,500	45,500	4,136,325	0	85,000	2,776,700	20,000	2,881,700
95	0	201,800	4,119,200	45,500	4,366,500	46,352	4,412,852	0	161,325	3,929,500	45,500	4,136,325	0	85,000	2,776,700	20,000	2,881,700
96	0	201,800	4,121,200	45,500	4,368,500	46,352	4,414,852	0	161,325	3,929,500	45,500	4,136,325	0	85,000	2,776,700	20,000	2,881,700
97	0	201,800	4,123,200	45,500	4,370,500	46,352	4,416,852	0	161,325	3,929,500	45,500	4,136,325	0	85,000	2,776,700	20,000	2,881,700
98	0	201,800	4,123,200	45,500	4,370,500	46,352	4,416,852	0	161,325	3,929,500	45,500	4,136,325	0	85,000	2,776,700	20,000	2,881,700
99[2]	0	201,800	4,123,200	45,500	4,370,500	46,352	4,416,852	0	161,325	3,929,500	45,500	4,136,325	0	85,000	2,776,700	20,000	2,881,700
2000[2]	0	201,800	4,123,200	45,500	4,370,500	46,352	4,416,852	0	161,325	3,929,500	45,500	4,136,325	0	85,000	2,776,700	20,000	2,881,700

1/ Consists of construction water and operational losses allocated to conservation features from the Delta through San Luis Reservoir.
2/ And each year thereafter for the remainder of the project repayment period.

TABLE B-3 (Continued)

ANNUAL QUANTITIES CONVEYED THROUGH EACH PUMPING AND POWER RECOVERY PLANT

(in acre-feet)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)														
	SOUTH SAN JOAQUIN DIVISION (Continued)										TEHACHAPI DIVISION				
	WHEELER RIDGE PUMPING PLANT					WIND GAP PUMPING PLANT					A. D. EDMONSTON PUMPING PLANT				
	Construction Water	Operational Losses	Deliveries		Total	Construction Water	Operational Losses	Deliveries		Total	Construction Water	Operational Losses	Deliveries		Total
			Water Supply	Recreation				Water Supply	Recreation				Water Supply	Recreation	
	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	2,312	1,980	0	0	4,292	2,000	1,688	0	0	3,688	0	0	0	0	0
71	136,592	21,295	82,800	0	240,687	136,592	20,495	82,800	0	239,887	136,592	15,195	80,300	0	232,087
72	193,629	48,200	385,170	14,000	640,999	193,629	47,400	377,970	14,000	632,999	193,629	42,100	375,270	14,000	624,999
73	105,000	54,209	504,900	14,000	678,109	105,000	53,409	493,200	14,000	665,609	105,000	48,109	490,400	14,000	657,509
74	142,480	61,300	622,320	14,000	840,100	142,480	60,500	608,620	14,000	825,600	142,480	55,200	605,620	14,000	817,300
75	29,401	62,400	741,950	14,000	847,751	29,401	61,600	724,550	14,000	829,551	29,401	56,300	721,250	14,000	820,951
76	0	62,400	865,080	14,000	941,480	0	61,600	844,780	14,000	920,380	0	56,300	841,080	14,000	911,380
77	0	62,400	984,101	14,000	1,060,501	0	61,600	961,601	14,000	1,037,201	0	56,300	957,601	14,000	1,027,901
78	0	62,400	1,107,522	14,000	1,183,922	0	61,600	1,083,322	14,000	1,158,922	0	56,300	1,075,522	14,000	1,145,822
79	0	62,400	1,231,173	14,000	1,307,573	0	61,600	1,205,473	14,000	1,281,073	0	56,300	1,192,073	14,000	1,262,373
1980	87,626	72,200	1,364,714	20,000	1,544,540	87,626	71,400	1,337,314	20,000	1,516,340	87,626	66,100	1,318,014	20,000	1,491,740
81	9,082	72,200	1,490,265	20,000	1,591,547	9,082	71,400	1,461,165	20,000	1,561,647	9,082	66,100	1,437,865	20,000	1,533,047
82	0	72,200	1,616,606	20,000	1,708,806	0	71,400	1,585,806	20,000	1,677,206	0	66,100	1,558,106	20,000	1,644,206
83	0	72,200	1,743,257	20,000	1,835,457	0	71,400	1,710,057	20,000	1,801,457	0	66,100	1,678,657	20,000	1,764,757
84	0	72,200	1,871,898	20,000	1,964,098	0	71,400	1,836,798	20,000	1,928,198	0	66,100	1,799,498	20,000	1,885,598
85	0	72,200	1,999,749	20,000	2,091,949	0	71,400	1,961,649	20,000	2,053,049	0	66,100	1,920,849	20,000	2,006,949
86	0	72,200	2,129,690	20,000	2,221,890	0	71,400	2,088,490	20,000	2,179,890	0	66,100	2,043,590	20,000	2,129,690
87	0	72,200	2,261,141	20,000	2,353,341	0	71,400	2,216,641	20,000	2,308,041	0	66,100	2,167,241	20,000	2,253,341
88	0	72,200	2,393,782	20,000	2,485,982	0	71,400	2,346,182	20,000	2,437,582	0	66,100	2,292,082	20,000	2,378,182
89	0	72,200	2,524,833	20,000	2,617,033	0	71,400	2,474,833	20,000	2,566,233	0	66,100	2,417,133	20,000	2,503,233
1990	0	72,200	2,605,900	20,000	2,698,100	0	71,400	2,553,800	20,000	2,645,200	0	66,100	2,492,100	20,000	2,578,200
91	0	72,200	2,613,300	20,000	2,705,500	0	71,400	2,561,200	20,000	2,652,600	0	66,100	2,499,500	20,000	2,585,600
92	0	72,200	2,613,300	20,000	2,705,500	0	71,400	2,561,200	20,000	2,652,600	0	66,100	2,499,500	20,000	2,585,600
93	0	72,200	2,613,300	20,000	2,705,500	0	71,400	2,561,200	20,000	2,652,600	0	66,100	2,499,500	20,000	2,585,600
94	0	72,200	2,613,300	20,000	2,705,500	0	71,400	2,561,200	20,000	2,652,600	0	66,100	2,499,500	20,000	2,585,600
95	0	72,200	2,613,300	20,000	2,705,500	0	71,400	2,561,200	20,000	2,652,600	0	66,100	2,499,500	20,000	2,585,600
96	0	72,200	2,613,300	20,000	2,705,500	0	71,400	2,561,200	20,000	2,652,600	0	66,100	2,499,500	20,000	2,585,600
97	0	72,200	2,613,300	20,000	2,705,500	0	71,400	2,561,200	20,000	2,652,600	0	66,100	2,499,500	20,000	2,585,600
98	0	72,200	2,613,300	20,000	2,705,500	0	71,400	2,561,200	20,000	2,652,600	0	66,100	2,499,500	20,000	2,585,600
99	0	72,200	2,613,300	20,000	2,705,500	0	71,400	2,561,200	20,000	2,652,600	0	66,100	2,499,500	20,000	2,585,600
2000 1/	0	72,200	2,613,300	20,000	2,705,500	0	71,400	2,561,200	20,000	2,652,600	0	66,100	2,499,500	20,000	2,585,600

1/ And each year thereafter for the remainder of the project repayment period.

TABLE B-3 (Continued)

ANNUAL QUANTITIES CONVEYED THROUGH EACH PUMPING AND POWER RECOVERY PLANT

(in acre-feet)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)															
	MOJAVE DIVISION										SANTA ANA DIVISION					
	COTTONWOOD POWERPLANT					PEARBLOSSOM PUMPING PLANT					DEVIL CANYON POWERPLANT					
	Construction Water	Operational Losses	Deliveries		Total	Construction Water	Operational Losses	Deliveries		Total	Construction Water	Operational Losses	Deliveries		Total
			Water Supply	Recreation				Water Supply	Recreation				Water Supply	Recreation	
	(48)	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)	(61)	(62)
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	14,833	4,865	0	0	19,698	11,879	1,631	0	0	13,510	272	0	0	0	272
72	68,519	27,400	154,101	9,000	259,020	68,519	13,500	132,980	5,000	219,999	0	0	124,000	0	124,000
73	0	29,500	188,700	9,000	227,200	0	15,600	160,470	5,000	181,070	0	0	148,900	0	148,900
74	0	29,500	222,520	9,000	261,020	0	15,600	187,860	5,000	208,460	0	0	173,600	0	173,600
75	0	29,500	246,750	9,000	285,250	0	15,600	205,650	5,000	226,250	0	0	188,800	0	188,800
76	0	29,500	290,280	9,000	328,780	0	15,600	238,740	5,000	259,340	0	0	219,200	0	219,200
77	0	29,500	330,801	9,000	369,301	0	15,600	271,851	5,000	292,451	0	0	249,621	0	249,621
78	0	29,500	372,322	9,000	410,822	0	15,600	305,062	5,000	325,662	0	0	280,242	0	280,242
79	0	29,500	412,573	9,000	451,073	0	15,600	338,273	5,000	358,873	0	0	310,763	0	310,763
1980	87,626	39,300	461,214	15,000	603,140	87,626	25,400	379,684	11,000	503,710	87,455	9,800	342,784	6,000	446,039
81	9,082	39,300	503,765	15,000	567,147	9,082	25,400	415,795	11,000	461,277	9,082	9,800	375,205	6,000	400,087
82	0	39,300	571,706	15,000	626,006	0	24,400	476,706	11,000	513,106	0	9,800	432,526	6,000	448,326
83	0	39,300	639,957	15,000	694,257	0	25,400	537,817	11,000	574,217	0	9,800	489,947	6,000	505,747
84	0	39,300	708,498	15,000	762,798	0	25,400	599,328	11,000	635,728	0	9,800	547,768	6,000	563,568
85	0	39,300	777,449	15,000	831,749	0	25,400	661,139	11,000	697,539	0	9,800	605,989	6,000	621,789
86	0	39,300	846,980	15,000	901,280	0	25,400	723,640	11,000	760,040	0	9,800	664,700	6,000	680,500
87	0	39,300	863,110	15,000	917,410	0	25,400	732,730	11,000	769,130	0	9,800	670,100	6,000	685,900
88	0	39,300	879,330	15,000	933,630	0	25,400	741,820	11,000	778,220	0	9,800	675,500	6,000	691,300
89	0	39,300	895,860	15,000	950,160	0	25,400	751,110	11,000	787,510	0	9,800	680,900	6,000	696,700
1990	0	39,300	973,600	15,000	1,027,900	0	25,400	821,900	11,000	858,300	0	9,800	686,800	6,000	702,600
91	0	39,300	981,000	15,000	1,035,300	0	25,400	823,000	11,000	859,400	0	9,800	687,900	6,000	703,700
92	0	39,300	981,000	15,000	1,035,300	0	25,400	823,000	11,000	859,400	0	9,800	687,900	6,000	703,700
93	0	39,300	981,000	15,000	1,035,300	0	25,400	823,000	11,000	859,400	0	9,800	687,900	6,000	703,700
94	0	39,300	981,000	15,000	1,035,300	0	25,400	823,000	11,000	859,400	0	9,800	687,900	6,000	703,700
95	0	39,300	981,000	15,000	1,035,300	0	25,400	823,000	11,000	859,400	0	9,800	687,900	6,000	703,700
96	0	39,300	981,000	15,000	1,035,300	0	25,400	823,000	11,000	859,400	0	9,800	687,900	6,000	703,700
97	0	39,300	981,000	15,000	1,035,300	0	25,400	823,000	11,000	859,400	0	9,800	687,900	6,000	703,700
98	0	39,300	981,000	15,000	1,035,300	0	25,400	823,000	11,000	859,400	0	9,800	687,900	6,000	703,700
99	0	39,300	981,000	15,000	1,035,300	0	25,400	823,000	11,000	859,400	0	9,800	687,900	6,000	703,700
2000[1/]	0	39,300	981,000	15,000	1,035,300	0	25,400	823,000	11,000	859,400	0	9,800	687,900	6,000	703,700

1/ And each year thereafter for the remainder of the project repayment period.

TABLE B-3 (Continued)

ANNUAL QUANTITIES CONVEYED

THROUGH EACH PUMPING AND POWER RECOVERY PLANT

(in acre-feet)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)														
	WEST BRANCH, CALIFORNIA AQUEDUCT														
	OSO PUMPING PLANT					PYRAMID POWERPLANT					CASTAIC POWERPLANT				
	Construction Water	Operational Losses	Deliveries		Total	Construction Water	Operational Losses	Deliveries		Total	Construction Water	Operational Losses	Deliveries		Total
			Water Supply	Recreation				Water Supply	Recreation				Water Supply	Recreation	
	(63)	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)	(73)	(74)	(75)	(76)	(77)
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	121,604	10,230	80,000	0	211,834	120,983	7,669	80,000	0	208,652	117,283	7,669	80,000	0	204,952
72	125,110	14,600	220,669	5,000	365,379	125,110	11,600	220,000	5,000	361,710	125,110	11,600	220,000	5,000	361,710
73	105,000	18,509	301,200	5,000	429,709	105,000	15,509	301,200	5,000	426,709	0	12,500	301,200	5,000	318,700
74	142,480	25,600	382,500	5,000	555,580	142,480	22,600	382,500	5,000	552,580	77,680	16,200	382,500	5,000	481,380
75	29,401	26,700	473,800	5,000	534,901	29,401	23,700	473,800	5,000	531,901	29,401	16,200	473,800	5,000	524,401
76	0	26,700	550,000	5,000	581,700	0	23,700	550,000	5,000	578,700	0	16,200	550,000	5,000	571,200
77	0	26,700	626,000	5,000	657,700	0	23,700	626,000	5,000	654,700	0	16,200	626,000	5,000	647,200
78	0	26,700	702,300	5,000	734,000	0	23,700	702,300	5,000	731,000	0	16,200	702,300	5,000	723,500
79	0	26,700	778,500	5,000	810,200	0	23,700	778,500	5,000	807,200	0	16,200	778,500	5,000	799,700
1980	0	26,700	855,700	5,000	887,400	0	23,700	855,700	5,000	884,400	0	16,200	855,700	5,000	876,900
81	0	26,700	932,900	5,000	964,600	0	23,700	932,900	5,000	961,600	0	16,200	932,900	5,000	954,100
82	0	26,700	985,100	5,000	1,016,800	0	23,700	985,100	5,000	1,013,800	0	16,200	985,100	5,000	1,006,300
83	0	26,700	1,037,300	5,000	1,069,000	0	23,700	1,037,300	5,000	1,066,000	0	16,200	1,037,300	5,000	1,058,500
84	0	26,700	1,089,500	5,000	1,121,200	0	23,700	1,089,500	5,000	1,118,200	0	16,200	1,089,500	5,000	1,110,700
85	0	26,700	1,141,800	5,000	1,173,500	0	23,700	1,141,800	5,000	1,170,500	0	16,200	1,414,800	5,000	1,163,000
86	0	26,700	1,194,910	5,000	1,226,610	0	23,700	1,194,910	5,000	1,223,610	0	16,200	1,194,910	5,000	1,216,110
87	0	26,700	1,302,331	5,000	1,334,031	0	23,700	1,302,331	5,000	1,331,031	0	16,200	1,302,331	5,000	1,323,531
88	0	26,700	1,410,852	5,000	1,442,552	0	23,700	1,410,852	5,000	1,439,552	0	16,200	1,410,852	5,000	1,432,052
89	0	26,700	1,519,373	5,000	1,551,073	0	23,700	1,519,373	5,000	1,548,073	0	16,200	1,519,373	5,000	1,540,573
1990	0	26,700	1,516,500	5,000	1,548,200	0	23,700	1,516,500	5,000	1,545,200	0	16,200	1,516,500	5,000	1,537,700
91	0	26,700	1,516,500	5,000	1,548,200	0	23,700	1,516,500	5,000	1,545,200	0	16,200	1,516,500	5,000	1,537,700
92	0	26,700	1,516,500	5,000	1,548,200	0	23,700	1,516,500	5,000	1,545,200	0	16,200	1,516,500	5,000	1,537,700
93	0	26,700	1,516,500	5,000	1,548,200	0	23,700	1,516,500	5,000	1,545,200	0	16,200	1,516,500	5,000	1,537,700
94	0	26,700	1,516,500	5,000	1,548,200	0	23,700	1,516,500	5,000	1,545,200	0	16,200	1,516,500	5,000	1,537,700
95	0	26,700	1,516,500	5,000	1,548,200	0	23,700	1,516,500	5,000	1,545,200	0	16,200	1,516,500	5,000	1,537,700
96	0	26,700	1,516,500	5,000	1,548,200	0	23,700	1,516,500	5,000	1,545,200	0	16,200	1,516,500	5,000	1,537,700
97	0	26,700	1,516,500	5,000	1,548,200	0	23,700	1,516,500	5,000	1,545,200	0	16,200	1,516,500	5,000	1,537,700
98	0	26,700	1,516,500	5,000	1,548,200	0	23,700	1,516,500	5,000	1,545,200	0	16,200	1,516,500	5,000	1,537,700
99	0	26,700	1,516,500	5,000	1,548,200	0	23,700	1,516,500	5,000	1,545,200	0	16,200	1,516,500	5,000	1,537,700
2000 1/	0	26,700	1,516,500	5,000	1,548,200	0	23,700	1,516,500	5,000	1,545,200	0	16,200	1,516,500	5,000	1,537,700

1/ And each year thereafter for the remainder of the project repayment period.

TABLE B-3 (Continued)

ANNUAL QUANTITIES CONVEYED
THROUGH EACH PUMPING AND POWER RECOVERY PLANT

(in acre-feet)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)														
	COASTAL BRANCH, CALIFORNIA AQUEDUCT														
	LAS PERILLAS AND BADGER HILL PUMPING PLANTS					DEVIL'S DEN AND SAWTOOTH PUMPING PLANTS					POLONIO PUMPING PLANT AND SAN LUIS OBISPO POWERPLANT				
	Construction Water	Operational Losses	Deliveries		Total	Construction Water	Operational Losses	Deliveries		Total	Construction Water	Operational Losses	Deliveries		Total
			Water Supply	Recreation				Water Supply	Recreation				Water Supply	Recreation	
	(78)	(79)	(80)	(81)	(82)	(83)	(84)	(85)	(86)	(87)	(88)	(89)	(90)	(91)	(92)
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	186	1,400	83,019	0	84,605	0	0	0	0	0	0	0	0	0	0
69	0	1,400	30,766	0	32,166	0	0	0	0	0	0	0	0	0	0
1970	0	1,400	36,300	0	37,700	0	0	0	0	0	0	0	0	0	0
71	0	1,400	37,900	0	39,300	0	0	0	0	0	0	0	0	0	0
72	0	1,400	39,500	0	40,900	0	0	0	0	0	0	0	0	0	0
73	0	1,400	46,200	0	47,600	0	0	0	0	0	0	0	0	0	0
74	0	1,400	62,300	0	63,700	0	0	0	0	0	0	0	0	0	0
75	0	1,400	67,700	0	69,100	0	0	0	0	0	0	0	0	0	0
76	0	1,400	73,500	0	74,900	0	0	0	0	0	0	0	0	0	0
77	0	1,400	78,700	0	80,100	0	0	0	0	0	0	0	0	0	0
78	0	1,400	83,500	0	84,900	0	0	0	0	0	0	0	0	0	0
79	0	1,400	88,000	0	89,400	0	0	0	0	0	0	0	0	0	0
1980	200	3,600	94,300	0	98,100	200	2,200	2,200	0	4,600	200	1,500	2,200	0	3,900
81	0	3,600	99,800	0	103,400	0	2,200	3,300	0	5,500	0	1,500	3,300	0	4,800
82	0	3,600	107,000	0	110,600	0	2,200	6,600	0	8,800	0	1,500	6,600	0	8,100
83	0	3,600	113,400	0	117,000	0	2,200	9,900	0	12,100	0	1,500	9,900	0	11,400
84	0	3,600	122,100	0	125,700	0	2,200	14,900	0	17,100	0	1,500	14,900	0	16,400
85	0	3,600	134,600	0	138,200	0	2,200	24,800	0	27,000	0	1,500	24,800	0	26,300
86	0	3,600	145,900	0	149,500	0	2,200	33,100	0	35,300	0	1,500	33,100	0	34,600
87	0	3,600	156,200	0	159,800	0	2,200	41,300	0	43,500	0	1,500	41,300	0	42,800
88	0	3,600	167,800	0	171,400	0	2,200	51,300	0	53,500	0	1,500	51,300	0	52,800
89	0	3,600	183,500	0	187,100	0	2,200	66,100	0	68,300	0	1,500	66,100	0	67,600
1990	0	3,600	200,500	0	204,100	0	2,200	82,700	0	84,900	0	1,500	82,700	0	84,200
91	0	3,600	200,500	0	204,100	0	2,200	82,700	0	84,900	0	1,500	82,700	0	84,200
92	0	3,600	200,500	0	204,100	0	2,200	82,700	0	84,900	0	1,500	82,700	0	84,200
93	0	3,600	200,500	0	204,100	0	2,200	82,700	0	84,900	0	1,500	82,700	0	84,200
94	0	3,600	200,500	0	204,100	0	2,200	82,700	0	84,900	0	1,500	82,700	0	84,200
95	0	3,600	200,500	0	204,100	0	2,200	82,700	0	84,900	0	1,500	82,700	0	84,200
96	0	3,600	200,500	0	204,100	0	2,200	82,700	0	84,900	0	1,500	82,700	0	84,200
97	0	3,600	200,500	0	204,100	0	2,200	82,700	0	84,900	0	1,500	82,700	0	84,200
98	0	3,600	200,500	0	204,100	0	2,200	82,700	0	84,900	0	1,500	82,700	0	84,200
99	0	3,600	200,500	0	204,100	0	2,200	82,700	0	84,900	0	1,500	82,700	0	84,200
2000[1/]	0	3,600	200,500	0	204,100	0	2,200	82,700	0	84,900	0	1,500	82,700	0	84,200

1/ And each year thereafter for the remainder of the project repayment period.

TABLE B-4

DIRECT ANNUAL OPERATING COSTS[1/] OF PUMPING AND POWER RECOVERY PLANTS

(in dollars)

CALENDAR YEAR	NORTH BAY AQUEDUCT		SOUTH BAY AQUEDUCT	CALIFORNIA AQUEDUCT					
	Reach 1	Reach 3	Reach 1	Reach 1	Reach 4	Reach 14A	Reach 15A	Reach 16A	Reach 17E
	Calhoun Pumping Plant	Cordelia Pumping Plant	South Bay Pumping Plant[2/]	Delta Pumping Plant	Dos Amigos Pumping Plant	Buena Vista Pumping Plant	Wheeler Ridge Pumping Plant	Wind Gap Pumping Plant	A. D. Edmonston Pumping Plant
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1961	0	0	0	0	0	0	0	0	0
62	0	0	38,923	0	0	0	0	0	0
63	0	0	60,430	0	0	0	0	0	0
64	0	0	75,623	0	0	0	0	0	0
65	0	0	147,478	0	0	0	0	0	0
66	0	0	205,734	0	0	0	0	0	0
67	0	0	234,999	18,550	0	0	0	0	0
68	0	9,000	411,000	844,000	328,000	0	0	0	0
69	0	11,000	404,000	549,000	216,000	0	0	0	0
1970	0	14,000	495,000	1,174,000	314,000	75,000	59,000	70,000	0
71	0	15,000	516,000	1,082,000	566,000	320,000	317,000	620,000	2,095,000
72	0	16,000	526,000	1,155,000	921,000	810,000	746,000	1,521,000	5,512,000
73	0	21,000	532,000	1,275,000	997,000	843,000	770,000	1,566,000	5,710,000
74	0	19,000	514,000	1,853,000	1,111,000	967,000	1,003,000	1,901,000	6,975,000
75	0	21,000	514,000	1,937,000	1,120,000	927,000	955,000	1,796,000	6,577,000
76	0	23,000	532,000	2,031,000	1,291,000	1,055,000	1,089,000	2,067,000	7,593,000
77	0	25,000	536,000	2,095,000	1,388,000	1,127,000	1,159,000	2,213,000	8,145,000
78	0	28,000	581,000	2,482,000	1,612,000	1,270,000	1,326,000	2,491,000	9,224,000
79	0	28,000	553,000	2,669,000	1,666,000	1,363,000	1,435,000	2,962,000	10,087,000
1980	8,000	42,000	513,000	3,406,000	1,696,000	1,487,000	1,572,000	3,258,000	11,269,000
81	9,000	50,000	504,000	3,182,000	1,765,000	1,569,000	1,561,000	3,235,000	11,976,000
82	9,000	52,000	497,000	3,971,000	1,830,000	1,648,000	1,652,000	3,426,000	11,920,000
83	9,000	54,000	479,000	3,853,000	1,914,000	1,763,000	1,781,000	3,699,000	13,719,000
84	8,000	55,000	448,000	4,449,000	1,829,000	1,647,000	1,659,000	3,441,000	12,737,000
85	9,000	57,000	455,000	4,607,000	1,935,000	1,748,000	1,870,000	3,880,000	13,639,000
86	10,000	64,000	460,000	3,748,000	2,052,000	1,867,000	1,902,000	3,946,000	14,652,000
87	10,000	65,000	456,000	3,759,000	2,116,000	1,978,000	2,027,000	4,207,000	15,633,000
88	11,000	66,000	455,000	3,929,000	2,296,000	2,207,000	2,179,000	4,525,000	16,834,000
89	11,000	63,000	445,000	3,605,000	2,275,000	2,213,000	2,200,000	4,568,000	16,995,000
1990	12,000	65,000	452,000	3,699,000	2,350,000	2,242,000	2,226,000	4,836,000	17,195,000
91	12,000	65,000	457,000	3,762,000	2,371,000	2,358,000	2,356,000	4,892,000	17,399,000
92	12,000	65,000	458,000	4,762,000	2,371,000	2,358,000	2,356,000	4,892,000	17,399,000
93	12,000	65,000	460,000	4,763,000	2,371,000	2,358,000	2,356,000	4,892,000	17,399,000
94	12,000	65,000	464,000	4,765,000	2,371,000	2,358,000	2,356,000	4,892,000	17,399,000
95	12,000	65,000	468,000	4,765,000	2,371,000	2,358,000	2,356,000	4,892,000	17,399,000
96	12,000	65,000	469,000	4,766,000	2,371,000	2,358,000	2,356,000	4,892,000	17,399,000
97	12,000	65,000	472,000	4,766,000	2,371,000	2,358,000	2,356,000	4,892,000	17,399,000
98	12,000	65,000	472,000	4,766,000	2,371,000	2,358,000	2,356,000	4,892,000	17,399,000
99	12,000	65,000	472,000	4,766,000	2,371,000	2,358,000	2,356,000	4,892,000	17,399,000
2000[3/]	12,000	65,000	472,000	4,766,000	2,371,000	2,358,000	2,356,000	4,892,000	17,399,000

Footnotes on Sheet 2.

TABLE B-4 (Continued)

DIRECT ANNUAL OPERATING COSTS[1/] OF PUMPING AND POWER RECOVERY PLANTS

(in dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)								GRAND TOTAL
	Reach 18A	Reach 22B	Reach 26A	Reach 29A	Reach 29G	Reach 29J	Reach 31A	Reach 33A	
	Cottonwood Powerplant	Pearblossom Pumping Plant	Devil Canyon Powerplant	Oso Pumping Plant	Pyramid Powerplant	Castaic Powerplant	Las Perillas and Badger Hill Pumping Plants	Devil's Den, Sawtooth and Polonio PP's and San Luis Obispo Pwp	
	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1961	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	38,923
63	0	0	0	0	0	0	0	0	60,430
64	0	0	0	0	0	0	0	0	75,623
65	0	0	0	0	0	0	0	0	147,478
66	0	0	0	0	0	0	0	0	205,734
67	0	0	0	0	0	0	0	0	253,549
68	0	0	0	0	0	0	158,000	0	1,750,000
69	0	0	0	0	0	0	92,000	0	1,272,000
1970	0	0	0	0	0	0	101,000	0	2,302,000
71	0	71,000	0	271,000	0	- 532,000	106,000	0	5,447,000
72	0	618,000	0	434,000	0	-1,044,000	110,000	0	11,325,000
73	0	537,000	0	481,000	0	-1,744,000	146,000	0	11,134,000
74	0	559,000	0	614,000	0	-2,869,000	162,000	0	12,809,000
75	0	612,000	0	540,000	0	-2,634,000	166,000	0	12,531,000
76	0	693,000	0	617,000	0	-3,451,000	189,000	0	13,729,000
77	0	740,000	0	656,000	0	-3,561,000	195,000	0	14,718,000
78	0	862,000	0	725,000	0	-4,221,000	235,000	0	16,615,000
79	0	1,111,000	0	816,000	0	-4,160,000	231,000	0	18,761,000
1980	0	1,337,000	-1,760,000	847,000	-1,796,000	-4,364,000	233,000	105,000	17,853,000
81	-140,000	1,110,000	-1,662,000	975,000	-2,058,000	-4,555,000	231,000	105,000	17,857,000
82	-168,000	1,210,000	-1,696,000	968,000	-2,078,000	-4,348,000	242,000	113,000	19,248,000
83	-197,000	1,463,000	-1,914,000	1,106,000	-2,210,000	-4,398,000	225,000	116,000	21,462,000
84	-179,000	1,331,000	-1,813,000	963,000	-2,024,000	-3,996,000	217,000	159,000	20,931,000
85	-225,000	1,666,000	-1,927,000	1,055,000	-2,075,000	-4,039,000	237,000	196,000	23,088,000
86	-270,000	1,682,000	-2,367,000	1,124,000	-2,672,000	-4,430,000	258,000	244,000	22,270,000
87	-242,000	1,557,000	-2,298,000	1,249,000	-2,658,000	-4,425,000	261,000	295,000	23,990,000
88	-260,000	1,581,000	-2,262,000	1,333,000	-2,696,000	-4,579,000	281,000	322,000	26,222,000
89	-274,000	1,605,000	-2,230,000	1,336,000	-2,706,000	-4,612,000	273,000	414,000	26,181,000
1990	-253,000	1,624,000	-2,182,000	1,399,000	-2,664,000	-4,496,000	284,000	441,000	27,230,000
91	-302,000	1,799,000	-2,246,000	1,344,000	-2,685,000	-4,457,000	285,000	442,000	27,852,000
92	-302,000	1,799,000	-2,246,000	1,344,000	-2,685,000	-4,457,000	285,000	442,000	27,853,000
93	-302,000	1,799,000	-2,246,000	1,344,000	-2,685,000	-4,457,000	285,000	442,000	28,856,000
94	-302,000	1,799,000	-2,246,000	1,344,000	-2,685,000	-4,457,000	285,000	442,000	28,862,000
95	-302,000	1,799,000	-2,246,000	1,344,000	-2,685,000	-4,457,000	285,000	442,000	28,866,000
96	-302,000	1,799,000	-2,246,000	1,344,000	-2,685,000	-4,457,000	285,000	442,000	28,868,000
97	-302,000	1,799,000	-2,246,000	1,344,000	-2,685,000	-4,457,000	285,000	442,000	28,871,000
98	-302,000	1,799,000	-2,246,000	1,344,000	-2,685,000	-4,457,000	285,000	442,000	28,871,000
99[3/]	-302,000	1,799,000	-2,246,000	1,344,000	-2,685,000	-4,457,000	285,000	442,000	28,871,000
2000[3/]	-302,000	1,799,000	-2,246,000	1,344,000	-2,685,000	-4,457,000	285,000	442,000	28,871,000

1/ Includes only the costs of the project transportation facilities for electrical power and energy, materials, supplies, and replacements associated with the operation of electro-mechanical units, prior to allocation between construction water, losses, deliveries, recreation, and excess capacity.

2/ The estimated costs of Del Valle Pumping Plant have been combined with those of South Bay Pumping Plant to simplify the allocation procedure.

3/ And each year thereafter for the remainder of the project repayment period.

TABLE B-5

UNIT VARIABLE OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COMPONENTS [1/]

(in dollars per acre-foot)

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
	Calhoun Pumping Plant	Cordelia Pumping Plant	South Bay and Del Valle Pumping Plants [2/]	Delta Pumping Plant	Dos Amigos Pumping Plant	Buena Vista Pumping Plant	Wheeler Ridge Pumping Plant	Wind Gap Pumping Plant	A. D. Edmonston Pumping Plant
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1962			4.2368066						
1963			4.6841439						
1964			3.5614270						
1965			4.2320284						
1966			3.6310892						
1967			4.9618244	.9406310					
1968		4.4009780	5.2086575	1.8141621	2.8933125				
1969		2.9729730	4.6151350	1.4361501	2.4354794				
1970		3.4886618	6.7355985	2.5762290	3.6319475				
1971		3.4356390	5.7112121	1.4427095	2.4018993	3.6192906	4.9357157	7.5202568	16.5488994
1972		3.4408602	5.2151304	.9378692	1.7999502	2.9770656	4.1401884	6.5424955	15.3628115
1973		3.6206897	5.2244226	.9719309	1.8413475	2.9939955	4.1288737	6.4808607	15.1656078
1974		2.8358209	5.2659174	1.2217997	2.0446663	3.1331099	4.3270294	6.6306014	15.1656564
1975		2.7272727	5.2104901	1.2345865	2.0342192	3.0647511	4.1915117	6.3569937	14.3680856
1976		2.6744186	5.2387916	1.1834556	2.0185013	3.0721369	4.2292553	6.4748104	14.8057658
1977		2.6041667	5.1270941	1.1068764	1.9141406	2.9110663	4.0044500	6.1383912	14.0623595
1978		2.6666667	5.4910303	1.1987579	2.0493538	3.0564186	4.1760352	6.3259038	14.3759483
1979		2.4347826	5.2129071	1.1887926	1.9946939	2.9748803	4.0722078	6.3841634	14.3744459
1980	.3636364	3.7236364	5.0130604	1.3335352	2.0479878	2.9590268	3.9768225	6.1251586	13.6797066
1981	.3678161	4.0041797	4.7503553	1.1956108	1.9071314	2.8357461	3.8167797	5.8884143	13.7006915
1982	.3688525	3.8355192	4.8540984	1.3986386	2.0881512	2.9962289	3.9630693	6.0055638	13.2553915
1983	.3327172	3.6557941	4.5455654	1.2711665	1.9440102	2.8461892	3.8167862	5.8699341	13.6440059
1984	.2702703	3.4131274	4.4030677	1.3807836	1.9837564	2.7715475	3.6161448	5.4007722	12.1554338
1985	.2748092	3.3148092	4.3734035	1.3487121	1.9487289	2.7332000	3.6273122	5.5170488	12.3130020
1986	.2739726	3.4739726	4.0497592	1.0382805	1.6390739	2.4280390	3.2840321	5.0944310	11.9744803
1987	.2424242	3.3012477	3.9286327	.9878476	1.5741397	2.3629536	3.2244656	5.0470431	11.9848963
1988	.2222222	3.1555555	3.8740080	.9822047	1.5861188	2.4189995	3.2954369	5.1516441	12.2299249
1989	.1888412	2.8414728	3.8562902	1.0994300	1.6702411	2.4644444	3.3048960	5.0848141	11.8738489
1990	.1910828	2.7910828	3.8121212	1.0837185	1.6528014	2.4327819	3.2578327	5.0860886	11.7555641
1991	.1910828	2.7910828	3.7632078	1.0949386	1.6680395	2.4862770	3.3572065	5.2012640	11.9306099
1992	.1910828	2.7910828	3.6880040	1.0934723	1.6665732	2.4848107	3.3557402	5.1997977	11.9291436
1993	.1910828	2.7910828	3.6178626	1.0924962	1.6655971	2.4838346	3.3547641	5.1988216	11.9281675
1994	.1910828	2.7910828	3.5752779	1.0917614	1.6648623	2.4830998	3.3540293	5.1980868	11.9274327
1995	.1910828	2.7910828	3.5694922	1.0912313	1.6643322	2.4825697	3.3534992	5.1975567	11.9269026
1996	.1910828	2.7910828	3.5479336	1.0909444	1.6640453	2.4822828	3.3532123	5.1972698	11.9266157
1997	.1910828	2.7910828	3.5372237	1.0904152	1.6635161	2.4817536	3.3526831	5.1967406	11.9260865
1998	.1910828	2.7910828	3.5372237	1.0904152	1.6635161	2.4817536	3.3526831	5.1967406	11.9260865
1999	.1910828	2.7910828	3.5372237	1.0904152	1.6635161	2.4817536	3.3526831	5.1967406	11.9260865
2000 [3/]	.1910828	2.7910828	3.5372237	1.0904152	1.6635161	2.4817536	3.3526831	5.1967406	11.9260865

Footnotes on Sheet 2.

TABLE B-5 (Continu d)

UNIT VARIABLE OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COMPONENTS 1/

(in dollars per acre-foot)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)							
	Reach 18A	Reach 22B	Reach 26A	Reach 29A	Reach 29G	Reach 29J	Reach 31A	Reach 33A
	Cottonwood Powerplant	Pearblossom Pumping Plant	Devil Canyon Powerplant	Oso Pumping Plant	Pyramid Powerplant	Castaic Powerplant	Las Perillas and Badger Hill Pumping Plants	Devil's Den, Sawtooth and Polonio PP's and San Luis Obispo Pwp
	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1962								
1963								
1964								
1965								
1966								
1967								
1968							4.7603550	
1969							5.2957797	
1970							6.3041238	
1971				17.8238994		15.2238994	5.0931922	
1972		18.1752645		16.5501101		13.6637465	4.4834945	
1973		18.1318943		16.2844657		10.8130182	4.9149406	
1974		17.8485053		16.2715388		10.3107545	4.5807819	
1975		17.0717083		15.3769501		10.3537336	4.4419001	
1976		17.4781290		15.8675840		9.8257658	4.5355081	
1977		16.5931576		15.0591646		9.5575672	4.3537848	
1978		17.0245902		15.3641300		9.5304407	4.8158209	
1979		17.4695791		15.3815108		10.1791987	4.5742394	
1980		16.3345459	12.3903711	14.6344805	12.6033948	7.6273518	4.4233855	27.1506582
1981	13.4545450	15.8619814	11.7095847	14.7115180	12.5719532	7.7975937	4.1416003	23.2325094
1982	12.9877714	15.3456188	11.5631872	14.2075791	12.1580410	7.8376674	4.2750671	17.1538550
1983	13.3596118	15.9069467	12.1228639	14.6784222	12.6047694	8.4497516	3.8664088	13.4623684
1984	11.9211353	14.0151473	10.7984570	13.0145435	11.2045389	7.6065582	3.7118481	13.0407072
1985	12.0428878	14.4311904	11.3321242	13.2124590	11.4398193	7.9663563	3.6649250	10.9229895
1986	11.6745913	13.8883993	10.4101384	12.8908673	10.7074393	7.0644871	3.3662843	10.2847133
1987	11.7207353	13.7446732	10.3944270	12.9209103	10.9237222	7.5804861	3.2066621	9.9863231
1988	11.9513037	13.9827938	10.7111432	13.1541891	11.2815618	8.0842030	3.2249746	9.2483664
1989	11.5847412	13.6230578	10.4214129	12.7353885	10.9872990	7.9933008	3.1307316	9.1972974
1990	11.5100834	13.4020411	10.2963335	12.6589601	10.9352542	8.0114164	3.0443226	8.2438389
1991	11.6390707	13.7326308	10.5403063	12.7990570	11.0615034	8.1627233	3.0645482	8.2761564
1992	11.6376044	13.7311645	10.5388400	12.7975907	11.0600371	8.1612570	3.0630819	8.2746901
1993	11.6366283	13.7301884	10.5378639	12.7966146	11.0590610	8.1602809	3.0621058	8.2737140
1994	11.6358935	13.7294536	10.5371291	12.7958798	11.0583262	8.1595461	3.0613710	8.2729792
1995	11.6353634	13.7289235	10.5365990	12.7953497	11.0577961	8.1590160	3.0608409	8.2724491
1996	11.6350765	13.7286366	10.5363121	12.7950628	11.0575092	8.1587291	3.0605540	8.2721622
1997	11.6345473	13.7281074	10.5357829	12.7945336	11.0569800	8.1581999	3.0600248	8.2716330
1998	11.6345473	13.7281074	10.5357829	12.7945336	11.0569800	8.1581999	3.0600248	8.2716330
1999	11.6345473	13.7281074	10.5357829	12.7945336	11.0569800	8.1581999	3.0600248	8.2716330
2000 3/	11.6345473	13.7281074	10.5357829	12.7945336	11.0569800	8.1581999	3.0600248	8.2716330

1/ Rates as shown constitute the total rate, cumulative from the Sacramento-San Joaquin Delta, applicable to deliveries downstream from the indicated pumping and power recovery plants.

2/ 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.

3/ And each year thereafter for the remainder of the project repayment period.

TABLE B-6

ANNUAL ENTITLEMENTS TO PROJECT WATER[1/]

(in acre-feet)

CALENDAR YEAR	FEATHER RIVER AREA				NORTH BAY AREA			SOUTH BAY AREA[2/]			
	CITY OF YUBA CITY	COUNTY OF BUTTE	PLUMAS COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	TOTAL	NAPA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT[3/]	SOLANO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	TOTAL	ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7	ALAMEDA COUNTY WATER DISTRICT	SANTA CLARA COUNTY FLOOD CONTROL AND WATER DISTRICT	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1962	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	507	5,248	5,783	11,538
68	0	300	250	550	0	0	0	6,900	25,000	88,000	119,900
69	0	350	270	620	0	0	0	8,800	15,500	88,000	112,300
1970	0	400	300	700	0	0	0	10,000	16,200	88,000	114,200
71	0	450	440	890	0	0	0	11,200	17,000	88,000	116,200
72	0	500	470	970	0	0	0	12,400	17,900	88,000	118,300
73	0	600	500	1,100	0	0	0	13,600	18,800	88,000	120,400
74	0	700	530	1,230	0	0	0	14,800	19,600	88,000	122,400
75	0	1,050	560	1,610	0	0	0	16,000	20,500	88,000	124,500
76	0	1,400	590	1,990	0	0	0	17,200	21,300	88,000	126,500
77	0	1,800	620	2,420	0	0	0	18,400	22,200	88,000	128,600
78	0	2,200	650	2,850	0	0	0	19,600	23,100	88,000	130,700
79	0	2,600	680	3,280	0	0	0	20,800	23,900	88,000	132,700
1980	0	4,000	710	4,710	12,500	6,750	19,250	22,000	24,800	88,000	134,800
81	4,200	5,450	740	10,390	13,750	8,000	21,750	23,000	26,000	88,000	137,000
82	4,600	6,900	770	12,270	15,000	9,400	24,400	24,000	27,200	88,000	139,200
83	5,050	8,350	800	14,200	16,250	10,800	27,050	25,000	28,400	88,000	141,400
84	5,500	9,800	830	16,130	17,500	12,100	29,600	26,000	29,600	88,000	143,600
85	5,950	12,250	860	19,060	18,750	14,000	32,750	27,000	30,800	88,000	145,800
86	6,600	14,700	890	22,190	20,000	16,500	36,500	28,000	32,100	88,000	148,100
87	7,300	17,150	920	25,370	21,250	20,000	41,250	29,000	33,300	88,000	150,300
88	8,000	20,600	960	29,560	22,500	27,000	49,500	30,000	34,500	88,000	152,500
89	8,800	24,050	1,000	33,850	23,750	34,500	58,250	31,000	35,700	90,000	156,700
1990	9,600	27,500	1,040	38,140	25,000	42,000	67,000	32,000	36,900	92,000	160,900
91	9,600	27,500	1,080	38,180	25,000	42,000	67,000	34,000	38,400	94,000	166,400
92	9,600	27,500	1,120	38,220	25,000	42,000	67,000	36,000	39,900	96,000	171,900
93	9,600	27,500	1,160	38,260	25,000	42,000	67,000	38,000	41,400	98,000	177,400
94	9,600	27,500	1,200	38,300	25,000	42,000	67,000	40,000	42,000	100,000	182,000
95	9,600	27,500	1,250	38,350	25,000	42,000	67,000	42,000	42,000	100,000	184,000
96	9,600	27,500	1,300	38,400	25,000	42,000	67,000	44,000	42,000	100,000	186,000
97	9,600	27,500	1,350	38,450	25,000	42,000	67,000	46,000	42,000	100,000	188,000
98	9,600	27,500	1,400	38,500	25,000	42,000	67,000	46,000	42,000	100,000	188,000
99	9,600	27,500	1,450	38,550	25,000	42,000	67,000	46,000	42,000	100,000	188,000
2000	9,600	27,500	1,510	38,610	25,000	42,000	67,000	46,000	42,000	100,000	188,000
01	9,600	27,500	1,570	38,670	25,000	42,000	67,000	46,000	42,000	100,000	188,000
02	9,600	27,500	1,630	38,730	25,000	42,000	67,000	46,000	42,000	100,000	188,000
03	9,600	27,500	1,690	38,790	25,000	42,000	67,000	46,000	42,000	100,000	188,000
04	9,600	27,500	1,750	38,850	25,000	42,000	67,000	46,000	42,000	100,000	188,000
05	9,600	27,500	1,810	38,910	25,000	42,000	67,000	46,000	42,000	100,000	188,000
06	9,600	27,500	1,880	38,980	25,000	42,000	67,000	46,000	42,000	100,000	188,000
07	9,600	27,500	1,950	39,050	25,000	42,000	67,000	46,000	42,000	100,000	188,000
08	9,600	27,500	2,020	39,120	25,000	42,000	67,000	46,000	42,000	100,000	188,000
09	9,600	27,500	2,090	39,190	25,000	42,000	67,000	46,000	42,000	100,000	188,000
2010	9,600	27,500	2,160	39,260	25,000	42,000	67,000	46,000	42,000	100,000	188,000
11	9,600	27,500	2,240	39,340	25,000	42,000	67,000	46,000	42,000	100,000	188,000
12	9,600	27,500	2,320	39,420	25,000	42,000	67,000	46,000	42,000	100,000	188,000
13	9,600	27,500	2,410	39,510	25,000	42,000	67,000	46,000	42,000	100,000	188,000
14	9,600	27,500	2,500	39,600	25,000	42,000	67,000	46,000	42,000	100,000	188,000
15[4/]	9,600	27,500	2,600	39,700	25,000	42,000	67,000	46,000	42,000	100,000	188,000
2016[4/]	9,600	27,500	2,700	39,800	25,000	42,000	67,000	46,000	42,000	100,000	188,000

1/ From Tables A and Articles 6(a) of executed and proposed water supply contracts as of April 1, 1968.

2/ 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. Quantities shown for 1968 are those requested by the contractors and approved by the Department pursuant to Article 12(a) of water supply contracts and pursuant to paragraph 7 of surplus water contracts.

3/ District's Table A quantities exclude those during the period 1968 through 1979 which are assumed to be supplied by nonproject water.

4/ And each year thereafter for the remainder of the project repayment period.

TABLE B-6 (Continued)

ANNUAL ENTITLEMENTS TO PROJECT WATER[1/]

(in acre-feet)

CALENDAR YEAR	SAN JOAQUIN VALLEY AREA[2/]									CENTRAL COASTAL AREA		
	DEVIL'S DEN WATER DISTRICT	DUDLEY RIDGE WATER DISTRICT	EMPIRE WEST SIDE IRRIGATION DISTRICT	HACIENDA WATER DISTRICT	KERN COUNTY WATER AGENCY	KINGS COUNTY	OAK FLAT WATER DISTRICT	TULARE LAKE BASIN WATER STORAGE DISTRICT	TOTAL	SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	TOTAL
	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
1962	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0
68	7,400	23,000	6,000	2,600	142,597	900	4,300	53,800	240,597	0	0	0
69	4,700	13,600	3,000	1,600	95,700	1,200	2,500	29,300	151,600	0	0	0
1970	5,700	15,700	3,000	2,300	145,100	1,300	2,600	31,800	207,200	0	0	0
71	6,700	17,900	3,000	2,300	190,300	1,300	2,800	34,200	258,500	0	0	0
72	7,700	20,000	3,000	2,600	270,700	1,400	2,900	36,700	345,000	0	0	0
73	8,700	22,000	3,000	2,900	310,500	1,500	3,100	39,100	390,800	0	0	0
74	9,700	24,100	3,000	3,300	347,000	1,500	3,200	43,000	434,800	0	0	0
75	10,700	26,200	3,000	3,600	385,500	1,600	3,400	46,900	480,900	0	0	0
76	11,700	28,300	3,000	3,900	432,800	1,600	3,500	50,800	535,600	0	0	0
77	12,700	30,400	3,000	4,200	483,600	1,700	3,700	54,800	594,100	0	0	0
78	12,700	32,500	3,000	4,600	534,300	1,900	3,900	58,700	651,600	0	0	0
79	12,700	34,600	3,000	4,900	583,900	2,000	4,000	62,600	707,700	0	0	0
1980	12,700	36,700	3,000	5,200	634,500	2,200	4,200	66,500	765,000	1,000	1,200	2,200
81	12,700	38,800	3,000	5,600	691,400	2,300	4,300	70,400	828,500	1,000	2,300	3,300
82	12,700	41,000	3,000	5,900	745,300	2,500	4,500	74,300	889,200	2,000	4,600	6,600
83	12,700	42,900	3,000	6,200	805,100	2,800	4,600	78,200	955,500	3,000	6,900	9,900
84	12,700	45,100	3,000	6,500	860,600	3,100	4,800	82,100	1,017,900	4,500	10,400	14,900
85	12,700	47,200	3,000	6,900	915,000	3,400	4,900	86,000	1,079,100	7,500	17,300	24,800
86	12,700	49,300	3,000	7,200	968,200	3,700	5,100	90,000	1,139,200	10,000	23,100	33,100
87	12,700	51,400	3,000	7,500	1,023,500	4,000	5,200	93,900	1,201,200	12,500	28,800	41,300
88	12,700	53,500	3,000	7,800	1,074,600	4,000	5,400	97,800	1,258,800	15,500	35,800	51,300
89	12,700	55,600	3,000	8,200	1,112,300	4,000	5,600	101,700	1,303,100	20,000	46,100	66,100
1990	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
91	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
92	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
93	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
94	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
95	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
96	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
97	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
98	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
99	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
2000	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
01	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
02	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
03	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
04	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
05	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
06	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
07	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
08	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
09	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
2010	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
11	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
12	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
13	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
14	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
15	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700
2016[3/]	12,700	57,700	3,000	8,500	1,153,400	4,000	5,700	110,000	1,355,000	25,000	57,700	82,700

1/ From Tables A and Articles 6(a) of executed and proposed water supply contracts as of April 1, 1968.
2/ Quantities shown for 1968 are those requested by the contractors and approved by the Department pursuant to Article 12(a) of water supply contracts and pursuant to paragraph 7 of surplus water contracts.
3/ And each year thereafter for the remainder of the project repayment period

TABLE B-6 (Continued)

TABLE B-6 (Continued)

ANNUAL ENTITLEMENTS TO PROJECT WATER[1/]

(in acre-feet)

CALENDAR YEAR	SOUTHERN CALIFORNIA AREA														TOTAL, STATE WATER PROJECT
	ANTELOPE VALLEY-EAST KERN WATER AGENCY	COACHELLA VALLEY COUNTY WATER DISTRICT	CRESTLINE-LAKE ARROWHEAD WATER AGENCY	DESERT WATER AGENCY	LITTLEROCK CREEK IRRIGATION DISTRICT	MOJAVE WATER AGENCY	PALMDALE IRRIGATION DISTRICT	SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT	SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT	SAN GORGONIO PASS WATER AGENCY	THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	UPPER SANTA CLARA VALLEY WATER AGENCY	VENTURA COUNTY FLOOD CONTROL DISTRICT	TOTAL	
	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,538
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	361,047
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	264,520
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	322,100
71	0	0	0	0	0	0	0	0	0	0	70,000	10,000	0	80,000	455,590
72	20,000	5,200	580	8,000	170	8,400	1,620	46,000	10,600	0	254,200	20,000	0	374,770	839,040
73	25,000	5,800	870	9,000	290	10,700	2,940	48,000	11,500	0	354,600	21,200	0	489,900	1,002,200
74	30,000	6,400	1,160	10,000	400	13,100	4,260	50,000	12,300	0	454,900	22,500	0	605,020	1,163,450
75	35,000	7,000	1,450	11,000	520	15,400	5,580	52,500	13,100	0	555,200	23,800	0	720,550	1,327,560
76	44,000	7,600	1,740	12,000	640	17,800	6,900	55,000	14,000	0	655,600	25,000	0	840,280	1,504,370
77	50,000	8,421	2,030	13,000	730	20,200	8,220	57,500	14,800	0	755,900	26,000	0	956,801	1,681,921
78	57,000	9,242	2,320	14,000	920	22,500	9,340	60,000	15,700	0	856,300	27,300	0	1,074,622	1,859,772
79	63,000	10,063	2,610	15,000	1,040	24,900	10,260	62,500	16,600	0	956,600	28,500	0	1,191,073	2,034,753
1980	69,200	10,884	2,900	17,000	1,150	27,200	11,180	65,500	17,400	6,800	1,057,000	29,700	1,000	1,316,914	2,242,874
81	75,000	12,105	3,190	19,000	1,270	29,600	11,700	68,500	18,300	7,800	1,157,300	30,900	2,000	1,436,665	2,437,605
82	81,300	13,326	3,480	21,000	1,380	31,900	12,320	71,500	19,100	8,800	1,257,600	32,100	3,000	1,556,806	2,628,476
83	87,700	14,547	3,770	23,000	1,500	34,300	12,940	74,500	19,900	9,800	1,358,000	33,300	4,000	1,677,257	2,825,307
84	94,000	15,768	4,060	25,000	1,610	36,700	13,560	78,000	20,700	10,800	1,458,300	34,500	5,000	1,797,998	3,020,128
85	100,400	16,989	4,350	27,000	1,730	39,000	14,180	81,500	21,800	11,800	1,558,700	35,800	6,000	1,919,249	3,220,759
86	106,700	18,210	4,640	29,000	1,840	41,400	14,800	85,000	23,200	12,900	1,659,300	36,900	8,000	2,041,890	3,420,980
87	113,000	19,431	4,930	31,500	1,960	43,700	15,420	89,000	24,600	14,000	1,759,800	38,100	10,000	2,165,441	3,624,861
88	119,400	20,652	5,220	34,000	2,070	46,000	16,040	93,000	26,000	15,100	1,860,400	39,300	13,000	2,290,182	3,831,842
89	125,700	21,873	5,510	36,500	2,190	48,500	16,660	97,000	27,400	16,200	1,961,000	40,500	16,000	2,415,033	4,033,033
1990	132,100	23,100	5,800	38,100	2,300	50,800	17,300	101,500	28,800	17,300	2,011,500	41,500	20,000	2,490,100	4,193,840
91	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,206,780
92	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,212,320
93	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2 011,500	41,500	20,000	2,497,500	4,217,860
94	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2 011,500	41,500	20,000	2,497,500	4,222,500
95	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,224,550
96	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,226,600
97	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,650
98	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,700
99	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,750
2000	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,810
01	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,870
02	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,930
03	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,228,990
04	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,050
05	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,110
06	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,180
07	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,250
08	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,320
09	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,390
2010	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,460
11	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,540
12	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,620
13	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2 011,500	41,500	20,000	2,497,500	4,229,710
14	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,710
15	138,400	23,100	5,800	38,100	2,300	50,800	17,300	1026,00	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,229,900
2016[2/]	138,400	23,100	5,800	38,100	2,300	50,800	17,300	102,600	28,800	17,300	2,011,500	41,500	20,000	2,497,500	4,230,000

1/ From Tables A and Articles 6(a) of executed and proposed water supply contracts as of April 1, 1968.
2/ And each year thereafter for the remainder of the project repayment period.

TABLE B-6 (Continued)

TABLE B-7

ACTUAL AND PROJECTED ANNUAL QUANTITIES DELIVERED FROM EACH REACH FOR EACH CONTRACTOR

(in acre-feet)

CALENDAR YEAR	NORTH BAY AQUEDUCT		TOTAL NORTH BAY AQUEDUCT 1/	SOUTH BAY AQUEDUCT								TOTAL SOUTH BAY AQUEDUCT
	Reach 2	Reach 3		Reach 1		Reach 2	Reach 4	Reach 6	Reach 7	Reach 8	Reach 9	
	SC FC & WCD	NC FC & WCD 1/		AC FC & WCD	ACWD	AC FC & WCD	AC FC & WCD	AC FC & WCD	ACWD	ACWD	SCC FC & WD	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1962	0	0	0	141	8,412	353	0	0	0	0	0	8,906
1963	0	0	0	814	10,914	917	0	0	0	0	0	12,645
1964	0	0	0	248	19,238	1,425	0	0	0	0	0	20,911
1965	0	0	0	637	15,280	1,830	138	0	1,127	0	15,014	34,026
1966	0	0	0	2,475	0	2,537	499	0	14,864	0	34,538	54,913
1967	0	0	0	1,527	0	2,391	862	0	12,882	0	39,101	56,763
1968	0	2,045	2,045	3,218	0	2,772	910	0	25,000	0	88,000	119,900
1969	0	3,700	3,700	4,566	0	3,134	1,100	0	15,500	0	88,000	112,300
1970	0	4,013	4,013	5,456	0	3,399	1,145	0	15,700	500	88,000	114,200
1971	0	4,366	4,366	6,169	0	3,706	1,325	0	16,000	1,000	88,000	116,200
1972	0	4,650	4,650	6,883	0	4,007	1,510	0	16,400	1,500	88,000	118,300
1973	0	5,800	5,800	3,500	0	6,600	0	3,500	16,800	2,000	88,000	120,400
1974	0	6,700	6,700	0	0	10,300	0	4,500	17,100	2,500	88,000	122,400
1975	0	7,700	7,700	0	0	10,500	0	5,500	17,500	3,000	88,000	124,500
1976	0	8,600	8,600	0	0	10,700	0	6,500	17,800	3,500	88,000	126,500
1977	0	9,600	9,600	0	0	10,900	0	7,500	18,200	4,000	88,000	128,600
1978	0	10,500	10,500	0	0	11,200	0	8,400	18,600	4,500	88,000	130,700
1979	0	11,500	11,500	0	0	11,500	0	9,300	18,900	5,000	88,000	132,700
1980	6,750	12,500	19,250	0	0	11,900	0	10,100	19,800	5,000	88,000	134,800
1981	8,000	13,750	21,750	0	0	12,200	0	10,800	21,000	5,000	88,000	137,000
1982	9,400	15,000	24,400	0	0	12,400	0	11,600	22,200	5,000	88,000	139,200
1983	10,800	16,250	27,050	0	0	12,600	0	12,400	23,400	5,000	88,000	141,400
1984	12,100	17,500	29,600	0	0	12,800	0	13,200	24,600	5,000	88,000	143,600
1985	14,000	18,750	32,750	0	0	13,000	0	14,000	25,800	5,000	88,000	145,800
1986	16,500	20,000	36,500	0	0	13,200	0	14,800	27,100	5,000	88,000	148,100
1987	20,000	21,250	41,250	0	0	13,400	0	15,600	28,300	5,000	88,000	150,300
1988	27,000	22,500	49,500	0	0	13,600	0	16,400	29,500	5,000	88,000	152,500
1989	34,500 2/	23,750	58,250	0	0	13,800	0	17,200	30,700	5,000	90,000	156,700
1990	37,800 2/	25,000	62,800	0	0	14,000	0	18,000	31,900	5,000	92,000	160,900
1991	37,800	25,000	62,800	0	0	14,200	0	19,800	33,400	5,000	94,000	166,400
1992	37,800	25,000	62,800	0	0	14,400	0	21,600	34,900	5,000	96,000	171,900
1993	37,800	25,000	62,800	0	0	14,700	0	23,300	36,400	5,000	98,000	177,400
1994	37,800	25,000	62,800	0	0	15,000	0	25,000	37,000	5,000	100,000	182,000
1995	37,800	25,000	62,800	0	0	15,300	0	26,700	37,000	5,000	100,000	184,000
1996	37,800	25,000	62,800	0	0	16,000	0	28,000	37,000	5,000	100,000	186,000
1997	37,800	25,000	62,800	0	0	17,000	0	29,000	37,000	5,000	100,000	188,000
1998	37,800	25,000	62,800	0	0	17,000	0	29,000	37,000	5,000	100,000	188,000
1999	37,800	25,000	62,800	0	0	17,000	0	29,000	37,000	5,000	100,000	188,000
2000 3/	37,800	25,000	62,800	0	0	17,000	0	29,000	37,000	5,000	100,000	188,000

1/ Between 1968 and 1979 inclusive, annual quantities delivered are nonproject water pumped thru an interim facility.

2/ Solano County Flood Control and Water Conservation District (SCFC&WCD) has contracted for 42,000 acre-feet per year. The District will take 4,200 acre-feet from the Delta thru their own facilities.

3/ And thereafter for the remainder of the project repayment period.

TABLE B-7 (Continu d)

ACTUAL AND PROJECTED ANNUAL QUANTITIES DELIVERED FROM EACH REACH FOR EACH CONTRACTOR

(in acre-feet)

CALENDAR YEAR	CALIFORNIA AQUEDUCT												
	NORTH SAN JOAQUIN DIVISION	SOUTH SAN JOAQUIN DIVISION											
	Reach 2A	Reach 8C			Reach 8D			Reach 9	Reach 10A	Reach 11B	Reach 12D	Reach 12E	
	OFWD	EWSID	KC	TLBWSD	TLBWSD	HWD	DRWD	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (M&I)
	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	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	0
1968	4,300	6,000	900	29,832	23,968	2,600	23,000	35,658	0	31,320	0	0	0
1969	2,500	3,000	1,200	16,246	13,054	1,600	13,600	29,367	6,400	33,867	0	0	0
1970	2,600	3,000	1,300	17,633	14,167	2,000	15,700	38,900	300	45,200	0	1,100	18,700
1971	2,800	3,000	1,300	18,964	15,236	2,300	17,900	41,700	15,800	48,500	0	3,500	22,100
1972	2,900	3,000	1,400	20,350	16,350	2,600	20,000	42,500	40,300	49,500	0	9,500	24,500
1973	3,100	3,000	1,500	21,700	17,400	2,900	22,000	50,100	41,800	58,100	0	9,600	28,000
1974	3,200	3,000	1,500	23,865	19,135	3,300	24,100	70,200	28,300	77,900	1,700	6,700	31,400
1975	3,400	3,000	1,600	26,030	20,870	3,600	26,200	76,100	35,200	83,200	2,400	7,800	35,000
1976	3,500	3,000	1,600	28,194	22,606	3,900	28,300	82,700	43,900	90,700	2,400	9,700	37,300
1977	3,700	3,000	1,700	30,414	24,386	4,200	30,400	88,300	54,600	97,300	2,400	12,300	40,800
1978	3,900	3,000	1,900	32,578	26,122	4,600	32,500	94,600	64,800	104,600	2,400	14,600	43,100
1979	4,000	3,000	2,000	34,743	27,857	4,900	34,600	100,600	74,700	111,600	2,400	17,000	45,400
1980	4,200	3,000	2,200	36,908	29,592	5,200	36,700	100,600	91,200	118,000	2,400	19,500	47,700
1981	4,300	3,000	2,300	39,072	31,328	5,600	38,800	100,600	110,300	124,700	2,400	22,500	50,200
1982	4,500	3,000	2,500	41,236	33,064	5,900	41,000	100,600	127,800	130,800	2,400	25,400	53,600
1983	4,600	3,000	2,800	43,401	34,799	6,200	42,900	100,600	148,200	135,600	2,400	29,100	56,000
1984	4,800	3,000	3,100	45,566	36,534	6,500	45,100	100,600	166,500	141,300	2,400	32,100	59,400
1985	4,900	3,000	3,400	47,730	38,270	6,900	47,200	100,600	184,900	145,400	2,400	35,500	62,900
1986	5,100	3,000	3,700	49,950	40,050	7,200	49,300	100,600	202,500	150,000	2,400	38,600	65,300
1987	5,200	3,000	4,000	52,114	41,786	7,500	51,400	100,600	221,400	153,300	2,400	42,200	68,800
1988	5,400	3,000	4,000	54,279	43,521	7,800	53,500	101,800	237,700	155,800	2,400	45,800	71,200
1989	5,600	3,000	4,000	56,444	45,256	8,200	55,600	102,500	249,700	157,200	2,400	48,300	73,500
1990	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000
1991	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000
1992	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000
1993	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000
1994	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000
1995	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000
1996	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000
1997	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000
1998	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000
1999	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000
2000 1/	5,700	3,000	4,000	61,050	48,950	8,500	57,700	103,000	265,200	157,800	2,400	51,200	77,000

1/ And thereafter for the remainder of the project repayment period.

TABLE B-7 (Continu d)

TABLE B-7 (Continued)

ACTUAL AND PROJECTED ANNUAL QUANTITIES DELIVERED FROM EACH REACH FOR EACH CONTRACTOR

(in acre-feet)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)											
	SOUTH SAN JOAQUIN DIVISION (Continued)								TEHACHAPI DIVISION	MOJAVE DIVISION		
	Reach 13B		Reach 14A	Reach 14B	Reach 14C	Reach 15A	Reach 16A		Reach 17E	Reach 19	Reach 20A	Reach 20B
	KCWA (Ag.)	KCWA (M&I)	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (Ag.)	KCWA (M&I)	KCWA (M&I)	AVEKWA	AVEKWA	PID
	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)
1962	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0
1970	300	10,000	0	0	0	0	0	0	0	0	0	0
1971	4,700	10,800	5,300	3,900	0	0	0	2,500	300	0	0	0
1972	16,200	11,500	13,100	13,800	7,600	7,200	0	2,700	500	0	15,727	1,620
1973	17,400	12,200	13,400	20,300	7,100	11,700	0	2,800	500	12,500	8,600	2,940
1974	12,400	13,000	9,600	16,700	9,200	13,700	0	3,000	600	15,100	10,200	4,260
1975	14,400	13,800	11,300	18,100	9,800	17,400	100	3,200	700	17,600	11,900	5,580
1976	18,000	14,500	15,600	20,700	10,700	20,300	200	3,500	800	22,200	14,900	6,900
1977	22,300	15,200	20,100	25,200	11,800	22,500	200	3,800	800	25,200	17,000	8,220
1978	26,300	16,000	22,900	28,500	12,800	24,200	3,700	4,100	900	28,600	19,500	9,340
1979	30,400	16,800	24,800	31,200	13,600	25,700	9,000	4,400	1,000	31,700	21,400	10,260
1980	35,000	17,500	26,700	34,300	14,400	27,400	14,500	4,800	1,100	34,800	23,500	11,180
1981	39,900	18,200	29,000	40,800	15,400	29,100	18,100	5,200	1,200	37,700	25,500	11,700
1982	44,600	19,000	30,900	45,200	17,500	30,800	22,000	5,700	1,300	40,900	27,600	12,320
1983	51,000	19,800	34,300	49,800	21,500	33,200	25,100	6,300	1,400	44,100	29,800	12,940
1984	56,000	20,500	36,500	52,200	24,700	35,100	30,100	7,200	1,500	47,200	32,100	13,560
1985	61,800	21,200	39,100	57,000	26,600	38,100	32,600	8,200	1,600	50,400	34,300	14,180
1986	67,400	22,000	41,200	61,500	28,800	41,200	35,500	9,400	1,700	53,700	36,200	14,800
1987	72,900	22,800	43,800	66,300	31,100	44,500	38,700	10,700	1,800	56,900	38,400	15,420
1988	78,600	23,500	46,300	70,600	33,500	47,600	41,800	12,300	1,900	60,100	40,600	16,040
1989	83,100	24,200	48,300	73,900	34,900	50,000	44,100	13,600	1,900	63,400	42,700	16,660
1990	87,500	25,000	50,300	76,700	36,400	52,100	46,700	15,000	2,000	66,400	45,000	17,300
1991	87,500	25,000	50,300	76,700	36,400	52,100	46,700	15,000	2,000	69,600	47,100	17,300
1992	87,500	25,000	50,300	76,700	36,400	52,100	46,700	15,000	2,000	69,600	47,100	17,300
1993	87,500	25,000	50,300	76,700	36,400	52,100	46,700	15,000	2,000	69,600	47,100	17,300
1994	87,500	25,000	50,300	76,700	36,400	52,100	46,700	15,000	2,000	69,600	47,100	17,300
1995	87,500	25,000	50,300	76,700	36,400	52,100	46,700	15,000	2,000	69,600	47,100	17,300
1996	87,500	25,000	50,300	76,700	36,400	52,100	46,700	15,000	2,000	69,600	47,100	17,300
1997	87,500	25,000	50,300	76,700	36,400	52,100	46,700	15,000	2,000	69,600	47,100	17,300
1998	87,500	25,000	50,300	76,700	36,400	52,100	46,700	15,000	2,000	69,600	47,100	17,300
1999	87,500	25,000	50,300	76,700	36,400	52,100	46,700	15,000	2,000	69,600	47,100	17,300
2000 1/	87,500	25,000	50,300	76,700	36,400	52,100	46,700	15,000	2,000	69,600	47,100	17,300

1/ And thereafter for the remainder of the project repayment period.

TABLE B-7 (Continued)

ACTUAL AND PROJECTED ANNUAL QUANTITIES DELIVERED

FROM EACH REACH FOR EACH CONTRACTOR

(in acre-feet)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)													
	MOJAVE DIVISION (Continued)								SANTA ANA DIVISION					
	Reach 21		Reach 22A	Reach 22B				Reach 24	Reach 25	Reach 26A			Reach 28G	Reach 28J
	AVEKWA	LCID	AVEKWA	MWD-SC[1]	MWA	CVCWD[1]	DWA[1]	CLAWA	SGPWA	SGVMWD	MWD-SC	SBVMWD	SBVMWD	MWD-SC
	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)	(49)	(50)	(51)
1962	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	1,431	170	2,173	-13,200	8,400	5,200	8,000	580	0	43,525	0	10,600	2,475	67,400
1973	1,500	290	2,400	-14,800	10,700	5,800	9,000	870	0	43,800	0	11,500	4,200	89,400
1974	2,100	400	2,600	-16,400	13,100	6,400	10,000	1,160	0	44,200	0	12,300	5,800	111,300
1975	2,700	520	2,800	-18,000	15,400	7,000	11,000	1,450	0	45,000	0	13,100	7,500	123,200
1976	3,500	640	3,400	-19,600	17,800	7,600	12,000	1,740	0	46,000	0	14,000	9,000	150,200
1977	3,900	730	3,900	-21,421	20,200	8,421	13,000	2,030	0	47,000	0	14,800	10,500	177,321
1978	4,500	920	4,400	-23,242	22,500	9,242	14,000	2,320	0	47,900	0	15,700	12,100	204,542
1979	4,900	1,040	5,000	-25,063	24,900	10,063	15,000	2,610	0	48,800	0	16,600	13,700	231,663
1980	5,500	1,150	5,400	-27,884	27,200	10,884	17,000	2,900	6,800	51,800	0	17,400	13,700	259,884
1981	5,900	1,270	5,900	-31,105	29,600	12,105	19,000	3,190	7,800	54,800	15,905	18,300	13,700	272,500
1982	6,400	1,380	6,400	-34,326	31,900	13,326	21,000	3,480	8,800	57,800	69,426	19,100	13,700	272,500
1983	6,900	1,500	6,900	-37,547	34,300	14,547	23,000	3,770	9,800	60,800	123,047	19,900	13,700	272,500
1984	7,300	1,610	7,400	-40,768	36,700	15,768	25,000	4,060	10,800	64,300	176,668	20,700	13,700	272,500
1985	7,900	1,730	7,800	-43,989	39,000	16,989	27,000	4,350	11,800	67,800	230,189	21,800	13,700	272,500
1986	8,400	1,840	8,400	-47,210	41,400	18,210	29,000	4,640	12,900	71,300	284,000	23,200	13,700	272,500
1987	8,900	1,960	8,800	-50,931	43,700	19,431	31,500	4,930	14,000	75,300	284,000	24,600	13,700	272,500
1988	9,300	2,070	9,400	-54,652	46,000	20,652	34,000	5,220	15,100	79,300	284,000	26,000	13,700	272,500
1989	9,900	2,190	9,900	-58,373	48,500	21,873	36,500	5,510	16,200	83,300	284,000	27,400	13,700	272,500
1990	10,300	2,300	10,400	0	50,800	23,100	38,100	5,800	17,300	87,800	284,000	28,800	13,700	272,500
1991	10,800	2,300	10,900	0	50,800	23,100	38,100	5,800	17,300	88,900	284,000	28,800	13,700	272,500
1992	10,800	2,300	10,900	0	50,800	23,100	38,100	5,800	17,300	88,900	284,000	28,800	13,700	272,500
1993	10,800	2,300	10,900	0	50,800	23,100	38,100	5,800	17,300	88,900	284,000	28,800	13,700	272,500
1994	10,900	2,300	10,900	0	50,800	23,100	38,100	5,800	17,300	88,900	284,000	28,800	13,700	272,500
1995	10,800	2,300	10,900	0	50,800	23,100	38,100	5,800	17,300	88,900	284,000	28,800	13,700	272,500
1996	10,800	2,300	10,900	0	50,800	23,100	38,100	5,800	17,300	88,900	284,000	28,800	13,700	272,500
1997	10,800	2,300	10,900	0	50,800	23,100	38,100	5,800	17,300	88,900	284,000	28,800	13,700	272,500
1998	10,800	2,300	10,900	0	50,800	23,100	38,100	5,800	17,300	88,900	284,000	28,800	13,700	272,500
1999	10,800	2,300	10,900	0	50,800	23,100	38,100	5,800	17,300	88,900	284,000	28,800	13,700	272,500
2000[2]	10,800	2,300	10,900	0	50,800	23,100	38,100	5,800	17,300	88,900	284,000	28,800	13,700	272,500

1/ In accordance with the Exchange Agreement between the noted agencies, Metropolitan Water District assumes responsibility for repayment of variable O.M.P.&R. costs on the exchange water in reaches beyond Reach 22B, and Desert Water Agency and Coachella Valley Water District assume responsibility for costs from the Delta through Reach 22B. The adjustment in deliveries shown in Reach 22B provides for compliance with the repayment provisions of the agreement.

2/ And thereafter for the remainder of the project repayment period.

TABLE B-7 (Continued)

TABLE B-7 (Continu d)

ACTUAL AND PROJECTED ANNUAL QUANTITIES DELIVERED FROM EACH REACH FOR EACH CONTRACTOR

(in acre-feet)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (continued)										TOTAL CALIFORNIA AQUEDUCT
	WEST BRANCH, CALIFORNIA AQUEDUCT				COASTAL BRANCH, CALIFORNIA AQUEDUCT						
	Reach 29F	Reach 30			Reach 31A		Reach 33A	Reach 34	Reach 35		
	AVEKWA	USCVWA	VCFCD	MWD-SC	DDWD	KCWA (Ag.)	SLOC FC&WCD	SLOC FC&WCD	SLOC FC&WCD	SBC FC&WCD	
	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(57)	(60)	(61)	(62)
1962	0	0	0	0	0	0	0	0	0	0	8,906
1963	0	0	0	0	0	0	0	0	0	0	12,645
1964	0	0	0	0	0	0	0	0	0	0	20,911
1965	0	0	0	0	0	0	0	0	0	0	34,026
1966	0	0	0	0	0	0	0	0	0	0	50,913
1967	0	0	0	0	0	0	0	0	0	0	56,763
1968	0	0	0	0	7,400	75,619	0	0	0	0	240,597
1969	0	0	0	0	4,700	26,066	0	0	0	0	151,600
1970	0	0	0	0	5,700	30,600	0	0	0	0	207,200
1971	0	10,000	0	70,000	6,700	31,200	0	0	0	0	338,500
1972	660	20,000	0	200,000	7,700	31,800	0	0	0	0	719,770
1973	0	21,200	0	280,000	8,700	37,500	0	0	0	0	880,700
1974	0	22,500	0	360,000	9,700	52,600	0	0	0	0	1,039,820
1975	0	23,800	0	450,000	10,700	57,000	0	0	0	0	1,201,450
1976	0	25,000	0	525,000	11,700	61,800	0	0	0	0	1,375,980
1977	0	26,000	0	600,000	12,700	66,000	0	0	0	0	1,550,901
1978	0	27,300	0	675,000	12,700	70,800	0	0	0	0	1,726,222
1979	0	28,500	0	750,000	12,700	75,300	0	0	0	0	1,898,773
1980	0	29,700	1,000	825,000	12,700	79,400	400	200	400	1,200	2,084,110
1981	0	30,900	2,000	900,000	12,700	83,800	400	200	400	2,300	2,268,465
1982	0	32,100	3,000	950,000	12,700	87,700	800	400	800	4,600	2,452,606
1983	0	33,300	4,000	1,000,000	12,700	90,800	1,200	600	1,200	6,900	2,642,657
1984	0	34,500	5,000	1,050,000	12,700	94,500	1,800	900	1,800	10,400	2,830,798
1985	0	35,800	6,000	1,100,000	12,700	97,100	3,000	1,500	3,000	17,300	3,023,140
1986	0	36,900	8,000	1,150,010	12,700	100,100	4,000	2,000	4,000	23,100	3,214,190
1987	0	38,100	10,000	1,254,231	12,700	102,200	5,000	2,500	5,000	28,800	3,407,941
1988	0	39,300	13,000	1,358,552	12,700	103,800	6,200	3,100	6,200	35,800	3,600,282
1989	0	40,500	16,000	1,462,873	12,700	104,700	8,000	4,000	8,000	46,100	3,784,453
1990	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,927,800
1991	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,935,200
1992	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,935,200
1993	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,935,200
1994	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,935,200
1995	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,935,200
1996	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,935,200
1997	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,935,200
1998	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,935,200
1999	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,935,200
2000 1/	0	41,500	20,000	1,455,000	12,700	105,100	10,000	5,000	10,000	57,700	3,935,200

1/ And thereafter for the remainder of the project repayment period.

TABLE B-8

RECONCILIATION OF PROJECT CAPITAL COSTS ALLOCATED TO WATER SUPPLY AND OROVILLE-THERMALITO POWER

(in thousands of dollars)

FACILITY AND REACH	PROJECT CONSERVATION FACILITIES ALLOCATED TO WATER SUPPLY AND OROVILLE-THERMALITO POWER					PROJECT TRANSPORTATION FACILITIES ALLOCATED TO WATER SUPPLY						PROJECT FACILITIES ALLOCATED TO PURPOSES OTHER THAN WATER SUPPLY AND OROVILLE-THERMALITO POWER 5/	TOTAL, STATE WATER PROJECT 6/
	Miscellaneous Income Credited to Construction 1/	Reserves for Future Price Escalation 2/	Advances for Construction of Water Delivery Structures 3/	Capital Cost Component of the Delta Water Charge 4/	Total 5/	Miscellaneous Income Credited to Construction 1/	Reserves for Future Price Escalation 2/	Advances for Construction of Water Delivery Structures 3/	Advances for Requested Excess Capacity and Future Enlargement 4/	Capital Cost Component of the Transportation Water Charge 4/	Total 5/		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
NORTH BAY AQUEDUCT													
Reach 1						0	1,164			4,580	5,744		5,744
Reach 2						0	1,653			3,816	5,469		5,469
Reach 3						6	682			4,847	5,335		5,335
Total						6	3,299			13,243	16,548		16,548
SOUTH BAY AQUEDUCT													
Reach 1						15	18	1		12,109	12,143	0	12,143
Reach 2						3	1	109		1,454	1,567	0	1,567
Reach 4						33	20	22		4,004	4,079	0	4,079
Reach 5						7	57	1		10,930	10,995	19,627	30,622
Reach 6						1	0	6		314	321	0	321
Reach 7						10	4	70		3,986	4,070	0	4,070
Reach 8						7	32	2		4,489	4,530	0	4,530
Reach 9						1,463	80	14		8,564	10,121	0	10,121
Total						1,539	212	225		45,850	47,826	19,627	67,453
CALIFORNIA AQUEDUCT													
North San Joaquin Division													
Reach 1	22	459		12,173	12,654	113	2,279	0		60,484	62,876	3,145	78,675
Reach 2A	23	66		9,415	9,504	106	312	23		44,963	45,404	2,769	57,677
Reach 2B	7	48		5,194	5,249	31	237	0		23,986	24,254	1,256	30,759
Subtotal	52	573		26,782	27,407	250	2,828	23		129,433	132,534	7,170	167,111
San Luis Division													
Reach 3	5	2		8,916	8,923	1	3			11,300	11,304	1,434	21,661
San Luis Dam and Reservoir	396	35		80,618	81,049	0	0			0	0	7,868	88,917
Reach 4	0	0		0	0	0	1,389			31,583	32,972	1,016	33,988
Reach 5	0	0		0	0	0	2,058			20,116	22,174	684	22,858
Reach 6	0	0		0	0	0	739			7,947	8,686	264	8,950
Reach 7	0	0		0	0	0	994			11,895	12,889	395	13,284
Subtotal	401	37		89,534	89,972	1	5,119			82,841	87,961	11,669	189,602
South San Joaquin Division													
Reach 8C						2	11	129	2	303	447	10	457
Reach 8D						69	51	459	113	13,253	13,949	540	14,489
Reach 9						8	23	198	71	8,918	9,178	279	9,457
Reach 10A						8	29	178	92	9,064	9,371	284	9,655
Reach 11B						7	61	150	108	12,906	13,232	392	13,624
Reach 12D						8	103	14	196	12,037	12,318	380	12,698
Reach 12E						1	52	80	118	7,346	7,599	242	7,841
Reach 13B						7	93	99	139	15,109	15,447	489	15,936
Reach 14A						42	397	118	559	49,214	50,330	1,549	51,879
Reach 14B						27	95	132	175	12,055	12,484	382	12,866
Reach 14C						24	69	74	223	10,111	10,501	322	10,823
Reach 15A						6	343	240	593	32,770	33,952	1,041	34,993
Reach 16A						51	704	58	995	60,831	62,639	1,931	64,570
Subtotal						256	2,031	1,899	3,344	243,317	251,047	7,841	258,888
Tehachapi Division													
Reach 17E						11	3,461	92	5,811	201,106	210,481	6,499	216,980
Reach 17F						6	151	0	1,396	52,673	54,176	1,679	55,855
Subtotal						17	3,612	92	7,207	253,779	264,657	8,178	272,835
Mojave Division													
Reach 18A						37	1,663	60		11,827	13,587	419	14,006
Reach 19						0	192	48		15,749	15,989	493	16,482
Reach 19C						0	4,361	0		16,538	20,899	0	20,899
Reach 20A						10	351	64		15,685	16,110	497	16,607
Reach 20B						11	436	49		14,842	15,338	472	15,810
Reach 21						11	371	81		9,610	10,073	308	10,381
Reach 22A						3	816	92		6,202	6,943	199	6,742
Reach 22B						24	3,109	82		67,795	71,010	2,194	73,204
Reach 23						1	182	0		3,687	3,870	120	3,990
Reach 24						22	761	1		37,619	38,383	1,246	39,629
Subtotal						119	11,652	477		199,554	211,802	5,948	217,750
Santa Ana Division													
Reach 25						0	186	6	5,500	28,896	26,588	887	29,475
Reach 26A						2	5,914	4,659	0	35,127	45,702	1,264	46,966
Reach 26C						4	1,203	111	0	26,089	27,347	845	28,192
Reach 28H						4	1,273	900	0	23,496	24,971	768	25,739
Reach 28J						0	11,277	3,900	9,968	46,227	71,372	3,560	74,932
Subtotal						10	19,851	8,676	15,468	153,715	197,980	7,324	205,304
West Branch													
Reach 29A						1	510	0	85	26,551	27,147	840	27,987
Reach 29F						4	371	62	24	7,858	8,319	257	8,576
Reach 29G						24	13,257	8	0	60,999	73,768	2,284	76,052
Reach 29H						2	1,101	0	0	34,508	35,611	1,220	36,831
Reach 29J						40,150	560	0	0	61,945	104,655	3,241	107,896
Reach 30						122	1,519	3,956	0	105,460	111,057	4,075	115,132
Subtotal						40,303	17,301	4,026	109	298,821	360,560	11,917	372,477
Coastal Division													
Reach 33A						6	471	40		15,139	15,656		15,656
Reach 33A						0	10,639	0		34,343	44,982		44,982
Reach 34						0	2,225	0		2,066	4,291		4,291
Reach 35						0	2,890	0		7,904	10,794		10,794
Subtotal						6	15,125	40		60,552	75,723		75,723
Total	453	610		116,316	117,379	40,962	77,519	15,433	26,128	1,422,222	1,582,264	60,047	1,759,690
UPPER FEATHER AREA													
Frenchman Dam and Lake	4			1,604	1,608		0			0	0	1,650	3,258
Orrtly Valley Dam and Lake Davis	0			241	241		0			0	0	4,742	4,983
Antelope Dam and Lake	0			0	0		0			0	0	4,629	4,629
Abbey Bridge Dam and Reservoir	0			0	0		0			0	0	8,207	8,207
Dixie Refuge Dam and Reservoir	0			0	0		0			0	0	5,844	5,844
Orrtly Valley Pipeline	0			0	0		162			673	835	0	835
Total	4			1,848	1,852		162			673	835	25,072	27,759
OROVILLE AREA													
Oroville Dam and Lake Oroville	2,200	225	0	255,013	257,438							70,266	327,704
Oroville-Thermalito Power Facilities	236	334	183	164,181	164,934							60	164,994
Total	2,436	559	183	419,194	422,372							70,326	492,698
DELTA FACILITIES		282		73,306	73,588							35,912	109,500
MIDDLE FORK EEL RIVER DEVELOPMENT		20,787		144,245	165,032								165,032
SAN JOAQUIN DRAINAGE FACILITIES												7,649	7,649
UNSPECIFIED												138,020	138,020
TOTAL, FOR THE PROJECT	2,893	22,238	183	754,909	780,223	42,907	81,192	15,698	26,128	1,481,988	1,647,473	350,653	2,778,349

1/ Miscellaneous project receipts, including those from rights-of-way rentals and sales, that are applied for accounting purposes to reduce the capital costs of the particular facilities which generate the income
2/ These amounts are included in financial analysis to provide sufficient funds to meet escalation if price trends continue at the present rate.
3/ From Table B-9
4/ From Table B-12
5/ Total for each facility from Table 13.
6/ From Table B-10
7/ Total for each reach from Table B-11

TABLE B-9

ACTUAL AND PROJECTED CAPITAL COSTS OF REQUESTED DELIVERY STRUCTURES TO BE CONSTRUCTED BY THE STATE

(in dollars)

PROJECT SERVICE AREA AND WATER SUPPLY CONTRACTOR	CALENDAR YEAR												TOTAL
	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
FEATHER RIVER AREA													
County of Butte	0	0	0	0	7,000	0	69,000	59,000	0	0	0	0	135,000
Thermalito Irrigation District[1/]	0	0	0	0	0	4,000	19,000	25,000	0	0	0	0	48,000
Subtotals	0	0	0	0	7,000	4,000	88,000	84,000	0	0	0	0	183,000
SOUTH BAY AREA													
Alameda County Flood Control and Water Conservation District, Zone 7	56,000	0	3,000	68,000	3,000	-3,000	10,000	1,000	0	0	0	0	138,000
Alameda County Water District	0	0	9,000	10,000	53,000	0	1,000	0	0	0	0	0	73,000
Santa Clara County Flood Control and Water District	0	0	0	0	1,000	6,000	7,000	0	0	0	0	0	14,000
Subtotals	56,000	0	12,000	78,000	57,000	3,000	18,000	1,000	0	0	0	0	225,000
SAN JOAQUIN VALLEY													
Devil's Den Water District	0	0	0	0	0	1,000	5,000	28,000	2,000	0	0	0	36,000
Dudley Ridge Water District	0	0	0	0	0	1,000	76,000	151,000	99,000	0	0	0	327,000
Empire West Side Irrigation District	0	0	0	0	0	0	1,000	3,000	1,000	0	0	0	5,000
Hacienda Water District	0	0	0	0	0	0	5,000	9,000	5,000	0	0	0	19,000
Kern County Water Agency	0	0	0	0	0	28,000	222,000	218,000	467,000	324,000	121,000	0	1,380,000
Oak Flat Water District	0	0	0	0	0	7,000	0	16,000	0	0	0	0	23,000
Tulare Lake Basin Water Storage District	0	0	0	0	0	1,000	66,000	125,000	72,000	0	0	0	264,000
Subtotals	0	0	0	0	0	38,000	375,000	550,000	646,000	324,000	121,000	0	2,054,000
SOUTHERN CALIFORNIA AREA													
Antelope Valley-East Kern Water Agency	0	0	0	0	1,000	0	3,000	17,000	12,000	96,000	136,000	105,000	370,000
Coachella Valley County Water District	0	0	0	0	0	0	0	0	4,000	2,000	2,000	0	8,000
Crestline-Lake Arrowhead Water Agency	0	0	0	0	2,000	-1,000	0	0	0	0	0	0	1,000
Desert Water Agency	0	0	0	0	0	0	0	0	8,000	4,000	3,000	0	15,000
Littlerock Creek Irrigation District	0	0	0	0	0	0	0	0	5,000	3,000	20,000	17,000	45,000
Mojave Water Agency	0	0	0	0	0	0	0	1,000	12,000	6,000	22,000	18,000	59,000
Palmdale Irrigation District	0	0	0	0	0	0	0	1,000	7,000	3,000	20,000	18,000	49,000
San Bernardino Valley Municipal Water District	0	0	0	0	0	0	1,000	4,000	3,000	282,000	370,000	38,000	698,000
San Gabriel Valley Municipal Water District	0	0	0	0	0	0	0	1,000	2,000	101,000	115,000	0	219,000
San Gorgonio Pass Water Agency	0	0	0	0	0	0	1,000	0	0	0	2,000	3,000	6,000
The Metropolitan Water District of Southern California	0	0	0	0	1,000	0	1,000	7,000	50,000	4,364,000	4,800,000	2,360,000	11,583,000
Upper Santa Clara Valley Water Agency	0	0	0	0	0	0	0	0	16,000	89,000	70,000	35,000	210,000
Ventura County Flood Control District	0	0	0	0	0	0	0	0	16,000	58,000	42,000	0	116,000
Subtotals	0	0	0	0	4,000	-1,000	6,000	31,000	135,000	5,007,000	5,603,000	2,594,000	13,379,000
TOTALS	56,000	0	12,000	78,000	68,000	44,000	487,000	666,000	781,000	5,331,000	5,724,000	2,594,000	15,841,000

1/ Not a project water supply contractor. A delivery structure was constructed in the Thermalito Power Canal for delivery of water rights to this agency.

TABLE B-10

CAPITAL COSTS FOR REQUESTED EXCESS PEAKING CAPACITY AND CONTRACTOR PAYMENTS THEREFOR

(In dollars unless otherwise indicated)

REACH NUMBER	YEAR REACH BECOMES OPERATIONAL	EXCESS CAPACITY (cfs)	TOTAL REACH CAPACITY (cfs)	RATIO OF EXCESS CAPACITY TO TOTAL CAPACITY (cfs/cfs) 1/	TOTAL REACH COSTS 2/	TOTAL ADVANCE PAYMENTS FOR EXCESS CAPACITY 3/	TOTAL INCREMENTAL COSTS FOR EXCESS CAPACITY	RECONCILIATION OF ADVANCE PAYMENTS 4/
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
TOTAL REQUIRED ADVANCE OF FUNDS								
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA								
8C	1968	188 00000	8,255 55646	0 02277254	406,590	9,259	2,000	7,259
8D	1968	188 00000	8,057 00159	0 02333374	14,375,846	335,442	113,000	222,442
9	1969	188 00000	7,866 54682	0 02587198	9,473,901	245,098	71,000	174,098
10A	1969	188 00000	7,115 75668	0 02642024	9,661,373	255,856	92,000	163,856
11A	1969	188 00000	6,311 69439	0 02978889	13,220,919	334,126	108,000	226,126
12D	1970	188 00000	5,927 96141	0 03171411	12,741,014	404,070	156,000	248,070
12E	1970	188 00000	5,905 23612	0 03183615	7,805,958	248,511	118,000	130,511
13B	1970	188 00000	5,139 25959	0 03921087	15,876,766	559,935	139,000	420,035
14A	1971	188 00000	5,006 97817	0 03754760	51,522,964	1,934,564	559,000	1,375,564
14B	1971	188 00000	4,806 20657	0 03847566	12,703,146	488,762	175,000	313,762
14C	1971	188 00000	4,696 84683	0 04000979	10,741,519	429,766	223,000	206,766
15A	1971	188 00000	4,595 95872	0 04090550	34,553,417	1,413,425	593,000	820,425
16A	1971	188 00000	4,385 75265	0 04286568	64,213,533	2,752,557	995,000	1,757,557
17E	1971	188 00000	4,134 10784	0 04547535	213,816,102	9,725,362	5,811,000	3,914,362
17F	1971	188.00000	4,124 90140	0 04557585	55,855,676	2,515,670	1,396,000	1,119,670
25	1972	787.00000	2,019 63064	0 38967521	29,353,511	11,438,336	5,357,055	6,081,281
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT								
25	1972	21 00000	2,019 63064	0 01039794	29,412,219	305,826	142,945	162,881
ANTELOPE VALLEY-EAST KERN WATER AGENCY								
29A	1972	19 00000	3,126 84785	0 00607641	27,578,019	167,575	85,000	82,575
29F	1971	19 00000	3,126 02488	0.00607801	8,826,352	50,012	24,000	26,012

ANNUAL REQUIRED ADVANCE OF FUNDS

REACH NUMBER	ITEM	ESTIMATED COSTS AND ADVANCE PAYMENTS BY CALENDAR YEAR															REACH TOTALS
		1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA																		
8C	1. Incremental Costs	0	1,000	1,000														2,000
	2 Advance Payments and Reconciliations (-)	0	4,630	4,629		(-) 7,259												2,000
	3 Interest Credit 2/					(-) 846												(-) 846
8D	1 Incremental Costs	4,000	45,000	64,000														113,000
	2 Advance Payments and Reconciliations (-)	11,874	133,583	189,585		(-) 222,442												113,000
	3 Interest Credit 2/					(-) 25,514												(-) 25,514
9	1 Incremental Costs	4,000	24,000	35,000	8,000													71,000
	2 Advance Payments and Reconciliations (-)	13,808	82,050	120,823	27,617		(-) 174,098											71,000
	3 Interest Credit 2/						(-) 27,663											(-) 27,663
10A	1 Incremental Costs	5,000	30,000	46,000	11,000													92,000
	2 Advance Payments and Reconciliations (-)	13,873	83,236	127,628	30,519		(-) 163,256											92,000
	3 Interest Credit 2/						(-) 25,793											(-) 25,793
11A	1 Incremental Costs	7,000	42,000	48,000	11,000													108,000
	2 Advance Payments and Reconciliations (-)	25,545	153,271	175,167	40,143		(-) 286,126											108,000
	3 Interest Credit 2/						(-) 46,621											(-) 46,621
12D	1. Incremental Costs	16,000	20,000	18,000	84,000	15,000												156,000
	2 Advance Payments and Reconciliations (-)	41,443	51,804	46,823	217,576	46,624		(-)248,070										156,000
	3 Interest Credit 2/							(-) 42,522										(-) 42,522
12E	1 Incremental Costs	10,000	14,000	14,000	66,000	14,000												118,000
	2 Advance Payments and Reconciliations (-)	21,060	29,484	29,484	138,998	29,485		(-)130,511										118,000
	3 Interest Credit 2/							(-) 21,866										(-) 21,866
13B	1 Incremental Costs	1,000	2,000	14,000	96,000	26,000												139,000
	2. Advance Payments and Reconciliations (-)	4,022	8,044	56,106	386,096	104,567		(-)420,035										139,000
	3 Interest Credit 2/							(-) 58,726										(-) 58,726
14A	1 Incremental Costs	51,000	65,000	39,000	194,000	150,000	60,000											559,000
	2 Advance Payments and Reconciliations (-)	176,499	224,949	134,970	671,387	519,114	207,645		(-) 1,375,564									559,000
	3 Interest Credit 2/								(-) 274,898									(-) 274,898
14B	1 Incremental Costs	21,000	14,000	10,000	45,000	69,000	12,000											175,000
	2 Advance Payments and Reconciliations (-)	86,981	39,101	27,929	125,682	175,954	33,515		(-) 313,762									175,000
	3. Interest Credit 2/								(-) 65,514									(-) 65,514
14C	1 Incremental Costs	39,000	18,000	13,000	98,000	80,000	15,000											223,000
	2. Advance Payments and Reconciliations (-)	75,161	34,690	25,094	111,778	154,176	29,907		(-) 206,766									223,000
	3. Interest Credit 2/								(-) 43,166									(-) 43,166
15A	1. Incremental Costs	4,000	70,000	46,000	243,000	182,000	128,000											593,000
	2 Advance Payments and Reconciliations (-)	9,534	23,835	109,642	579,194	386,130	305,090		(-) 820,425									593,000
	3 Interest Credit 2/								(-) 134,506									(-) 134,506
16A	1 Incremental Costs	14,000	12,000	96,000	367,000	35,000	169,000											995,000
	2 Advance Payments and Reconciliations (-)	38,729	33,197	154,918	1,070,593	987,601	467,519		(-) 1,737,557									995,000
	3 Interest Credit 2/								(-) 287,779									(-) 287,779
17E	1. Incremental Costs	30,000	259,000	1,159,000	1,971,000	1,565,000	827,000											5,811,000
	2 Advance Payments and Reconciliations (-)	50,198	433,376	1,939,318	3,298,012	2,618,565	1,383,793		(-) 3,918,362									5,811,000
	3 Interest Credit 2/								(-) 707,532									(-) 707,532
17F	1 Incremental Costs	78,000	203,000	488,000	349,000	276,000	22,000											1,396,000
	2 Advance Payments and Reconciliations (-)	142,237	370,180	853,419	636,418	503,299	40,117		(-) 1,149,670									1,396,000
	3 Interest Credit 2/								(-) 257,983									(-) 257,983
25	1 Incremental Costs	0	68,000	1,235,226	1,389,912	1,373,354	969,140	321,423										5,357,055
	2 Advance Payments and Reconciliations (-)	0	145,193	2,637,444	2,967,728	2,932,373	2,069,299	686,299		(-)6,081,261								5,357,055
	3 Interest Credit 2/									(-)1,329,143								(-) 1,329,143
29F	1 Incremental Costs	0	1,049,842	288,132	1,774,000	1,387,000	735,000	546,000	271,000	164,000	109,000	57,000	21,000	1,087,000	1,436,000	1,141,000	22,000	10,087,974
	2 Advance Payments and Reconciliations (-)	0	1,049,842	288,132	1,774,000	1,387,000	735,000	546,000	271,000	164,000	109,000	57,000	21,000	1,087,000	1,436,000	1,141,000	22,000	10,087,974
	3 Interest Credit 2/																	
TOTALS	1. Incremental Costs	294,000	1,876,842	3,554,358	6,666,912	5,471,354	2,937,140	867,423	271,000	164,000	109,000	57,000	21,000	1,087,000	1,436,000	1,141,000	22,000	25,996,029
	2 Advance Payments and Reconciliations (-)	710,564	2,901,265	6,921,471	12,075,741	9,619,267	4,647,405	433,683	(-) 9,265,106	(-)5,917,281	109,000	57,000	21,000	1,087,000	1,436,000	1,141,000	22,000	25,996,029
	3 Interest Credit					(-) 26,460	(-) 100,037	(-)123,116	(-) 1,771,098	(-) 1,329,143								(-) 3,349,814
	4 Reapplied Credits 6/							239,433	11,307,184	7,410,424								18,953,041
	5 Required Advance of Funds	710,564	2,901,265	6,921,471	12,075,741	9,588,827	4,547,368	546,000	271,000	164,000	109,000	57,000	21,000	1,087,000	1,436,000	1,141,000	22,000	41,599,836
CURRENT ADJUSTMENTS	1 Advance Payments and Adjustments-Amen 2 7/	0	8,036,000	9,094,963	1,523,252	9,084,679	3,812,368											31,511,262
	2 Interest Credits - Amendment 2 8/					774,088												774,088
	3 Advance Payments and Adjustments-Amen. 5	0	1,240,000	1,483,180	2,469,325	(-) 693,531	735,000	546,000	271,000	164,000	109,000	57,000	21,000	1,087,000	1,436,000	1,141,000	22,000	9,772,082
	4. Interest Credits - Amendment 5 9/					233,504												233,504
	5 Net Required Advance of Funds	0	9,276,000	10,578,143	3,992,577	7,383,616	4,547,368	546,000	271,000	164,000	109,000	57,000	21,000	1,087,000	1,436,000	1,141,000	22,000	40,363,372
SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT																		
25	1. Incremental Costs	0	0	34,774	37,088	36,646	25,860	8,577										142,945
	2 Advance Payments and Reconciliations (-)	0	0	74,398	79,349	78,403	55,327	18,349		(-) 160,881								142,945
	3 Interest Credit 2/									(-) 35,479								(-) 35,479
TOTALS	1 Incremental Costs	0	0	34,774	37,088	36,646	25,860	8,577										142,945
	2 Advance Payments and Reconciliations (-)	0	0	74,398	79,349	78,403	55,327	18,349		(-) 160,881								142,945
	3 Interest Credit									(-) 35,479								(-) 35,479
	4 Reapplied Credit									196,360								196,360
	5 Required Advance of Funds	0	0	74,398	79,349	78,403	55,327	18,349		0								305,826
CURRENT ADJUSTMENTS	1 Advance Payments and Adjustments	0	0	0	184,422	47,728	55,327	18,349										305,826
	2 Interest Credit					1,324												1,324
	3 Net Required Advance of Funds	0	0	0	184,422	49,052	55,327	18,349										307,150
ANTELOPE VALLEY-EAST KERN WATER AGENCY																		
29A	1 Incremental Costs	0	0	8,000	14,000	26,000	26,000	11,000										85,000
	2 Advance Payments and Reconciliations (-)	0	0	15,772	27,601	51,258	51,258	21,686		(-) 83,575								85,000
	3 Interest Credit 2/									(-) 15,110								(-) 15,110
29F	1 Incremental Costs	0	0	3,000	4,000	14,000	3,000											24,000
	2. Advance Payments and Reconciliations (-)	0	0	6,251	8,335	29,174	6,252	(-) 26,012										24,000
	3 Interest Credit 2/							(-) 4,076										(-) 4,076
TOTALS	1 Incremental Costs	0	0	11,000	18,000	40,000	29,000	11,000										109,000
	2 Advance Payments and Reconciliations (-)	0	0	22,023	35,936	80,432	57,510	21,686 (-)	26,012 (-)	82,575								109,000
	3. Interest Credit							(-)	4,076 (-)	15,110								(-) 19,186
	4. Reapplied Credit								30,088	97,685								127,773
	5 Required Advance of Funds	0	0	22,023	35,936	80,432	57,510	21,686	0	0								217,587
CURRENT ADJUSTMENTS	1 Advance Payments and Adjustments	0	0	0	89,495	52,896	57,510	21,686										217,587
	2 Interest Credit					(-) 271												(-) 271
	3 Net Required Advance of Funds	0	0	0	89,495	52,625	57,510	21,686										217,316

1/ Column 1, divided by column 2
2/ Reach costs for Reaches 8C through 17F during the period 1952-1965 are compounded to 1965 at the project interest rate, 3.853 percent. Reach costs for Reach 29F during the period 1952-1966 are compounded to 1966 at the project interest rate, 3 853 percent.
3/ Column 3, multiplied by column 4.
4/ Column 5, less column 6
5/ Interest credits for reconciliation of advance payments with incremental costs are compounded annually to the year in which credits are applied at 4 5 percent per annum.
6/ Reconciliation of Advance Payments with incremental costs under Amendment 2 are to be applied against the Capital Cost Component of the Transportation Charge
7/ Actual Payments are shown for 1966, 1967, and 1968 with the adjusted 1969 value reflecting overpayments and underpayments for prior years without interest
8/ Interest for overpayments and underpayments reflects the reconciliation provisions of Amendment 2 of the water supply contract
9/ Interest for overpayments and underpayments reflects the reconciliation provisions of Amendment 5 of the water supply contract

TABLE B-10

TABLE B-11

ACTUAL AND PROJECTED CAPITAL COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS

(in dollars)

CALENDAR YEAR	UPPER FEATHER AREA	NORTH BAY AQUEDUCT				SOUTH BAY AQUEDUCT						
		Reach 1	Reach 2	Reach 3	Total	Reach 1	Reach 2	Reach 4	Reach 5	Reach 6	Reach 7	Reach 8
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1952	0	0	0	0	0	97	34	30	60	8	67	72
1953	0	0	0	0	0	477	166	144	315	38	327	336
1954	0	0	0	0	0	1,466	508	437	1,013	123	1,005	1,003
1955	0	0	0	0	0	1,944	674	560	1,336	160	1,293	1,149
1956	0	0	0	0	0	18,789	6,515	5,090	13,248	1,559	11,959	11,043
1957	0	13,290	3,391	9,953	26,634	45,090	15,639	12,285	35,218	3,658	28,675	27,385
1958	0	19,086	4,975	25,847	49,908	193,747	81,296	7,634	22,927	2,219	17,717	17,253
1959	0	8,418	2,263	19,784	30,465	483,567	146,098	24,314	18,526	419	3,949	4,367
1960	0	13,503	3,817	9,631	26,951	1,103,214	91,747	69,276	69,424	467	4,398	4,913
1961	0	9,938	2,899	3,032	15,869	3,142,107	382,905	302,626	78,214	2,627	21,124	21,720
1962	0	3,242	945	1,502	5,689	1,441,002	240,888	677,640	33,780	7,084	157,559	179,362
1963	0	8,879	2,580	4,011	15,470	432,206	58,214	2,193,801	208,527	183,359	1,316,867	912,621
1964	7,693	17,823	10,349	49,482	77,654	2,493,956	15,481	163,505	212,828	20,192	1,773,403	2,327,843
1965	3,017	23,530	12,168	186,573	222,271	653,728	132,296	107,729	424,155	38,897	365,629	547,822
1966	0	55,085	26,158	441,014	522,257	515,387	244,055	101,639	1,737,014	26,500	62,542	75,942
1967	0	55,562	29,306	1,554,630	1,639,498	263,449	6,822	240,606	3,663,601	36,530	137,660	144,258
1968	40,000	151,000	137,000	906,000	1,194,000	355,000	7,000	7,000	3,670,000	15,000-	41,000	70,000
1969	52,000	89,000	73,000	108,000	270,000	692,000	9,000	26,000	628,000	2,000	19,000	56,000
1970	98,000	43,000	27,000	49,000	119,000	223,000	0	1,000	110,000	0	0	21,000
1971	0	41,000	26,000	39,000	106,000	4,000	1,000	6,000	2,000	0	2,000	19,000
1972	0	42,000	27,000	0	69,000	14,000	4,000	18,000	0	1,000	6,000	14,000
1973	0	44,000	28,000	0	72,000	25,000	7,000	31,000	0	2,000	11,000	25,000
1974	0	68,000	54,000	0	122,000	6,000	2,000	8,000	0	0	3,000	7,000
1975	0	115,000	106,000	0	221,000	0	0	0	0	0	0	0
1976	10,000	234,000	208,000	21,000	463,000	0	0	0	0	0	0	0
1977	20,000	302,000	258,000	38,000	598,000	0	0	0	0	0	0	0
1978	202,000	831,000	637,000	291,000	1,759,000	0	0	0	0	0	0	0
1979	240,000	2,299,000	2,033,000	1,046,000	5,378,000	0	0	0	0	0	0	0
1980	0	40,000	49,000	21,000	110,000	0	0	0	0	0	0	0
1981	0	14,000	15,000	0	29,000	0	0	0	0	0	0	0
1982	0	8,000	9,000	0	17,000	0	0	0	0	0	0	0
1983	0	31,000	30,000	22,000	83,000	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	672,710	4,580,356	3,815,851	4,846,459	13,242,666	12,109,226	1,453,338	4,004,316	10,930,186	313,840	3,986,174	4,489,089

TABLE B-11 (Continued)

ACTUAL AND PROJECTED CAPITAL COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS

(in dollars)

CALENDAR YEAR	SOUTH BAY AQUEDUCT (Continued)		CALIFORNIA AQUEDUCT									
			NORTH SAN JOAQUIN DIVISION				SAN LUIS DIVISION					
	Reach 9	Total	Reach 1	Reach 2A	Reach 2B	Subtotal	Reach 3	Reach 4	Reach 5	Reach 6	Reach 7	Subtotal
	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
1952	132	500	4,746	3,916	1,773	10,435	1,904	3,641	4,131	1,050	1,295	12,021
1953	641	2,444	12,489	10,258	4,687	27,434	5,340	10,409	11,380	2,945	3,631	33,705
1954	1,954	7,509	16,350	13,327	6,125	35,802	6,629	12,875	14,174	3,655	4,509	41,842
1955	2,454	9,570	8,748	7,102	3,264	19,114	3,250	6,215	7,048	1,793	2,210	20,516
1956	28,371	96,574	11,036	6,138	2,830	20,004	2,950	5,640	6,400	1,627	2,007	18,624
1957	563,114	731,064	13,389	6,682	3,082	23,153	3,217	6,149	6,978	1,773	2,187	20,304
1958	558,931	901,724	25,015	21,009	9,689	55,713	12,331	27,029	30,849	7,737	9,885	87,831
1959	135,922	817,162	150,298	121,264	54,567	326,129	28,522	61,452	70,101	17,600	22,496	200,171
1960	300,921	1,644,360	187,606	147,457	69,007	404,070	32,778	66,180	67,495	17,315	27,271	211,039
1961	3,945	3,947,378	207,933	243,201	51,382	502,516	137,339	304,442	166,167	32,215	49,223	689,386
1962	266,867	3,004,182	415,176	590,502	165,381	1,171,059	152,198	579,745	243,366	21,412	22,547	1,019,268
1963	190,532	5,496,127	2,633,859	1,774,364	730,501	5,138,724	1,595,660	2,089,489	2,292,625	56,635	28,495	6,062,904
1964	2,907,774	9,914,982	5,825,804	2,514,635	940,048	9,280,487	3,337,499	5,031,229	991,774	128,789	174,244	9,663,535
1965	1,901,766	4,172,022	7,385,851	7,673,516	4,141,247	19,200,614	2,786,406	4,643,158	2,180,305	648,236	406,999	10,665,104
1966	841,910	3,604,989	10,404,803	16,567,930	7,206,973	34,179,706	1,971,935	9,764,417	5,999,526	3,488,752	5,674,764	26,899,394
1967	369,985	4,862,911	11,322,244	12,828,538	8,067,654	32,218,436	685,872	4,847,975	2,870,267	1,633,379	2,651,746	12,689,239
1968	184,000	4,319,000	9,509,000	1,693,000	2,162,000	13,364,000	347,000	1,037,000	838,000	334,000	668,000	3,224,000
1969	119,000	1,551,000	3,058,000	306,000	142,000	3,506,000	104,000	298,000	299,000	111,000	179,000	991,000
1970	53,000	408,000	1,064,000	319,000	146,000	1,529,000	80,000	297,000	245,000	89,000	134,000	845,000
1971	36,000	70,000	2,202,000	64,000	47,000	2,313,000	5,000	96,000	11,000	4,000	10,000	126,000
1972	53,000	110,000	2,077,000	37,000	17,000	2,131,000	0	0	0	0	0	0
1973	41,000	142,000	76,000	14,000	14,000	104,000	0	0	0	0	0	0
1974	11,000	37,000	8,000	0	0	8,000	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	10,000	0	0	10,000	0	0	0	0	0	0
1979	0	0	58,000	0	0	58,000	0	0	0	0	0	0
1980	0	0	428,000	0	0	428,000	0	0	0	0	0	0
1981	0	0	1,681,000	0	0	1,681,000	0	0	0	0	0	0
1982	0	0	1,623,000	0	0	1,623,000	0	0	0	0	0	0
1983	0	0	57,000	0	0	57,000	0	102,000	160,000	57,000	78,000	397,000
1984	0	0	8,000	0	0	8,000	0	1,433,000	2,250,000	804,000	1,089,000	5,576,000
1985	0	0	0	0	0	0	0	860,000	1,350,000	483,000	654,000	3,347,000
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8,564,329	45,850,498	60,484,347	44,962,839	23,986,210	129,433,396	11,299,830	31,583,045	20,115,586	7,946,913	11,895,509	82,840,883

TABLE B-11 (Continued)

ACTUAL AND PROJECTED CAPITAL COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS

(in dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)											
	SOUTH SAN JOAQUIN DIVISION											
	Reach 8C	Reach 8D	Reach 9	Reach 10A	Reach 11B	Reach 12D	Reach 12E	Reach 13B	Reach 14A	Reach 14B	Reach 14C	Reach 15A
	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)
1952	14	717	1,165	735	1,350	2,147	1,066	1,761	514	174	183	1,872
1953	51	2,666	4,369	2,696	5,020	7,984	3,962	6,548	1,885	640	671	6,972
1954	52	2,707	4,214	2,962	5,097	8,108	4,024	6,650	2,071	701	737	6,998
1955	18	875	1,166	1,157	1,650	2,624	1,303	2,151	808	273	288	2,191
1956	70	3,628	4,809	4,809	6,831	10,867	5,393	8,914	3,492	1,138	1,197	9,068
1957	204	10,524	13,947	13,947	19,811	31,512	15,641	25,845	11,743	3,305	3,471	26,291
1958	352	18,006	23,869	23,869	45,111	71,755	35,613	58,852	33,959	10,881	11,424	55,847
1959	387	19,689	25,796	25,797	65,701	104,507	51,868	85,714	58,640	19,878	20,872	76,060
1960	904	46,164	38,430	59,345	54,627	86,891	43,126	71,264	63,708	19,196	20,158	63,742
1961	1,483	75,829	39,534	76,045	77,528	123,484	61,551	101,342	142,101	41,825	43,550	95,219
1962	3,249	166,272	67,421	60,342	67,980	108,639	54,736	89,308	150,201	44,863	45,958	77,032
1963	3,471	177,626	95,563	67,844	97,554	155,946	77,094	126,878	290,498	89,019	91,734	180,729
1964	2,118	108,411	148,337	144,481	216,235	344,924	120,675	200,399	1,105,221	571,379	510,769	634,013
1965	9,173	527,839	569,532	572,753	1,348,760	1,583,762	511,266	498,401	3,131,431	1,741,866	1,509,786	522,156
1966	108,800	5,526,637	2,596,687	2,649,114	3,981,548	689,379	375,430	461,874	4,743,015	1,048,460	832,629	914,802
1967	104,856	5,318,746	3,527,960	3,448,082	4,976,640	2,047,430	1,210,026	1,318,991	2,591,664	657,514	532,630	1,020,593
1968	26,000	855,000	1,426,000	1,539,000	1,179,000	4,924,000	3,576,000	9,062,000	16,541,000	2,991,000	2,519,000	11,842,000
1969	14,000	209,000	201,000	219,000	188,000	1,484,000	1,052,000	2,740,000	12,640,000	3,742,000	3,092,000	8,050,000
1970	14,000	133,000	118,000	140,000	116,000	165,000	109,000	151,000	5,099,000	851,000	698,000	6,095,000
1971	14,000	34,000	5,000	6,000	17,000	18,000	17,000	33,000	2,369,000	153,000	119,000	2,891,000
1972	0	16,000	3,000	4,000	17,000	37,000	8,000	31,000	154,000	50,000	43,000	134,000
1973	0	0	1,000	1,000	17,000	23,000	6,000	15,000	44,000	9,000	8,000	35,000
1974	0	0	1,000	1,000	1,000	6,000	5,000	12,000	36,000	8,000	6,000	29,000
1975	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	303,202	13,253,336	8,917,799	9,063,978	12,506,443	12,036,959	7,345,774	15,108,892	49,213,951	12,055,112	10,111,057	32,769,585

TABLE B-11 (Continued)

ACTUAL AND PROJECTED CAPITAL COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS

(in dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)											
	SOUTH SAN JOAQUIN DIVISION		TEHACHAPI DIVISION			MOJAVE DIVISION						
	Reach 16A	Subtotal	Reach 17E	Reach 17F	Subtotal	Reach 18A	Reach 19	Reach 19C	Reach 20A	Reach 20B	Reach 21	Reach 22A
	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)
1952	4,547	16,245	9,352	3,179	12,531	4,207	1,564	0	2,634	917	5,953	36
1953	16,933	60,397	30,601	11,512	42,113	12,971	4,819	0	7,453	3,498	18,356	73
1954	17,016	61,337	45,716	13,659	59,375	17,118	6,361	0	9,778	4,679	24,231	380
1955	5,347	19,851	25,776	5,908	31,684	5,773	2,144	0	2,601	2,275	8,174	185
1956	22,125	82,341	41,107	18,284	59,391	6,210	2,307	0	2,511	2,731	8,785	221
1957	64,157	240,398	114,072	50,737	164,809	22,988	8,541	0	9,293	10,109	32,521	822
1958	150,975	540,513	163,378	72,667	236,045	38,443	14,285	0	15,543	16,906	54,389	1,375
1959	225,111	780,020	131,633	58,517	190,150	41,002	23,380	0	23,791	18,862	60,683	1,536
1960	209,662	777,217	138,481	61,171	199,652	36,635	29,361	0	42,132	36,511	115,752	3,523
1961	291,189	1,170,680	362,177	130,814	492,991	40,109	43,533	0	89,604	97,453	306,573	21,669
1962	265,657	1,201,658	377,830	113,343	491,173	65,759	41,351	0	33,803	36,763	104,024	9,892
1963	639,421	2,093,377	855,052	198,234	1,053,286	33,924	79,126	0	96,290	104,729	315,758	90,664
1964	1,911,550	6,018,512	2,157,577	226,262	2,383,839	336,396	214,509	0	113,556	123,571	298,869	108,699
1965	1,346,647	13,873,372	3,362,922	1,616,534	4,979,456	148,783	597,063	0	151,637	168,483	135,583	79,979
1966	2,353,031	26,281,406	7,293,797	9,413,596	16,707,393	367,371	1,929,392	0	544,615	654,044	290,475	170,441
1967	3,170,679	29,925,811	27,566,370	12,167,805	39,734,175	1,359,921	936,026	0	911,195	1,607,236	523,465	408,049
1968	19,435,000	75,915,000	56,913,000	14,685,000	71,598,000	538,000	5,361,000	140,000	2,831,000	2,056,000	982,000	782,000
1969	17,523,000	51,154,000	44,660,000	12,634,000	57,294,000	1,188,000	3,785,000	95,000	5,375,000	5,483,000	3,741,000	2,712,000
1970	8,790,000	22,479,000	23,938,000	980,000	24,918,000	2,232,000	1,769,000	0	4,649,000	3,704,000	2,028,000	1,469,000
1971	4,058,000	9,734,000	16,712,000	97,000	16,809,000	525,000	442,000	0	499,000	421,000	254,000	188,000
1972	223,000	720,000	6,347,000	25,000	6,372,000	1,000	344,000	0	251,000	245,000	171,000	131,000
1973	59,000	218,000	903,000	0	903,000	0	4,000	35,000	2,000	24,000	38,000	13,000
1974	49,000	154,000	1,488,000	0	1,488,000	0	0	205,000	0	0	37,000	0
1975	0	0	3,728,000	20,000	3,748,000	94,000	0	1,430,000	0	0	43,000	0
1976	0	0	3,701,000	20,000	3,721,000	272,000	0	1,335,000	0	0	0	0
1977	0	0	39,000	0	39,000	792,000	0	6,635,000	0	0	0	0
1978	0	0	1,000	0	1,000	1,332,000	0	6,635,000	0	0	0	0
1979	0	0	0	0	0	1,666,000	10,000	14,000	11,000	10,000	6,000	5,000
1980	0	0	0	0	0	637,000	100,000	14,000	11,000	10,000	6,000	5,000
1981	0	0	0	0	0	12,000	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	60,831,047	243,517,135	201,105,841	52,623,222	253,729,063	11,826,610	15,748,762	16,538,000	15,685,436	14,841,767	9,609,591	6,202,544

TABLE B-11 (Continued)

TABLE B-11 (Continued)

ACTUAL AND PROJECTED CAPITAL COSTS OF EACH AQUEDUCT REACH

TO BE REIMBURSED BY ALL CONTRACTORS

(in dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)											
	MOJAVE DIVISION (Continued)				SANTA ANA DIVISION						WEST BRANCH	
	Reach 22B	Reach 23	Reach 24	Subtotal	Reach 25	Reach 26A	Reach 28G	Reach 28H	Reach 28J	Subtotal	Reach 29A	Reach 29F
	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)
1952	2,072	908	2,482	20,773	3,429	5,759	4,922	4,171	3,106	21,387	3,008	139
1953	5,918	3,269	7,652	64,009	10,570	17,758	16,027	11,842	9,748	65,945	9,353	353
1954	8,805	5,219	10,100	86,671	13,953	23,442	18,531	18,618	12,508	87,052	7,602	1,234
1955	2,832	2,538	3,407	29,929	4,707	7,907	6,226	6,255	4,268	29,363	1,047	602
1956	2,989	3,047	3,662	32,463	5,059	8,500	6,683	6,713	4,609	31,564	502	718
1957	11,064	11,274	13,556	120,168	18,726	31,461	24,732	24,848	17,062	116,829	1,860	2,656
1958	18,503	18,856	22,669	200,969	31,318	52,617	41,363	41,558	28,533	195,389	3,113	4,442
1959	21,198	21,672	51,459	263,583	40,055	59,034	47,684	47,906	42,598	237,277	5,687	8,120
1960	57,919	24,459	90,616	436,908	69,205	99,603	87,123	87,533	70,052	413,516	12,194	17,405
1961	221,667	24,618	196,569	1,041,795	149,811	215,797	200,798	201,830	138,973	907,209	17,145	20,760
1962	195,765	10,295	104,122	601,774	53,426	104,744	75,523	76,224	101,286	411,203	43,062	48,604
1963	169,359	11,059	311,032	1,211,941	75,851	186,397	102,101	103,077	1,042,752	1,510,178	78,040	85,727
1964	252,760	13,792	326,787	1,788,939	102,071	283,655	114,154	114,892	159,741	774,513	170,233	141,928
1965	822,358	29,818	658,364	2,792,068	321,573	234,116	125,850	126,521	284,417	1,092,477	378,305	186,628
1966	2,052,214	62,225	1,041,395	7,112,172	433,170	360,111	174,281	318,612	642,644	1,928,818	400,513	490,001
1967	3,120,746	113,336	2,355,077	11,335,051	2,915,038	615,050	234,201	308,129	1,151,177	5,223,595	1,436,084	312,212
1968	6,752,000	155,000	2,892,000	22,489,000	6,889,000	1,023,000	384,000	434,000	596,000	9,326,000	5,100,000	1,253,000
1969	26,245,000	820,000	11,892,000	61,336,000	5,785,000	8,608,000	10,961,000	2,427,000	380,000	28,161,000	7,689,000	4,047,000
1970	18,327,000	1,793,000	10,753,000	46,724,000	4,129,000	3,801,000	12,155,000	13,101,000	250,000	33,436,000	7,418,000	1,011,000
1971	4,155,000	500,000	5,476,000	12,460,000	1,816,000	482,000	1,189,000	5,814,000	114,000	9,415,000	3,467,000	129,000
1972	2,369,000	51,000	1,277,000	4,840,000	3,000	8,000	15,000	183,000	29,000	238,000	282,000	31,000
1973	550,000	6,000	44,000	715,000	0	3,000	7,000	4,000	26,000	40,000	1,000	19,000
1974	172,000	0	21,000	435,000	0	0	3,000	3,000	28,000	34,000	0	19,000
1975	379,000	0	11,000	1,957,000	0	98,000	3,000	3,000	283,000	387,000	0	19,000
1976	344,000	0	0	1,951,000	0	768,000	0	0	781,000	1,549,000	0	4,000
1977	1,231,000	0	0	8,658,000	0	5,108,000	0	0	11,450,000	16,558,000	13,000	4,000
1978	206,000	0	0	8,173,000	0	7,691,000	0	0	15,043,000	22,734,000	13,000	0
1979	50,000	3,000	26,000	1,801,000	0	5,161,000	0	0	11,994,000	17,155,000	0	0
1980	49,000	3,000	29,000	864,000	0	31,000	0	0	1,282,000	1,313,000	0	0
1981	0	0	0	12,000	13,000	20,000	16,000	14,000	180,000	243,000	0	0
1982	0	0	0	0	13,000	19,000	16,000	14,000	78,000	140,000	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	67,795,169	3,687,385	37,618,949	199,554,213	22,895,962	35,126,951	26,029,199	23,495,729	46,227,474	153,775,315	26,550,748	7,857,529

TABLE B-11 (Continued)

ACTUAL AND PROJECTED CAPITAL COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS

(in dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)											GRAND TOTAL
	WEST BRANCH (Continued)					COASTAL BRANCH					Total	
	Reach 29G	Reach 29H	Reach 29J	Reach 30	Subtotal	Reach 31A	Reach 33A	Reach 34	Reach 35	Subtotal		
	(61)	(62)	(63)	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)
1952	179	472	569	1,448	5,815	0	0	0	0	0	99,207	99,707
1953	245	1,803	1,731	4,469	17,954	0	0	0	0	0	311,557	314,001
1954	2,292	2,419	4,281	5,908	23,736	0	0	0	0	0	395,815	403,324
1955	1,117	1,178	2,086	2,000	8,030	0	0	0	0	0	158,487	168,057
1956	1,332	1,405	2,487	2,136	8,580	0	0	0	0	0	252,967	349,541
1957	4,931	5,202	9,209	7,907	31,765	0	0	0	0	0	717,426	1,475,124
1958	8,247	8,700	15,402	13,222	53,126	0	0	0	0	0	1,369,586	2,321,218
1959	15,071	15,898	28,149	36,957	109,882	13,517	22,521	3,561	3,561	43,160	2,150,372	2,997,999
1960	32,306	34,078	60,342	64,698	221,023	38,305	65,605	8,563	12,027	124,500	2,787,925	4,459,236
1961	41,606	37,224	74,981	112,953	304,669	15,111	27,411	2,083	5,173	49,778	5,159,024	9,122,271
1962	101,769	84,452	180,542	223,891	682,320	11,774	20,150	945	2,512	35,381	5,613,836	8,623,707
1963	188,742	151,653	331,838	209,342	1,045,342	24,942	34,613	2,011	5,439	67,005	18,182,757	23,694,354
1964	343,148	254,590	584,253	792,281	2,286,433	306,684	48,670	3,031	8,046	366,431	32,562,689	42,563,018
1965	652,974	304,447	1,003,179	2,888,168	5,413,701	706,649	58,339	3,556	8,929	777,467	58,794,259	63,191,569
1966	992,148	295,762	4,627,017	8,706,395	15,511,836	2,224,647	69,576	3,817	10,076	2,308,116	130,928,841	135,056,087
1967	1,746,198	784,448	31,788,767	18,727,425	54,795,134	6,208,430	80,354	4,853	12,251	6,305,888	192,227,329	198,729,738
1968	2,805,000	4,109,000	38,924,000	27,320,000	79,511,000	2,435,000	80,000	5,000	16,000	2,536,000	277,963,000	283,516,000
1969	4,305,000	7,043,000	17,056,000	23,039,000	63,179,000	378,000	71,000	4,000	14,000	467,000	266,088,000	267,961,000
1970	2,391,000	6,792,000	7,883,000	17,798,000	43,293,000	287,000	59,000	3,000	10,000	359,000	173,583,000	174,208,000
1971	296,000	6,224,000	14,219,000-	2,292,000	1,811,000-	421,000	56,000	2,000	8,000	487,000	49,533,000	49,709,000
1972	98,000	5,607,000	12,029,000-	1,839,000	4,172,000-	812,000	59,000	2,000	8,000	881,000	11,010,000	11,189,000
1973	21,000	1,695,000	12,529,000-	151,000	10,642,000-	33,000	60,000	2,000	8,000	103,000	8,559,000-	8,345,000-
1974	187,000	1,022,000	10,000	853,000	2,091,000	32,000	60,000	2,000	7,000	101,000	4,311,000	4,470,000
1975	568,000	0	10,000	295,000	892,000	485,000	860,000	98,000	241,000	1,684,000	8,668,000	8,889,000
1976	1,240,000	0	10,000	0	1,254,000	85,000	1,407,000	119,000	313,000	1,924,000	10,399,000	10,872,000
1977	14,308,000	16,000	49,000	37,000	14,427,000	15,000	2,655,000	194,000	553,000	3,417,000	43,099,000	43,717,000
1978	23,525,000	16,000	49,000	37,000	23,640,000	10,000	13,747,000	1,172,000	2,853,000	17,782,000	72,340,000	74,301,000
1979	6,623,000	0	10,000	0	6,633,000	22,000	13,848,000	1,474,000	3,644,000	18,988,000	44,635,000	50,253,000
1980	0	0	6,000	0	6,000	485,000	916,000	54,000	153,000	1,608,000	4,219,000	4,329,000
1981	0	0	0	0	0	85,000	10,000	0	0	95,000	2,031,000	2,060,000
1982	0	0	0	0	0	0	0	0	0	0	1,763,000	1,780,000
1983	0	0	0	0	0	0	0	0	0	0	454,000	537,000
1984	0	0	0	0	0	2,000	14,000	1,000	4,000	21,000	5,605,000	5,605,000
1985	0	0	0	0	0	2,000	14,000	1,000	4,000	21,000	3,368,000	3,368,000
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	60,499,305	34,507,731	63,944,833	105,460,200	298,820,346	15,139,059	34,343,239	3,165,414	7,904,014	60,551,726	1,422,222,077	1,481,987,951

TABLE B-12

ACTUAL AND PROJECTED CAPITAL AND OPERATING COSTS OF PROJECT CONSERVATION FACILITIES TO BE REIMBURSED BY ALL CONTRACTORS

(in dollars)

CALENDAR YEAR	INITIAL FACILITIES						ADDITIONAL FACILITIES								TOTAL 6/
	CONSERVATION WATER SUPPLY AND OROVILLE POWER						DOS RIOS-GRINDSTONE TUNNEL		STONEY CREEK CONVEYANCE CHANNEL		DOS RIOS DAM AND RESERVOIR				
	Capital Costs			Oroville-Thermalito Power Revenues 3/	Operating Costs						Initial Storage		Reserved Storage		
	Capital	Operating 1/	Total 2/		Minimum 4/	Variable 5/	Capital Costs 2/	Operating Costs 4/	Capital Costs 2/	Operating Costs 4/	Capital Costs 2/	Operating Costs 4/	Capital Costs 2/	Operating Costs 4/	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1952	154,000	0	154,000	0	0	0	0	0	0	0	0	0	0	0	154,000
53	292,000	0	292,000	0	0	0	0	0	0	0	0	0	0	0	292,000
54	294,000	0	294,000	0	0	0	0	0	0	0	0	0	0	0	294,000
55	181,000	0	181,000	0	0	0	0	0	0	0	0	0	0	0	181,000
56	1,134,000	0	1,134,000	0	0	0	0	0	0	0	0	0	0	0	1,134,000
57	5,093,000	0	5,093,000	0	0	0	0	0	0	0	0	0	0	0	5,093,000
58	7,848,000	0	7,848,000	0	0	0	0	0	0	0	0	0	0	0	7,848,000
59	9,630,000	0	9,630,000	0	0	0	0	0	0	0	0	0	0	0	9,630,000
1960	12,688,000	0	12,688,000	0	0	0	0	0	0	0	0	0	0	0	12,688,000
61	15,780,000	0	15,780,000	0	0	0	0	0	0	0	0	0	0	0	15,780,000
62	19,705,000	0	19,705,000	0	5,000	0	0	0	0	0	0	0	0	0	19,710,000
63	64,271,000	0	64,271,000	0	0	0	0	0	0	0	0	0	0	0	64,271,000
64	67,108,000	0	67,108,000	0	-8,000	0	42,000	0	18,000	0	65,000	0	41,000	0	67,266,000
65	72,399,000	0	72,399,000	0	0	0	216,000	0	91,000	0	331,000	0	211,000	0	73,248,000
66	126,787,000	0	126,787,000	0	15,000	0	372,000	0	156,000	0	567,000	0	363,000	0	128,260,000
67	92,646,000	0	92,646,000	0	0	0	379,000	0	159,000	0	579,000	0	370,000	0	94,133,000
68	39,775,000	0	39,775,000	0	1,047,000	689,000	353,000	0	148,000	0	538,000	0	344,000	0	42,894,000
69	7,652,000	2,905,000	10,557,000	9,655,000	1,247,000	1,230,000	346,000	0	145,000	0	527,000	0	337,000	0	4,734,000
1970	3,400,000	3,060,000	6,460,000	16,150,000	1,282,000	1,549,000	350,000	0	147,000	0	534,000	0	342,000	0	- 5,486,000
71	5,122,000	3,083,000	8,205,000	16,150,000	1,311,000	481,000	356,000	0	149,000	0	543,000	0	347,000	0	- 4,758,000
72	7,209,000	3,112,000	10,321,000	16,150,000	1,343,000	125,000	361,000	0	152,000	0	551,000	0	353,000	0	- 2,944,000
73	14,723,000	3,146,000	17,869,000	16,150,000	1,371,000	593,000	2,861,000	0	152,000	0	551,000	0	353,000	0	7,600,000
74	16,702,000	3,153,000	19,855,000	16,150,000	1,389,000	323,000	2,711,000	0	88,000	0	321,000	0	205,000	0	8,742,000
75	16,793,000	3,139,000	19,932,000	16,150,000	1,397,000	-184,000	2,558,000	0	25,000	0	90,000	0	56,000	0	7,724,000
76	2,901,000	3,126,000	5,527,000	16,150,000	1,433,000	346,000	10,555,000	0	22,000	0	84,000	0	53,000	0	1,670,000
77	0	3,123,000	3,123,000	16,150,000	1,656,000	300,000	13,054,000	0	22,000	0	81,000	0	52,000	0	2,138,000
78	2,000	3,123,000	3,125,000	16,150,000	1,668,000	- 96,000	13,054,000	0	22,000	0	81,000	0	52,000	0	1,756,000
79	12,000	3,123,000	3,135,000	16,150,000	1,663,000	-327,000	13,054,000	0	22,000	0	81,000	0	52,000	0	1,530,000
1980	86,000	3,122,000	3,208,000	16,150,000	1,651,000	15,000	13,054,000	0	22,000	0	81,000	0	52,000	0	1,933,000
81	338,000	3,122,000	3,460,000	16,150,000	1,642,000	-124,000	13,054,000	0	22,000	0	81,000	0	52,000	0	2,037,000
82	326,000	3,122,000	3,448,000	16,150,000	1,641,000	- 75,000	13,054,000	0	22,000	0	81,000	0	52,000	0	2,073,000
83	11,000	3,122,000	3,133,000	16,150,000	1,632,000	-215,000	14,054,000	0	122,000	0	81,000	0	52,000	0	2,709,000
84	2,000	3,122,000	3,124,000	21,514,000	1,626,000	-143,000	12,054,000	0	122,000	0	81,000	0	52,000	0	- 4,598,000
85	0	3,114,000	3,114,000	16,150,000	1,617,000	-148,000	3,652,000	0	3,522,000	0	80,000	0	51,000	0	- 4,262,000
86	0	3,103,000	3,103,000	16,150,000	1,610,000	1,021,000	0	160,000	0	67,000	5,573,000	271,000	0	57,000	- 4,288,000
87	0	3,103,000	3,103,000	16,150,000	1,611,000	342,000	0	160,000	0	67,000	5,573,000	271,000	0	57,000	- 4,966,000
88	0	3,103,000	3,103,000	18,711,000	1,608,000	0	0	160,000	0	67,000	5,573,000	271,000	0	57,000	- 7,872,000
89	0	3,103,000	3,103,000	28,309,000	1,609,000	48,000	0	160,000	0	67,000	5,573,000	271,000	0	57,000	-11,421,000
1990	0	3,103,000	3,103,000	16,150,000	1,608,000	-127,000	0	160,000	0	67,000	5,573,000	271,000	0	57,000	- 5,438,000
91	0	3,103,000	3,103,000	16,961,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	0	57,000	- 6,224,000
92	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	0	57,000	- 5,413,000
93	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	0	57,000	- 5,413,000
94	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000 7/	174,000	- 1,733,000
95	0	3,103,000	3,103,000	18,736,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 4,318,000
96	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
97	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
98	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
99	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
2000	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
01	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
02	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
03	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
04	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
05	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
06	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
07	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
08	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
09	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
2010	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
11	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
12	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
13	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
14	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
15	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
16	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
17	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
18	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
19	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
2020	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
21	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
22	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
23	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
24	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
25	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
26	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
27	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
28	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
29	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
2030	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
31	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
32	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
33	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
34	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
2035	0	3,103,000	3,103,000	16,150,000	1,608,000	-102,000	0	160,000	0	67,000	5,573,000	271,000	3,563,000	174,000	- 1,733,000
TOTALS	610,664	207,967,000	818,631,000	1,093,035,000	107,234,000	1,033,000	129,044,000	8,000,000	5,350,000	3,350,000	284,699,000	13,550,000	153,488,000	7,764,000	439,068,000

1/ These operations, maintenance, power, and replacement costs allocated to Oroville-Thermalito power generation will be included in the capital cost component of the Delta Water Charge.
2/ Reimbursed through the capital cost component of the Delta Water Charge
3/ Included in the capital cost component of the Delta Water Charge.
4/ Reimbursed through the minimum operations, maintenance, power, and replacement component of the Delta Water Charge.
5/ Reimbursed through the variable operations, maintenance, power, and replacement component of the Delta Water Charge.
6/ Total of Column 3, plus Columns 5 through 14, less Column 4.
7/ Beginning a 50-year repayment of federal costs with interest at 4-3/8 percent.

TABLE B-13

ACTUAL AND PROJECTED MINIMUM OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS SERVED FROM OR THROUGH THE REACH

(in dollars)

CALENDAR YEAR	UPPER FEATHER AREA	NORTH BAY AQUEDUCT				SOUTH BAY AQUEDUCT						
		Reach 1	Reach 2	Reach 3	Total	Reach 1	Reach 2	Reach 4	Reach 5	Reach 6	Reach 7	Reach 8
	(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	0	0	72,139	7,560	2,852	0	0	0	0
1963	0	0	0	0	0	128,011	17,380	8,331	0	0	0	0
1964	0	0	0	0	0	123,770	13,611	12,136	0	0	0	0
1965	0	0	0	0	0	238,105	40,471	43,897	0	2,159	7,629	5,435
1966	0	0	0	0	0	269,839	18,375	59,659	0	3,404	10,717	9,421
1967	0	0	0	0	0	384,313	20,350	110,926	0	1,833	8,717	15,035
1968	0	0	0	0	0	364,000	26,000	99,000	0	14,000	39,000	69,000
1969	0	0	0	79,000	79,000	369,000	27,000	102,000	26,000	14,000	42,000	73,000
1970	0	0	0	91,000	91,000	387,000	28,000	108,000	27,000	14,000	44,000	76,000
1971	2,000	0	0	96,000	96,000	402,000	30,000	110,000	28,000	15,000	46,000	80,000
1972	2,000	0	0	102,000	102,000	420,000	30,000	116,000	29,000	15,000	48,000	83,000
1973	2,000	0	0	107,000	107,000	438,000	33,000	123,000	31,000	18,000	52,000	87,000
1974	2,000	0	0	113,000	113,000	451,000	35,000	127,000	32,000	19,000	52,000	91,000
1975	2,000	0	0	119,000	119,000	463,000	35,000	131,000	34,000	18,000	53,000	92,000
1976	2,000	0	0	124,000	124,000	475,000	36,000	135,000	34,000	18,000	56,000	95,000
1977	2,000	0	0	131,000	131,000	491,000	38,000	140,000	35,000	19,000	56,000	101,000
1978	2,000	0	0	52,000	52,000	508,000	38,000	144,000	37,000	19,000	61,000	104,000
1979	2,000	0	0	52,000	52,000	507,000	38,000	144,000	37,000	19,000	61,000	103,000
1980	2,000	155,000	98,000	52,000	305,000	505,000	38,000	144,000	37,000	19,000	61,000	103,000
1981	2,000	155,000	98,000	52,000	305,000	505,000	38,000	144,000	37,000	19,000	61,000	103,000
1982	2,000	154,000	98,000	52,000	304,000	504,000	38,000	144,000	37,000	19,000	61,000	103,000
1983	2,000	154,000	98,000	52,000	304,000	504,000	38,000	144,000	37,000	19,000	61,000	103,000
1984	2,000	154,000	98,000	52,000	304,000	502,000	38,000	144,000	37,000	19,000	61,000	103,000
1985	2,000	154,000	98,000	52,000	304,000	500,000	37,000	143,000	37,000	19,000	61,000	103,000
1986	2,000	153,000	98,000	52,000	303,000	498,000	37,000	142,000	37,000	19,000	60,000	103,000
1987	2,000	153,000	98,000	52,000	303,000	498,000	37,000	142,000	37,000	19,000	60,000	103,000
1988	2,000	153,000	98,000	52,000	303,000	498,000	37,000	142,000	37,000	19,000	60,000	103,000
1989	2,000	153,000	98,000	52,000	303,000	497,000	37,000	142,000	37,000	19,000	60,000	103,000
1990	2,000	153,000	98,000	52,000	303,000	497,000	37,000	142,000	37,000	19,000	60,000	103,000
1991	2,000	153,000	98,000	52,000	303,000	497,000	37,000	142,000	37,000	19,000	60,000	103,000
1992	2,000	153,000	98,000	52,000	303,000	496,000	37,000	142,000	37,000	19,000	60,000	103,000
1993	2,000	153,000	98,000	52,000	303,000	496,000	37,000	142,000	37,000	19,000	60,000	103,000
1994	2,000	153,000	98,000	52,000	303,000	496,000	37,000	142,000	37,000	19,000	60,000	103,000
1995	2,000	153,000	98,000	52,000	303,000	496,000	37,000	142,000	37,000	19,000	60,000	103,000
1996	2,000	153,000	98,000	52,000	303,000	496,000	37,000	142,000	37,000	19,000	60,000	103,000
1997	2,000	153,000	98,000	52,000	303,000	496,000	37,000	142,000	37,000	19,000	60,000	103,000
1998	2,000	153,000	98,000	52,000	303,000	496,000	37,000	142,000	37,000	19,000	60,000	103,000
1999	2,000	153,000	98,000	52,000	303,000	496,000	37,000	142,000	37,000	19,000	60,000	103,000
2000 1/	2,000	153,000	98,000	52,000	303,000	496,000	37,000	142,000	37,000	19,000	60,000	103,000

1/ And each year thereafter for the remainder of the project repayment period.

TABLE B-13 (Continued)

ACTUAL AND PROJECTED MINIMUM OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS SERVED FROM OR THROUGH THE REACH

(in dollars)

CALENDAR YEAR	SOUTH BAY AQUEDUCT (Continued)		CALIFORNIA AQUEDUCT									
			NORTH SAN JOAQUIN DIVISION				SAN LUIS DIVISION					
	Reach 9	Total	Reach 1	Reach 2A	Reach 2B	Subtotal	Reach 3	Reach 4	Reach 5	Reach 6	Reach 7	Subtotal
	(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	82,551	0	0	0	0	0	0	0	0	0	0
1963	0	153,722	0	0	0	0	0	0	0	0	0	0
1964	0	149,517	0	0	0	0	0	0	0	0	0	0
1965	9,708	347,404	0	0	0	0	0	0	0	0	0	0
1966	20,562	391,977	0	0	0	0	0	0	0	0	0	0
1967	30,455	571,629	0	0	0	0	0	0	0	0	0	0
1968	80,000	691,000	729,000	877,000	349,000	1,955,000	101,000	501,000	201,000	72,000	98,000	973,000
1969	84,000	737,000	690,000	1,151,000	398,000	2,239,000	104,000	517,000	210,000	75,000	101,000	1,007,000
1970	86,000	770,000	882,000	1,252,000	430,000	2,564,000	104,000	547,000	210,000	74,000	101,000	1,036,000
1971	91,000	802,000	801,000	1,302,000	448,000	2,551,000	105,000	565,000	210,000	75,000	102,000	1,057,000
1972	95,000	836,000	779,000	1,352,000	465,000	2,596,000	107,000	581,000	212,000	76,000	103,000	1,079,000
1973	100,000	882,000	817,000	1,407,000	483,000	2,707,000	107,000	593,000	214,000	76,000	104,000	1,094,000
1974	104,000	911,000	886,000	1,453,000	499,000	2,838,000	107,000	594,000	214,000	76,000	104,000	1,095,000
1975	107,000	933,000	903,000	1,486,000	511,000	2,900,000	107,000	591,000	214,000	76,000	104,000	1,092,000
1976	110,000	959,000	910,000	1,521,000	523,000	2,954,000	107,000	596,000	214,000	76,000	104,000	1,097,000
1977	114,000	994,000	916,000	1,565,000	539,000	3,020,000	107,000	591,000	214,000	76,000	104,000	1,092,000
1978	117,000	1,028,000	952,000	1,610,000	554,000	3,116,000	107,000	597,000	214,000	76,000	104,000	1,098,000
1979	117,000	1,026,000	950,000	1,610,000	554,000	3,114,000	107,000	591,000	214,000	76,000	104,000	1,092,000
1980	117,000	1,024,000	990,000	1,610,000	554,000	3,154,000	107,000	586,000	214,000	76,000	104,000	1,087,000
1981	117,000	1,024,000	965,000	1,610,000	554,000	3,129,000	107,000	586,000	214,000	76,000	104,000	1,087,000
1982	117,000	1,023,000	1,002,000	1,610,000	554,000	3,166,000	107,000	582,000	214,000	76,000	104,000	1,083,000
1983	117,000	1,023,000	978,000	1,610,000	554,000	3,142,000	107,000	580,000	214,000	76,000	104,000	1,081,000
1984	117,000	1,021,000	1,000,000	1,610,000	554,000	3,164,000	107,000	569,000	214,000	76,000	104,000	1,070,000
1985	116,000	1,016,000	990,000	1,603,000	554,000	3,147,000	107,000	568,000	213,000	76,000	103,000	1,067,000
1986	116,000	1,012,000	930,000	1,597,000	551,000	3,078,000	107,000	566,000	212,000	75,000	103,000	1,063,000
1987	116,000	1,012,000	920,000	1,597,000	550,000	3,067,000	107,000	563,000	212,000	75,000	103,000	1,060,000
1988	116,000	1,012,000	919,000	1,597,000	550,000	3,066,000	107,000	566,000	212,000	75,000	103,000	1,063,000
1989	116,000	1,011,000	941,000	1,597,000	550,000	3,088,000	107,000	561,000	212,000	75,000	103,000	1,058,000
1990	116,000	1,011,000	938,000	1,597,000	550,000	3,085,000	107,000	557,000	212,000	75,000	103,000	1,054,000
1991	116,000	1,011,000	940,000	1,597,000	550,000	3,087,000	107,000	562,000	212,000	75,000	103,000	1,059,000
1992	116,000	1,010,000	940,000	1,597,000	550,000	3,087,000	107,000	562,000	212,000	75,000	103,000	1,059,000
1993	116,000	1,010,000	939,000	1,597,000	550,000	3,086,000	107,000	562,000	212,000	75,000	103,000	1,059,000
1994	116,000	1,010,000	939,000	1,597,000	550,000	3,086,000	107,000	562,000	212,000	75,000	103,000	1,059,000
1995	116,000	1,010,000	939,000	1,597,000	550,000	3,086,000	107,000	562,000	212,000	75,000	103,000	1,059,000
1996	116,000	1,010,000	939,000	1,597,000	550,000	3,086,000	107,000	562,000	212,000	75,000	103,000	1,059,000
1997	116,000	1,010,000	939,000	1,597,000	550,000	3,086,000	107,000	562,000	212,000	75,000	103,000	1,059,000
1998	116,000	1,010,000	939,000	1,597,000	550,000	3,086,000	107,000	562,000	212,000	75,000	103,000	1,059,000
1999	116,000	1,010,000	939,000	1,597,000	550,000	3,086,000	107,000	562,000	212,000	75,000	103,000	1,059,000
2000 1/	116,000	1,010,000	939,000	1,597,000	550,000	3,086,000	107,000	562,000	212,000	75,000	103,000	1,059,000

1/ And each year thereafter for the remainder of the project repayment period.

TABLE B-13 (Continued)

ACTUAL AND PROJECTED MINIMUM OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COSTS
OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS
SERVED FROM OR THROUGH THE REACH

(in dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)											
	SOUTH SAN JOAQUIN DIVISION											
	Reach 8C	Reach 8D	Reach 9	Reach 10A	Reach 11B	Reach 12D	Reach 12E	Reach 13B	Reach 14A	Reach 14B	Reach 14C	Reach 15A
	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)
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	0
1963	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0
1969	2,000	121,000	120,000	131,000	74,000	0	0	0	0	0	0	0
1970	3,000	162,000	160,000	172,000	100,000	157,000	117,000	144,000	467,000	111,000	94,000	258,000
1971	4,000	201,000	200,000	217,000	124,000	197,000	147,000	181,000	543,000	140,000	117,000	310,000
1972	4,000	207,000	206,000	224,000	129,000	204,000	151,000	186,000	583,000	147,000	122,000	347,000
1973	4,000	210,000	208,000	227,000	128,000	205,000	151,000	187,000	596,000	148,000	124,000	359,000
1974	4,000	211,000	209,000	229,000	128,000	205,000	152,000	187,000	603,000	149,000	124,000	370,000
1975	4,000	210,000	209,000	229,000	128,000	205,000	152,000	187,000	600,000	149,000	124,000	367,000
1976	4,000	210,000	209,000	229,000	128,000	205,000	151,000	187,000	600,000	149,000	124,000	369,000
1977	4,000	210,000	209,000	228,000	128,000	205,000	151,000	187,000	596,000	149,000	124,000	365,000
1978	4,000	210,000	209,000	228,000	128,000	205,000	151,000	187,000	597,000	149,000	124,000	367,000
1979	4,000	210,000	209,000	228,000	128,000	205,000	151,000	187,000	595,000	149,000	124,000	366,000
1980	4,000	210,000	209,000	228,000	128,000	205,000	151,000	187,000	598,000	149,000	124,000	371,000
1981	4,000	210,000	209,000	228,000	128,000	205,000	151,000	187,000	600,000	149,000	124,000	368,000
1982	4,000	210,000	209,000	228,000	128,000	205,000	151,000	187,000	598,000	149,000	124,000	367,000
1983	4,000	210,000	209,000	228,000	128,000	205,000	151,000	187,000	598,000	149,000	124,000	368,000
1984	4,000	210,000	209,000	228,000	128,000	205,000	151,000	187,000	589,000	149,000	124,000	359,000
1985	4,000	209,000	208,000	227,000	128,000	204,000	151,000	186,000	587,000	148,000	123,000	360,000
1986	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	585,000	148,000	123,000	359,000
1987	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	585,000	148,000	123,000	359,000
1988	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	589,000	148,000	123,000	360,000
1989	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	585,000	148,000	123,000	358,000
1990	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	584,000	148,000	123,000	357,000
1991	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	588,000	148,000	123,000	360,000
1992	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	588,000	148,000	123,000	360,000
1993	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	588,000	148,000	123,000	360,000
1994	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	588,000	148,000	123,000	360,000
1995	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	588,000	148,000	123,000	360,000
1996	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	588,000	148,000	123,000	360,000
1997	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	588,000	148,000	123,000	360,000
1998	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	588,000	148,000	123,000	360,000
1999 1/	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	588,000	148,000	123,000	360,000
2000 1/	4,000	208,000	207,000	226,000	127,000	203,000	150,000	185,000	588,000	148,000	123,000	360,000

1/ And each year thereafter for the remainder of the project repayment period.

TABLE B-13 (Continued)

ACTUAL AND PROJECTED MINIMUM OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS SERVED FROM OR THROUGH THE REACH

(in dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)											
	SOUTH SAN JOAQUIN DIVISION		TEHACHAPI DIVISION			MOJAVE DIVISION						
	Reach 16A	Subtotal	Reach 17E	Reach 17F	Subtotal	Reach 18A	Reach 19	Reach 19C[1]	Reach 20A	Reach 20B	Reach 21	Reach 22A
	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)
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	0
1963	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	448,000	0	0	0	0	0	0	0	0	0	0
1970	0	1,945,000	0	0	0	0	0	0	0	0	0	0
1971	603,000	2,984,000	0	0	0	0	0	0	0	0	0	0
1972	683,000	3,193,000	1,303,000	14,000	1,317,000	94,000	147,000	0	154,000	145,000	102,000	58,000
1973	704,000	3,251,000	1,369,000	15,000	1,384,000	94,000	152,000	0	156,000	131,000	103,000	60,000
1974	719,000	3,290,000	1,425,000	15,000	1,440,000	96,000	152,000	0	156,000	131,000	103,000	61,000
1975	713,000	3,277,000	1,407,000	15,000	1,422,000	95,000	152,000	0	156,000	130,000	103,000	61,000
1976	717,000	3,282,000	1,423,000	15,000	1,438,000	95,000	152,000	0	156,000	130,000	103,000	61,000
1977	711,000	3,267,000	1,400,000	15,000	1,415,000	94,000	152,000	0	156,000	130,000	103,000	60,000
1978	712,000	3,271,000	1,407,000	15,000	1,422,000	94,000	152,000	0	156,000	130,000	103,000	60,000
1979	722,000	3,278,000	1,405,000	15,000	1,420,000	94,000	152,000	0	156,000	130,000	103,000	60,000
1980	732,000	3,296,000	1,450,000	15,000	1,465,000	114,000	152,000	0	156,000	130,000	103,000	60,000
1981	726,000	3,289,000	1,446,000	15,000	1,461,000	112,000	152,000	0	156,000	130,000	103,000	60,000
1982	725,000	3,285,000	1,432,000	15,000	1,447,000	111,000	152,000	0	156,000	130,000	103,000	60,000
1983	726,000	3,287,000	1,464,000	15,000	1,479,000	111,000	152,000	0	156,000	130,000	103,000	60,000
1984	707,000	3,250,000	1,402,000	15,000	1,417,000	113,000	152,000	0	156,000	130,000	103,000	60,000
1985	713,000	3,248,000	1,363,000	15,000	1,378,000	111,000	151,000	0	155,000	130,000	103,000	60,000
1986	705,000	3,230,000	1,367,000	15,000	1,382,000	111,000	151,000	0	154,000	129,000	102,000	60,000
1987	706,000	3,231,000	1,369,000	15,000	1,384,000	112,000	151,000	0	154,000	129,000	102,000	60,000
1988	709,000	3,239,000	1,379,000	15,000	1,394,000	112,000	151,000	0	154,000	129,000	102,000	60,000
1989	703,000	3,227,000	1,361,000	15,000	1,376,000	112,000	151,000	0	154,000	129,000	102,000	60,000
1990	706,000	3,228,000	1,354,000	15,000	1,369,000	112,000	151,000	0	154,000	129,000	102,000	60,000
1991	708,000	3,237,000	1,357,000	15,000	1,372,000	111,000	151,000	0	154,000	129,000	102,000	60,000
1992	708,000	3,237,000	1,357,000	15,000	1,372,000	111,000	151,000	0	154,000	129,000	102,000	60,000
1993	708,000	3,237,000	1,357,000	15,000	1,372,000	111,000	151,000	0	154,000	129,000	102,000	60,000
1994	708,000	3,237,000	1,357,000	15,000	1,372,000	111,000	151,000	0	154,000	129,000	102,000	60,000
1995	708,000	3,237,000	1,357,000	15,000	1,372,000	111,000	151,000	0	154,000	129,000	102,000	60,000
1996	708,000	3,237,000	1,357,000	15,000	1,372,000	111,000	151,000	0	154,000	129,000	102,000	60,000
1997	708,000	3,237,000	1,357,000	15,000	1,372,000	111,000	151,000	0	154,000	129,000	102,000	60,000
1998	708,000	3,237,000	1,357,000	15,000	1,372,000	111,000	151,000	0	154,000	129,000	102,000	60,000
1999	708,000	3,237,000	1,357,000	15,000	1,372,000	111,000	151,000	0	154,000	129,000	102,000	60,000
2000[2]	708,000	3,237,000	1,357,000	15,000	1,372,000	111,000	151,000	0	154,000	129,000	102,000	60,000

1/ Estimate not available.
2/ And each year thereafter for the remainder of the project repayment period.

TABLE B-13 (Continued)

ACTUAL AND PROJECTED MINIMUM OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COSTS
OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS
SERVED FROM OR THROUGH THE REACH

(in dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)											
	MOJAVE DIVISION (Continued)				SANTA ANA DIVISION						WEST BRANCH	
	Reach 22B	Reach 23	Reach 24	Subtotal	Reach 25	Reach 26A	Reach 28G	Reach 28H	Reach 28J	Subtotal	Reach 29A	Reach 29F
	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)
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	0
1963	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0
1972	847,000	13,000	74,000	1,634,000	40,000	202,000	14,000	13,000	0	269,000	417,000	38,000
1973	872,000	14,000	78,000	1,660,000	41,000	203,000	13,000	16,000	0	273,000	419,000	42,000
1974	870,000	14,000	78,000	1,661,000	42,000	203,000	13,000	16,000	0	274,000	426,000	42,000
1975	868,000	14,000	77,000	1,656,000	42,000	203,000	13,000	16,000	0	274,000	425,000	42,000
1976	868,000	14,000	77,000	1,656,000	42,000	203,000	13,000	16,000	0	274,000	425,000	42,000
1977	864,000	14,000	77,000	1,650,000	42,000	203,000	19,000	16,000	0	280,000	424,000	42,000
1978	866,000	14,000	77,000	1,652,000	42,000	247,000	19,000	16,000	0	324,000	424,000	42,000
1979	872,000	14,000	77,000	1,658,000	42,000	270,000	28,000	16,000	0	356,000	425,000	42,000
1980	890,000	14,000	77,000	1,696,000	42,000	228,000	45,000	16,000	98,000	429,000	423,000	42,000
1981	884,000	14,000	77,000	1,688,000	42,000	226,000	47,000	16,000	107,000	438,000	425,000	42,000
1982	883,000	14,000	77,000	1,686,000	42,000	229,000	47,000	16,000	107,000	441,000	423,000	42,000
1983	879,000	14,000	77,000	1,682,000	42,000	229,000	47,000	16,000	107,000	441,000	425,000	42,000
1984	877,000	14,000	77,000	1,682,000	42,000	234,000	47,000	16,000	107,000	446,000	421,000	42,000
1985	882,000	14,000	76,000	1,682,000	41,000	235,000	47,000	16,000	107,000	446,000	420,000	41,000
1986	873,000	14,000	76,000	1,670,000	41,000	230,000	47,000	16,000	106,000	440,000	419,000	41,000
1987	870,000	14,000	76,000	1,668,000	41,000	231,000	47,000	16,000	106,000	441,000	420,000	41,000
1988	870,000	14,000	76,000	1,668,000	41,000	232,000	47,000	16,000	106,000	442,000	420,000	41,000
1989	870,000	14,000	76,000	1,668,000	41,000	233,000	47,000	16,000	106,000	443,000	418,000	41,000
1990	866,000	14,000	76,000	1,664,000	41,000	234,000	47,000	16,000	106,000	444,000	419,000	41,000
1991	871,000	14,000	76,000	1,668,000	41,000	233,000	47,000	16,000	106,000	443,000	418,000	41,000
1992	871,000	14,000	76,000	1,668,000	41,000	233,000	47,000	16,000	106,000	443,000	418,000	41,000
1993	871,000	14,000	76,000	1,668,000	41,000	233,000	47,000	16,000	106,000	443,000	418,000	41,000
1994	871,000	14,000	76,000	1,668,000	41,000	233,000	47,000	16,000	106,000	443,000	418,000	41,000
1995	871,000	14,000	76,000	1,668,000	41,000	233,000	47,000	16,000	106,000	443,000	418,000	41,000
1996	871,000	14,000	76,000	1,668,000	41,000	233,000	47,000	16,000	106,000	443,000	418,000	41,000
1997	871,000	14,000	76,000	1,668,000	41,000	233,000	47,000	16,000	106,000	443,000	418,000	41,000
1998	871,000	14,000	76,000	1,668,000	41,000	233,000	47,000	16,000	106,000	443,000	418,000	41,000
1999	871,000	14,000	76,000	1,668,000	41,000	233,000	47,000	16,000	106,000	443,000	418,000	41,000
2000 1/	871,000	14,000	76,000	1,668,000	41,000	233,000	47,000	16,000	106,000	443,000	418,000	41,000

1/ And each year thereafter for the remainder of the project repayment period.

TABLE B-13 (Continued)

ACTUAL AND PROJECTED MINIMUM OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS SERVED FROM OR THROUGH THE REACH

(in dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)											GRAND TOTAL
	WEST BRANCH (Continued)					COASTAL BRANCH					Total	
	Reach 29G	Reach 29H	Reach 29J	Reach 30	Subtotal	Reach 31A	Reach 33A	Reach 34	Reach 35	Subtotal		
	(61)	(62)	(63)	(64)	(65)	(66)	(67)	(68)	(69)	(70)	(71)	(72)
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	82,551
1963	0	0	0	0	0	0	0	0	0	0	0	153,722
1964	0	0	0	0	0	0	0	0	0	0	0	149,517
1965	0	0	0	0	0	0	0	0	0	0	0	347,404
1966	0	0	0	0	0	0	0	0	0	0	0	391,977
1967	0	0	0	0	0	0	0	0	0	0	0	571,629
1968	0	0	0	0	0	0	0	0	0	0	2,928,000	3,619,000
1969	0	0	0	0	0	411,000	0	0	0	411,000	4,105,000	4,921,000
1970	0	0	0	0	0	476,000	0	0	0	476,000	6,021,000	6,882,000
1971	0	0	0	0	0	559,000	0	0	0	559,000	7,151,000	8,051,000
1972	178,000	70,000	73,000	118,000	894,000	566,000	0	0	0	566,000	11,548,000	12,488,000
1973	180,000	74,000	48,000	130,000	893,000	592,000	0	0	0	592,000	11,854,000	12,845,000
1974	182,000	74,000	23,000	129,000	876,000	592,000	0	0	0	592,000	12,066,000	13,092,000
1975	181,000	74,000	37,000	129,000	888,000	591,000	0	0	0	591,000	12,100,000	13,154,000
1976	181,000	74,000	22,000	129,000	873,000	592,000	0	0	0	592,000	12,166,000	13,251,000
1977	181,000	74,000	30,000	129,000	880,000	590,000	0	0	0	590,000	12,194,000	13,321,000
1978	181,000	74,000	24,000	129,000	874,000	591,000	0	0	0	591,000	12,348,000	13,430,000
1979	226,000	74,000	35,000	129,000	931,000	591,000	0	0	0	591,000	12,440,000	13,520,000
1980	193,000	74,000	37,000	129,000	898,000	596,000	211,000	9,000	28,000	844,000	12,869,000	14,200,000
1981	190,000	74,000	41,000	129,000	901,000	595,000	203,000	9,000	28,000	835,000	12,828,000	14,159,000
1982	192,000	74,000	48,000	129,000	908,000	595,000	189,000	9,000	28,000	821,000	12,837,000	14,166,000
1983	192,000	74,000	50,000	129,000	912,000	594,000	182,000	9,000	28,000	813,000	12,837,000	14,166,000
1984	198,000	74,000	59,000	129,000	923,000	593,000	181,000	9,000	28,000	811,000	12,763,000	14,090,000
1985	199,000	74,000	61,000	128,000	923,000	591,000	177,000	9,000	28,000	805,000	12,696,000	14,018,000
1986	189,000	73,000	58,000	128,000	908,000	589,000	176,000	9,000	28,000	802,000	12,573,000	13,890,000
1987	193,000	73,000	62,000	128,000	917,000	589,000	175,000	9,000	28,000	801,000	12,569,000	13,886,000
1988	195,000	73,000	63,000	128,000	920,000	588,000	173,000	9,000	28,000	798,000	12,590,000	13,907,000
1989	199,000	73,000	68,000	128,000	927,000	588,000	173,000	9,000	28,000	798,000	12,585,000	13,901,000
1990	199,000	73,000	69,000	128,000	929,000	588,000	171,000	9,000	28,000	796,000	12,569,000	13,885,000
1991	199,000	73,000	69,000	128,000	928,000	588,000	171,000	9,000	28,000	796,000	12,590,000	13,906,000
1992	199,000	73,000	69,000	128,000	928,000	588,000	171,000	9,000	28,000	796,000	12,590,000	13,905,000
1993	199,000	73,000	69,000	128,000	928,000	588,000	171,000	9,000	28,000	796,000	12,589,000	13,904,000
1994	199,000	73,000	69,000	128,000	928,000	588,000	171,000	9,000	28,000	796,000	12,589,000	13,904,000
1995	199,000	73,000	69,000	128,000	928,000	588,000	171,000	9,000	28,000	796,000	12,589,000	13,904,000
1996	199,000	73,000	69,000	128,000	928,000	588,000	171,000	9,000	28,000	796,000	12,589,000	13,904,000
1997	199,000	73,000	69,000	128,000	928,000	588,000	171,000	9,000	28,000	796,000	12,589,000	13,904,000
1998	199,000	73,000	69,000	128,000	928,000	588,000	171,000	9,000	28,000	796,000	12,589,000	13,904,000
1999	199,000	73,000	69,000	128,000	928,000	588,000	171,000	9,000	28,000	796,000	12,589,000	13,904,000
2000 1/	199,000	73,000	69,000	128,000	928,000	588,000	171,000	9,000	28,000	796,000	12,589,000	13,904,000

1/ And each year thereafter for the remainder of the project repayment period.

TABLE B-14

ACTUAL AND PROJECTED VARIABLE OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS SERVED FROM OR THROUGH THE REACH

(in dollars)

CALENDAR YEAR	NORTH BAY AQUEDUCT			SOUTH BAY AQUEDUCT		CALIFORNIA AQUEDUCT					
	Reach 1	Reach 3		Reach 1		Reach 1	Reach 4	Reach 14A	Reach 15A	Reach 16A	Reach 17E
	Calhoun Pumping Plant	Cordelia Pumping Plant	Total	South Bay and Del Valle Pumping Plants 1/	Total	Delta Pumping Plant	Dos Amigos Pumping Plant	Buena Vista Pumping Plant	Wheeler Ridge Pumping Plant	Wind Gap Pumping Plant	A. D. Edmonston Pumping Plant
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1960	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	37,723	37,723	0	0	0	0	0	0
1963	0	0	0	59,262	59,262	0	0	0	0	0	0
1964	0	0	0	74,428	74,428	0	0	0	0	0	0
1965	0	0	0	144,054	144,054	0	0	0	0	0	0
1966	0	0	0	199,902	199,902	0	0	0	0	0	0
1967	0	0	0	232,579	232,579	18,550	0	0	0	0	0
1968	0	9,000	9,000	407,000	407,000	654,000	255,000	0	0	0	0
1969	0	11,000	11,000	357,000	357,000	379,000	149,000	0	0	0	0
1970	0	14,000	14,000	475,000	475,000	828,000	216,000	0	0	0	0
1971	0	15,000	15,000	496,000	496,000	656,000	322,000	112,000	109,000	214,000	725,000
1972	0	16,000	16,000	506,000	506,000	786,000	618,000	494,000	448,000	908,000	3,310,000
1973	0	21,000	21,000	512,000	512,000	973,000	763,000	629,000	573,000	1,160,000	4,259,000
1974	0	19,000	19,000	495,000	495,000	1,420,000	853,000	716,000	743,000	1,402,000	5,169,000
1975	0	21,000	21,000	495,000	495,000	1,637,000	958,000	805,000	836,000	1,569,000	5,778,000
1976	0	23,000	23,000	513,000	513,000	1,778,000	1,146,000	961,000	1,001,000	1,897,000	7,007,000
1977	0	25,000	25,000	517,000	517,000	1,859,000	1,249,000	1,038,000	1,076,000	2,052,000	7,588,000
1978	0	28,000	28,000	561,000	561,000	2,226,000	1,465,000	1,180,000	1,240,000	2,329,000	8,658,000
1979	0	28,000	28,000	534,000	534,000	2,415,000	1,527,000	1,275,000	1,351,000	2,787,000	9,525,000
1980	7,000	42,000	49,000	496,000	496,000	2,959,000	1,486,000	1,312,000	1,389,000	2,873,000	9,957,000
1981	8,000	50,000	58,000	487,000	487,000	2,876,000	1,611,000	1,463,000	1,462,000	3,027,000	11,233,000
1982	9,000	52,000	61,000	481,000	481,000	3,625,000	1,688,000	1,553,000	1,563,000	3,239,000	11,296,000
1983	9,000	54,000	63,000	463,000	463,000	3,539,000	1,775,000	1,668,000	1,692,000	3,511,000	13,050,000
1984	8,000	55,000	63,000	434,000	434,000	4,107,000	1,704,000	1,564,000	1,581,000	3,278,000	12,155,000
1985	9,000	57,000	66,000	441,000	441,000	4,274,000	1,811,000	1,665,000	1,788,000	3,707,000	13,054,000
1986	10,000	64,000	74,000	446,000	446,000	3,491,000	1,928,000	1,784,000	1,823,000	3,781,000	14,060,000
1987	10,000	65,000	75,000	442,000	442,000	3,515,000	1,995,000	1,895,000	1,948,000	4,040,000	15,036,000
1988	11,000	66,000	77,000	441,000	441,000	3,686,000	2,171,000	2,119,000	2,098,000	4,355,000	16,224,000
1989	11,000	63,000	74,000	432,000	432,000	4,333,000	2,157,000	2,130,000	2,122,000	4,405,000	16,410,000
1990	12,000	65,000	77,000	439,000	439,000	4,431,000	2,232,000	2,160,000	2,150,000	4,669,000	16,621,000
1991	12,000	65,000	77,000	444,000	444,000	4,491,000	2,252,000	2,272,000	2,276,000	4,723,000	16,820,000
1992	12,000	65,000	77,000	446,000	446,000	4,491,000	2,252,000	2,272,000	2,276,000	4,723,000	16,820,000
1993	12,000	65,000	77,000	448,000	448,000	4,493,000	2,252,000	2,272,000	2,276,000	4,723,000	16,820,000
1994	12,000	65,000	77,000	452,000	452,000	4,495,000	2,252,000	2,272,000	2,276,000	4,723,000	16,820,000
1995	12,000	65,000	77,000	456,000	456,000	4,495,000	2,252,000	2,272,000	2,276,000	4,723,000	16,820,000
1996	12,000	65,000	77,000	457,000	457,000	4,496,000	2,252,000	2,272,000	2,276,000	4,723,000	16,820,000
1997	12,000	65,000	77,000	460,000	460,000	4,496,000	2,252,000	2,272,000	2,276,000	4,723,000	16,820,000
1998	12,000	65,000	77,000	460,000	460,000	4,496,000	2,252,000	2,272,000	2,276,000	4,723,000	16,820,000
1999 2/	12,000	65,000	77,000	460,000	460,000	4,496,000	2,252,000	2,272,000	2,276,000	4,723,000	16,820,000
2000	12,000	65,000	77,000	460,000	460,000	4,496,000	2,252,000	2,272,000	2,276,000	4,723,000	16,820,000

Footnotes on Sheet 2.

TABLE B-14 (Continued)

ACTUAL AND PROJECTED VARIABLE OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COSTS OF EACH AQUEDUCT REACH TO BE REIMBURSED BY ALL CONTRACTORS SERVED FROM OR THROUGH THE REACH

(in dollars)

CALENDAR YEAR	CALIFORNIA AQUEDUCT (Continued)									GRAND TOTAL
	Reach 18A	Reach 22B	Reach 26A	Reach 29A	Reach 29G	Reach 29J	Reach 31A	Reach 33A	Total	
	Cottonwood Powerplant	Pearblossom Pumping Plant	Devil Canyon Powerplant	Oso Pumping Plant	Pyramid Powerplant	Castaic Powerplant	Las Perillas and Badger Hill Pumping Plants	Devil's Den, Sawtooth and Polonio PP's and San Luis Obispo Pwp		
	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	37,723
1963	0	0	0	0	0	0	0	0	0	59,262
1964	0	0	0	0	0	0	0	0	0	74,428
1965	0	0	0	0	0	0	0	0	0	144,054
1966	0	0	0	0	0	0	0	0	0	199,902
1967	0	0	0	0	0	0	0	0	18,550	251,129
1968	0	0	0	0	0	0	155,000	0	1,064,000	1,480,000
1969	0	0	0	0	0	0	88,000	0	616,000	984,000
1970	0	0	0	0	0	0	97,000	0	1,141,000	1,630,000
1971	0	0	0	102,000	0	208,000-	102,000	0	2,134,000	2,645,000
1972	0	374,000	0	262,000	0	635,000-	106,000	0	6,671,000	7,193,000
1973	0	476,000	0	337,000	0	1,648,000-	142,000	0	7,664,000	8,197,000
1974	0	504,000	0	423,000	0	2,280,000-	158,000	0	9,108,000	9,622,000
1975	0	556,000	0	478,000	0	2,380,000-	163,000	0	10,400,000	10,916,000
1976	0	638,000	0	584,000	0	3,323,000-	185,000	0	11,874,000	12,410,000
1977	0	688,000	0	624,000	0	3,444,000-	192,000	0	12,922,000	13,464,000
1978	0	808,000	0	694,000	0	4,097,000-	231,000	0	14,734,000	15,323,000
1979	0	1,047,000	0	784,000	0	4,050,000-	227,000	0	16,888,000	17,450,000
1980	0	1,008,000	1,352,000-	817,000	1,738,000-	4,258,000-	224,000	50,000	14,727,000	15,272,000
1981	124,000-	1,001,000	1,558,000-	943,000	1,996,000-	4,454,000-	223,000	63,000	15,770,000	16,315,000
1982	153,000-	1,124,000	1,636,000-	938,000	2,019,000-	4,256,000-	234,000	85,000	17,281,000	17,823,000
1983	182,000-	1,370,000	1,854,000-	1,073,000	2,151,000-	4,310,000-	218,000	95,000	19,494,000	20,020,000
1984	166,000-	1,255,000	1,762,000-	936,000	1,972,000-	3,920,000-	211,000	139,000	19,110,000	19,607,000
1985	210,000-	1,579,000	1,878,000-	1,027,000	2,024,000-	3,966,000-	231,000	180,000	21,238,000	21,745,000
1986	254,000-	1,602,000	2,312,000-	1,095,000	2,609,000-	4,353,000-	252,000	229,000	20,517,000	21,037,000
1987	228,000-	1,483,000	2,245,000-	1,219,000	2,601,000-	4,354,000-	255,000	280,000	22,238,000	22,755,000
1988	245,000-	1,507,000	2,210,000-	1,304,000	2,642,000-	4,511,000-	275,000	309,000	24,440,000	24,958,000
1989	259,000-	1,531,000	2,180,000-	1,309,000	2,656,000-	4,549,000-	268,000	401,000	25,422,000	25,928,000
1990	239,000-	1,555,000	2,133,000-	1,370,000	2,614,000-	4,434,000-	279,000	430,000	26,477,000	26,993,000
1991	286,000-	1,723,000	2,196,000-	1,317,000	2,635,000-	4,396,000-	280,000	431,000	27,072,000	27,593,000
1992	286,000-	1,723,000	2,196,000-	1,317,000	2,635,000-	4,396,000-	280,000	431,000	27,072,000	27,595,000
1993	286,000-	1,723,000	2,196,000-	1,317,000	2,635,000-	4,396,000-	280,000	431,000	27,074,000	27,599,000
1994	286,000-	1,723,000	2,196,000-	1,317,000	2,635,000-	4,396,000-	280,000	431,000	27,076,000	27,605,000
1995	286,000-	1,723,000	2,196,000-	1,317,000	2,635,000-	4,396,000-	280,000	431,000	27,076,000	27,609,000
1996	286,000-	1,723,000	2,196,000-	1,317,000	2,635,000-	4,396,000-	280,000	431,000	27,077,000	27,611,000
1997	286,000-	1,723,000	2,196,000-	1,317,000	2,635,000-	4,396,000-	280,000	431,000	27,077,000	27,614,000
1998	286,000-	1,723,000	2,196,000-	1,317,000	2,635,000-	4,396,000-	280,000	431,000	27,077,000	27,614,000
1999 2/	286,000-	1,723,000	2,196,000-	1,317,000	2,635,000-	4,396,000-	280,000	431,000	27,077,000	27,614,000
2000 2/	286,000-	1,723,000	2,196,000-	1,317,000	2,635,000-	4,396,000-	280,000	431,000	27,077,000	27,614,000

1/ 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.
2/ And each year thereafter for the remainder of the project repayment period.

TABLE B-15

TOTAL CONSERVATION CHARGES OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD, Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	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	1,775	18,368	20,241	40,384	0	0	0
1968	0	0	0	24,150	52,800	308,000	384,950	0	0	0
1969	0	0	0	30,800	54,250	308,000	393,050	0	0	0
1970	0	0	0	58,642	94,999	516,045	669,686	0	0	0
1971	0	0	0	65,679	99,691	516,045	681,415	0	0	0
1972	0	0	0	72,715	104,968	516,045	693,728	0	0	0
1973	0	0	0	79,752	110,246	516,045	706,043	0	0	0
1974	0	0	0	86,789	114,937	516,045	717,771	0	0	0
1975	0	0	0	93,826	120,215	516,045	730,086	0	0	0
1976	0	0	0	124,541	154,228	637,185	915,954	0	0	0
1977	0	0	0	133,230	160,745	637,185	931,160	0	0	0
1978	0	0	0	141,919	167,261	637,185	946,365	0	0	0
1979	0	0	0	150,607	173,054	637,185	960,846	0	0	0
1980	90,509	48,875	139,384	159,296	179,570	637,185	976,051	7,241	8,689	15,930
1981	99,560	57,926	157,486	166,537	188,259	637,185	991,981	7,241	16,654	23,895
1982	108,611	68,063	176,674	173,778	196,948	637,185	1,007,911	14,481	33,307	47,788
1983	117,662	78,200	195,862	181,019	205,637	637,185	1,023,841	21,722	49,961	71,683
1984	126,713	87,613	214,326	188,259	214,326	637,185	1,039,770	32,583	75,304	107,887
1985	137,359	102,561	239,920	197,796	225,634	644,670	1,068,100	54,943	126,736	181,679
1986	177,010	146,033	323,043	247,814	284,101	778,844	1,310,759	88,505	204,447	292,952
1987	188,073	177,010	365,083	256,665	294,722	778,844	1,330,231	110,631	254,894	365,525
1988	199,136	238,964	438,100	265,515	305,342	778,844	1,349,701	137,183	316,848	454,031
1989	210,199	305,342	515,541	274,366	315,963	796,545	1,386,874	177,010	408,008	585,018
1990	221,263	371,721	592,984	283,216	326,584	814,246	1,424,046	221,263	510,674	731,937
1991	221,263	371,721	592,984	300,917	339,859	831,947	1,472,723	221,263	510,674	731,937
1992	221,263	371,721	592,984	318,618	353,135	849,648	1,521,401	221,263	510,674	731,937
1993	221,263	371,721	592,984	336,319	366,411	867,349	1,570,079	221,263	510,674	731,937
1994	246,071	413,400	659,471	393,714	413,400	984,285	1,791,399	246,071	567,932	814,003
1995	246,071	413,400	659,471	413,400	413,400	984,285	1,811,085	246,071	567,932	814,003
1996	246,071	413,400	659,471	433,085	413,400	984,285	1,830,770	246,071	567,932	814,003
1997	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
1998	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
1999	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2000	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2001	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2002	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2003	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2004	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2005	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2006	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2007	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2008	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2009	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2010	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2011	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2012	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2013	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2014	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2015	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2016	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2017	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2018	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2019	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2020	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2021	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2022	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2023	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2024	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2025	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2026	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2027	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2028	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2029	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2030	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2031	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2032	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2033	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2034	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003
2035	246,071	413,400	659,471	452,771	413,400	984,285	1,850,456	246,071	567,932	814,003

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-15 (Continued)

TOTAL CONSERVATION CHARGES OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY									
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency		Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agricultural				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	13,061	40,595	10,590	4,589	0	165,980	3,150	8,110	94,957	341,032
1969	16,450	47,600	10,500	5,600	0	334,950	4,200	8,750	102,550	530,600
1970	33,426	92,067	17,592	11,728	168,301	682,587	7,623	15,247	186,480	1,215,051
1971	39,290	104,968	17,592	13,488	209,350	906,598	7,623	16,420	200,554	1,515,883
1972	45,154	117,283	17,592	15,247	229,875	1,357,551	8,210	17,006	215,214	2,023,132
1973	51,018	129,011	17,592	17,006	255,091	1,565,729	8,796	18,179	229,288	2,291,710
1974	56,882	141,326	17,592	19,352	281,479	1,753,382	8,796	18,765	252,159	2,549,733
1975	62,746	153,641	17,592	21,111	309,041	1,951,590	9,383	19,938	275,029	2,820,071
1976	84,717	204,913	21,722	28,239	406,206	2,727,588	11,585	25,343	367,830	3,878,143
1977	91,957	220,119	21,722	30,411	438,789	3,062,834	12,309	26,791	396,793	4,301,725
1978	91,957	235,324	21,722	33,307	464,132	3,404,598	13,757	28,239	425,032	4,718,068
1979	91,957	250,530	21,722	35,480	489,474	3,738,396	14,481	28,963	453,271	5,124,274
1980	91,957	265,735	21,722	37,652	514,817	4,079,435	15,930	30,411	481,509	5,539,168
1981	91,957	280,941	21,722	40,548	541,608	4,464,642	16,654	31,135	509,748	5,998,955
1982	91,957	296,870	21,722	42,720	576,363	4,820,163	18,102	32,583	537,987	6,438,467
1983	91,957	310,628	21,722	44,893	604,602	5,224,920	20,274	33,307	566,226	6,918,529
1984	91,957	326,558	21,722	47,065	641,530	5,589,854	22,446	34,756	594,465	7,370,353
1985	93,038	345,777	21,977	50,548	687,892	6,015,208	24,908	35,896	630,018	7,905,262
1986	112,401	436,330	26,552	63,724	870,889	7,698,166	32,747	45,138	796,545	10,082,492
1987	112,401	454,916	26,552	66,379	921,337	8,137,151	35,402	46,023	831,062	10,631,223
1988	112,401	473,502	26,552	69,034	963,820	8,546,929	35,402	47,793	865,579	11,141,012
1989	112,401	492,088	26,552	72,574	1,001,877	8,842,536	35,402	49,563	900,096	11,533,089
1990	112,401	510,674	26,552	75,229	1,053,210	9,154,959	35,402	50,448	973,555	11,992,430
1991	112,401	510,674	26,552	75,229	1,053,210	9,154,959	35,402	50,448	973,555	11,992,430
1992	112,401	510,674	26,552	75,229	1,053,210	9,154,959	35,402	50,448	973,555	11,992,430
1993	112,401	510,674	26,552	75,229	1,053,210	9,154,959	35,402	50,448	973,555	11,992,430
1994	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
1995	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
1996	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
1997	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
1998	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
1999	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2000	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2001	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2002	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2003	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2004	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2005	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2006	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2007	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2008	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2009	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2010	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2011	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2012	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2013	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2014	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2015	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2016	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2017	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2018	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2019	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2020	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2021	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2022	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2023	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2024	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2025	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2026	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2027	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2028	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2029	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2030	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2031	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2032	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2033	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2034	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056
2035	125,004	567,932	29,529	83,664	1,171,299	10,181,440	39,371	56,104	1,082,713	13,337,056

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-15 (Continu d)

TOTAL CONSERVATION CHARGES OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0
1972	117,283	30,494	3,401	46,913	997	49,259	9,500	269,751	62,160	0
1973	146,604	34,012	5,102	52,777	1,701	62,746	17,241	281,479	67,438	0
1974	175,925	37,531	6,802	58,642	2,346	76,820	24,981	293,208	72,129	0
1975	205,245	41,049	8,503	64,506	3,049	90,308	32,722	307,868	76,820	0
1976	318,593	55,030	12,599	86,889	4,634	128,885	49,961	398,241	101,370	0
1977	362,037	60,974	14,699	94,130	5,286	146,263	59,519	416,343	107,163	0
1978	412,722	66,919	16,799	101,370	6,661	162,917	67,629	434,445	113,680	0
1979	456,167	72,864	18,898	108,611	7,530	180,295	74,290	452,546	120,196	0
1980	501,059	78,808	20,998	123,093	8,327	196,948	80,952	474,269	125,989	49,237
1981	543,056	87,649	23,098	137,574	9,196	214,326	84,717	495,991	132,506	56,478
1982	588,672	96,490	25,198	152,056	9,992	230,980	89,206	517,713	138,298	63,719
1983	635,013	105,331	27,298	166,537	10,861	248,357	93,695	539,435	144,091	70,959
1984	680,630	114,172	29,397	181,019	11,658	265,735	98,184	564,778	149,883	78,200
1985	735,510	124,458	31,867	197,796	12,674	285,706	103,880	597,052	159,702	86,444
1986	944,349	161,168	41,066	256,665	16,285	366,411	130,987	752,293	205,332	114,171
1987	1,000,107	171,974	43,633	278,791	17,347	386,767	136,475	787,695	217,722	123,907
1988	1,056,750	182,781	46,200	300,917	18,321	407,123	141,962	823,097	230,113	133,643
1989	1,114,278	193,587	48,766	323,043	19,383	429,249	147,449	858,499	242,504	143,378
1990	1,169,151	204,447	51,333	337,204	20,356	449,605	153,114	898,326	254,894	153,114
1991	1,224,909	204,447	51,333	337,204	20,356	449,605	153,114	908,061	254,894	153,114
1992	1,224,909	204,447	51,333	337,204	20,356	449,605	153,114	908,061	254,894	153,114
1993	1,224,909	204,447	51,333	337,204	20,356	449,605	153,114	908,061	254,894	153,114
1994	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
1995	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
1996	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
1997	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
1998	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
1999	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2000	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2001	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2002	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2003	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2004	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2005	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2006	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2007	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2008	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2009	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2010	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2011	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2012	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2013	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2014	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2015	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2016	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2017	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2018	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2019	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2020	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2021	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2022	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2023	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2024	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2025	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2026	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2027	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2028	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2029	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2030	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2031	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2032	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2033	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2034	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281
2035	1,362,250	227,370	57,089	375,012	22,639	500,017	170,281	1,009,876	283,474	170,281

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-15 (Continued)

TOTAL CONSERVATION CHARGES OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR, South Bay	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	Butte County	Plumas County FC & WCD	Total		
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	40,384
1968	0	0	0	0	0	1,050	875	1,925	0	727,907
1969	0	0	0	0	0	1,225	945	2,170	0	925,820
1970	0	0	0	0	0	2,346	1,759	4,105	0	1,888,842
1971	410,491	58,642	0	469,133	0	2,639	2,580	5,219	0	2,671,650
1972	1,490,668	117,283	0	2,197,709	0	2,932	2,756	5,688	0	4,920,257
1973	2,079,429	124,320	0	2,872,849	0	3,518	2,932	6,450	0	5,877,052
1974	2,667,603	131,943	0	3,547,930	0	4,105	3,108	7,213	0	6,822,647
1975	3,255,778	139,567	0	4,225,415	0	6,157	3,284	9,441	0	7,785,013
1976	4,747,031	181,019	0	6,084,252	0	10,137	4,272	14,409	0	10,892,758
1977	5,473,278	188,259	0	6,927,951	0	13,033	4,489	17,522	0	12,178,358
1978	6,200,249	197,672	0	7,781,063	0	15,930	4,706	20,636	0	13,466,132
1979	6,926,495	206,361	0	8,624,253	0	18,826	4,924	23,750	0	14,733,123
1980	7,653,466	215,050	7,241	9,535,437	0	28,963	5,141	34,104	0	16,240,074
1981	8,379,712	223,739	14,481	10,402,523	30,411	39,462	5,358	75,231	0	17,650,071
1982	9,105,959	232,428	21,722	11,272,433	33,307	49,961	5,575	88,843	0	19,032,116
1983	9,832,930	241,117	28,963	12,144,587	36,566	60,460	5,793	102,819	0	20,457,321
1984	10,559,176	249,806	36,204	13,018,842	39,824	70,959	6,010	116,793	0	21,867,971
1985	11,418,713	262,263	43,955	14,060,020	43,588	89,741	6,300	139,629	0	23,594,610
1986	14,685,637	326,584	70,804	18,071,752	58,413	130,102	7,877	196,392	0	30,277,390
1987	15,575,113	337,204	88,505	19,165,240	64,609	151,786	8,142	224,537	0	32,081,839
1988	16,465,473	347,825	115,057	20,269,262	70,804	182,320	8,496	261,620	0	33,913,726
1989	17,355,833	358,445	141,608	21,376,022	77,884	212,855	8,851	299,590	0	35,696,134
1990	17,802,784	367,296	177,010	22,038,634	84,965	243,389	9,205	337,559	0	37,117,590
1991	17,802,784	367,296	177,010	22,104,127	84,965	243,389	9,559	337,913	0	37,232,114
1992	17,802,784	367,296	177,010	22,104,127	84,965	243,389	9,913	338,267	0	37,281,146
1993	17,802,784	367,296	177,010	22,104,127	84,965	243,389	10,267	338,621	0	37,330,178
1994	19,798,885	408,478	196,857	24,582,509	94,491	270,678	11,811	376,980	0	41,561,418
1995	19,798,885	408,478	196,857	24,582,509	94,491	270,678	12,304	377,473	0	41,581,597
1996	19,798,885	408,478	196,857	24,582,509	94,491	270,678	12,796	377,965	0	41,601,774
1997	19,798,885	408,478	196,857	24,582,509	94,491	270,678	13,288	378,457	0	41,621,952
1998	19,798,885	408,478	196,857	24,582,509	94,491	270,678	13,780	378,949	0	41,622,444
1999	19,798,885	408,478	196,857	24,582,509	94,491	270,678	14,272	379,441	0	41,622,936
2000	19,798,885	408,478	196,857	24,582,509	94,491	270,678	14,863	380,032	0	41,623,527
2001	19,798,885	408,478	196,857	24,582,509	94,491	270,678	15,453	380,622	0	41,624,117
2002	19,798,885	408,478	196,857	24,582,509	94,491	270,678	16,044	381,213	0	41,624,708
2003	19,798,885	408,478	196,857	24,582,509	94,491	270,678	16,634	381,803	0	41,625,298
2004	19,798,885	408,478	196,857	24,582,509	94,491	270,678	17,225	382,394	0	41,625,889
2005	19,798,885	408,478	196,857	24,582,509	94,491	270,678	17,816	382,985	0	41,626,480
2006	19,798,885	408,478	196,857	24,582,509	94,491	270,678	18,505	383,674	0	41,627,169
2007	19,798,885	408,478	196,857	24,582,509	94,491	270,678	19,194	384,363	0	41,627,858
2008	19,798,885	408,478	196,857	24,582,509	94,491	270,678	19,883	385,052	0	41,628,547
2009	19,798,885	408,478	196,857	24,582,509	94,491	270,678	20,572	385,741	0	41,629,236
2010	19,798,885	408,478	196,857	24,582,509	94,491	270,678	21,261	386,430	0	41,629,925
2011	19,798,885	408,478	196,857	24,582,509	94,491	270,678	22,048	387,217	0	41,630,712
2012	19,798,885	408,478	196,857	24,582,509	94,491	270,678	22,835	388,004	0	41,631,499
2013	19,798,885	408,478	196,857	24,582,509	94,491	270,678	23,721	388,890	0	41,632,385
2014	19,798,885	408,478	196,857	24,582,509	94,491	270,678	24,607	389,776	0	41,633,271
2015	19,798,885	408,478	196,857	24,582,509	94,491	270,678	25,591	390,760	0	41,634,255
2016	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2017	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2018	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2019	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2020	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2021	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2022	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2023	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2024	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2025	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2026	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2027	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2028	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2029	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2030	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2031	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2032	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2033	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2034	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240
2035	19,798,885	408,478	196,857	24,582,509	94,491	270,678	26,576	391,745	0	41,635,240

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-16

AMORTIZATION OF COSTS ALLOCATED TO CONSERVATION

(in dollars unless otherwise noted)

Calendar Year	Estimated Future Project Entitlements (in acre-feet)	Applicable Delta Water Rate (in $/acre-foot)	Delta Water Charge (Col. 2 x Col. 1)	Total Expenditures Incurred During the Year	Net Yearly Expenditure (Col. 4 - Col. 3)	Interest on Prior Year's Balance	Total Expenditures With Interest, Unreimbursed
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1952				154,000	154,000		154,000
1953				292,000	292,000	5,934	451,934
1954				294,000	294,000	17,413	763,347
1955				181,000	181,000	29,412	973,759
1956				1,134,000	1,134,000	37,519	2,145,278
1957				5,093,000	5,093,000	82,658	7,320,936
1958				7,848,000	7,848,000	282,076	15,451,012
1959				9,630,000	9,630,000	595,327	25,676,339
1960				7,838,000	7,838,000	989,309	34,503,648
1961				15,780,000	15,780,000	1,329,426	51,613,074
1962				19,710,000	19,710,000	1,988,652	73,311,726
1963				64,271,000	64,271,000	2,824,701	140,407,427
1964				67,266,000	67,266,000	5,409,898	213,083,325
1965				73,248,000	73,248,000	8,210,101	294,541,426
1966				128,260,000	128,260,000	11,348,681	434,150,107
1967			241,150 1/	94,133,000	93,891,850	16,727,804	544,769,761
1968			582,280 1/	42,894,000	42,311,720	20,989,979	608,071,460
1969	264,520	3.50000000	925,820	4,734,000	3,808,180	23,428,993	635,308,633
1970	322,100	5.86415274	1,888,844	5,486,000-	7,374,844-	24,478,442	652,412,231
1971	455,590	5.86415274	2,671,649	4,758,000-	7,429,649-	25,137,443	670,120,025
1972	839,040	5.86415274	4,920,259	2,944,000-	7,864,259-	25,819,725	688,075,491
1973	1,002,200	5.86415274	5,877,054	7,600,000	1,722,946	26,511,549	716,309,986
1974	1,163,450	5.86415274	6,822,649	8,742,000	1,919,351	27,599,424	745,828,761
1975	1,327,560	5.86415274	7,785,015	7,724,000	61,015-	28,736,782	774,504,528
1976	1,504,370	7.24074343	10,892,757	1,670,000	9,222,757-	29,841,659	795,123,430
1977	1,681,921	7.24074343	12,178,358	2,138,000	10,040,358-	30,636,106	815,719,178
1978	1,859,772	7.24074343	13,466,132	1,756,000	11,710,132-	31,429,660	835,438,706
1979	2,034,753	7.24074343	14,733,124	1,530,000	13,203,124-	32,189,453	854,425,035
1980	2,242,874	7.24074343	16,240,075	1,933,000	14,307,075-	32,920,997	873,038,957
1981	2,437,605	7.24074343	17,650,072	2,037,000	15,613,072-	33,638,191	891,064,076
1982	2,628,476	7.24074343	19,032,120	2,073,000	16,959,120-	34,339,699	908,437,655
1983	2,825,307	7.24074343	20,457,323	2,709,000	17,748,323-	35,002,103	925,691,435
1984	3,020,128	7.24074343	21,867,972	4,598,000-	26,465,972-	35,666,891	934,892,354
1985	3,220,759	7.32579268	23,594,613	4,262,000-	27,856,613-	36,021,402	943,057,143
1986	3,420,980	8.85050150	30,277,389	4,288,000-	34,565,389-	36,335,992	944,827,746
1987	3,624,861	8.85050150	32,081,838	4,966,000-	37,047,838-	36,404,213	944,184,121
1988	3,831,842	8.85050150	33,913,723	7,872,000-	41,785,723-	36,379,414	938,777,812
1989	4,033,033	8.85050150	35,694,365	11,421,000-	47,115,365-	36,171,109	927,833,556
1990	4,193,240	8.85050150	37,117,587	5,438,000-	42,555,587-	35,749,427	921,027,396
1991	4,206,780	8.85050150	37,232,113	6,224,000-	43,456,113-	35,487,186	913,058,469
1992	4,212,320	8.85050150	37,281,144	5,413,000-	42,694,144-	35,180,143	905,544,468
1993	4,217,860	8.85050150	37,330,176	5,413,000-	42,743,176-	34,890,628	897,691,920
1994	4,222,500	9.84284597	41,561,417	1,733,000-	43,294,417-	34,588,070	888,985,573
1995	4,224,550	9.84284597	41,581,595	4,318,000-	45,899,595-	34,252,614	877,338,592
1996	4,226,600	9.84284597	41,601,773	1,733,000-	43,334,773-	33,803,856	867,807,675
1997	4,228,650	9.84284597	41,621,951	1,733,000-	43,354,951-	33,436,630	857,889,354
1998	4,228,700	9.84284597	41,622,443	1,733,000-	43,355,443-	33,054,477	847,588,388
1999	4,228,750	9.84284597	41,622,935	1,733,000-	43,355,935-	32,657,581	836,890,034
2000	4,228,810	9.84284597	41,623,525	1,733,000-	43,356,525-	32,245,373	825,778,882
2001	4,228,870	9.84284597	41,624,116	1,733,000-	43,357,116-	31,817,260	814,239,026
2002	4,228,930	9.84284597	41,624,707	1,733,000-	43,357,707-	31,372,630	802,253,949
2003	4,228,990	9.84284597	41,625,297	1,733,000-	43,358,297-	30,910,845	789,806,497
2004	4,229,050	9.84284597	41,625,888	1,733,000-	43,358,888-	30,431,244	776,878,853
2005	4,229,110	9.84284597	41,626,478	1,733,000-	43,359,478-	29,933,142	763,452,517
2006	4,229,180	9.84284597	41,627,167	1,733,000-	43,360,167-	29,415,825	749,508,175
2007	4,229,250	9.84284597	41,627,856	1,733,000-	43,360,856-	28,878,550	735,025,869
2008	4,229,320	9.84284597	41,628,545	1,733,000-	43,361,545-	28,320,547	719,984,871
2009	4,229,390	9.84284597	41,629,234	1,733,000-	43,362,234-	27,741,017	704,363,654
2010	4,229,460	9.84284597	41,629,923	1,733,000-	43,362,923-	27,139,132	688,139,863
2011	4,229,540	9.84284597	41,630,711	1,733,000-	43,363,711-	26,514,029	671,290,181
2012	4,229,620	9.84284597	41,631,498	1,733,000-	43,364,498-	25,864,811	653,790,494
2013	4,229,710	9.84284597	41,632,384	1,733,000-	43,365,384-	25,190,548	635,615,658
2014	4,229,800	9.84284597	41,633,270	1,733,000-	43,366,270-	24,490,271	616,739,659
2015	4,229,900	9.84284597	41,634,254	1,733,000-	43,367,254-	23,762,979	597,135,384
2016	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	23,007,626	576,774,772
2017	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	22,223,132	555,629,666
2018	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	21,408,411	533,669,839
2019	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	20,562,299	510,863,900
2020	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	19,683,586	487,179,248
2021	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	18,771,016	462,582,026
2022	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	17,823,285	437,037,073
2023	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	16,839,038	410,507,873
2024	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	15,816,868	382,956,503
2025	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	14,755,314	354,343,579
2026	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	13,652,858	324,628,199
2027	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	12,507,925	293,767,886
2028	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	11,318,877	261,718,525
2029	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	10,084,015	228,434,302
2030	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	8,801,574	193,867,638
2031	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	7,469,720	157,969,120
2032	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	6,086,550	120,687,432
2033	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	4,650,087	81,969,281
2034	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	3,158,276	41,759,319
2035	4,230,000	9.84284597	41,635,238	1,733,000-	43,368,238-	1,608,919	0
TOTALS	238,200,621		2,231,127,328	434,218,000	1,796,909,328-	1,796,909,328	

1/ Charges collected or due from water users.

TABLE B-17

ALLOCATED TRANSPORTATION CAPITAL COSTS OF EACH CONTRACTOR

(in dollars)

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1952	0	0	0	90	106	430	626	127	298	425
1953	0	0	0	344	423	1,868	2,635	352	822	1,174
1954	0	0	0	854	1,118	5,255	7,227	443	1,034	1,477
1955	0	0	0	1,003	1,344	6,389	8,736	224	521	745
1956	0	0	0	8,967	12,194	64,434	85,595	233	544	777
1957	16,594	10,040	26,634	21,892	29,627	651,107	702,626	299	700	999
1958	35,425	14,483	49,908	67,536	67,699	731,131	866,366	893	2,093	2,986
1959	24,036	6,429	30,465	151,220	140,394	473,101	764,715	12,435	31,960	44,395
1960	16,526	10,425	26,951	295,453	273,932	956,779	1,526,164	30,882	80,887	111,769
1961	8,142	7,727	15,869	869,343	812,501	1,944,982	3,626,826	18,014	45,335	63,349
1962	3,169	2,520	5,689	522,197	553,084	1,696,639	2,771,920	20,879	50,313	71,192
1963	8,573	6,897	15,470	622,030	1,056,004	3,280,805	4,958,839	76,852	182,816	259,668
1964	60,697	16,957	77,654	688,464	1,221,987	7,278,537	9,188,988	153,162	362,606	515,768
1965	200,784	21,487	222,271	336,370	437,793	3,290,628	4,064,791	261,107	615,220	876,327
1966	473,356	48,901	522,257	545,642	521,113	2,142,698	3,209,453	626,004	1,467,771	2,093,775
1967	1,588,415	51,083	1,639,498	750,621	733,266	2,232,407	3,716,294	957,706	2,243,584	3,201,290
1968	1,020,649	173,351	1,194,000	701,510	646,449	1,792,955	3,140,914	378,462	893,242	1,271,704
1969	172,490	97,510	270,000	283,666	266,880	793,965	1,344,511	89,463	217,221	306,684
1970	76,866	42,134	119,000	76,634	70,917	235,763	383,314	63,748	154,851	218,599
1971	65,672	40,328	106,000	23,619	23,297	103,368	150,284	75,976	182,053	258,029
1972	27,468	41,532	69,000	27,568	28,228	128,988	184,784	116,155	275,867	392,022
1973	28,662	43,338	72,000	14,309	18,535	100,789	133,633	23,617	59,828	83,445
1974	48,567	73,433	122,000	3,445	4,584	26,298	34,327	22,848	57,522	80,370
1975	87,977	133,023	221,000	0	0	0	0	364,678	1,004,504	1,369,182
1976	196,955	266,045	463,000	0	0	0	0	501,577	1,367,249	1,868,826
1977	260,930	337,070	598,000	0	0	0	0	919,335	2,487,928	3,407,263
1978	875,394	883,606	1,759,000	96	87	208	391	4,785,953	12,989,733	17,775,686
1979	2,770,520	2,607,480	5,378,000	553	507	1,206	2,266	4,996,670	13,978,077	18,974,747
1980	56,430	53,570	110,000	4,087	3,738	8,899	16,724	361,704	939,061	1,300,765
1981	11,544	17,456	29,000	16,054	14,679	34,953	65,686	20,875	48,732	69,607
1982	6,768	10,232	17,000	15,501	14,172	33,747	63,420	8,623	20,131	28,754
1983	46,284	36,716	83,000	545	497	1,185	2,227	2,508	5,857	8,365
1984	0	0	0	76	70	166	312	36,230	86,925	123,155
1985	0	0	0	0	0	0	0	23,802	57,914	81,716
1986	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0
TOTAL	8,188,893	5,053,773	13,242,666	6,049,689	6,955,225	28,019,680	41,024,594	14,951,836	39,913,199	54,865,035

TABLE B-17 (Continued)

ALLOCATED TRANSPORTATION CAPITAL COSTS OF EACH CONTRACTOR

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY									
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency		Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agriculture				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1952	93	410	20	59	987	9,716	21	15	770	12,091
1953	252	1,131	57	167	3,026	29,026	57	39	2,105	35,860
1954	316	1,423	72	211	3,545	34,428	72	50	2,663	42,780
1955	158	717	36	106	1,582	15,754	37	27	1,350	19,767
1956	167	747	34	109	2,845	25,404	37	30	1,359	30,732
1957	210	964	39	141	6,312	52,177	41	35	1,630	61,549
1958	635	2,883	134	424	14,870	127,667	135	78	5,139	151,965
1959	3,130	9,649	483	1,420	29,719	287,640	494	462	18,003	351,000
1960	5,412	11,697	565	1,724	32,747	341,805	577	571	21,393	416,491
1961	6,098	22,544	1,098	3,319	56,134	571,718	1,125	771	41,477	704,284
1962	10,132	41,892	2,018	6,169	86,067	911,353	2,062	1,724	76,588	1,138,005
1963	46,379	201,357	10,288	29,660	353,304	3,869,978	10,522	7,497	380,160	4,909,145
1964	96,889	335,876	17,337	49,479	613,243	6,866,478	17,735	14,124	637,770	8,648,931
1965	170,919	537,357	27,402	79,160	1,096,258	12,123,662	28,036	25,727	1,013,493	15,102,014
1966	426,153	1,185,778	56,322	174,681	2,344,583	26,526,576	57,617	46,281	2,152,132	32,970,123
1967	654,608	892,214	41,275	131,436	2,093,169	24,639,886	42,233	41,296	1,596,900	30,133,017
1968	246,801	304,996	15,026	44,931	1,558,287	15,879,448	15,368	18,849	564,505	18,648,211
1969	45,985	82,026	4,059	12,083	681,934	6,587,262	4,153	5,646	152,225	7,575,373
1970	30,928	44,263	2,172	6,520	290,646	2,815,611	2,223	2,334	81,751	3,276,448
1971	40,460	42,723	2,186	6,292	170,970	1,757,606	2,235	3,793	80,735	2,107,000
1972	67,929	36,739	1,892	5,412	79,547	1,196,804	1,936	3,537	69,679	1,463,475
1973	2,827	1,798	94	265	7,842	77,358	96	151	3,425	93,856
1974	2,387	137	7	20	4,939	36,533	7	14	260	44,304
1975	35,719	0	0	0	7,965	279,099	0	0	0	322,783
1976	6,260	0	0	0	7,907	48,914	0	0	0	63,081
1977	1,105	0	0	0	83	8,632	0	0	0	9,820
1978	774	171	9	25	277	8,819	9	17	325	10,426
1979	1,840	990	51	146	1,591	30,432	53	97	1,888	37,088
1980	37,336	7,312	380	1,077	11,739	410,244	388	716	13,929	483,121
1981	12,613	28,718	1,491	4,230	46,106	563,995	1,525	2,811	54,709	716,198
1982	6,133	27,727	1,440	4,085	44,515	497,309	1,472	2,714	52,821	638,216
1983	1,787	8,073	418	1,189	12,955	144,809	428	96	15,383	185,138
1984	22,238	99,857	5,185	14,710	160,211	1,792,178	5,299	14	190,236	2,289,928
1985	13,387	59,858	3,109	8,818	96,035	1,074,744	3,176	0	114,033	1,373,160
1986	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0
TOTAL	1,998,060	3,992,027	194,699	588,068	9,921,940	109,643,065	199,169	179,516	7,348,836	134,065,380

TABLE B-17 (Continued)

ALLOCATED TRANSPORTATION CAPITAL COSTS OF EACH CONTRACTOR

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1952	3,171	858	245	1,416	71	1,714	420	6,038	1,535	802
1953	10,149	2,701	784	4,456	226	5,409	1,347	18,990	4,811	2,536
1954	12,693	3,477	1,017	5,744	288	6,946	1,687	24,656	6,281	3,300
1955	5,248	1,352	398	2,235	115	2,716	690	9,223	2,366	1,268
1956	9,542	2,163	609	3,573	190	4,381	1,236	13,127	3,428	1,904
1957	26,517	6,428	1,840	10,597	548	12,929	3,479	41,495	10,739	5,844
1958	50,760	11,902	3,371	19,637	1,022	24,021	6,629	74,569	19,377	10,652
1959	73,156	16,626	4,876	27,427	1,421	33,210	9,530	103,765	26,765	15,088
1960	78,614	21,047	6,399	34,711	1,694	41,502	10,500	143,408	36,297	20,027
1961	141,210	45,029	13,516	74,275	3,335	88,886	19,186	305,111	76,920	42,344
1962	164,562	40,319	11,299	66,502	3,096	81,312	21,243	227,982	59,465	34,135
1963	523,535	115,751	32,438	190,940	9,763	233,726	67,250	619,310	162,732	95,896
1964	1,075,641	218,705	58,636	360,741	19,023	446,977	137,072	1,102,343	294,865	174,581
1965	1,902,144	384,356	103,926	633,973	32,647	783,701	242,460	1,929,730	515,768	312,249
1966	4,175,031	855,647	227,108	1,411,342	72,507	1,753,273	538,678	4,148,041	1,117,324	679,133
1967	5,098,373	1,106,002	303,822	1,824,318	90,879	2,240,847	672,134	5,919,728	1,575,181	958,815
1968	9,052,765	1,963,424	526,203	3,238,577	158,939	3,998,575	1,174,202	10,519,069	2,820,131	1,717,607
1969	7,025,787	2,477,420	750,437	4,086,562	141,713	4,863,090	992,269	15,939,625	4,011,404	2,278,375
1970	3,498,898	1,500,601	499,348	2,475,350	76,188	2,861,446	533,125	10,560,995	2,549,654	1,497,746
1971	1,630,505	497,906	183,944	821,369	29,299	909,668	215,064	3,657,051	885,792	545,632
1972	512,245	189,389	60,939	312,410	9,744	364,093	69,852	1,081,821	273,085	170,461
1973	98,870	29,391	7,899	48,473	1,200	59,785	8,290	140,639	37,699	23,182
1974	293,168	21,937	5,754	36,184	1,555	44,871	10,964	101,978	27,548	16,977
1975	1,644,261	50,706	12,928	83,636	3,678	104,503	26,785	243,911	66,568	38,468
1976	1,570,382	52,428	13,254	86,476	3,940	108,296	29,563	352,254	95,828	39,536
1977	6,741,936	54,185	13,697	89,373	1,790	111,986	13,430	1,025,645	275,973	40,862
1978	6,811,680	37,845	9,566	62,420	2,955	78,239	22,190	1,348,661	361,847	28,539
1979	238,755	43,064	11,169	71,036	3,807	88,470	28,464	989,029	265,393	33,081
1980	125,329	22,495	5,996	37,106	1,909	45,910	14,218	110,882	29,866	17,633
1981	51,016	9,172	2,318	15,128	854	19,113	6,407	46,855	12,629	7,246
1982	47,721	8,578	2,168	14,147	799	17,879	5,993	44,043	11,858	6,797
1983	13,882	2,496	631	4,117	234	5,200	1,743	11,163	3,073	1,882
1984	171,697	30,868	7,805	50,910	2,873	64,328	21,563	138,059	37,997	23,277
1985	102,920	18,501	4,678	30,519	1,723	38,559	12,926	82,756	22,777	13,954
1986	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0
TOTAL	52,982,163	9,842,769	2,889,018	16,235,680	680,025	19,545,561	4,920,589	61,081,952	15,702,976	8,859,829

TABLE B-17 (Continued)

ALLOCATED TRANSPORTATION CAPITAL COSTS OF EACH CONTRACTOR

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR,	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	Butte County	Plumas County FC & WCD	Total	South Bay	
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1952	69,062	783	374	86,489	0	0	0	0	76	99,707
1953	218,851	2,536	1,196	273,992	0	0	0	0	340	314,001
1954	280,154	3,138	1,482	350,863	0	0	0	0	977	403,324
1955	109,987	1,360	645	137,603	0	0	0	0	1,206	168,057
1956	176,928	2,646	1,262	220,989	0	0	0	0	11,448	349,541
1957	523,377	7,131	3,385	654,309	0	0	0	0	29,007	1,475,124
1958	971,172	13,864	6,595	1,213,571	0	0	0	0	36,422	2,321,218
1959	1,405,106	21,470	10,147	1,748,587	0	0	0	0	58,837	2,997,999
1960	1,820,583	25,161	11,746	2,251,689	0	0	0	0	126,172	4,459,236
1961	3,509,838	42,840	20,060	4,382,550	0	0	0	0	329,393	9,122,271
1962	3,586,100	62,199	28,773	4,386,987	0	0	0	0	249,914	8,623,707
1963	10,589,687	177,015	83,918	12,901,961	0	0	0	0	649,271	23,694,354
1964	18,733,032	359,509	169,172	23,150,297	0	0	7,693	7,693	973,687	42,563,018
1965	34,657,565	685,622	317,756	42,501,897	0	0	3,017	3,017	421,252	63,191,569
1966	78,154,552	1,569,489	720,441	95,422,566	0	0	0	0	837,913	135,056,087
1967	134,405,845	2,897,264	1,318,431	158,411,639	0	0	0	0	1,628,000	198,729,738
1968	215,887,193	4,525,433	2,056,677	257,638,795	0	0	40,000	40,000	1,582,376	283,516,000
1969	210,567,101	3,414,364	1,527,780	258,075,927	0	0	52,000	52,000	336,505	267,961,000
1970	141,241,272	1,919,051	829,041	170,042,715	0	0	98,000	98,000	69,924	174,208,000
1971	37,163,744	381,948	152,427	47,074,349	0	0	0	0	13,338	49,709,000
1972	6,032,298	11,785	-21,926	9,066,196	0	0	0	0	13,523	11,189,000
1973	-8,781,875	-274,213	-138,872	-8,739,532	0	0	0	0	11,598	-8,345,000
1974	3,510,748	81,922	32,380	4,185,986	0	0	0	0	3,013	4,470,000
1975	4,575,907	84,932	39,752	6,976,035	0	0	0	0	0	8,889,000
1976	5,974,815	94,687	45,634	8,467,093	0	0	10,000	10,000	0	10,872,000
1977	30,727,313	395,386	190,341	39,681,917	0	0	20,000	20,000	0	43,717,000
1978	44,430,953	646,978	311,590	54,553,463	0	0	202,000	202,000	34	74,301,000
1979	23,578,671	182,033	87,727	25,620,699	0	0	240,000	240,000	200	50,253,000
1980	1,999,683	3,974	1,916	2,416,917	0	0	0	0	1,473	4,329,000
1981	980,807	14,967	7,213	1,173,725	0	0	0	0	5,784	2,060,000
1982	845,627	14,451	6,965	1,027,026	0	0	0	0	5,584	1,780,000
1983	207,422	4,205	2,026	258,074	0	0	0	0	196	537,000
1984	2,565,149	51,993	25,058	3,191,577	0	0	0	0	28	5,605,000
1985	1,537,624	31,167	15,020	1,913,124	0	0	0	0	0	3,368,000
1986	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0
TOTAL	1,012,656,291	17,457,090	7,866,132	1,230,720,075	0	0	672,710	672,710	7,397,491	1,481,987,951

TABLE B-18

TRANSPORTATION CAPITAL COST COMPONENTS OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD, Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	91,367	89,166	317,191	497,724	0	0	0
1964	0	0	0	100,776	136,639	464,679	702,094	7,131	17,628	24,759
1965	0	0	0	127,052	191,574	791,887	1,110,513	12,565	30,542	43,107
1966	18,198	0	18,198	139,889	211,255	939,818	1,290,962	20,960	50,395	71,355
1967	39,478	0	39,478	160,714	234,682	1,036,143	1,431,539	38,578	91,810	130,388
1968	110,886	0	110,886	189,361	267,646	1,136,501	1,593,508	52,262	124,106	176,368
1969	156,769	0	156,769	216,135	296,708	1,217,104	1,729,947	57,757	137,370	195,127
1970	164,523	23,245	187,768	226,960	308,705	1,252,796	1,788,461	59,991	142,961	202,952
1971	167,978	25,139	193,117	229,885	311,894	1,263,395	1,805,174	61,499	146,753	208,252
1972	170,930	26,952	197,882	286,095	312,941	1,268,042	1,867,078	62,924	150,288	213,212
1973	172,165	28,819	200,984	287,334	314,210	1,273,841	1,875,385	64,304	153,722	218,026
1974	173,454	30,767	204,221	287,977	315,043	1,278,371	1,881,391	65,210	156,047	221,257
1975	175,637	34,069	209,706	288,132	315,249	1,279,554	1,882,935	66,085	158,280	224,365
1976	179,592	40,049	219,641	288,132	315,249	1,279,554	1,882,935	170,760	409,534	580,294
1977	188,447	52,009	240,456	288,132	315,249	1,279,554	1,882,935	193,309	470,999	664,308
1978	200,177	67,162	267,339	288,132	315,249	1,279,554	1,882,935	234,637	582,844	817,481
1979	239,531	106,885	346,416	288,136	315,253	1,279,563	1,882,952	449,790	1,166,800	1,616,590
1980	364,080	224,105	588,185	288,161	315,276	1,279,618	1,883,055	674,416	1,795,187	2,469,603
1981	366,617	226,513	593,130	288,344	315,444	1,280,018	1,883,806	690,677	1,837,402	2,528,079
1982	367,136	227,297	594,433	289,066	316,104	1,281,589	1,886,759	691,615	1,839,594	2,531,209
1983	367,440	227,757	595,197	289,762	316,741	1,283,106	1,889,609	692,002	1,840,499	2,532,501
1984	369,521	229,407	598,928	289,787	316,764	1,283,160	1,889,711	692,115	1,840,762	2,532,877
1985	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	693,744	1,844,670	2,538,414
1986	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1987	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1988	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1989	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1990	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1991	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1992	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1993	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1994	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1995	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1996	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1997	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1998	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
1999	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2000	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2001	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2002	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2003	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2004	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2005	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2006	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2007	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2008	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2009	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2010	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2011	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2012	369,521	229,407	598,928	289,790	316,767	1,283,168	1,889,725	694,813	1,847,273	2,542,086
2013	369,521	229,407	598,928	191,998	227,600	965,977	1,385,575	694,813	1,847,273	2,542,086
2014	369,521	229,407	598,928	162,160	180,127	818,488	1,160,775	687,682	1,829,645	2,517,327
2015	369,521	229,407	598,928	129,447	125,192	491,280	745,919	682,248	1,816,732	2,498,980
2016	351,323	229,407	580,730	113,608	105,511	343,350	562,469	673,853	1,796,878	2,470,731
2017	330,043	229,407	559,450	88,136	82,085	247,025	417,246	656,236	1,755,463	2,411,699
2018	258,635	229,407	488,042	53,383	49,120	146,667	249,170	642,551	1,723,167	2,365,718
2019	212,752	229,407	442,159	21,158	20,059	66,064	107,281	637,057	1,709,903	2,346,960
2020	204,998	206,162	411,160	8,226	8,061	30,371	46,658	634,823	1,704,312	2,339,135
2021	201,543	204,268	405,811	4,757	4,873	19,772	29,402	633,314	1,700,521	2,333,835
2022	198,591	202,455	401,046	3,695	3,825	15,126	22,646	631,890	1,696,985	2,328,875
2023	197,356	200,588	397,944	2,456	2,557	9,327	14,340	630,509	1,693,551	2,324,060
2024	196,067	198,640	394,707	1,813	1,724	4,796	8,333	629,604	1,691,226	2,320,830
2025	193,884	195,338	389,222	1,658	1,518	3,614	6,790	628,728	1,688,994	2,317,722
2026	189,929	189,358	379,287	1,658	1,518	3,614	6,790	524,054	1,437,739	1,961,793
2027	181,074	177,398	358,472	1,658	1,518	3,614	6,790	501,505	1,376,274	1,877,779
2028	169,344	162,245	331,589	1,658	1,518	3,614	6,790	460,176	1,264,429	1,724,605
2029	129,991	122,522	252,513	1,654	1,514	3,605	6,773	245,023	680,473	925,496
2030	5,441	5,302	10,743	1,629	1,491	3,550	6,670	20,397	52,086	72,483
2031	2,904	2,894	5,798	1,446	1,322	3,150	5,918	4,137	9,871	14,008
2032	2,385	2,110	4,495	724	663	1,579	2,966	3,198	7,680	10,878
2033	2,081	1,650	3,731	28	26	61	115	2,811	6,774	9,585
2034	0	0	0	3	3	8	14	2,698	6,511	9,209
2035	0	0	0	0	0	0	0	1,070	2,603	3,673

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-18 (Continued)

TRANSPORTATION CAPITAL COST COMPONENTS OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY									
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency		Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agriculture				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	56,379	0	0	0	0	56,379
1966	0	0	0	0	105,662	0	0	0	0	105,662
1967	0	0	0	0	211,063	0	0	0	0	211,063
1968	27,201	46,781	8,129	5,416	305,162	314,527	7,658	3,865	107,164	825,903
1969	34,553	55,323	8,129	6,666	375,215	645,928	8,348	4,201	116,724	1,255,087
1970	41,905	63,866	8,129	8,332	405,871	785,643	8,535	4,369	126,684	1,453,334
1971	49,257	72,814	8,129	9,583	418,938	1,043,474	8,635	4,705	136,245	1,751,780
1972	56,609	81,357	8,129	10,833	426,623	1,562,510	8,735	4,873	146,204	2,305,873
1973	63,961	89,493	8,129	12,083	430,199	1,802,118	8,822	5,209	155,766	2,575,780
1974	71,313	98,036	8,129	13,749	430,552	2,018,102	8,826	5,378	171,303	2,825,388
1975	78,664	106,578	8,129	14,999	430,774	2,246,236	8,826	5,713	186,839	3,086,758
1976	66,016	115,121	8,129	16,249	431,131	2,542,538	8,826	5,882	202,376	3,416,268
1977	93,368	123,663	8,129	17,499	431,487	2,855,041	8,826	6,218	218,311	3,762,542
1978	93,368	132,206	8,129	19,166	431,491	3,173,618	8,826	6,553	233,848	4,107,205
1979	93,368	140,748	8,129	20,415	431,504	3,484,770	8,826	6,722	249,385	4,443,867
1980	93,368	149,291	8,129	21,665	431,575	3,802,672	8,828	7,058	264,921	4,787,507
1981	93,368	157,833	8,129	23,332	432,103	4,161,746	8,846	7,226	280,458	5,173,041
1982	93,368	166,782	8,129	24,582	434,175	4,493,146	8,914	7,562	295,994	5,532,652
1983	93,368	174,511	8,129	25,832	436,176	4,870,444	8,980	7,730	311,531	5,936,701
1984	93,368	183,461	8,129	27,082	436,759	5,210,619	8,999	8,066	327,067	6,303,550
1985	93,368	192,003	8,129	28,749	443,961	5,542,019	9,237	8,234	342,604	6,668,304
1986	93,368	200,546	8,129	29,999	448,278	5,870,721	9,380	8,570	358,539	7,027,530
1987	93,368	209,088	8,129	31,249	448,278	6,205,495	9,380	8,739	374,076	7,387,802
1988	93,368	217,630	8,129	32,498	448,278	6,517,998	9,380	9,074	389,613	7,725,968
1989	93,368	226,173	8,129	34,165	448,278	6,743,432	9,380	9,410	405,149	7,977,484
1990	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
1991	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
1992	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
1993	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
1994	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
1995	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
1996	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
1997	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
1998	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
1999	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2000	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2001	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2002	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2003	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2004	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2005	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2006	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2007	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2008	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2009	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2010	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2011	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2012	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2013	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2014	93,368	234,715	8,129	35,415	448,278	6,981,688	9,380	9,579	438,215	8,258,767
2015	93,368	234,715	8,129	35,415	391,899	6,981,688	9,380	9,579	438,215	8,202,388
2016	93,368	234,715	8,129	35,415	342,616	6,981,688	9,380	9,579	438,215	8,153,105
2017	93,368	234,715	8,129	35,415	237,215	6,981,688	9,380	9,579	438,215	8,047,704
2018	93,368	234,715	8,129	35,415	143,115	6,981,688	1,722	9,579	438,215	7,945,946
2019	93,368	234,715	8,129	35,415	73,063	6,981,688	1,031	9,579	438,215	7,875,203
2020	93,368	234,715	8,129	35,415	42,406	6,981,688	845	9,579	438,215	7,844,360
2021	93,368	234,715	8,129	35,415	29,340	6,981,688	745	9,579	438,215	7,831,194
2022	93,368	234,715	8,129	35,415	21,654	6,981,688	645	9,579	438,215	7,823,408
2023	93,368	234,715	8,129	35,415	18,079	6,981,688	558	9,579	438,215	7,819,746
2024	93,368	234,715	8,129	35,415	17,726	6,981,688	554	9,579	438,215	7,819,389
2025	93,368	234,715	8,129	35,415	17,504	6,981,688	554	9,579	438,215	7,819,167
2026	93,368	234,715	8,129	35,415	17,146	6,981,688	554	9,579	438,215	7,818,809
2027	93,368	234,715	8,129	35,415	16,791	6,981,688	554	9,579	438,215	7,818,454
2028	93,368	234,715	8,129	35,415	16,787	6,981,688	554	9,579	438,215	7,818,450
2029	93,368	234,715	8,129	35,415	16,774	6,981,688	554	9,579	438,215	7,818,437
2030	93,368	234,715	8,129	35,415	16,703	6,981,688	552	9,579	438,215	7,818,364
2031	93,368	234,715	8,129	35,415	16,175	6,981,688	534	9,579	438,215	7,817,818
2032	93,368	234,715	8,129	35,415	14,102	6,981,688	466	9,579	438,215	7,815,677
2033	93,368	234,715	8,129	35,415	12,102	6,981,688	399	9,579	438,215	7,813,610
2034	93,368	234,715	8,129	35,415	11,519	6,981,688	380	9,579	438,215	7,813,008
2035	93,368	234,715	8,129	35,415	4,317	6,981,688	143	9,579	438,215	7,805,569

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-18 (Continued)

TRANSPORTATION CAPITAL COST COMPONENTS OF EACH CONTRACTOR *

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	28,047	0	0	0	0	0	0	47,202	0	0
1964	51,583	12,871	3,698	33,413	1,047	25,806	6,866	75,043	31,957	17,994
1965	99,938	22,703	6,334	36,981	1,902	45,900	13,029	124,599	32,658	18,871
1966	185,450	39,983	11,006	65,481	3,370	81,132	23,929	211,350	55,845	32,908
1967	373,139	78,448	21,216	128,929	6,630	159,951	48,145	397,826	106,075	63,439
1968	602,337	128,169	34,874	210,941	10,715	260,689	78,360	663,949	176,887	106,542
1969	1,009,306	216,435	58,530	356,532	17,860	440,446	131,147	1,136,836	303,667	183,758
1970	1,325,151	327,808	92,266	540,244	24,231	659,067	175,754	1,853,405	484,000	286,182
1971	1,482,444	395,268	114,713	651,524	27,656	787,703	199,720	2,328,176	598,620	353,514
1972	1,555,744	417,651	122,983	688,449	28,974	828,597	209,388	2,492,579	638,441	378,043
1973	1,578,772	426,165	125,722	702,493	29,411	844,965	212,528	2,541,212	650,718	385,706
1974	1,583,217	427,486	126,077	704,672	29,465	847,652	212,901	2,547,535	652,413	386,748
1975	1,596,396	428,473	126,336	706,299	29,535	849,669	213,394	2,552,119	653,651	387,511
1976	1,670,314	430,752	126,917	710,059	29,701	854,367	214,598	2,563,084	656,644	389,240
1977	1,740,910	433,109	127,513	713,947	29,878	859,236	215,928	2,578,920	660,952	391,017
1978	2,043,995	435,544	128,129	717,965	29,958	864,270	216,532	2,625,028	673,358	392,854
1979	2,350,215	437,246	128,559	720,771	30,091	867,787	217,529	2,685,658	689,625	394,136
1980	2,360,949	439,182	129,062	723,964	30,262	871,764	218,809	2,730,120	701,556	395,623
1981	2,366,583	440,193	129,331	725,632	30,348	873,828	219,448	2,735,104	702,898	396,416
1982	2,368,876	440,605	129,435	726,313	30,387	874,687	219,736	2,737,210	703,466	396,742
1983	2,371,022	440,990	129,532	726,949	30,423	875,491	220,006	2,739,190	703,999	397,047
1984	2,371,646	441,102	129,561	727,134	30,434	875,724	220,084	2,739,692	704,137	397,131
1985	2,379,364	442,490	129,911	729,423	30,562	878,616	221,054	2,745,899	705,844	398,177
1986	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1987	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1988	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1989	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1990	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1991	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1992	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1993	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1994	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1995	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1996	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1997	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1998	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
1999	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2000	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2001	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2002	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2003	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2004	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2005	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2006	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2007	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2008	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2009	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2010	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2011	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2012	2,383,991	443,322	130,121	730,795	30,640	880,349	221,635	2,749,620	706,868	398,804
2013	2,355,944	443,322	130,121	718,615	30,640	880,349	221,635	2,702,418	694,781	392,092
2014	2,332,408	430,451	126,424	710,031	29,593	854,543	214,769	2,674,577	687,466	387,781
2015	2,284,053	420,619	123,788	693,814	28,738	834,449	208,607	2,625,020	674,210	379,933
2016	2,198,542	403,340	119,115	665,314	27,270	799,217	197,707	2,538,269	651,023	365,896
2017	2,010,853	364,874	108,906	601,866	24,010	720,398	173,491	2,351,793	600,794	335,365
2018	1,781,654	315,153	95,247	519,854	19,925	619,661	143,275	2,085,671	529,981	292,261
2019	1,374,685	226,887	71,592	374,263	12,780	439,904	90,489	1,612,784	403,202	215,046
2020	1,058,840	115,514	37,856	190,551	6,409	221,283	45,881	896,215	222,869	112,621
2021	901,547	48,054	15,408	79,271	2,984	92,646	21,915	421,444	108,248	45,290
2022	828,247	25,671	7,139	42,346	1,666	51,752	12,247	257,040	68,427	20,761
2023	805,219	17,157	4,399	28,302	1,228	35,384	9,107	208,407	56,150	13,098
2024	800,774	15,836	4,044	26,123	1,175	32,697	8,735	202,085	54,455	12,056
2025	787,595	14,849	3,786	24,496	1,104	30,680	8,241	197,501	53,217	11,293
2026	713,677	12,570	3,204	20,736	939	25,982	7,037	186,535	50,225	9,564
2027	643,081	10,214	2,608	16,848	762	21,114	5,708	170,699	45,917	7,787
2028	339,996	7,778	1,992	12,831	681	16,080	5,103	124,591	33,510	5,950
2029	33,776	6,076	1,562	10,024	549	12,562	4,106	63,962	17,243	4,667
2030	23,042	4,140	1,060	6,831	377	8,585	2,826	19,500	5,312	3,181
2031	17,408	3,129	790	5,163	291	6,521	2,187	14,516	3,970	2,388
2032	15,115	2,717	686	4,482	253	5,662	1,899	12,410	3,403	2,062
2033	12,969	2,332	589	3,846	217	4,859	1,629	10,429	2,870	1,757
2034	12,345	2,220	561	3,661	206	4,625	1,551	9,927	2,732	1,673
2035	4,627	832	210	1,372	77	1,733	581	3,721	1,024	627

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-18 (Continued)

TRANSPORTATION CAPITAL COST COMPONENTS OF EACH CONTRACTOR *

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR,	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	Butte County	Plumas County FC & WCD	Total	South Bay	
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	615,138	0	0	690,387	0	0	0	0	40,256	1,228,367
1964	1,091,199	17,139	8,070	1,376,686	0	0	0	0	69,444	2,172,983
1965	1,933,346	33,301	15,675	2,385,237	0	0	346	346	113,217	3,708,799
1966	3,491,383	64,123	29,960	4,295,920	0	0	481	481	132,154	5,914,732
1967	7,004,835	134,680	62,348	8,585,661	0	0	481	481	169,823	10,568,433
1968	13,047,074	264,927	121,619	15,707,083	0	0	481	481	243,009	18,657,238
1969	22,752,321	468,369	214,076	27,289,283	0	0	2,279	2,279	314,146	30,942,638
1970	32,218,403	621,863	282,758	38,891,132	0	0	4,617	4,617	329,273	42,857,537
1971	38,567,930	708,133	320,027	46,535,428	0	0	9,023	9,023	332,416	50,835,190
1972	40,238,633	725,304	326,880	48,651,666	0	0	9,023	9,023	333,016	53,577,750
1973	40,509,817	725,833	325,894	49,059,236	0	0	9,023	9,023	333,624	54,272,058
1974	40,115,026	713,506	319,651	48,666,349	0	0	9,023	9,023	334,145	54,141,774
1975	40,272,852	717,189	321,107	48,854,531	0	0	9,023	9,023	334,280	54,601,598
1976	40,478,563	721,008	322,894	49,168,141	0	0	9,023	9,023	334,280	55,610,582
1977	40,747,162	725,264	324,946	49,548,782	0	0	9,473	9,473	334,280	56,442,776
1978	42,128,514	743,038	333,502	51,332,687	0	0	10,372	10,372	334,280	58,752,299
1979	44,143,897	772,124	347,509	53,785,147	0	0	19,453	19,453	334,282	62,428,707
1980	45,203,881	780,307	351,453	54,936,932	0	0	30,242	30,242	334,291	65,029,815
1981	45,293,777	780,485	351,539	55,045,582	0	0	30,242	30,242	334,358	65,588,238
1982	45,337,869	781,158	351,863	55,098,347	0	0	30,242	30,242	334,618	66,008,260
1983	45,375,884	781,807	352,176	55,144,516	0	0	30,242	30,242	334,869	66,463,635
1984	45,385,209	781,997	352,267	55,156,118	0	0	30,242	30,242	334,878	66,846,304
1985	45,500,526	784,334	353,393	55,299,593	0	0	30,242	30,242	334,879	67,360,085
1986	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	67,808,990
1987	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	68,169,262
1988	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	68,507,428
1989	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	68,758,944
1990	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
1991	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
1992	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
1993	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
1994	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
1995	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
1996	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
1997	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
1998	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
1999	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2000	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2001	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2002	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2003	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2004	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2005	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2006	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2007	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2008	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2009	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2010	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2011	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2012	45,569,651	785,735	354,069	55,385,600	0	0	30,242	30,242	334,879	69,040,227
2013	44,954,513	785,735	354,069	54,664,234	0	0	30,242	30,242	294,623	67,774,455
2014	44,478,451	768,595	345,999	54,041,088	0	0	30,242	30,242	265,434	66,872,561
2015	43,636,305	752,434	338,393	53,000,363	0	0	29,897	29,897	221,662	65,298,137
2016	42,078,268	721,612	324,109	51,089,682	0	0	29,761	29,761	202,725	63,089,203
2017	38,564,816	651,055	291,721	46,799,942	0	0	29,761	29,761	165,056	58,430,858
2018	32,522,577	520,808	232,450	39,678,517	0	0	29,761	29,761	91,869	50,849,023
2019	22,817,329	317,366	139,992	28,096,319	0	0	27,963	27,963	20,733	38,916,618
2020	13,351,247	163,872	71,311	16,494,469	0	0	25,625	25,625	5,606	27,167,013
2021	7,001,720	77,602	34,041	8,850,170	0	0	21,220	21,220	2,463	19,474,095
2022	5,331,017	60,431	27,189	6,733,933	0	0	21,220	21,220	1,863	17,332,991
2023	5,059,834	59,901	28,174	6,326,360	0	0	21,220	21,220	1,255	16,904,925
2024	5,454,625	72,229	34,418	6,719,252	0	0	21,220	21,220	734	17,284,465
2025	5,296,799	68,546	32,961	6,531,068	0	0	21,220	21,220	598	17,085,787
2026	5,091,088	64,727	31,175	6,217,459	0	0	21,220	21,220	598	16,405,956
2027	4,822,488	60,471	29,123	5,836,820	0	0	20,770	20,770	598	15,919,683
2028	3,441,137	42,697	20,567	4,052,913	0	0	19,870	19,870	598	13,954,815
2029	1,425,753	13,611	6,559	1,600,450	0	0	10,789	10,789	596	10,615,054
2030	365,770	5,428	2,616	448,668	0	0	0	0	587	8,357,515
2031	275,874	5,250	2,530	340,017	0	0	0	0	521	8,184,080
2032	231,781	4,577	2,206	287,253	0	0	0	0	261	8,121,530
2033	193,765	3,928	1,893	241,084	0	0	0	0	10	8,068,135
2034	184,441	3,738	1,802	229,482	0	0	0	0	1	8,051,714
2035	69,124	1,401	676	86,005	0	0	0	0	0	7,895,247

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-19

TRANSPORTATION MINIMUM OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COMPONENTS OF EACH CONTRACTOR *

(in dollars)

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD, Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	18,568	17,079	0	35,647	0	0	0
1963	0	0	0	34,483	31,829	75,792	142,104	0	0	0
1964	0	0	0	33,415	30,990	73,795	138,200	0	0	0
1965	0	0	0	71,849	69,743	179,203	320,795	0	0	0
1966	0	0	0	77,293	76,408	208,427	362,128	0	0	0
1967	0	0	0	113,368	110,875	303,895	528,138	0	0	0
1968	0	0	0	116,552	125,062	421,060	662,674	16,091	37,569	53,660
1969	79,000	0	79,000	121,874	130,972	441,820	694,666	61,805	144,292	206,097
1970	91,000	0	91,000	129,313	138,672	464,039	732,024	70,801	165,292	236,093
1971	96,000	0	96,000	133,071	142,986	481,829	757,886	79,825	186,355	266,180
1972	102,000	0	102,000	138,243	148,611	501,105	787,959	80,972	189,036	270,008
1973	107,000	0	107,000	145,466	156,963	528,529	830,958	84,416	197,075	281,491
1974	113,000	0	113,000	150,591	162,078	547,214	859,883	85,139	198,761	283,900
1975	119,000	0	119,000	154,382	165,914	559,993	880,289	85,351	199,256	284,607
1976	124,000	0	124,000	158,167	170,463	575,706	904,336	85,783	200,265	286,048
1977	131,000	0	131,000	163,564	175,965	596,557	936,086	85,908	200,561	286,469
1978	52,000	0	52,000	168,820	182,377	616,736	967,933	86,573	202,108	288,681
1979	52,000	0	52,000	168,575	182,102	615,457	966,134	86,529	202,006	288,535
1980	152,717	152,283	305,000	168,505	182,039	615,304	965,848	156,501	382,404	538,905
1981	152,717	152,283	305,000	168,267	181,820	614,785	964,872	153,863	376,248	530,111
1982	152,319	151,681	304,000	168,393	181,937	615,062	965,392	149,839	366,854	516,693
1983	152,319	151,681	304,000	168,164	181,727	614,563	964,454	147,497	361,382	508,879
1984	152,319	151,681	304,000	167,922	181,506	614,037	963,465	147,148	360,566	507,714
1985	152,319	151,681	304,000	166,953	180,585	610,842	958,380	145,623	357,011	502,634
1986	151,921	151,079	303,000	165,732	179,171	607,468	952,371	144,716	354,892	499,608
1987	151,921	151,079	303,000	165,636	179,083	607,261	951,980	144,341	354,016	498,357
1988	151,921	151,079	303,000	165,627	179,075	607,240	951,942	143,646	352,396	496,042
1989	151,921	151,079	303,000	165,612	179,060	607,205	951,877	143,735	352,604	496,339
1990	151,921	151,079	303,000	165,584	179,033	607,144	951,761	143,098	351,115	494,213
1991	151,921	151,079	303,000	165,603	179,051	607,185	951,839	143,136	351,204	494,340
1992	151,921	151,079	303,000	165,377	178,844	606,693	950,914	143,136	351,204	494,340
1993	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
1994	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
1995	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
1996	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
1997	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
1998	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
1999	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2000	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2001	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2002	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2003	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2004	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2005	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2006	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2007	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2008	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2009	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2010	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2011	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2012	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2013	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2014	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2015	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2016	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2017	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2018	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2019	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2020	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2021	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2022	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2023	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2024	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2025	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2026	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2027	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2028	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2029	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2030	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2031	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2032	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2033	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2034	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323
2035	151,921	151,079	303,000	165,367	178,835	606,672	950,874	143,131	351,192	494,323

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-19 (Continued)

TRANSPORTATION MINIMUM OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COMPONENTS OF EACH CONTRACTOR *

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY									
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency		Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agricultural				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	11,439	51,711	2,685	7,617	83,061	927,493	2,748	2,747	98,512	1,188,013
1969	43,460	59,626	2,983	8,785	106,452	1,403,717	3,053	3,161	111,285	1,742,522
1970	49,782	66,554	3,305	9,801	139,250	1,777,852	3,381	3,657	123,701	2,177,283
1971	56,098	67,478	3,316	9,940	152,678	1,938,196	3,393	3,609	124,720	2,359,428
1972	56,907	68,798	3,378	10,135	159,693	1,986,647	3,458	3,660	127,120	2,419,796
1973	59,323	71,071	3,492	10,470	163,974	2,047,784	3,577	3,819	131,394	2,494,904
1974	59,836	73,391	3,613	10,813	168,176	2,092,975	3,699	4,014	135,793	2,552,310
1975	59,990	74,413	3,667	10,961	169,699	2,109,869	3,753	4,101	137,759	2,574,212
1976	60,293	75,459	3,722	11,117	171,416	2,129,324	3,809	4,173	139,753	2,599,066
1977	60,385	76,543	3,777	11,275	172,988	2,146,234	3,867	4,261	141,816	2,621,146
1978	60,857	78,334	3,871	11,540	175,906	2,179,266	3,963	4,398	145,229	2,663,364
1979	60,825	78,193	3,864	11,519	175,724	2,176,789	3,955	4,395	144,959	2,660,223
1980	61,325	78,788	3,894	11,606	176,892	2,191,472	3,986	4,463	146,091	2,678,517
1981	61,156	78,361	3,872	11,543	176,149	2,183,041	3,963	4,420	145,278	2,667,783
1982	61,279	78,922	3,902	11,626	176,994	2,192,722	3,993	4,482	146,345	2,680,265
1983	61,108	78,476	3,877	11,560	176,358	2,184,264	3,971	4,442	145,497	2,669,553
1984	61,075	78,654	3,887	11,587	176,276	2,184,318	3,980	4,478	145,838	2,670,093
1985	60,845	78,288	3,868	11,531	175,514	2,175,420	3,960	4,451	145,159	2,659,036
1986	60,417	77,011	3,804	11,344	173,212	2,149,303	3,894	4,339	142,748	2,626,072
1987	60,362	76,771	3,791	11,307	172,834	2,144,996	3,881	4,322	142,287	2,620,551
1988	60,298	76,807	3,793	11,313	172,967	2,145,789	3,883	4,320	142,356	2,621,526
1989	60,361	77,094	3,808	11,355	173,309	2,150,023	3,898	4,357	142,902	2,627,107
1990	60,332	76,972	3,801	11,338	173,106	2,147,735	3,892	4,352	142,667	2,624,195
1991	60,360	77,095	3,808	11,356	173,368	2,150,772	3,898	4,355	142,903	2,627,915
1992	60,360	77,095	3,808	11,356	173,368	2,150,772	3,898	4,355	142,903	2,627,915
1993	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
1994	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
1995	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
1996	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
1997	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
1998	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
1999	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2000	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2001	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2002	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2003	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2004	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2005	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2006	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2007	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2008	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2009	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2010	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2011	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2012	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2013	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2014	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2015	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2016	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2017	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2018	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2019	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2020	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2021	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2022	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2023	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2024	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2025	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2026	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2027	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2028	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2029	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2030	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2031	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2032	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2033	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2034	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522
2035	60,356	77,078	3,807	11,353	173,341	2,150,465	3,897	4,354	142,871	2,627,522

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-19 (Continued)

TRANSPORTATION MINIMUM OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COMPONENTS OF EACH CONTRACTOR *

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	89,056	16,006	4,047	26,400	1,492	33,363	11,183	71,587	19,708	12,069
1969	114,115	20,510	5,183	33,834	1,908	42,755	14,334	91,741	25,249	15,474
1970	190,234	34,251	8,654	56,492	3,179	71,274	23,894	153,181	42,140	25,828
1971	238,644	43,002	10,870	70,924	3,992	89,416	29,971	192,328	52,892	32,430
1972	369,541	100,457	26,234	165,710	6,865	206,549	49,582	500,529	135,881	78,377
1973	380,091	102,897	26,889	169,723	7,016	211,503	50,690	512,469	139,103	80,343
1974	389,110	104,494	27,287	172,349	7,167	214,810	51,818	519,712	141,102	81,562
1975	389,189	104,412	27,261	172,222	7,165	214,677	51,815	519,190	140,976	81,483
1976	392,088	104,935	27,393	173,084	7,214	215,763	52,179	521,525	141,621	81,876
1977	391,891	104,759	27,348	172,795	7,211	215,403	52,158	521,045	141,404	81,746
1978	395,542	105,471	27,531	173,969	7,272	216,885	52,616	530,981	144,087	82,280
1979	395,557	105,646	27,574	174,253	7,272	217,240	52,618	535,740	145,241	82,410
1980	402,455	107,402	28,019	177,155	7,390	220,879	53,484	538,037	145,678	83,736
1981	400,899	106,954	27,902	176,406	7,363	219,944	53,288	535,814	145,041	83,395
1982	400,801	106,904	27,894	176,332	7,361	219,852	53,277	536,068	145,108	83,359
1983	401,814	106,975	27,911	176,449	7,379	219,994	53,403	536,383	145,194	83,413
1984	397,334	106,110	27,691	175,021	7,303	218,203	52,841	533,275	144,333	82,762
1985	394,197	105,662	27,568	174,282	7,248	217,296	52,439	531,132	143,754	82,386
1986	391,324	104,833	27,357	172,913	7,196	215,570	52,057	526,647	142,531	81,760
1987	391,197	104,723	27,327	172,739	7,193	215,346	52,041	526,320	142,437	81,680
1988	392,162	104,895	27,374	173,027	7,207	215,711	52,164	527,254	142,695	81,811
1989	391,130	104,710	27,328	172,717	7,192	215,324	52,033	526,572	142,507	81,669
1990	390,610	104,500	27,275	172,377	7,184	214,895	51,968	525,801	142,292	81,514
1991	391,271	104,762	27,341	172,808	7,193	215,436	52,054	526,815	142,572	81,712
1992	391,271	104,762	27,341	172,808	7,193	215,436	52,054	526,815	142,572	81,712
1993	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
1994	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
1995	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
1996	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
1997	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
1998	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
1999	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2000	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2001	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2002	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2003	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2004	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2005	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2006	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2007	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2008	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2009	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2010	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2011	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2012	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2013	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2014	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2015	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2016	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2017	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2018	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2019	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2020	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2021	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2022	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2023	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2024	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2025	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2026	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2027	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2028	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2029	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2030	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2031	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2032	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2033	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2034	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708
2035	391,241	104,757	27,339	172,799	7,193	215,425	52,050	526,793	142,565	81,708

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-19 (Continued)

TRANSPORTATION MINIMUM OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COMPONENTS OF EACH CONTRACTOR *

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR,	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	Butte County	Plumas County FC & WCD	Total	South Bay	
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	35,647
1963	0	0	0	0	0	0	0	0	11,618	153,722
1964	0	0	0	0	0	0	0	0	11,317	149,517
1965	0	0	0	0	0	0	0	0	26,609	347,404
1966	0	0	0	0	0	0	0	0	29,849	391,977
1967	0	0	0	0	0	0	0	0	43,491	571,629
1968	1,330,454	26,970	12,997	1,655,332	0	0	0	0	59,321	3,619,000
1969	1,710,732	34,558	16,652	2,127,045	0	0	0	0	71,670	4,921,000
1970	2,875,630	57,607	27,760	3,570,124	0	0	0	0	75,476	6,882,000
1971	3,619,775	72,267	34,825	4,491,336	0	0	2,000	2,000	78,170	8,051,000
1972	7,006,835	120,951	57,565	8,825,076	0	0	2,000	2,000	81,161	12,488,000
1973	7,179,255	123,944	58,946	9,042,869	0	0	2,000	2,000	85,778	12,845,000
1974	7,296,595	126,116	59,998	9,192,120	0	0	2,000	2,000	88,787	13,092,000
1975	7,307,695	126,513	60,191	9,202,789	0	0	2,000	2,000	91,103	13,154,000
1976	7,337,120	126,983	60,415	9,242,196	0	0	2,000	2,000	93,354	13,251,000
1977	7,344,018	127,162	60,500	9,247,440	0	0	2,000	2,000	96,859	13,321,000
1978	7,429,792	128,100	60,953	9,355,479	0	0	2,000	2,000	100,543	13,430,000
1979	7,515,929	129,666	61,705	9,450,851	0	0	2,000	2,000	100,257	13,520,000
1980	7,653,310	130,051	61,891	9,609,487	0	0	2,000	2,000	100,243	14,200,000
1981	7,640,590	129,738	61,743	9,589,077	0	0	2,000	2,000	100,157	14,159,000
1982	7,648,698	129,946	61,840	9,597,440	0	0	2,000	2,000	100,210	14,166,000
1983	7,665,672	130,359	62,041	9,616,987	0	0	2,000	2,000	100,127	14,166,000
1984	7,607,080	129,227	61,496	9,542,676	0	0	2,000	2,000	100,052	14,090,000
1985	7,566,739	128,423	61,113	9,492,239	0	0	2,000	2,000	99,711	14,018,000
1986	7,497,898	127,178	60,516	9,407,780	0	0	2,000	2,000	99,169	13,890,000
1987	7,502,032	127,346	60,596	9,410,977	0	0	2,000	2,000	99,135	13,886,000
1988	7,520,561	127,723	60,775	9,433,359	0	0	2,000	2,000	99,131	13,907,000
1989	7,512,044	127,602	60,718	9,421,546	0	0	2,000	2,000	99,131	13,901,000
1990	7,504,129	127,499	60,667	9,410,711	0	0	2,000	2,000	99,120	13,885,000
1991	7,517,332	127,714	60,769	9,427,779	0	0	2,000	2,000	99,127	13,906,000
1992	7,517,332	127,714	60,769	9,427,779	0	0	2,000	2,000	99,052	13,905,000
1993	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
1994	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
1995	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
1996	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
1997	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
1998	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
1999	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2000	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2001	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2002	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2003	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2004	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2005	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2006	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2007	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2008	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2009	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2010	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2011	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2012	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2013	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2014	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2015	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2016	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2017	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2018	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2019	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2020	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2021	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2022	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2023	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2024	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2025	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2026	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2027	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2028	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2029	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2030	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2031	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2032	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2033	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2034	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000
2035	7,516,892	127,705	60,765	9,427,232	0	0	2,000	2,000	99,049	13,904,000

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-20

TRANSPORTATION VARIABLE OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COMPONENTS OF EACH CONTRACTOR *

(in dollars)

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	2,092	35,631	0	37,723	0	0	0
1963	0	0	0	8,112	51,150	0	59,262	0	0	0
1964	0	0	0	5,955	68,473	0	74,428	0	0	0
1965	0	0	0	11,029	69,461	63,564	144,054	0	0	0
1966	0	0	0	20,062	54,110	125,730	199,902	0	0	0
1967	0	0	0	20,400	61,220	169,509	251,129	0	0	0
1968	9,000	0	9,000	35,940	130,216	458,362	624,518	0	0	0
1969	11,000	0	11,000	40,613	71,534	406,133	518,280	0	0	0
1970	14,000	0	14,000	67,356	109,116	592,733	769,205	0	0	0
1971	15,000	0	15,000	63,965	97,091	502,587	663,643	0	0	0
1972	16,000	0	16,000	64,668	93,350	458,932	616,950	0	0	0
1973	21,000	0	21,000	71,052	98,220	459,748	629,020	0	0	0
1974	19,000	0	19,000	77,936	103,212	463,400	644,548	0	0	0
1975	21,000	0	21,000	83,367	106,815	458,524	648,706	0	0	0
1976	23,000	0	23,000	90,107	111,586	461,014	662,707	0	0	0
1977	25,000	0	25,000	94,339	113,821	451,184	659,344	0	0	0
1978	28,000	0	28,000	107,625	126,842	483,211	717,678	0	0	0
1979	28,000	0	28,000	108,429	124,588	458,736	691,753	0	0	0
1980	46,545	2,455	49,000	110,288	124,323	441,150	675,761	27,150	32,581	59,731
1981	55,057	2,943	58,000	109,258	123,509	418,032	650,799	23,233	53,434	76,667
1982	57,533	3,467	61,000	116,498	132,032	427,161	675,691	34,308	78,907	113,215
1983	59,407	3,593	63,000	113,639	129,094	400,010	642,743	40,388	92,890	133,278
1984	59,730	3,270	63,000	114,479	130,332	387,470	632,281	58,683	135,623	194,306
1985	62,153	3,847	66,000	118,082	134,701	384,859	637,642	81,921	188,968	270,889
1986	69,479	4,521	74,000	113,393	129,998	356,378	599,769	102,846	237,577	340,423
1987	70,152	4,848	75,000	113,931	130,823	345,719	590,473	124,828	287,607	412,435
1988	71,000	6,000	77,000	116,220	133,653	340,913	590,786	143,350	331,092	474,442
1989	67,485	6,515	74,000	119,545	137,670	347,066	604,281	183,945	423,997	607,942
1990	69,777	7,223	77,000	121,988	140,667	350,715	613,370	206,095	475,670	681,765
1991	69,777	7,223	77,000	127,949	144,508	353,741	626,198	206,905	477,534	684,439
1992	69,777	7,223	77,000	132,768	147,152	354,048	633,968	206,868	477,449	684,317
1993	69,777	7,223	77,000	137,479	149,779	354,551	641,809	206,844	477,393	684,237
1994	69,777	7,223	77,000	143,011	150,161	357,529	650,701	206,825	477,350	684,175
1995	69,777	7,223	77,000	149,919	149,918	356,950	656,787	206,812	477,320	684,132
1996	69,777	7,223	77,000	156,110	149,012	354,794	659,916	206,804	477,304	684,108
1997	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
1998	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
1999	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2000	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2001	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2002	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2003	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2004	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2005	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2006	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2007	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2008	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2009	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2010	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2011	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2012	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2013	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2014	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2015	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2016	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2017	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2018	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2019	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2020	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2021	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2022	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2023	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2024	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2025	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2026	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2027	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2028	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2029	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2030	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2031	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2032	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2033	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2034	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064
2035	69,777	7,223	77,000	162,712	148,564	353,722	664,998	206,791	477,273	684,064

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-20 (Continued)

TRANSPORTATION VARIABLE OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COMPONENTS OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY									
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency		Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agriculture				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	35,226	66,547	17,360	7,522	0	553,762	2,604	7,801	155,660	846,482
1969	24,889	33,123	7,307	3,896	0	307,633	2,922	3,590	71,360	454,720
1970	35,932	57,022	10,896	7,265	104,237	504,528	4,721	6,699	115,495	846,795
1971	34,126	42,993	7,206	5,524	102,788	466,502	3,123	4,039	82,145	748,446
1972	34,523	35,999	5,399	4,680	90,144	559,484	2,520	2,720	66,059	801,528
1973	42,760	40,510	5,524	5,339	99,752	680,691	2,762	3,013	71,998	952,349
1974	44,433	49,277	6,134	6,747	119,775	814,663	3,067	3,910	87,921	1,135,927
1975	47,528	53,297	6,103	7,323	129,671	892,592	3,254	4,198	95,405	1,239,371
1976	53,065	57,124	6,055	7,871	139,066	1,011,211	3,230	4,142	102,541	1,384,305
1977	55,292	58,190	5,743	8,040	141,767	1,075,501	3,253	4,096	104,895	1,456,777
1978	61,161	66,604	6,149	9,427	159,990	1,291,415	3,893	4,675	120,297	1,723,611
1979	58,092	69,017	5,984	9,774	166,534	1,385,219	3,990	4,755	124,867	1,828,232
1980	56,177	75,162	6,144	10,649	177,977	1,523,105	4,506	5,600	136,191	1,995,511
1981	52,598	73,997	5,721	10,680	177,507	1,569,937	4,387	5,141	134,262	2,034,230
1982	54,294	85,614	6,264	12,320	203,064	1,810,801	5,221	6,293	155,150	2,339,021
1983	49,103	83,398	5,831	12,053	203,437	1,833,339	5,444	5,847	152,022	2,350,474
1984	47,140	89,468	5,951	12,895	215,622	1,944,249	6,150	6,627	162,866	2,490,968
1985	46,546	91,979	5,846	13,446	228,829	2,043,281	6,626	6,609	167,591	2,610,753
1986	42,752	80,807	4,917	11,801	211,335	1,892,748	6,064	5,296	147,517	2,403,237
1987	40,725	80,910	4,722	11,806	219,767	1,933,330	6,297	5,137	147,812	2,450,506
1988	40,957	84,857	4,758	12,372	236,809	2,057,496	6,345	5,304	155,122	2,604,020
1989	39,760	92,865	5,011	13,696	254,896	2,178,735	6,681	6,156	169,864	2,767,664
1990	38,662	95,367	4,960	14,048	268,388	2,227,314	6,610	6,178	181,808	2,843,335
1991	38,919	96,246	5,004	14,178	272,022	2,258,899	6,672	6,241	183,485	2,881,666
1992	38,901	96,162	5,000	14,165	271,847	2,257,383	6,666	6,233	183,323	2,879,680
1993	38,889	96,105	4,998	14,157	271,731	2,256,373	6,662	6,227	183,215	2,878,357
1994	38,880	96,062	4,995	14,151	271,644	2,255,613	6,659	6,223	183,135	2,877,362
1995	38,873	96,032	4,994	14,146	271,581	2,255,064	6,656	6,220	183,077	2,876,643
1996	38,869	96,015	4,993	14,144	271,546	2,254,768	6,656	6,218	183,045	2,876,254
1997	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
1998	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
1999	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2000	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2001	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2002	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2003	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2004	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2005	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2006	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2007	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2008	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2009	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2010	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2011	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2012	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2013	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2014	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2015	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2016	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2017	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2018	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2019	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2020	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2021	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2022	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2023	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2024	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2025	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2026	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2027	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2028	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2029	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2030	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2031	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2032	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2033	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2034	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538
2035	38,863	95,984	4,991	14,140	271,483	2,254,221	6,654	6,215	182,987	2,875,538

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-20 (Continued)

TRANSPORTATION VARIABLE OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COMPONENTS OF EACH CONTRACTOR *

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0
1972	308,052	94,512	10,541	145,401	2,610	152,674	24,888	836,063	192,658	0
1973	379,139	105,165	15,774	163,188	4,397	194,011	44,587	870,330	208,518	0
1974	454,969	114,229	20,705	178,486	6,065	233,816	64,607	892,425	219,536	0
1975	502,882	119,504	24,753	187,788	7,471	262,904	80,175	896,265	223,640	0
1976	651,453	132,833	30,412	209,739	9,475	311,111	102,160	961,296	244,694	0
1977	703,118	139,731	33,685	215,710	10,264	335,183	115,593	954,106	245,579	0
1978	819,431	157,340	39,498	238,345	13,224	383,054	134,271	1,021,475	267,286	0
1979	905,590	175,797	45,595	262,044	14,949	434,993	147,482	1,091,849	289,995	0
1980	946,635	177,786	47,370	277,686	15,732	444,301	152,939	811,570	215,592	111,075
1981	1,009,092	192,010	50,599	301,377	17,087	469,515	157,420	802,107	214,286	123,723
1982	1,055,905	204,496	53,403	322,258	17,922	489,525	160,010	826,768	220,858	135,041
1983	1,171,639	231,398	59,969	365,859	20,040	545,609	172,872	903,153	241,245	155,889
1984	1,120,587	220,991	56,901	350,378	19,193	514,356	161,653	842,280	223,529	151,363
1985	1,209,104	245,173	62,775	389,641	20,834	562,818	170,768	923,568	247,039	170,288
1986	1,245,679	252,910	64,440	402,752	21,484	574,980	172,782	894,863	241,514	179,160
1987	1,324,444	267,073	67,761	432,957	22,975	600,641	180,733	925,104	255,704	192,425
1988	1,426,985	288,774	72,991	475,414	24,738	643,209	191,700	996,138	278,490	211,137
1989	1,458,520	297,976	75,063	497,243	25,370	660,718	193,003	1,010,874	285,549	220,693
1990	1,520,483	309,585	77,733	510,620	26,474	680,823	199,124	1,045,077	296,536	231,854
1991	1,610,846	317,225	79,647	523,212	26,769	697,618	201,357	1,081,436	303,561	237,576
1992	1,610,644	317,191	79,638	523,156	26,766	697,544	201,331	1,081,286	303,519	237,551
1993	1,610,508	317,168	79,633	523,120	26,764	697,493	201,314	1,081,185	303,491	237,534
1994	1,610,407	317,152	79,628	523,091	26,762	697,456	201,302	1,081,110	303,469	237,522
1995	1,610,333	317,139	79,625	523,071	26,761	697,430	201,292	1,081,055	303,455	237,512
1996	1,610,294	317,132	79,624	523,060	26,760	697,415	201,288	1,081,026	303,446	237,507
1997	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
1998	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
1999	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2000	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2001	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2002	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2003	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2004	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2005	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2006	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2007	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2008	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2009	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2010	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2011	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2012	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2013	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2014	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2015	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2016	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2017	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2018	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2019	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2020	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2021	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2022	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2023	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2024	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2025	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2026	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2027	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2028	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2029	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2030	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2031	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2032	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2033	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2034	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498
2035	1,610,220	317,121	79,620	523,040	26,759	697,388	201,278	1,080,972	303,431	237,498

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-20 (Continued)

TRANSPORTATION VARIABLE OPERATION, MAINTENANCE, POWER, AND REPLACEMENT COMPONENTS OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR, South Bay	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	Butte County	Plumas County FC & WCD	Total		
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	37,723
1963	0	0	0	0	0	0	0	0	0	59,262
1964	0	0	0	0	0	0	0	0	0	74,428
1965	0	0	0	0	0	0	0	0	0	144,054
1966	0	0	0	0	0	0	0	0	0	199,902
1967	0	0	0	0	0	0	0	0	0	251,129
1968	0	0	0	0	0	0	0	0	0	1,480,000
1969	0	0	0	0	0	0	0	0	0	984,000
1970	0	0	0	0	0	0	0	0	0	1,630,000
1971	1,065,673	152,238	0	1,217,911	0	0	0	0	0	2,645,000
1972	3,717,848	273,275	0	5,758,522	0	0	0	0	0	7,193,000
1973	4,380,285	229,237	0	6,594,631	0	0	0	0	0	8,197,000
1974	5,405,696	231,991	0	7,822,525	0	0	0	0	0	9,622,000
1975	6,455,123	246,418	0	9,006,923	0	0	0	0	0	10,916,000
1976	7,441,171	245,644	0	10,339,988	0	0	0	0	0	12,410,000
1977	8,321,414	248,496	0	11,322,879	0	0	0	0	0	13,464,000
1978	9,519,607	260,180	0	12,853,711	0	0	0	0	0	15,323,000
1979	11,243,614	290,107	0	14,902,015	0	0	0	0	0	17,450,000
1980	9,057,151	226,535	7,625	12,491,997	0	0	0	0	0	15,272,000
1981	9,901,550	240,944	15,594	13,495,304	0	0	0	0	0	16,315,000
1982	10,872,784	251,589	23,514	14,634,073	0	0	0	0	0	17,823,000
1983	12,647,655	281,376	33,801	16,830,505	0	0	0	0	0	20,020,000
1984	12,264,757	262,425	38,032	16,226,445	0	0	0	0	0	19,607,000
1985	13,824,714	285,197	47,797	18,159,716	0	0	0	0	0	21,745,000
1986	13,261,802	260,680	56,515	17,619,571	0	0	0	0	0	21,037,000
1987	14,592,150	288,816	75,803	19,226,586	0	0	0	0	0	22,755,000
1988	16,179,373	317,710	105,093	21,211,752	0	0	0	0	0	24,958,000
1989	16,697,483	323,727	127,894	21,874,113	0	0	0	0	0	25,928,000
1990	17,386,521	332,472	160,228	22,777,530	0	0	0	0	0	26,993,000
1991	17,742,443	338,754	163,253	23,323,697	0	0	0	0	0	27,593,000
1992	17,739,493	338,693	163,223	23,320,035	0	0	0	0	0	27,595,000
1993	17,737,530	338,653	163,204	23,317,597	0	0	0	0	0	27,599,000
1994	17,736,052	338,622	163,189	23,315,762	0	0	0	0	0	27,605,000
1995	17,734,986	338,600	163,179	23,314,438	0	0	0	0	0	27,609,000
1996	17,734,409	338,588	163,173	23,313,722	0	0	0	0	0	27,611,000
1997	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
1998	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
1999	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2000	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2001	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2002	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2003	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2004	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2005	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2006	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2007	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2008	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2009	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2010	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2011	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2012	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2013	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2014	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2015	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2016	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2017	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2018	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2019	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2020	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2021	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2022	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2023	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2024	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2025	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2026	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2027	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2028	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2029	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2030	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2031	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2032	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2033	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2034	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000
2035	17,733,344	338,567	163,162	23,312,400	0	0	0	0	0	27,614,000

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-21

TOTAL TRANSPORTATION CHARGES OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	20,660	52,710	0	73,370	0	0	0
1963	0	0	0	133,962	172,145	392,983	699,090	0	0	0
1964	0	0	0	140,146	236,102	538,474	914,722	7,131	17,628	24,759
1965	0	0	0	209,930	330,778	1,034,654	1,575,362	12,565	30,542	43,107
1966	18,198	0	18,198	237,244	341,773	1,273,975	1,852,992	20,960	50,395	71,355
1967	39,478	0	39,478	294,482	406,777	1,509,547	2,210,806	38,578	91,810	130,388
1968	119,886	0	119,886	341,853	522,924	2,015,923	2,880,700	68,353	161,675	230,028
1969	246,769	0	246,769	378,622	499,214	2,065,057	2,942,893	119,562	281,662	401,224
1970	269,523	23,245	292,768	423,629	556,493	2,309,568	3,289,690	130,792	308,253	439,045
1971	278,978	25,139	304,117	426,921	551,971	2,247,811	3,226,703	141,324	333,108	474,432
1972	288,930	26,952	315,882	489,006	554,902	2,228,079	3,271,987	143,896	339,324	483,220
1973	300,165	28,819	328,984	503,852	569,393	2,262,118	3,335,363	148,720	350,797	499,517
1974	305,454	30,767	336,221	516,504	580,333	2,288,985	3,385,822	150,349	354,808	505,157
1975	315,637	34,069	349,706	525,881	587,978	2,298,071	3,411,930	151,436	357,536	508,972
1976	326,592	40,049	366,641	536,406	597,298	2,316,274	3,449,978	256,543	609,799	866,342
1977	344,447	52,009	396,456	546,035	605,035	2,327,295	3,478,365	279,217	671,560	950,777
1978	280,177	67,162	347,339	564,577	624,468	2,379,501	3,568,546	321,210	784,952	1,106,162
1979	319,531	106,885	426,416	565,140	621,943	2,353,756	3,540,839	536,319	1,368,806	1,905,125
1980	563,342	378,843	942,185	566,954	621,638	2,336,072	3,524,664	858,067	2,210,172	3,068,239
1981	574,391	381,739	956,130	565,869	620,773	2,312,835	3,499,477	867,773	2,267,084	3,134,857
1982	576,988	382,445	959,433	573,957	630,073	2,323,812	3,527,842	875,762	2,285,355	3,161,117
1983	579,166	383,031	962,197	571,565	627,562	2,297,679	3,496,806	879,887	2,294,771	3,174,658
1984	581,570	384,358	965,928	572,188	628,602	2,284,667	3,485,457	897,946	2,336,951	3,234,897
1985	583,993	384,935	968,928	574,825	632,053	2,278,869	3,485,747	921,288	2,390,649	3,311,937
1986	590,921	385,007	975,928	568,915	625,936	2,247,014	3,441,865	942,375	2,439,742	3,382,117
1987	591,594	385,334	976,928	569,357	626,673	2,236,148	3,432,178	963,982	2,488,896	3,452,878
1988	592,442	386,486	978,928	571,637	629,495	2,231,321	3,432,453	981,809	2,530,761	3,512,570
1989	588,927	387,001	975,928	574,947	633,497	2,237,439	3,445,883	1,022,493	2,623,874	3,646,367
1990	591,219	387,709	978,928	577,362	636,467	2,241,027	3,454,856	1,044,006	2,674,058	3,718,064
1991	591,219	387,709	978,928	583,342	640,326	2,244,094	3,467,762	1,044,854	2,676,011	3,720,865
1992	591,219	387,709	978,928	587,935	642,763	2,243,909	3,474,607	1,044,817	2,675,926	3,720,743
1993	591,219	387,709	978,928	592,636	645,381	2,244,391	3,482,408	1,044,788	2,675,858	3,720,646
1994	591,219	387,709	978,928	598,168	645,763	2,247,369	3,491,300	1,044,769	2,675,815	3,720,584
1995	591,219	387,709	978,928	605,076	645,520	2,246,790	3,497,386	1,044,756	2,675,785	3,720,541
1996	591,219	387,709	978,928	611,267	644,614	2,244,634	3,500,515	1,044,748	2,675,769	3,720,517
1997	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
1998	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
1999	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2000	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2001	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2002	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2003	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2004	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2005	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2006	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2007	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2008	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2009	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2010	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2011	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2012	591,219	387,709	978,928	617,869	644,166	2,243,562	3,505,597	1,044,735	2,675,738	3,720,473
2013	591,219	387,709	978,928	520,077	554,999	1,926,371	3,001,447	1,044,735	2,675,738	3,720,473
2014	591,219	387,709	978,928	490,239	507,526	1,778,882	2,776,647	1,037,604	2,658,110	3,695,714
2015	591,219	387,709	978,928	457,526	452,591	1,451,674	2,361,791	1,032,170	2,645,197	3,677,367
2016	573,021	387,709	960,730	441,687	432,910	1,303,744	2,178,341	1,023,775	2,625,343	3,649,118
2017	551,741	387,709	939,450	416,215	409,484	1,207,419	2,033,118	1,006,158	2,583,928	3,590,086
2018	480,333	387,709	868,042	381,462	376,519	1,107,061	1,865,042	992,473	2,551,632	3,544,105
2019	434,450	387,709	822,159	349,237	347,458	1,026,458	1,723,153	986,979	2,538,368	3,525,347
2020	426,696	364,464	791,160	336,305	335,460	990,765	1,662,530	984,745	2,532,777	3,517,522
2021	423,241	362,570	785,811	332,836	332,272	980,166	1,645,274	983,236	2,528,986	3,512,222
2022	420,289	360,757	781,046	331,774	331,224	975,520	1,638,518	981,812	2,525,450	3,507,262
2023	419,054	358,890	777,944	330,535	329,956	969,721	1,630,212	980,431	2,522,016	3,502,447
2024	417,765	356,942	774,707	329,892	329,123	965,190	1,624,205	979,526	2,519,691	3,499,217
2025	415,582	353,640	769,222	329,737	328,917	964,008	1,622,662	978,650	2,517,459	3,496,109
2026	411,627	347,660	759,287	329,737	328,917	964,008	1,622,662	873,976	2,266,204	3,140,180
2027	402,772	335,700	738,472	329,737	328,917	964,008	1,622,662	851,427	2,204,739	3,056,166
2028	391,042	320,547	711,589	329,737	328,917	964,008	1,622,662	810,098	2,092,894	2,902,992
2029	351,689	280,824	632,513	329,733	328,913	963,999	1,622,645	594,945	1,508,938	2,103,883
2030	227,139	163,604	390,743	329,708	328,890	963,944	1,622,542	370,319	880,551	1,250,870
2031	224,602	161,196	385,798	329,525	328,721	963,544	1,621,790	354,059	838,336	1,192,395
2032	224,083	160,412	384,495	328,803	328,062	961,973	1,618,838	353,120	836,145	1,189,265
2033	223,779	159,952	383,731	328,107	327,425	960,455	1,615,987	352,733	835,239	1,187,972
2034	221,698	158,302	380,000	328,082	327,402	960,402	1,615,886	352,620	834,976	1,187,596
2035	221,698	158,302	380,000	328,079	327,399	960,394	1,615,872	350,992	831,068	1,182,060

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-21 (Continued)
TOTAL TRANSPORTATION CHARGES OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY									
					Kern County Water Agency					
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Municipal and Industrial	Agriculture	Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	56,379	0	0	0	0	56,379
1966	0	0	0	0	105,662	0	0	0	0	105,662
1967	0	0	0	0	211,063	0	0	0	0	211,063
1968	73,866	165,039	28,174	20,555	388,223	1,795,782	13,010	14,413	361,336	2,860,398
1969	102,902	148,072	18,419	19,347	481,667	2,357,278	14,323	10,952	299,369	3,452,329
1970	127,619	187,442	22,330	25,398	649,358	3,068,023	16,637	14,725	365,880	4,477,412
1971	139,481	183,285	18,651	25,047	674,404	3,448,172	15,151	12,353	343,110	4,859,654
1972	148,039	186,154	16,906	25,648	676,460	4,108,641	14,713	11,253	339,383	5,527,197
1973	166,044	201,074	17,145	27,892	693,925	4,530,593	15,161	12,041	359,158	6,023,033
1974	175,582	220,704	17,876	31,309	718,503	4,925,740	15,592	13,302	395,017	6,513,625
1975	186,182	234,288	17,899	33,283	730,144	5,248,697	15,833	14,012	420,003	6,900,341
1976	199,374	247,704	17,906	35,237	741,613	5,683,073	15,865	14,197	444,670	7,399,639
1977	209,045	258,396	17,649	36,814	746,242	6,076,776	15,946	14,575	465,022	7,840,465
1978	215,386	277,144	18,149	40,133	767,387	6,644,299	16,682	15,626	499,374	8,494,180
1979	212,285	287,958	17,977	41,708	773,762	7,046,778	16,771	15,872	519,211	8,932,322
1980	210,870	303,241	18,167	43,920	786,444	7,517,249	17,320	17,121	547,203	9,461,535
1981	207,122	310,191	17,722	45,555	785,759	7,914,724	17,196	16,787	559,998	9,875,054
1982	208,941	331,318	18,295	48,528	814,233	8,496,669	18,128	18,337	597,489	10,551,938
1983	203,579	336,385	17,837	49,445	815,971	8,888,047	18,395	18,019	609,050	10,956,728
1984	201,583	351,583	17,967	51,564	828,657	9,339,186	19,129	19,171	635,771	11,464,611
1985	200,759	362,270	17,843	53,726	848,304	9,760,720	19,823	19,294	655,354	11,938,093
1986	196,537	358,364	16,850	53,144	832,825	9,912,772	19,338	18,205	648,804	12,056,839
1987	194,455	366,769	16,642	54,362	840,879	10,283,821	19,558	18,198	664,175	12,458,859
1988	194,623	379,294	16,680	56,183	858,054	10,721,283	19,608	18,698	687,091	12,951,514
1989	193,489	396,132	16,948	59,216	876,483	11,072,190	19,959	19,923	717,915	13,372,255
1990	192,362	407,054	16,890	60,801	889,772	11,356,737	19,882	20,109	762,690	13,726,297
1991	192,647	408,056	16,941	60,949	893,668	11,391,359	19,950	20,175	764,603	13,768,348
1992	192,629	407,972	16,937	60,936	893,493	11,389,843	19,944	20,167	764,441	13,766,362
1993	192,613	407,898	16,934	60,925	893,350	11,388,526	19,939	20,160	764,301	13,764,646
1994	192,604	407,855	16,931	60,919	893,263	11,387,766	19,936	20,156	764,221	13,763,651
1995	192,597	407,825	16,930	60,914	893,200	11,387,217	19,933	20,153	764,163	13,762,932
1996	192,593	407,808	16,929	60,912	893,165	11,386,921	19,933	20,151	764,131	13,762,543
1997	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
1998	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
1999	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2000	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2001	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2002	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2003	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2004	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2005	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2006	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2007	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2008	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2009	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2010	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2011	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2012	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2013	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2014	192,587	407,777	16,927	60,908	893,102	11,386,374	19,931	20,148	764,073	13,761,827
2015	192,587	407,777	16,927	60,908	836,723	11,386,374	19,931	20,148	764,073	13,705,448
2016	192,587	407,777	16,927	60,908	787,440	11,386,374	19,931	20,148	764,073	13,656,165
2017	192,587	407,777	16,927	60,908	682,039	11,386,374	19,931	20,148	764,073	13,550,764
2018	192,587	407,777	16,927	60,908	587,939	11,386,374	12,273	20,148	764,073	13,449,006
2019	192,587	407,777	16,927	60,908	517,887	11,386,374	11,582	20,148	764,073	13,378,263
2020	192,587	407,777	16,927	60,908	487,230	11,386,374	11,396	20,148	764,073	13,347,420
2021	192,587	407,777	16,927	60,908	474,164	11,386,374	11,296	20,148	764,073	13,334,254
2022	192,587	407,777	16,927	60,908	466,478	11,386,374	11,196	20,148	764,073	13,326,468
2023	192,587	407,777	16,927	60,908	462,903	11,386,374	11,109	20,148	764,073	13,322,806
2024	192,587	407,777	16,927	60,908	462,550	11,386,374	11,105	20,148	764,073	13,322,449
2025	192,587	407,777	16,927	60,908	462,328	11,386,374	11,105	20,148	764,073	13,322,227
2026	192,587	407,777	16,927	60,908	461,970	11,386,374	11,105	20,148	764,073	13,321,869
2027	192,587	407,777	16,927	60,908	461,615	11,386,374	11,105	20,148	764,073	13,321,514
2028	192,587	407,777	16,927	60,908	461,611	11,386,374	11,105	20,148	764,073	13,321,510
2029	192,587	407,777	16,927	60,908	461,598	11,386,374	11,105	20,148	764,073	13,321,497
2030	192,587	407,777	16,927	60,908	461,527	11,386,374	11,103	20,148	764,073	13,321,424
2031	192,587	407,777	16,927	60,908	460,999	11,386,374	11,085	20,148	764,073	13,320,878
2032	192,587	407,777	16,927	60,908	458,926	11,386,374	11,017	20,148	764,073	13,318,737
2033	192,587	407,777	16,927	60,908	456,926	11,386,374	10,950	20,148	764,073	13,316,670
2034	192,587	407,777	16,927	60,908	456,343	11,386,374	10,931	20,148	764,073	13,316,068
2035	192,587	407,777	16,927	60,908	449,141	11,386,374	10,694	20,148	764,073	13,308,629

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-21 (Continued)
TOTAL TRANSPORTATION CHARGES OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	28,047	0	0	0	0	0	0	47,202	0	0
1964	51,583	12,871	3,698	33,413	1,047	25,806	6,866	75,043	31,957	17,994
1965	99,938	22,703	6,334	36,981	1,902	45,900	13,029	124,599	32,658	18,871
1966	185,450	39,983	11,006	65,481	3,370	81,132	23,929	211,350	55,845	32,908
1967	373,139	78,448	21,216	128,929	6,630	159,951	48,145	397,826	106,075	63,439
1968	691,393	144,175	38,921	237,341	12,207	294,052	89,543	735,536	196,595	118,611
1969	1,123,421	236,945	63,713	390,366	19,768	483,201	145,481	1,228,577	328,916	199,232
1970	1,515,385	362,059	100,920	596,736	27,410	730,341	199,648	2,006,586	526,140	312,010
1971	1,721,088	438,270	125,583	722,448	31,648	877,119	229,691	2,520,504	651,512	385,944
1972	2,233,337	612,620	159,758	999,560	38,449	1,187,820	283,858	3,829,171	966,980	456,420
1973	2,338,002	634,227	168,385	1,035,404	40,824	1,250,479	307,805	3,924,011	998,339	466,049
1974	2,427,296	646,209	174,069	1,055,507	42,697	1,296,278	329,326	3,959,672	1,013,051	468,310
1975	2,488,467	652,389	178,350	1,066,309	44,171	1,327,250	345,384	3,967,574	1,018,267	468,994
1976	2,713,855	668,520	184,722	1,092,882	46,390	1,381,241	368,937	4,045,905	1,042,959	471,116
1977	2,835,919	677,599	188,546	1,102,452	47,353	1,409,822	383,679	4,054,071	1,047,935	472,763
1978	3,258,968	698,355	195,158	1,130,279	50,454	1,464,209	403,419	4,177,484	1,084,731	475,134
1979	3,651,362	718,689	201,728	1,157,068	52,312	1,520,020	417,629	4,313,247	1,124,861	476,546
1980	3,710,039	724,370	204,451	1,178,805	53,384	1,536,944	425,232	4,079,727	1,062,826	590,434
1981	3,776,574	739,157	207,832	1,203,415	54,798	1,563,287	430,156	4,073,025	1,062,225	603,534
1982	3,825,582	752,005	210,732	1,224,903	55,670	1,584,064	433,023	4,100,046	1,069,432	615,142
1983	3,944,475	779,363	217,412	1,269,257	57,842	1,641,094	446,281	4,178,726	1,090,438	636,349
1984	3,889,567	768,203	214,153	1,252,533	56,930	1,608,283	434,578	4,115,247	1,071,999	631,256
1985	3,982,665	793,325	220,254	1,293,346	58,644	1,658,730	444,261	4,200,599	1,096,637	650,851
1986	4,020,994	801,065	221,918	1,306,470	59,320	1,670,899	446,474	4,161,130	1,090,913	659,724
1987	4,099,632	815,118	225,209	1,336,491	60,808	1,696,336	454,409	4,201,044	1,105,009	672,909
1988	4,203,138	836,991	230,486	1,379,236	62,585	1,739,269	465,499	4,273,012	1,128,053	691,752
1989	4,233,641	846,008	232,512	1,400,755	63,202	1,756,391	466,671	4,287,066	1,134,924	701,166
1990	4,295,084	857,407	235,129	1,413,792	64,298	1,776,067	472,727	4,320,498	1,145,696	712,172
1991	4,386,108	865,309	237,109	1,426,815	64,602	1,793,403	475,046	4,357,871	1,153,001	718,092
1992	4,385,906	865,275	237,100	1,426,759	64,599	1,793,329	475,020	4,357,721	1,152,959	718,067
1993	4,385,740	865,247	237,093	1,426,714	64,597	1,793,267	474,999	4,357,598	1,152,924	718,046
1994	4,385,639	865,231	237,088	1,426,685	64,595	1,793,230	474,987	4,357,523	1,152,902	718,034
1995	4,385,565	865,218	237,085	1,426,665	64,594	1,793,204	474,977	4,357,468	1,152,888	718,024
1996	4,385,526	865,211	237,084	1,426,654	64,593	1,793,189	474,973	4,357,439	1,152,879	718,019
1997	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
1998	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
1999	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2000	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2001	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2002	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2003	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2004	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2005	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2006	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2007	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2008	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2009	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2010	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2011	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2012	4,385,452	865,200	237,080	1,426,634	64,592	1,793,162	474,963	4,357,385	1,152,864	718,010
2013	4,357,405	865,200	237,080	1,414,454	64,592	1,793,162	474,963	4,310,183	1,140,777	711,298
2014	4,333,869	852,329	233,383	1,405,870	63,545	1,767,356	468,097	4,282,342	1,133,462	706,987
2015	4,285,514	842,497	230,747	1,389,653	62,690	1,747,262	461,935	4,232,785	1,120,206	699,139
2016	4,200,003	825,218	226,074	1,361,153	61,222	1,712,030	451,035	4,146,034	1,097,019	685,102
2017	4,012,314	786,752	215,865	1,297,705	57,962	1,633,211	426,819	3,959,558	1,046,790	654,571
2018	3,783,115	737,031	202,206	1,215,693	53,877	1,532,474	396,603	3,693,436	975,977	611,467
2019	3,376,146	648,765	178,551	1,070,102	46,732	1,352,717	343,817	3,220,549	849,198	534,252
2020	3,060,301	537,392	144,815	886,390	40,361	1,134,096	299,209	2,503,980	668,865	431,827
2021	2,903,008	469,932	122,367	775,110	36,936	1,005,459	275,243	2,029,209	554,244	364,496
2022	2,829,708	447,549	114,098	738,185	35,618	964,565	265,575	1,864,805	514,423	339,967
2023	2,806,680	439,035	111,358	724,141	35,180	948,197	262,435	1,816,172	502,146	332,304
2024	2,802,235	437,714	111,003	721,962	35,127	945,510	262,063	1,809,850	500,451	331,262
2025	2,789,056	436,727	110,745	720,335	35,056	943,493	261,569	1,805,266	499,213	330,499
2026	2,715,138	434,448	110,163	716,575	34,891	938,795	260,365	1,794,300	496,221	328,770
2027	2,644,542	432,092	109,567	712,687	34,714	933,927	259,036	1,778,464	491,913	326,993
2028	2,341,457	429,656	108,951	708,670	34,633	928,893	258,431	1,732,356	479,506	325,156
2029	2,035,237	427,954	108,521	705,863	34,501	925,375	257,434	1,671,727	463,239	323,873
2030	2,024,503	426,018	108,019	702,670	34,329	921,398	256,154	1,627,265	451,308	322,387
2031	2,018,869	425,007	107,749	701,002	34,243	919,334	255,515	1,622,281	449,966	321,594
2032	2,016,576	424,595	107,645	700,321	34,205	918,475	255,227	1,620,175	449,399	321,268
2033	2,014,430	424,210	107,548	699,685	34,169	917,672	254,957	1,618,194	448,866	320,963
2034	2,013,806	424,098	107,520	699,500	34,158	917,438	254,879	1,617,692	448,728	320,879
2035	2,006,088	422,710	107,169	697,211	34,029	914,546	253,909	1,611,486	447,020	319,833

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-21 (Continu d)

TOTAL TRANSPORTATION CHARGES OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR,	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	Butte County	Plumas County FC & WCD	Total	South Bay	
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	73,370
1963	615,138	0	0	690,387	0	0	0	0	51,874	1,441,351
1964	1,091,199	17,139	8,070	1,376,686	0	0	0	0	80,761	2,396,928
1965	1,933,346	33,301	15,675	2,385,237	0	0	346	346	139,826	4,200,257
1966	3,491,383	64,123	29,960	4,295,920	0	0	481	481	162,003	6,506,611
1967	7,004,835	134,680	62,348	8,585,661	0	0	481	481	213,314	11,391,191
1968	14,377,528	291,897	134,616	17,362,415	0	0	481	481	302,330	23,756,238
1969	24,463,053	502,927	230,728	29,416,328	0	0	2,279	2,279	385,816	36,847,638
1970	35,094,033	679,470	310,518	42,461,256	0	0	4,617	4,617	404,749	51,369,537
1971	43,253,378	932,638	354,852	52,244,675	0	0	11,023	11,023	410,586	61,531,190
1972	50,963,316	1,119,530	384,445	63,235,264	0	0	11,023	11,023	414,177	73,258,750
1973	52,069,357	1,079,014	384,840	64,696,736	0	0	11,023	11,023	419,402	75,314,058
1974	52,817,317	1,071,613	379,649	65,680,994	0	0	11,023	11,023	422,932	76,855,774
1975	54,035,670	1,090,120	381,298	67,064,243	0	0	11,023	11,023	425,383	78,671,598
1976	56,256,854	1,093,635	383,309	68,750,325	0	0	11,023	11,023	427,634	81,271,582
1977	56,412,594	1,100,922	385,446	70,119,101	0	0	11,473	11,473	431,139	83,227,776
1978	59,077,913	1,131,318	394,455	73,541,877	0	0	12,372	12,372	434,823	87,505,299
1979	62,903,440	1,191,897	409,214	78,138,013	0	0	21,453	21,453	434,539	93,398,707
1980	61,914,342	1,136,893	420,969	77,038,416	0	0	32,242	32,242	434,534	94,501,815
1981	62,835,917	1,151,167	428,876	78,129,963	0	0	32,242	32,242	434,515	96,062,238
1982	63,859,351	1,162,693	437,217	79,329,860	0	0	32,242	32,242	434,828	97,997,260
1983	65,689,211	1,193,542	448,018	81,592,008	0	0	32,242	32,242	434,996	100,649,635
1984	65,257,046	1,173,649	451,795	80,925,239	0	0	32,242	32,242	434,930	100,543,304
1985	66,891,979	1,197,954	462,303	82,951,548	0	0	32,242	32,242	434,590	103,123,085
1986	66,329,351	1,173,593	471,100	82,412,951	0	0	32,242	32,242	434,048	102,735,990
1987	67,663,833	1,201,897	490,468	84,023,163	0	0	32,242	32,242	434,014	104,810,262
1988	69,269,585	1,231,168	519,937	86,030,711	0	0	32,242	32,242	434,010	107,372,428
1989	69,779,178	1,237,064	542,681	86,681,259	0	0	32,242	32,242	434,010	108,587,944
1990	70,460,301	1,245,706	574,964	87,573,841	0	0	32,242	32,242	433,999	109,918,227
1991	70,829,426	1,252,203	578,091	88,137,076	0	0	32,242	32,242	434,006	110,539,227
1992	70,826,476	1,252,142	578,061	88,133,414	0	0	32,242	32,242	433,931	110,540,227
1993	70,824,073	1,252,093	578,038	88,130,429	0	0	32,242	32,242	433,928	110,543,227
1994	70,822,595	1,252,062	578,023	88,128,594	0	0	32,242	32,242	433,928	110,549,227
1995	70,821,529	1,252,040	578,013	88,127,270	0	0	32,242	32,242	433,928	110,553,227
1996	70,820,952	1,252,028	578,007	88,126,554	0	0	32,242	32,242	433,928	110,555,227
1997	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
1998	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
1999	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2000	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2001	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2002	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2003	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2004	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2005	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2006	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2007	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2008	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2009	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2010	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2011	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2012	70,819,887	1,252,007	577,996	88,125,232	0	0	32,242	32,242	433,928	110,558,227
2013	70,204,749	1,252,007	577,996	87,403,866	0	0	32,242	32,242	393,672	109,292,455
2014	69,728,687	1,234,867	569,926	86,780,720	0	0	32,242	32,242	364,483	108,390,561
2015	68,886,541	1,218,706	562,320	85,739,995	0	0	31,897	31,897	320,711	106,816,137
2016	67,328,504	1,187,884	548,036	83,829,314	0	0	31,761	31,761	301,774	104,607,203
2017	63,815,052	1,117,327	515,648	79,539,574	0	0	31,761	31,761	264,105	99,948,858
2018	57,772,813	987,080	456,377	72,418,149	0	0	31,761	31,761	190,918	92,367,023
2019	48,067,565	783,638	363,919	60,835,951	0	0	29,963	29,963	119,782	80,434,618
2020	38,601,483	630,144	295,238	49,234,101	0	0	27,625	27,625	104,655	68,685,013
2021	32,251,956	543,874	257,968	41,589,802	0	0	23,220	23,220	101,512	60,992,095
2022	30,581,253	526,703	251,116	39,473,565	0	0	23,220	23,220	100,912	58,850,991
2023	30,310,070	526,173	252,101	39,065,992	0	0	23,220	23,220	100,304	58,422,925
2024	30,704,861	538,501	258,345	39,458,884	0	0	23,220	23,220	99,783	58,802,465
2025	30,547,035	534,818	256,888	39,270,700	0	0	23,220	23,220	99,647	58,603,787
2026	30,341,324	530,999	255,102	38,957,091	0	0	23,220	23,220	99,647	57,923,956
2027	30,072,724	526,743	253,050	38,576,452	0	0	22,770	22,770	99,647	57,437,683
2028	28,691,373	508,969	244,494	36,792,545	0	0	21,870	21,870	99,647	55,472,815
2029	26,675,989	479,883	230,486	34,340,082	0	0	12,789	12,789	99,645	52,133,054
2030	25,616,006	471,700	226,543	33,188,300	0	0	2,000	2,000	99,636	49,875,515
2031	25,526,110	471,522	226,457	33,079,649	0	0	2,000	2,000	99,570	49,702,080
2032	25,482,017	470,849	226,133	33,026,885	0	0	2,000	2,000	99,310	49,639,530
2033	25,444,002	470,200	225,820	32,980,716	0	0	2,000	2,000	99,059	49,586,135
2034	25,434,677	470,010	225,729	32,969,114	0	0	2,000	2,000	99,050	49,569,714
2035	25,319,360	467,673	224,603	32,825,637	0	0	2,000	2,000	99,049	49,413,247

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-22

TOTAL WATER CHARGES OF EACH CONTRACTOR *

(in dollars)

CALENDAR YEAR	NORTH BAY AREA			SOUTH BAY AREA				CENTRAL COASTAL AREA		
	Napa County FC & WCD	Solano County FC & WCD	Total	Alameda County FC & WCD, Zone 7	Alameda County Water District	Santa Clara County FC & WD	Total	San Luis Obispo County FC & WCD	Santa Barbara County FC & WCD	Total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	20,660	52,710	0	73,370	0	0	0
1963	0	0	0	133,962	172,145	392,983	699,090	0	0	0
1964	0	0	0	140,146	236,102	538,474	914,722	7,131	17,628	24,759
1965	0	0	0	209,930	330,778	1,034,654	1,575,362	12,565	30,542	43,107
1966	18,198	0	18,198	237,244	341,773	1,273,975	1,852,992	20,960	50,395	71,355
1967	39,478	0	39,478	296,257	425,145	1,529,788	2,251,190	38,578	91,810	130,388
1968	119,886	0	119,886	366,003	575,724	2,323,923	3,265,650	68,353	161,675	230,028
1969	246,769	0	246,769	409,422	553,464	2,373,057	3,335,943	119,562	281,662	401,224
1970	269,523	23,245	292,768	482,271	651,492	2,825,613	3,959,376	130,792	308,253	439,045
1971	278,978	25,139	304,117	492,600	651,662	2,763,856	3,908,118	141,324	333,108	474,432
1972	288,930	26,952	315,882	561,721	659,870	2,744,124	3,965,715	143,896	339,324	483,220
1973	300,165	28,819	328,984	583,604	679,639	2,778,163	4,041,406	148,720	350,797	499,517
1974	305,454	30,767	336,221	603,293	695,270	2,805,030	4,103,593	150,349	354,808	505,157
1975	315,637	34,069	349,706	619,707	708,193	2,814,116	4,142,016	151,436	357,536	508,972
1976	326,592	40,049	366,641	660,947	751,526	2,953,459	4,365,932	256,543	609,799	866,342
1977	344,447	52,009	396,456	679,265	765,780	2,964,480	4,409,525	279,217	671,560	950,777
1978	280,177	67,162	347,339	706,496	791,729	3,016,686	4,514,911	321,210	784,952	1,106,162
1979	319,531	106,885	426,416	715,747	794,997	2,990,941	4,501,685	536,319	1,368,806	1,905,125
1980	653,851	427,718	1,081,569	726,250	801,208	2,973,257	4,500,715	865,308	2,218,861	3,084,169
1981	673,951	439,665	1,113,616	732,406	809,032	2,950,020	4,491,458	875,014	2,283,738	3,158,752
1982	685,599	450,508	1,136,107	747,735	827,021	2,960,997	4,535,753	890,243	2,318,662	3,208,905
1983	696,828	461,231	1,158,059	752,584	833,199	2,934,864	4,520,647	901,609	2,344,732	3,246,341
1984	708,283	471,971	1,180,254	760,447	842,928	2,921,852	4,525,227	930,529	2,412,255	3,342,784
1985	721,352	487,496	1,208,848	772,621	857,687	2,923,539	4,553,847	976,231	2,517,385	3,493,616
1986	767,931	531,040	1,298,971	816,729	910,037	3,025,858	4,752,624	1,030,880	2,644,189	3,675,069
1987	779,667	562,344	1,342,011	826,022	921,395	3,014,992	4,762,409	1,074,613	2,743,790	3,818,403
1988	791,578	625,450	1,417,028	837,152	934,837	3,010,165	4,782,154	1,118,992	2,847,609	3,966,601
1989	799,126	692,343	1,491,469	849,313	949,460	3,033,984	4,832,757	1,199,503	3,031,882	4,231,385
1990	812,482	759,430	1,571,912	860,578	963,051	3,055,273	4,878,902	1,265,269	3,184,732	4,450,001
1991	812,482	759,430	1,571,912	884,259	980,185	3,076,041	4,940,485	1,266,117	3,186,685	4,452,802
1992	812,482	759,430	1,571,912	906,553	995,898	3,093,557	4,996,008	1,266,080	3,186,600	4,452,680
1993	812,482	759,430	1,571,912	928,955	1,011,792	3,111,740	5,052,487	1,266,051	3,186,532	4,452,583
1994	837,290	801,109	1,638,399	991,882	1,059,163	3,231,654	5,282,699	1,290,840	3,243,747	4,534,587
1995	837,290	801,109	1,638,399	1,018,476	1,058,920	3,231,075	5,308,471	1,290,827	3,243,717	4,534,544
1996	837,290	801,109	1,638,399	1,044,352	1,058,014	3,228,919	5,331,285	1,290,819	3,243,701	4,534,520
1997	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
1998	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
1999	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2000	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2001	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2002	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2003	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2004	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2005	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2006	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2007	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2008	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2009	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2010	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2011	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2012	837,290	801,109	1,638,399	1,070,640	1,057,566	3,227,847	5,356,053	1,290,806	3,243,670	4,534,476
2013	837,290	801,109	1,638,399	972,848	968,399	2,910,656	4,851,903	1,290,806	3,243,670	4,534,476
2014	837,290	801,109	1,638,399	943,010	920,926	2,763,167	4,627,103	1,283,675	3,226,042	4,509,717
2015	837,290	801,109	1,638,399	910,297	865,991	2,435,959	4,212,247	1,278,241	3,213,129	4,491,370
2016	819,092	801,109	1,620,201	894,458	846,310	2,288,029	4,028,797	1,269,846	3,193,275	4,463,121
2017	797,812	801,109	1,598,921	868,986	822,884	2,191,704	3,883,574	1,252,229	3,151,860	4,404,089
2018	726,404	801,109	1,527,513	834,233	789,919	2,091,346	3,715,498	1,238,544	3,119,564	4,358,108
2019	680,521	801,109	1,481,630	802,008	760,858	2,010,743	3,573,609	1,233,050	3,106,300	4,339,350
2020	672,767	777,864	1,450,631	789,076	748,860	1,975,050	3,512,986	1,230,816	3,100,709	4,331,525
2021	669,312	775,970	1,445,282	785,607	745,672	1,964,451	3,495,730	1,229,307	3,096,918	4,326,225
2022	666,360	774,157	1,440,517	784,545	744,624	1,959,805	3,488,974	1,227,883	3,093,382	4,321,265
2023	665,125	772,290	1,437,415	783,306	743,356	1,954,006	3,480,668	1,226,502	3,089,948	4,316,450
2024	663,836	770,342	1,434,178	782,663	742,523	1,949,475	3,474,661	1,225,597	3,087,623	4,313,220
2025	661,653	767,040	1,428,693	782,508	742,317	1,948,293	3,473,118	1,224,721	3,085,391	4,310,112
2026	657,698	761,060	1,418,758	782,508	742,317	1,948,293	3,473,118	1,120,047	2,834,136	3,954,183
2027	648,843	749,100	1,397,943	782,508	742,317	1,948,293	3,473,118	1,097,498	2,772,671	3,870,169
2028	637,113	733,947	1,371,060	782,508	742,317	1,948,293	3,473,118	1,056,169	2,660,826	3,716,995
2029	597,760	694,224	1,291,984	782,504	742,313	1,948,284	3,473,101	841,016	2,076,870	2,917,886
2030	473,210	577,004	1,050,214	782,479	742,290	1,948,229	3,472,998	616,390	1,448,483	2,064,873
2031	470,673	574,596	1,045,269	782,296	742,121	1,947,829	3,472,246	600,130	1,406,268	2,006,398
2032	470,154	573,812	1,043,966	781,574	741,462	1,946,258	3,469,294	599,191	1,404,077	2,003,268
2033	469,850	573,352	1,043,202	780,878	740,825	1,944,740	3,466,443	598,804	1,403,171	2,001,975
2034	467,769	571,702	1,039,471	780,853	740,802	1,944,687	3,466,342	598,691	1,402,908	2,001,599
2035	467,769	571,702	1,039,471	780,850	740,799	1,944,679	3,466,328	597,063	1,399,000	1,996,063

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-22 (Continued)

TOTAL WATER CHARGES OF EACH CONTRACTOR *

(in dollars)

CALENDAR YEAR	SAN JOAQUIN VALLEY									
	Devil's Den Water District	Dudley Ridge Water District	Empire West Side Irrigation District	Hacienda Water District	Kern County Water Agency		Kings County	Oak Flat Water District	Tulare Lake Basin Water Storage District	Total
					Municipal and Industrial	Agricultural				
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	56,379	0	0	0	0	56,379
1966	0	0	0	0	105,662	0	0	0	0	105,662
1967	0	0	0	0	211,063	0	0	0	0	211,063
1968	86,927	205,634	38,764	25,144	388,223	1,961,762	16,160	22,523	456,293	3,201,430
1969	119,352	195,672	28,919	24,947	481,667	2,692,228	18,523	19,702	401,919	3,982,929
1970	161,045	279,509	39,922	37,126	817,659	3,750,610	24,260	29,972	552,360	5,692,463
1971	178,771	288,253	36,243	38,535	883,754	4,354,770	22,774	28,773	543,664	6,375,537
1972	193,193	303,437	34,498	40,895	906,335	5,466,192	22,923	28,259	554,597	7,550,329
1973	217,062	330,085	34,737	44,898	949,016	6,096,322	23,957	30,220	588,446	8,314,743
1974	232,464	362,030	35,468	50,661	999,982	6,679,122	24,388	32,067	647,176	9,063,358
1975	248,928	387,929	35,491	54,394	1,039,185	7,200,287	25,216	33,950	695,032	9,720,412
1976	284,091	452,617	39,628	63,476	1,147,819	8,410,661	27,450	39,540	812,500	11,277,782
1977	301,002	478,515	39,371	67,225	1,185,031	9,139,610	28,255	41,366	861,815	12,142,190
1978	307,343	512,468	39,871	73,440	1,231,519	10,048,897	30,439	43,865	924,406	13,212,248
1979	304,242	538,488	39,699	77,188	1,263,236	10,785,174	31,252	44,835	972,482	14,056,596
1980	302,827	568,976	39,889	81,572	1,301,261	11,596,684	33,250	47,532	1,028,712	15,000,703
1981	299,079	591,132	39,444	86,103	1,327,367	12,379,366	33,850	47,922	1,069,746	15,874,009
1982	300,898	628,188	40,017	91,248	1,390,596	13,316,832	36,230	50,920	1,135,476	16,990,405
1983	295,536	647,013	39,559	94,338	1,420,573	14,112,967	38,669	51,326	1,175,276	17,875,257
1984	293,540	678,141	39,689	98,629	1,470,187	14,929,040	41,575	53,927	1,230,236	18,834,964
1985	293,797	708,047	39,820	104,274	1,536,196	15,775,928	44,731	55,190	1,285,372	19,843,355
1986	308,938	794,694	43,402	116,868	1,703,714	17,610,938	52,085	63,343	1,445,349	22,139,331
1987	306,856	821,685	43,194	120,741	1,762,216	18,420,972	54,960	64,221	1,495,237	23,090,082
1988	307,024	852,796	43,232	125,217	1,821,874	19,268,212	55,010	66,491	1,552,670	24,092,526
1989	305,890	888,220	43,500	131,790	1,878,360	19,914,726	55,361	69,486	1,618,011	24,905,344
1990	304,763	917,728	43,442	136,030	1,942,982	20,511,696	55,284	70,557	1,736,245	25,718,727
1991	305,048	918,730	43,493	136,178	1,946,878	20,546,318	55,352	70,623	1,738,158	25,760,778
1992	305,030	918,646	43,489	136,165	1,946,703	20,544,802	55,346	70,615	1,737,996	25,758,792
1993	305,014	918,572	43,486	136,154	1,946,560	20,543,485	55,341	70,608	1,737,856	25,757,076
1994	317,608	975,787	46,460	144,583	2,064,562	21,569,206	59,307	76,260	1,846,934	27,100,707
1995	317,601	975,757	46,459	144,578	2,064,499	21,568,657	59,304	76,257	1,846,876	27,099,988
1996	317,597	975,740	46,458	144,576	2,064,464	21,568,361	59,304	76,255	1,846,844	27,099,599
1997	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
1998	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
1999	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2000	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2001	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2002	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2003	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2004	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2005	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2006	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2007	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2008	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2009	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2010	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2011	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2012	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2013	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2014	317,591	975,709	46,456	144,572	2,064,401	21,567,814	59,302	76,252	1,846,786	27,098,883
2015	317,591	975,709	46,456	144,572	2,008,022	21,567,814	59,302	76,252	1,846,786	27,042,504
2016	317,591	975,709	46,456	144,572	1,958,739	21,567,814	59,302	76,252	1,846,786	26,993,221
2017	317,591	975,709	46,456	144,572	1,853,338	21,567,814	59,302	76,252	1,846,786	26,887,820
2018	317,591	975,709	46,456	144,572	1,759,238	21,567,814	51,644	76,252	1,846,786	26,786,062
2019	317,591	975,709	46,456	144,572	1,689,186	21,567,814	50,953	76,252	1,846,786	26,715,319
2020	317,591	975,709	46,456	144,572	1,658,529	21,567,814	50,767	76,252	1,846,786	26,684,476
2021	317,591	975,709	46,456	144,572	1,645,463	21,567,814	50,667	76,252	1,846,786	26,671,310
2022	317,591	975,709	46,456	144,572	1,637,777	21,567,814	50,567	76,252	1,846,786	26,663,524
2023	317,591	975,709	46,456	144,572	1,634,202	21,567,814	50,480	76,252	1,846,786	26,659,862
2024	317,591	975,709	46,456	144,572	1,633,849	21,567,814	50,476	76,252	1,846,786	26,659,905
2025	317,591	975,709	46,456	144,572	1,633,627	21,567,814	50,476	76,252	1,846,786	26,659,283
2026	317,591	975,709	46,456	144,572	1,633,269	21,567,814	50,476	76,252	1,846,786	26,658,925
2027	317,591	975,709	46,456	144,572	1,632,914	21,567,814	50,476	76,252	1,846,786	26,658,570
2028	317,591	975,709	46,456	144,572	1,632,910	21,567,814	50,476	76,252	1,846,786	26,658,566
2029	317,591	975,709	46,456	144,572	1,632,897	21,567,814	50,476	76,252	1,846,786	26,658,553
2030	317,591	975,709	46,456	144,572	1,632,826	21,567,814	50,474	76,252	1,846,786	26,658,480
2031	317,591	975,709	46,456	144,572	1,632,298	21,567,814	50,456	76,252	1,846,786	26,657,934
2032	317,591	975,709	46,456	144,572	1,630,225	21,567,814	50,388	76,252	1,846,786	26,655,793
2033	317,591	975,709	46,456	144,572	1,628,225	21,567,814	50,321	76,252	1,846,786	26,653,726
2034	317,591	975,709	46,456	144,572	1,627,642	21,567,814	50,302	76,252	1,846,786	26,653,124
2035	317,591	975,709	46,456	144,572	1,620,440	21,567,814	50,065	76,252	1,846,786	26,645,685

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-22 (Continued)

TOTAL WATER CHARGES OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA									
	Antelope Valley-East Kern Water Agency	Coachella Valley County Water District	Crestline-Lake Arrowhead Water Agency	Desert Water Agency	Littlerock Creek Irrigation District	Mojave Water Agency	Palmdale Irrigation District	San Bernardino Valley Municipal Water District	San Gabriel Valley Municipal Water District	San Gorgonio Pass Water Agency
	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0
1963	28,047	0	0	0	0	0	0	47,202	0	0
1964	51,583	12,871	3,698	33,413	1,047	25,806	6,866	75,043	31,957	17,994
1965	99,938	22,703	6,334	36,981	1,902	45,900	13,029	124,599	32,658	18,871
1966	185,450	39,983	11,006	65,481	3,370	81,132	23,929	211,350	55,845	32,908
1967	373,139	78,448	21,216	128,929	6,630	159,951	48,145	397,826	106,075	63,439
1968	691,393	144,175	38,921	237,341	12,207	294,052	89,543	735,536	196,595	118,611
1969	1,123,421	236,945	63,713	390,366	19,768	483,201	145,481	1,228,577	328,916	199,232
1970	1,515,385	362,059	100,920	596,736	27,410	730,341	199,648	2,006,586	526,140	312,010
1971	1,721,088	438,270	125,583	722,448	31,648	877,119	229,691	2,520,504	651,512	385,944
1972	2,350,620	643,114	163,159	1,046,473	39,446	1,237,079	293,358	4,098,922	1,029,140	456,420
1973	2,484,606	668,239	173,487	1,088,181	42,525	1,313,225	325,046	4,205,490	1,065,777	466,049
1974	2,603,221	683,740	180,871	1,114,149	45,043	1,373,098	354,307	4,252,880	1,085,180	468,310
1975	2,693,712	693,438	186,853	1,130,815	47,220	1,417,558	378,106	4,275,442	1,095,087	468,994
1976	3,032,448	723,550	197,321	1,179,771	51,024	1,510,126	418,898	4,444,146	1,144,329	471,116
1977	3,197,956	738,573	203,245	1,196,582	52,639	1,556,085	443,198	4,470,414	1,155,098	472,763
1978	3,671,690	765,274	211,957	1,231,649	57,115	1,627,126	471,048	4,611,929	1,198,411	475,134
1979	4,107,529	791,553	220,626	1,265,679	59,842	1,700,315	491,919	4,765,793	1,245,057	476,546
1980	4,211,098	803,178	225,449	1,301,898	61,711	1,733,892	506,184	4,553,996	1,188,815	639,671
1981	4,319,630	826,806	230,930	1,340,989	63,994	1,777,613	514,873	4,569,016	1,194,731	660,012
1982	4,414,254	848,495	235,930	1,376,959	65,662	1,815,044	522,229	4,617,759	1,207,730	678,861
1983	4,579,488	884,694	244,710	1,435,794	68,703	1,889,451	539,976	4,718,161	1,234,529	707,308
1984	4,570,197	882,375	243,550	1,433,552	68,588	1,874,018	532,762	4,680,025	1,221,882	709,456
1985	4,718,175	917,783	252,121	1,491,142	71,318	1,944,436	548,141	4,797,651	1,256,339	737,295
1986	4,965,343	962,233	262,984	1,563,135	75,605	2,037,310	577,461	4,913,423	1,296,245	773,895
1987	5,099,739	987,092	268,842	1,615,282	78,155	2,083,103	590,884	4,988,739	1,322,731	796,816
1988	5,259,888	1,019,772	276,686	1,680,153	80,906	2,146,392	607,461	5,096,109	1,358,166	825,395
1989	5,347,919	1,039,595	281,278	1,723,798	82,585	2,185,640	614,120	5,145,565	1,377,428	844,544
1990	5,464,235	1,061,854	286,462	1,750,996	84,654	2,225,672	625,841	5,218,824	1,400,590	865,286
1991	5,611,017	1,069,756	288,442	1,764,019	84,958	2,243,008	628,160	5,265,932	1,407,895	871,206
1992	5,610,815	1,069,722	288,433	1,763,963	84,955	2,242,934	628,134	5,265,782	1,407,853	871,181
1993	5,610,649	1,069,694	288,426	1,763,918	84,953	2,242,872	628,113	5,265,659	1,407,818	871,160
1994	5,747,889	1,092,601	294,177	1,801,697	87,234	2,293,247	645,268	5,367,399	1,436,376	888,315
1995	5,747,815	1,092,588	294,174	1,801,677	87,233	2,293,221	645,258	5,367,344	1,436,362	888,305
1996	5,747,776	1,092,581	294,173	1,801,666	87,232	2,293,206	645,254	5,367,315	1,436,353	888,300
1997	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
1998	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
1999	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2000	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2001	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2002	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2003	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2004	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2005	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2006	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2007	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2008	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2009	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2010	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2011	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2012	5,747,702	1,092,570	294,169	1,801,646	87,231	2,293,179	645,244	5,367,261	1,436,338	888,291
2013	5,719,655	1,092,570	294,169	1,789,466	87,231	2,293,179	645,244	5,320,059	1,424,251	881,579
2014	5,696,119	1,079,699	290,472	1,780,882	86,184	2,267,373	638,378	5,292,218	1,416,936	877,268
2015	5,647,764	1,069,867	287,836	1,764,665	85,329	2,247,279	632,216	5,242,661	1,403,680	869,420
2016	5,562,253	1,052,588	283,163	1,736,165	83,861	2,212,047	621,316	5,155,910	1,380,493	855,383
2017	5,374,564	1,014,122	272,954	1,672,717	80,601	2,133,228	597,100	4,969,434	1,330,264	824,852
2018	5,145,365	964,401	259,295	1,590,705	76,516	2,032,491	566,884	4,703,312	1,259,451	781,748
2019	4,738,396	876,135	235,640	1,445,114	69,371	1,852,734	514,098	4,230,425	1,132,672	704,533
2020	4,422,551	764,762	201,904	1,261,402	63,000	1,634,113	469,490	3,513,856	952,339	602,108
2021	4,265,258	697,302	179,456	1,150,122	59,575	1,505,476	445,524	3,039,085	837,718	534,777
2022	4,191,958	674,919	171,187	1,113,197	58,257	1,464,582	435,856	2,874,681	797,897	510,248
2023	4,168,930	666,405	168,447	1,099,153	57,819	1,448,214	432,716	2,826,048	785,620	502,585
2024	4,164,485	665,084	168,092	1,096,974	57,766	1,445,527	432,344	2,819,726	783,925	501,543
2025	4,151,306	664,097	167,834	1,095,347	57,695	1,443,510	431,850	2,815,142	782,687	500,780
2026	4,077,388	661,818	167,252	1,091,587	57,530	1,438,812	430,646	2,804,176	779,695	499,051
2027	4,006,792	659,462	166,656	1,087,699	57,353	1,433,944	429,317	2,788,340	775,387	497,274
2028	3,703,707	657,026	166,040	1,083,682	57,272	1,428,910	428,712	2,742,232	762,980	495,437
2029	3,397,487	655,324	165,610	1,080,875	57,140	1,425,392	427,715	2,681,603	746,713	494,154
2030	3,386,753	653,388	165,108	1,077,682	56,968	1,421,415	426,435	2,637,141	734,782	492,668
2031	3,381,119	652,377	164,838	1,076,014	56,882	1,419,351	425,796	2,632,157	733,440	491,875
2032	3,378,826	651,965	164,734	1,075,333	56,844	1,418,492	425,508	2,630,051	732,873	491,549
2033	3,376,680	651,580	164,637	1,074,697	56,808	1,417,689	425,238	2,628,070	732,340	491,244
2034	3,376,056	651,468	164,609	1,074,512	56,797	1,417,455	425,160	2,627,568	732,202	491,160
2035	3,368,338	650,080	164,258	1,072,223	56,668	1,414,563	424,190	2,621,362	730,494	490,114

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-22 (Continued)

TOTAL WATER CHARGES OF EACH CONTRACTOR*

(in dollars)

CALENDAR YEAR	SOUTHERN CALIFORNIA (Continued)				FEATHER RIVER AREA				FUTURE CONTRACTOR, South Bay	GRAND TOTAL
	The Metropolitan Water District of Southern California	Upper Santa Clara Valley Water Agency	Ventura County Flood Control District	Total	City of Yuba City	Butte County	Plumas County FC & WCD	Total		
	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1960	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	73,370
1963	615,138	0	0	690,387	0	0	0	0	51,874	1,441,351
1964	1,091,199	17,139	8,070	1,376,686	0	0	0	0	80,761	2,396,928
1965	1,933,346	33,301	15,675	2,385,237	0	0	346	346	139,826	4,200,257
1966	3,491,383	64,123	29,960	4,295,920	0	0	481	481	162,003	6,506,611
1967	7,004,835	134,680	62,348	8,585,661	0	0	481	481	213,314	11,431,575
1968	14,377,528	291,897	134,616	17,362,415	0	1,050	1,356	2,406	302,330	24,484,145
1969	24,463,053	502,927	230,728	29,416,328	0	1,225	3,224	4,449	385,816	37,773,458
1970	35,094,033	679,470	310,518	42,461,256	0	2,346	6,376	8,722	404,749	53,258,379
1971	43,663,869	991,280	354,852	52,713,808	0	2,639	13,603	16,242	410,586	64,202,840
1972	52,453,984	1,236,813	384,445	65,432,973	0	2,932	13,779	16,711	414,177	78,179,007
1973	54,148,786	1,203,334	384,840	67,569,585	0	3,518	13,955	17,473	419,402	81,191,110
1974	55,484,920	1,203,556	379,649	69,228,924	0	4,105	14,131	18,236	422,932	83,678,421
1975	57,291,448	1,229,687	381,298	71,289,658	0	6,157	14,307	20,464	425,383	86,456,611
1976	60,003,885	1,274,654	383,309	74,834,577	0	10,137	15,295	25,432	427,634	92,164,340
1977	61,885,872	1,289,181	385,446	77,047,052	0	13,033	15,962	28,995	431,139	95,406,134
1978	65,278,162	1,328,990	394,455	81,322,940	0	15,930	17,078	33,008	434,823	100,971,431
1979	69,829,935	1,398,258	409,214	86,762,266	0	18,826	26,377	45,203	434,539	108,131,830
1980	69,567,808	1,351,943	428,210	86,573,853	0	28,963	37,383	66,346	434,534	110,741,889
1981	71,215,629	1,374,906	443,357	88,532,486	30,411	39,462	37,600	107,473	434,515	113,712,309
1982	72,965,310	1,395,121	458,939	90,602,293	33,307	49,961	37,817	121,085	434,828	117,029,376
1983	75,522,141	1,434,659	476,981	93,736,595	36,566	60,460	38,035	135,061	434,996	121,106,956
1984	75,816,222	1,423,455	487,999	93,944,081	39,824	70,959	38,252	149,035	434,930	122,411,275
1985	78,310,692	1,460,217	506,258	97,011,568	43,588	89,741	38,542	171,871	434,590	126,717,695
1986	81,014,988	1,500,177	541,904	100,484,703	58,413	130,102	40,119	228,634	434,048	133,013,380
1987	83,238,946	1,539,101	578,973	103,188,403	64,609	151,786	40,384	256,779	434,014	136,892,101
1988	85,735,058	1,578,993	634,994	106,299,973	70,804	182,320	40,738	293,862	434,010	141,286,154
1989	87,135,011	1,595,509	684,289	108,057,281	77,884	212,855	41,093	331,832	434,010	144,284,078
1990	88,263,085	1,613,002	751,974	109,612,475	84,965	243,389	41,447	369,801	433,999	147,035,817
1991	88,632,210	1,619,499	755,101	110,241,203	84,965	243,389	41,801	370,155	434,006	147,771,341
1992	88,629,260	1,619,438	755,071	110,237,541	84,965	243,389	42,155	370,509	433,931	147,821,373
1993	88,626,857	1,619,389	755,048	110,234,556	84,965	243,389	42,509	370,863	433,928	147,873,405
1994	90,621,480	1,660,540	774,880	112,711,103	94,491	270,678	44,053	409,222	433,928	152,110,645
1995	90,620,414	1,660,518	774,870	112,709,779	94,491	270,678	44,546	409,715	433,928	152,134,824
1996	90,619,837	1,660,506	774,864	112,709,063	94,491	270,678	45,038	410,207	433,928	152,157,001
1997	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	45,530	410,699	433,928	152,180,179
1998	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	46,022	411,191	433,928	152,180,671
1999	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	46,514	411,683	433,928	152,181,163
2000	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	47,105	412,274	433,928	152,181,754
2001	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	47,695	412,864	433,928	152,182,344
2002	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	48,286	413,455	433,928	152,182,935
2003	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	48,876	414,045	433,928	152,183,525
2004	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	49,467	414,636	433,928	152,184,116
2005	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	50,058	415,227	433,928	152,184,707
2006	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	50,747	415,916	433,928	152,185,396
2007	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	51,436	416,605	433,928	152,186,085
2008	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	52,125	417,294	433,928	152,186,774
2009	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	52,814	417,983	433,928	152,187,463
2010	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	53,503	418,672	433,928	152,188,152
2011	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	54,290	419,459	433,928	152,188,939
2012	90,618,772	1,660,485	774,853	112,707,741	94,491	270,678	55,077	420,246	433,928	152,189,726
2013	90,003,634	1,660,485	774,853	111,986,375	94,491	270,678	55,963	421,132	393,672	150,924,840
2014	89,527,572	1,643,345	766,783	111,363,229	94,491	270,678	56,849	422,018	364,483	150,023,832
2015	88,685,426	1,627,184	759,177	110,322,504	94,491	270,678	57,488	422,657	320,711	148,450,392
2016	87,127,389	1,596,362	744,893	108,411,823	94,491	270,678	58,337	423,506	301,774	146,242,443
2017	83,613,937	1,525,805	712,505	104,122,083	94,491	270,678	58,337	423,506	264,105	141,584,098
2018	77,571,698	1,395,558	653,234	97,000,658	94,491	270,678	58,337	423,506	190,918	134,002,263
2019	67,866,450	1,192,116	560,776	85,418,460	94,491	270,678	56,539	421,708	119,782	122,069,858
2020	58,400,368	1,038,622	492,095	73,816,610	94,491	270,678	54,201	419,370	104,655	110,320,253
2021	52,050,841	952,352	454,825	66,172,311	94,491	270,678	49,796	414,965	101,512	102,627,335
2022	50,380,138	935,181	447,973	64,056,074	94,491	270,678	49,796	414,965	100,912	100,486,231
2023	50,108,955	934,651	448,958	63,648,501	94,491	270,678	49,796	414,965	100,304	100,058,165
2024	50,503,746	946,979	455,202	64,041,393	94,491	270,678	49,796	414,965	99,783	100,437,705
2025	50,345,920	943,296	453,745	63,853,209	94,491	270,678	49,796	414,965	99,647	100,239,027
2026	50,140,209	939,477	451,959	63,539,600	94,491	270,678	49,796	414,965	99,647	99,559,196
2027	49,871,609	935,221	449,907	63,158,961	94,491	270,678	49,346	414,515	99,647	99,072,923
2028	48,490,258	917,447	441,351	61,375,054	94,491	270,678	48,446	413,615	99,647	97,108,055
2029	46,474,874	888,361	427,343	58,922,591	94,491	270,678	39,365	404,534	99,645	93,768,294
2030	45,414,891	880,178	423,400	57,770,809	94,491	270,678	28,576	393,745	99,636	91,510,755
2031	45,324,995	880,000	423,314	57,662,158	94,491	270,678	28,576	393,745	99,570	91,337,320
2032	45,280,902	879,327	422,990	57,609,394	94,491	270,678	28,576	393,745	99,310	91,274,770
2033	45,242,887	878,678	422,677	57,563,225	94,491	270,678	28,576	393,745	99,059	91,221,375
2034	45,233,562	878,488	422,586	57,551,623	94,491	270,678	28,576	393,745	99,050	91,204,954
2035	45,118,245	876,151	421,460	57,408,146	94,491	270,678	28,576	393,745	99,049	91,048,487

* Unadjusted for prior overpayments or underpayments of charges.

TABLE B-23

EQUIVALENT UNIT CHARGES FOR WATER SUPPLY

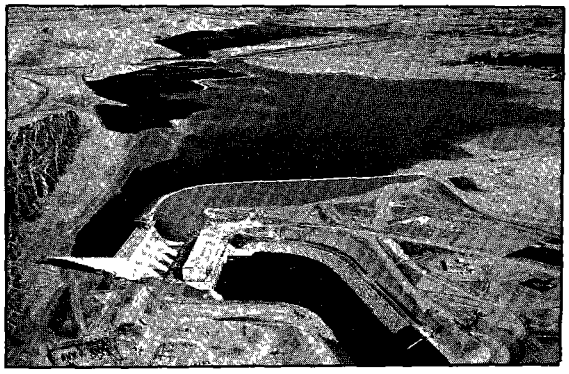
(in dollars per acre-foot of entitlement)

PROJECT SERVICE AREA AND WATER SUPPLY CONTRACTOR	TRANSPORTATION CHARGE			Total	DELTA WATER CHARGE	TOTAL EQUIVALENT UNIT CHARGE
	Capital Cost Component	Minimum OMP&R Component	Variable OMP&R Component			
	(1)	(2)	(3)	(4)	(5)	(6)
UPPER FEATHER AREA						
City of Yuba	0.00	0.00	0.00	0.00	9.29	9.29
County of Butte	0.00	0.00	0.00	0.00	9.31	9.31
Plumas County Flood Control and Water Conservation District	18.73	1.63	0.00	20.36	8.82	29.18
Total, Upper Feather Area	1.04	0.09	0.00	1.13	9.27	10.40
NORTH BAY AREA						
Napa County Flood Control and Water Conservation District	17.33	7.96	3.00	28.29	7.83	36.12
Solano County Flood Control and Water Conservation District	7.40	4.67	0.19	12.26	9.42	21.68
Total, North Bay Area	11.85	6.15	1.45	19.45	8.72	28.17
SOUTH BAY AREA						
Alameda County Flood Control and Water Conservation District, Zone 7	9.91	6.16	4.17	20.24	8.65	28.89
Alameda County Water District	10.45	6.02	4.67	21.14	8.23	29.37
Santa Clara County Flood Control and Water District	14.06	6.60	4.57	25.23	7.82	33.05
Total, South Bay Area	12.56	6.40	4.52	23.48	8.06	31.54
SAN JOAQUIN VALLEY AREA						
Devil's Den Water District	7.25	5.10	3.77	16.12	8.05	24.17
Dudley Ridge Water District	4.02	1.79	1.83	7.64	8.40	16.04
Empire West Side Irrigation District	2.60	1.18	1.99	5.77	7.44	13.21
Hacienda Water District	4.13	1.84	1.81	7.78	8.49	16.27
Kern County Water Agency	6.54	2.92	2.33	11.79	8.69	20.48
Kings County	2.96	1.34	1.82	6.12	8.51	14.63
Oak Flat Water District	1.65	0.91	1.20	3.76	8.10	11.86
Tulare Lake Basin Water Storage District	3.92	1.76	1.84	7.52	8.39	15.91
Total, San Joaquin Valley Area	6.14	2.77	2.27	11.18	8.63	19.81
CENTRAL COASTAL AREA						
San Luis Obispo County Flood Control and Water Conservation District	39.78	10.40	8.62	58.80	9.51	68.31
Santa Barbara County Flood Control and Water Conservation District	45.56	10.93	8.60	65.09	9.50	74.59
Total, Central Coastal Area	43.77	10.76	8.60	63.13	9.50	72.63
SOUTHERN CALIFORNIA AREA						
Antelope Valley-East Kern Water Agency	22.89	4.24	12.15	39.28	8.91	48.19
Coachella Valley County Water District	27.19	6.55	14.40	48.14	8.87	57.01
Crestline-Lake Arrowhead Water Agency	32.14	6.90	14.33	53.37	8.93	62.30
Desert Water Agency	27.61	6.65	14.37	48.63	8.90	57.53
Littlerock Creek Irrigation District	19.49	4.70	12.11	36.30	8.95	45.25
Mojave Water Agency	24.25	6.05	14.40	44.70	8.87	53.57
Palmdale Irrigation District	17.57	4.24	12.22	34.03	8.83	42.86
San Bernardino Valley Municipal Water District	33.65	6.64	11.97	52.26	8.67	60.93
San Gabriel Valley Municipal Water District	31.73	6.60	11.86	50.19	8.72	58.91
San Gorgonio Pass Water Agency	38.05	7.96	13.94	59.95	9.23	69.18
The Metropolitan Water District of Southern California	31.25	5.37	9.09	45.71	8.89	54.60
Upper Santa Clara Valley Water Agency	22.90	3.86	8.61	35.37	8.57	43.94
Ventura County Flood Control District	33.72	6.01	8.10	47.83	9.47	57.30
Total, Southern California Area	30.46	5.41	9.71	45.58	8.88	54.46
TOTAL, ALL AREAS	21.04	4.62	6.73	32.39	8.76	41.15

Note: The equivalent transportation unit charge is herein defined as that rate which when applied to each acre-foot of delivery during the project repayment period will produce a sum at the end of the period equivalent to those total charges required under a water supply contract, with interest accounted for at the project interest rate.

APPENDIX C

DESCRIPTION AND STATUS



CONSTRUCTION PROGRESS AND SERVICE AREA DELIVERY DATES

GENERAL CONTRACTS
$16,015,000
12%
88%

THERMALITO FOREBAY
AND POWERPLANT

UPPER FEATHER AREA
$19,489,000
58%
41%
1%

OROVILLE AREA
$332,399,000
55%
45%

1968

NORTH SAN JOAQUIN DIVISION
$111,644,000
8%
28%
64%

PERIPHERAL
CANAL

1968

MIDDLE FORK EEL RIVER
DEVELOPMENT

1980

1962

1965

1968

13%
6%
81%

NORTH BAY AQUEDUCT
$8,166,000

1%
44%
55%

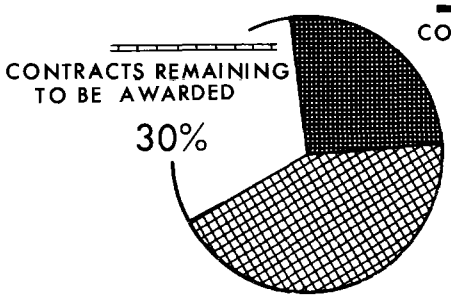
SOUTH BAY AQUEDUCT
$44,062,000

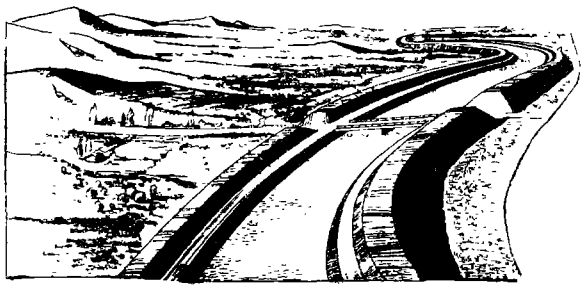
70%
30%

SAN LUIS DIVISION
$229,783,000

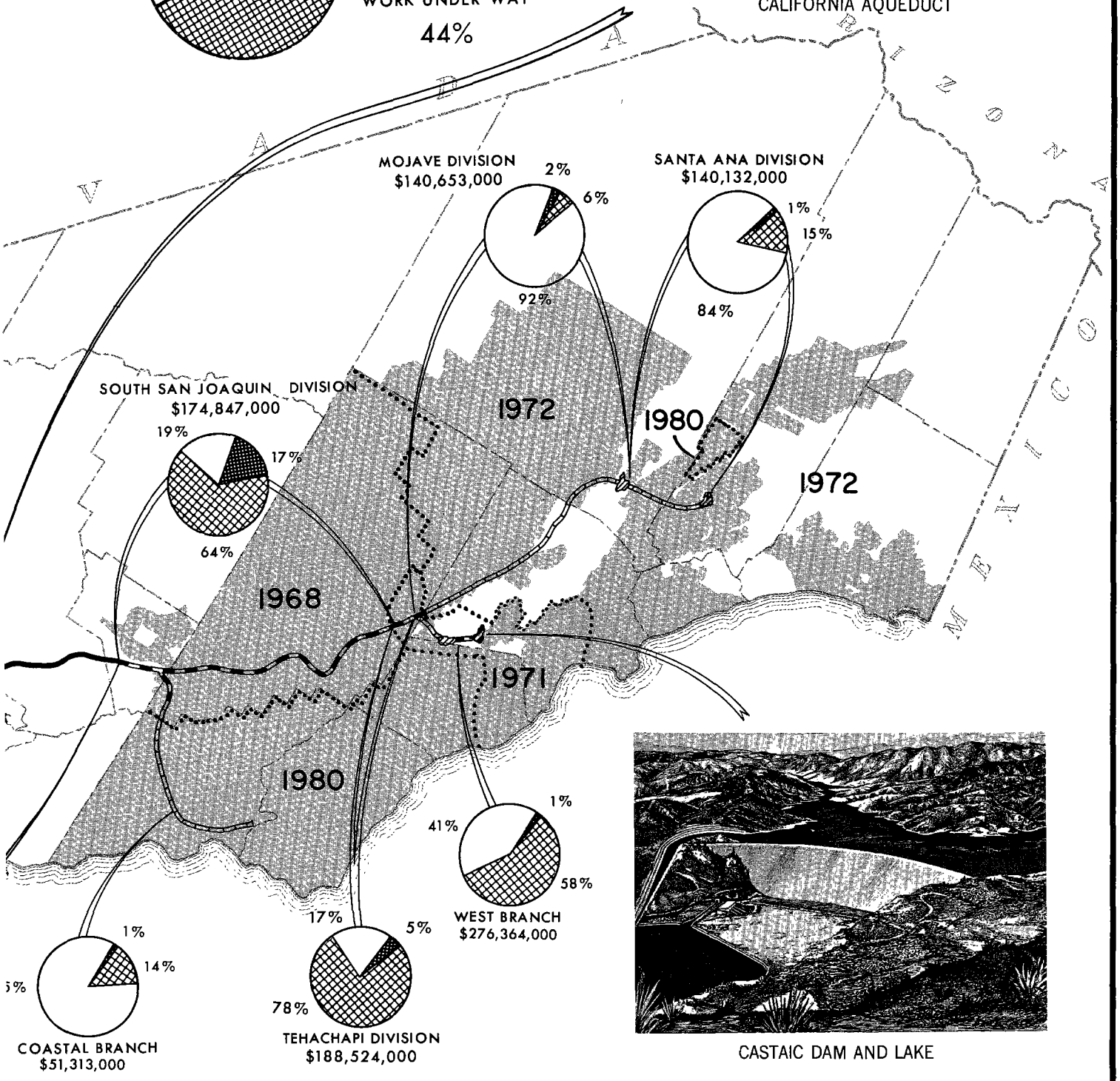
TOTAL , STATE WATER PROJECT

$1,733,391,000





CALIFORNIA AQUEDUCT



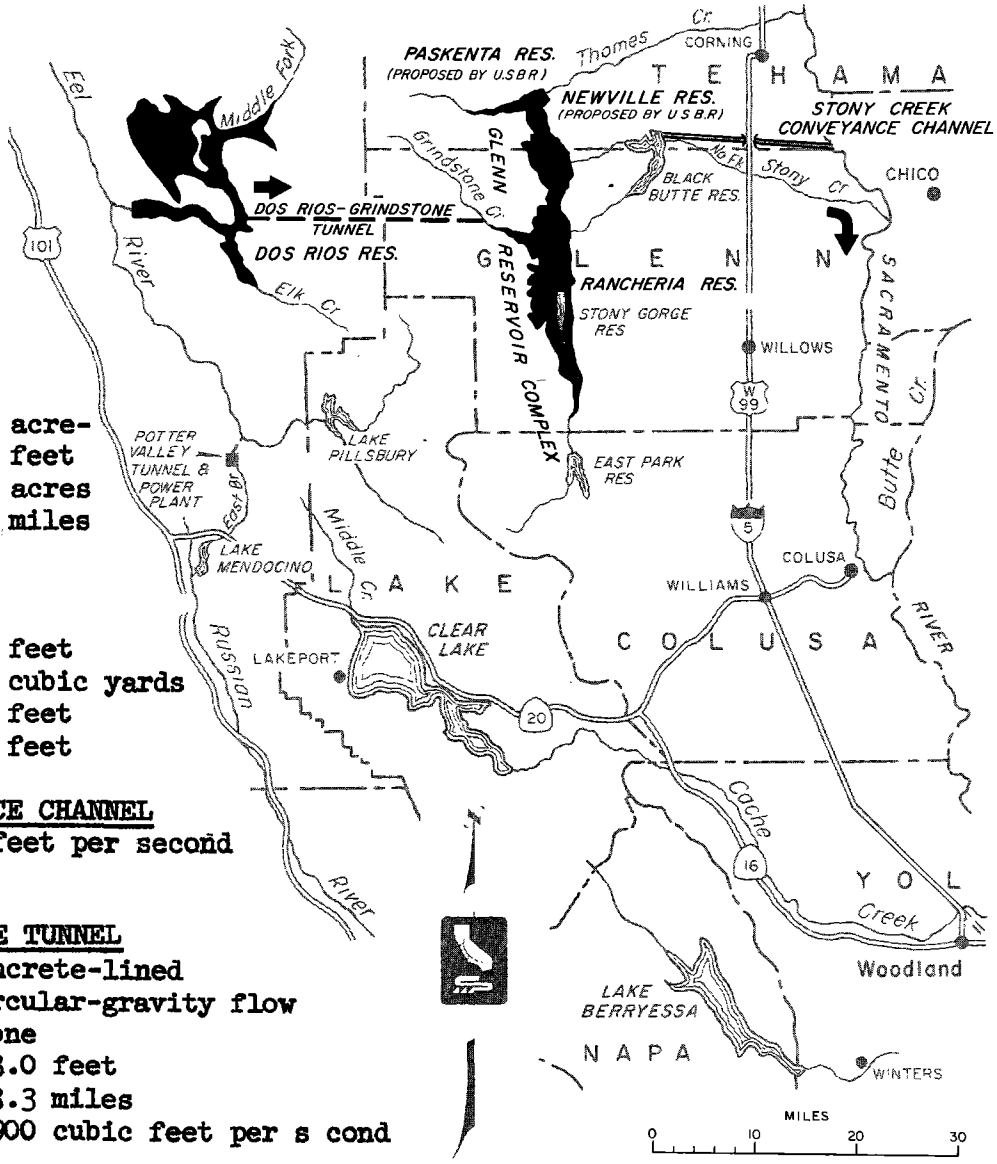
CASTAIC DAM AND LAKE

MIDDLE FORK EEL RIVER DEVELOPMENT

Additional conservation facilities will be needed to maintain the water yield of the Project as growing water uses within the Sacramento Valley continue to reduce surplus water flowing to the Sacramento-San Joaquin Delta. The initial need for additional water from the North Coastal area to augment supplies in the Delta is estimated to occur in about the mid-1980's.

Under the current plan, Middle Fork Eel River water would be stored in Dos Rios Reservoir (proposed for construction by the Corps of Engineers), and conveyed by gravity to the Sacramento Vall y through the Dos Rios-Grindstone Tunnel. The Eel River water would flow through the Stony Creek Conveyance Channel to the Sacramento River and on to the Delta.

One or more elements of the Glenn Reservoir Complex may be included in the plan in the future.



DOS RIOS RESERVOIR

Gross capacity	7,600,000	acre-feet
Surface area	40,000	acres
Shoreline	200	miles

DOS RIOS DAM

Type	Earthfill	
Height	730	feet
Volume	36,600,000	cubic yards
Crest elevation 1/	1,650	feet
Cr st length	2,100	feet

STONY CREEK CONVEYANCE CHANNEL

Capacity	2,000 cubic feet per second
Lined canal	15 miles

DOS RIOS-GRINDSTONE TUNNEL

Type	Concrete-lined circular-gravity flow
Numb r of barrels	one
Inside diameter	13.0 feet
Length	23.3 miles
Capacity	1,900 cubic feet per s cond

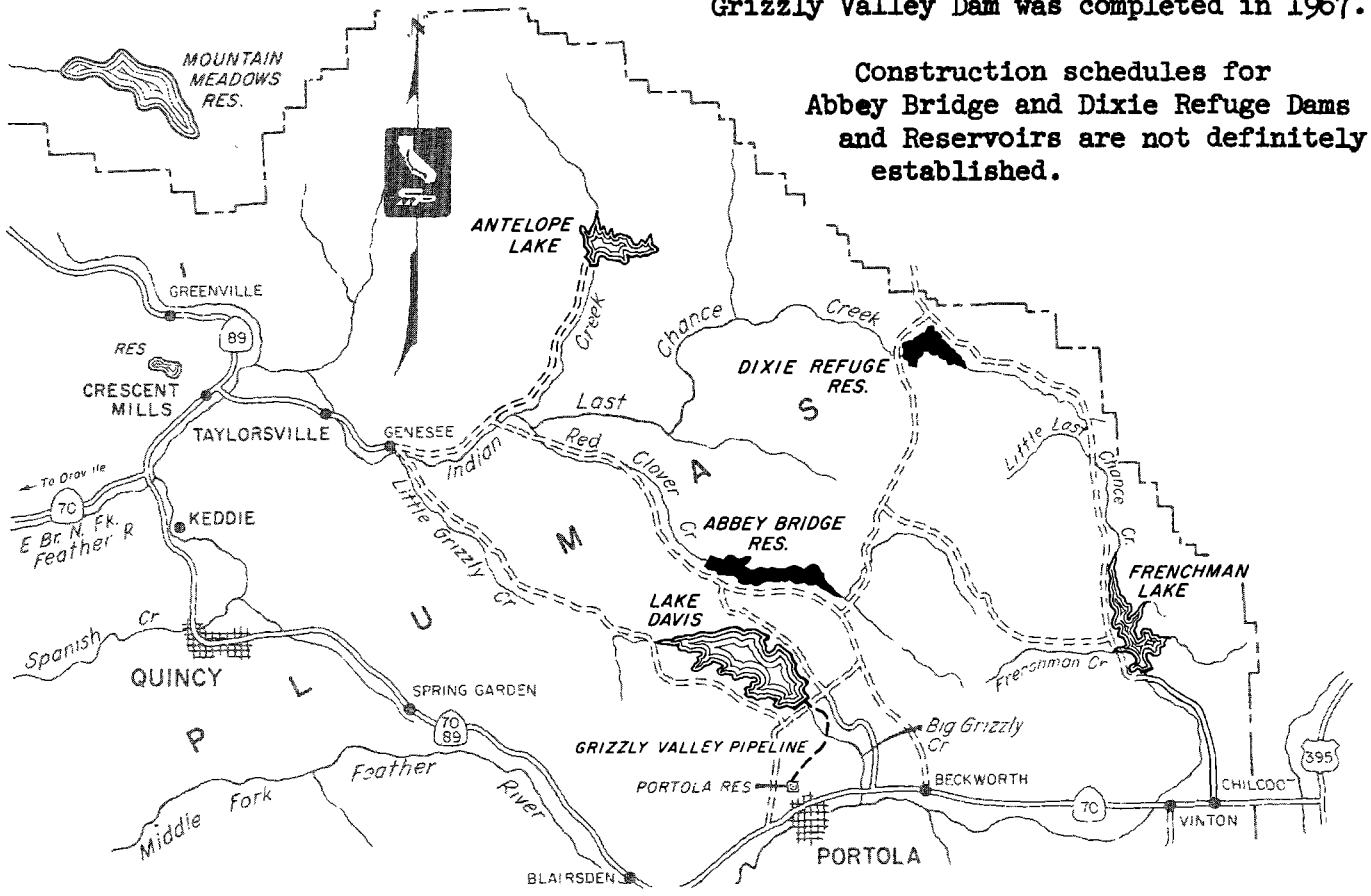
1/ Above sea level.

UPPER FEATHER AREA

Each of the five dams and reservoirs in the Upper Feather Area will be used primarily for recreation purposes. Grizzly Valley unit also includes the proposed Grizzly Valley Pipeline to convey water conserved in Lake Davis to the City of Portola. Frenchman Lake unit supplies water for agricultural use.

Frenchman Dam was completed in 1961, Antelope Dam was completed in 1964, and Grizzly Valley Dam was completed in 1967.

Construction schedules for Abbey Bridge and Dixie Refuge Dams and Reservoirs are not definitely established.



Reservoirs	FRENCHMAN LAKE	ANTELOPE LAKE	LAKE DAVIS	ABBEY BRIDGE	DIXIE REFUGE
Gross capacity, acre-feet	55,400	22,513	84,151	45,000	16,000
Dead storage, acre-feet	1,840	500	90	1,750	500
Surface area, acres	1,580	930	4,000	1,950	900
Shoreline, miles	21	15	32	21	15

Dams Type	FRENCHMAN Earthfill	ANTELOPE Earthfill	GRIZZLY VALLEY Zone earth & rockfill	ABBEY BRIDGE Earthfill	DIXIE REFUGE Earthfill
Height, feet	139	105	115	110	100
Volume, cubic yards	536,000	380,000	230,000	500,000	400,000
Crest elevation, feet 1/	5,607	5,025	5,785	5,468	4,754
Crest length, feet	720	1,320	800	1,150	1,050
Base width, feet	620	500	600	520	480
Spillway capacity, cubic feet per second	15,000	23,400	2,420	33,000	15,000

1/ Above sea level.

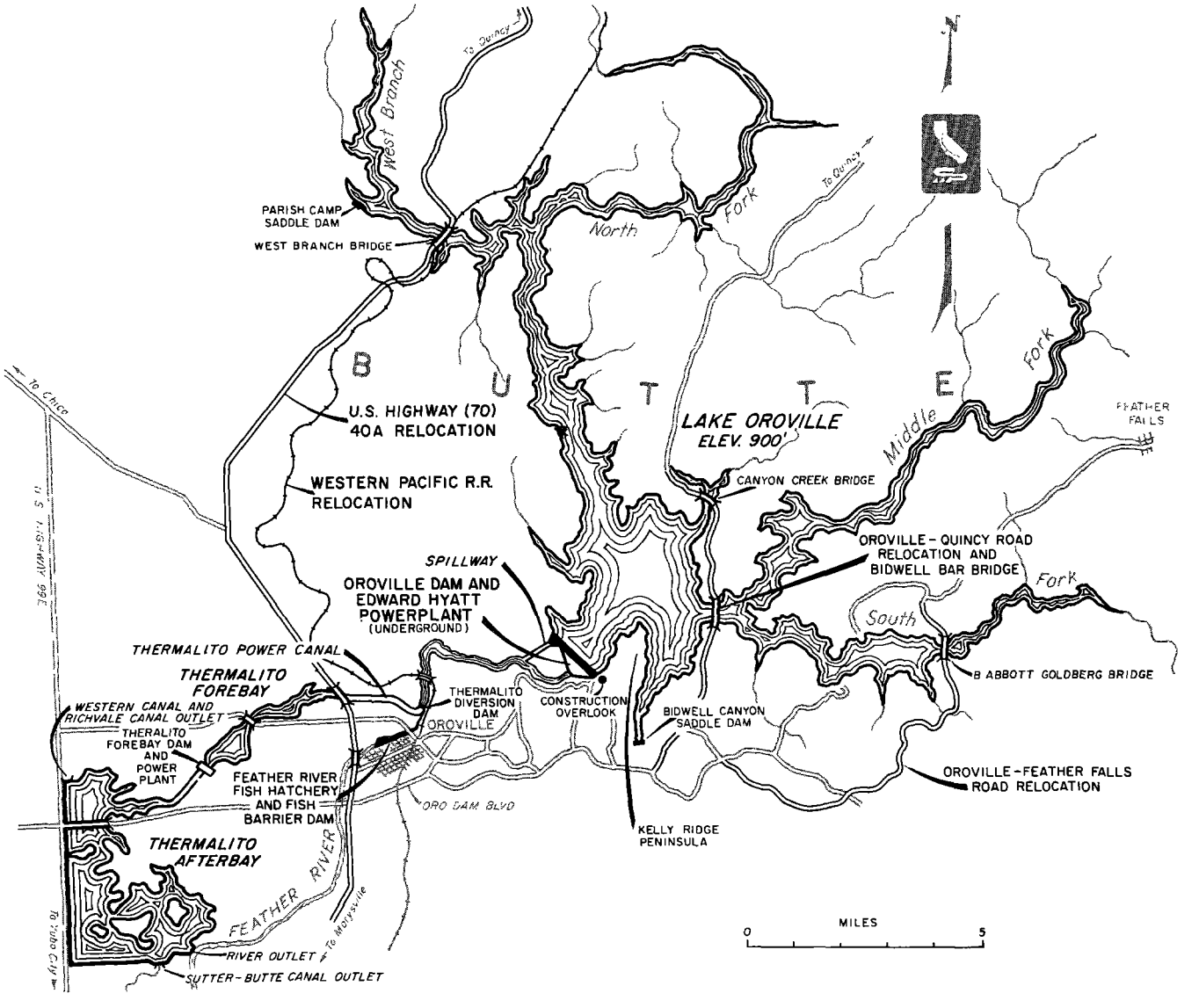
OROVILLE

The Oroville-Thermalito facilities will serve the purposes of water supply, power generation, flood control, recreation, and fish and wildlife enhancement. During periods of onpeak power generation, wat r released from Edward Hyatt Powerplant will be diverted to the Thermalito facilities by the Diversion Dam and conveyed through the Power Canal, Forebay, and Powerplant into the Afterbay. Water in Thermalito Afterbay will be pumped back to Lake Oroville during offpeak power periods for reuse during onpeak generation periods.

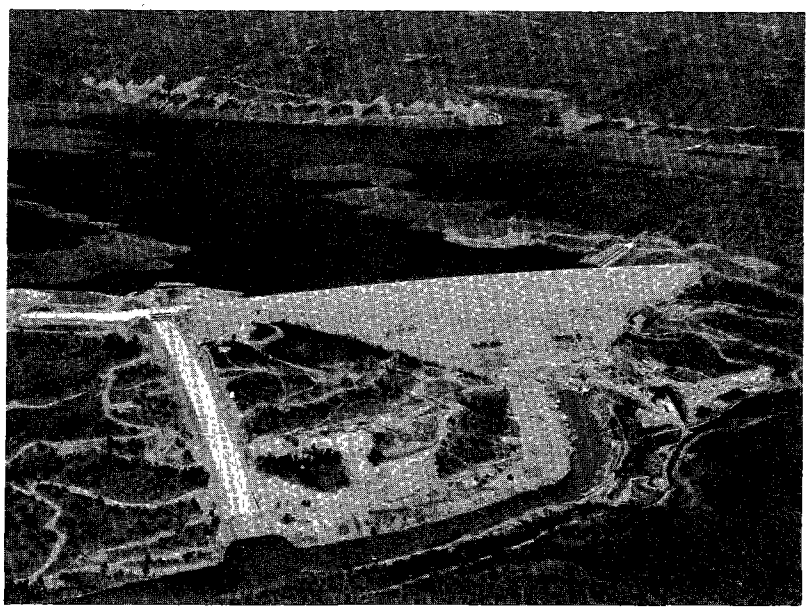
The Feather River Fish Barrier Dam will divert migrating salmon and steelhead into the Feather River Fish Hatchery. During 1968, more than 865,000 fish were "planted" in Lake Oroville.

Recreation facilities are being planned for three initial construction areas within the Oroville-Thermalito complex. These areas will provid for picnicking and boating. Seven and on - half miles of riding and hiking trails and a boat launching ramp are now in use.

Placement of Oroville Dam embankment was completed in October 1967. Six weeks later the final diversion tunnel was closed, and water storage began. The Dam was dedicated on May 4, 1968. By April 1969, all six units in the underground Edward Hyatt Powerplant will be ready for full generation of commercial power.



AREA



Oroville Dam and Lake Oroville

Powerplants	EDWARD HYATT	THERMALITO
Number of units	6 (3 reversible)	4 (3 reversible)
Installed capacity, kilowatts	644,250	115,100
Annual output, kilowatt-hours[1]	2,475,000,000	383,000,000
Pump Operation		
Static head, feet	675	102
Capacity, cubic feet per second	5,600	9,000
Annual energy requirements, kilowatt-hours	465,000,000	91,000,000

THERMALITO POWER CANAL

Capacity 17,000 cubic feet per second
Length 2.5 miles

Reservoirs	LAKE OROVILLE	THERMALITO DIVERSION	THERMALITO FOREBAY	THERMALITO AFTERBAY
Gross capacity, acre-feet	3,538,000	13,400	11,400	57,000
Surface area, acres	15,800	330	600	4,550
Shoreline, miles	167	10	10	26

Dams	OROVILLE	THERMALITO DIVERSION	THERMALITO FOREBAY	THERMALITO AFTERBAY
Type	Zoned Earthfill	Concrete Gravity	Earthfill	Earthfill
Height, feet	770	161.5	71	37
Volume, cubic yards	80,000,000	154,000	1,580,000	5,038,000
Crest elevation, feet[2]	922	250	231	142
Crest length, feet	6,920	1,300	15,900	41,600
Base width, feet	3,500	114	390	246
Spillway capacity, cubic feet per second	646,000	646,000	10,000	None

Subsidiary Dams	PARISH CAMP SADDLE	BIDWELL CANYON SADDLE	FEATHER RIVER FISH BARRIER
Type	Earthfill	Earthfill	Concrete gravity
Height, feet	27	47	75
Volume, cubic yards	11,000	175,000	11,823
Crest elevation, feet[2]	922	922	181
Crest length, feet	260	2,270	600

1/ Under full project d velopment.
2/ Above sea level.

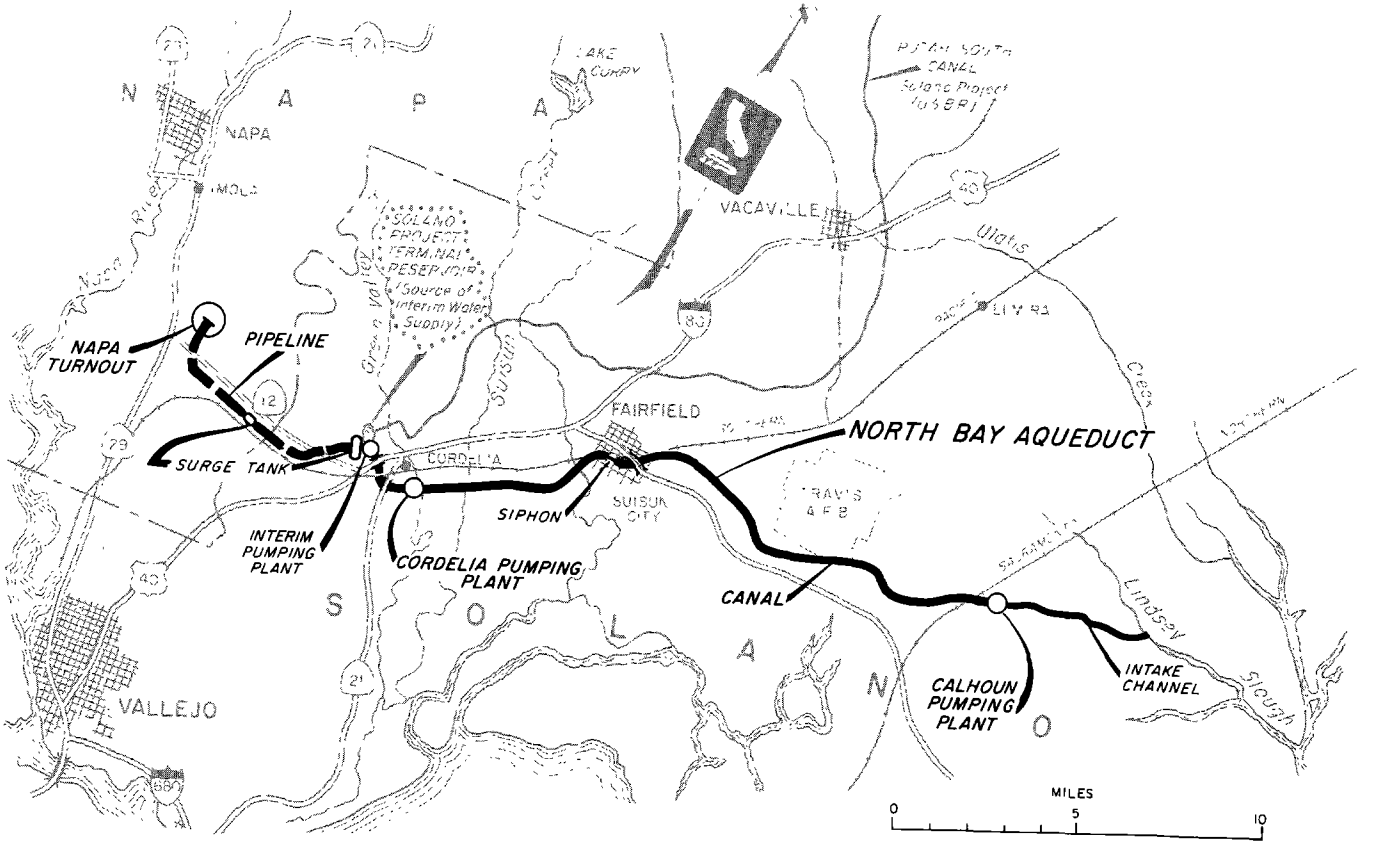
NORTH BAY AQUEDUCT

The North Bay Aqueduct will transport water from the Delta for municipal and industrial uses in Solano and Napa Counties.

Water will be diverted at Lindsey Slough, lifted about 34 feet in the Calhoun Pumping Plant, and conveyed through a canal to the Cordelia Pumping Plant. There the water will be lifted an additional 380 feet and delivered through a six-mile pipeline to a terminus in Napa County.

The Aqueduct is being constructed in two phases. Phase I construction consists of the six-mile pipeline and an interim pumping plant and discharge line that connects with the federal Solano Project terminal reservoir near Cordelia. Phase II construction includes the Calhoun and Cordelia Pumping Plants and the aqueduct between the Delta and Cordelia.

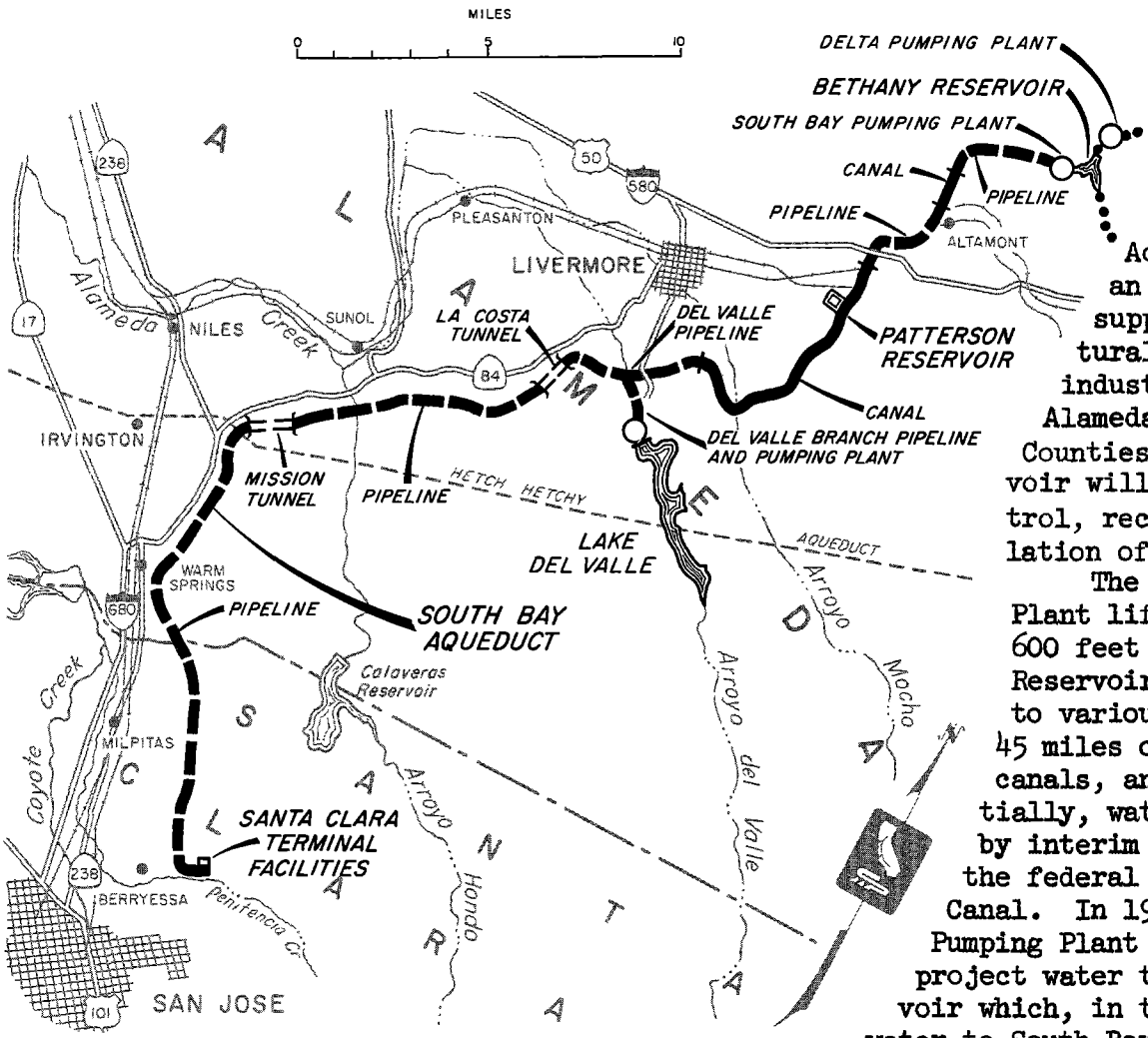
Phase I construction is essentially complete. Initial water deliveries commenced to Napa County from a Solano Project supply in April 1968. Completion of Phase II construction is scheduled so as to permit initial water deliveries from the Delta in 1980.



Aqueduct	
Capacity	117 to 46 cubic feet per second
Unlined canal	18.1 miles
Pipeline	6.5 miles
Channel	3.8 miles
Total length	28.4 miles

Pumping Plants	INTERIM	CALHOUN	CORDELIA
Number of units	4	6	7
Capacity, cubic feet per second	23	110	48
Static head, feet	316	34	380
Maximum annual energy requirements, kilowatt-hours	N/A	3,000,000	19,000,000

SOUTH BAY AQUEDUCT



The South Bay Aqueduct provides an additional water supply for agricultural, municipal, and industrial uses in Alameda and Santa Clara Counties. Del Valle Reservoir will provide flood control, recreation, and regulation of water deliveries.

The South Bay Pumping Plant lifts water about 600 feet from Bethany Reservoir and conveys it to various turnouts along 45 miles of pipelines, canals, and tunnels. Initially, water was supplied by interim facilities from the federal Delta-Mendota Canal. In 1968, the Delta Pumping Plant began to pump project water to Bethany Reservoir which, in turn, supplied water to South Bay Pumping Plant. Del Valle Dam was completed in November 1967, and Del Valle Pumping Plant and Branch Pipeline will be operational early in 1969. Installation of the final three pump units, now underway, will complete work at South Bay Pumping Plant. The aqueduct is now being operated by remote control from the Delta Operations and Maintenance Center.

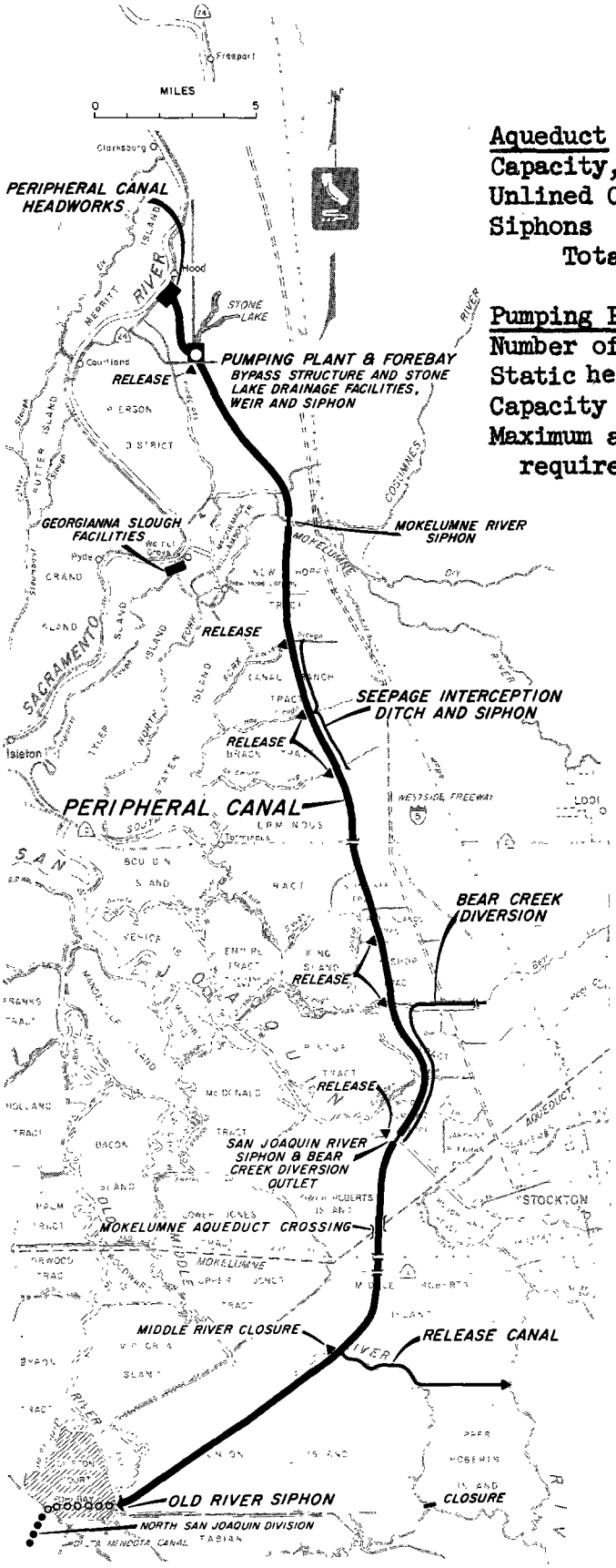
Aqueduct	
Capacity	363 to 184 cubic feet per second
Pipeline	32.2 miles
Concrete-lined canal	11.1 miles
Tunnels	1.5 miles
Channel and reservoir	5.9 miles
Total length	50.7 miles

Pumping Plants	SOUTH BAY	DEL VALLE
Number of units	9	4
Capacity, cubic feet per second	330	120
Static head, feet	545	38
Maximum annual energy requirements, kilowatt-hours	131,000,000	9,000,000

Reservoirs	DEL VALLE	PATTERSON
Gross Capacity, acre-feet	77,000	100
Surface area, acres	715	4.2
Shoreline, miles	16	0.3

Dams	DEL VALLE	PATTERSON
Type	Earthfill	Earthfill
Height, feet	223	29

PERIPHERAL CANAL



Aqueduct

Capacity,	21,800 to 18,300 cubic feet per second
Unlined Canal	42 miles
Siphons	1 mile
Total length	43 miles

Pumping Plants

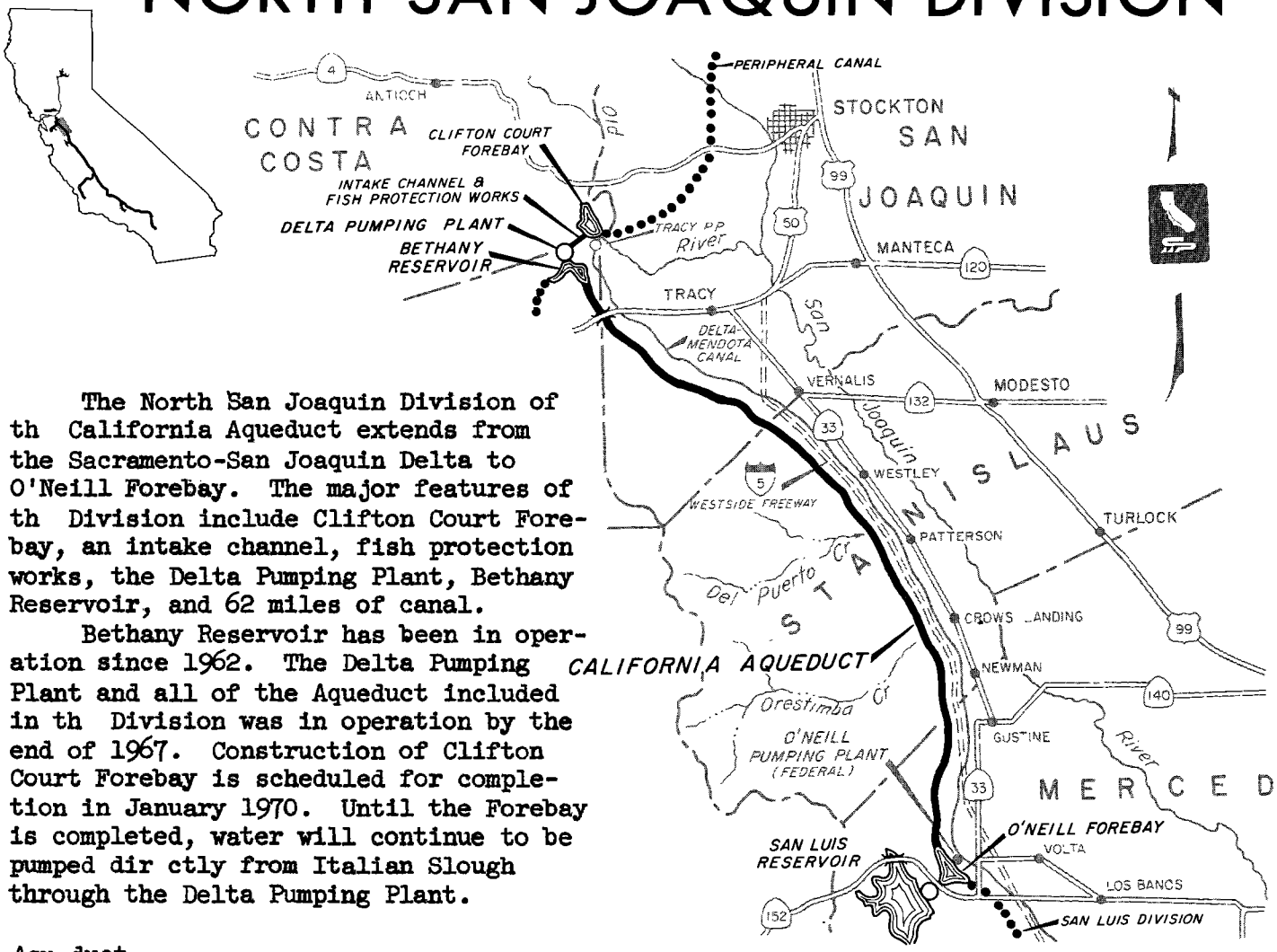
Number of units	15
Static head	13 feet
Capacity	21,800 cubic feet per second
Maximum annual energy requirements	48,000,000 kilowatt-hours

The Peripheral Canal is a planned state-federal Delta link for both the State Water Project and the federal Central Valley Project. The Canal will convey surplus water from the Sacramento River to pumping plants in the southern Delta and will serve and protect the Delta proper.

The Canal will be over 400 feet wide at maximum water surface and about 30 feet deep. The Canal will include an intake and fish screen structure located on the Sacramento River about 20 miles below Sacramento, followed by a low-lift pumping plant. The Canal will be routed to the west of Stockton, then continue southwesterly across the southern Delta to terminate at Clifton Court Forebay. The Canal will be siphoned beneath the channels of the Mokelumne, San Joaquin, and Old Rivers to allow passage of flood flows, fish migration, and navigation. Purchase of Canal right-of-way will be coordinated with that of the Westside Freeway (Interstate 5) and highway fill material will be excavated from the Canal alignment, where feasible.

Construction is scheduled to commence in 1971 in order for the Canal to be operational in 1976.

NORTH SAN JOAQUIN DIVISION



The North San Joaquin Division of th California Aqueduct extends from the Sacramento-San Joaquin Delta to O'Neill Forebay. The major features of th Division include Clifton Court Forebay, an intake channel, fish protection works, the Delta Pumping Plant, Bethany Reservoir, and 62 miles of canal.

Bethany Reservoir has been in operation since 1962. The Delta Pumping Plant and all of the Aqueduct included in th Division was in operation by the end of 1967. Construction of Clifton Court Forebay is scheduled for completion in January 1970. Until the Forebay is completed, water will continue to be pumped dir ctly from Italian Slough through the Delta Pumping Plant.

Aqu duct	
Capacity	10,300 to 10,000 cubic feet per second
Concret -lined canal	62.4 miles
Channel and reservoir	4.7 miles
Total length	67.1 miles

DELTA PUMPING PLANT

Number of units	11
Capacity	10,300 cubic feet per second
Static h ad	244 feet
Maximum annual energy r quirem nts	1,317,000,000 kilowatt-hours

Reservoirs	BETHANY	CLIFTON COURT
Gross capacity, acre-feet	4,800	30,000
Surface area, acres	161	2,200
Shoreline, miles	5	8

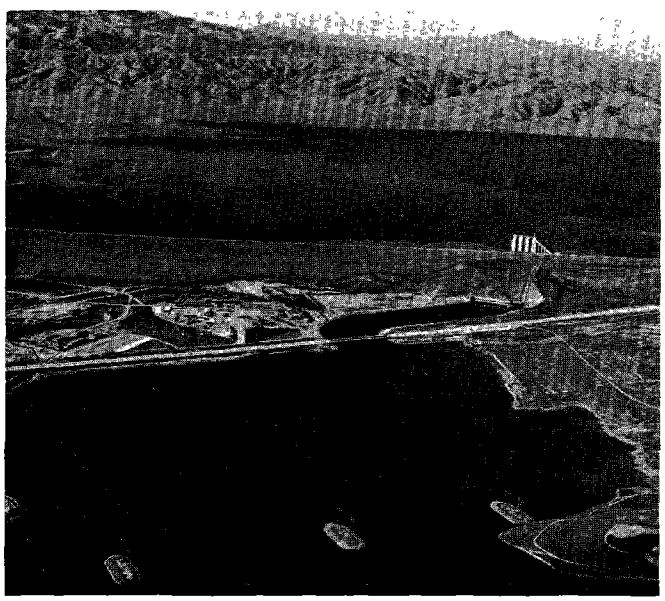
Dams	BETHANY	CLIFTON COURT
Type	Earthfill	Earthfill
H ight, feet	80	N/A
Volume, cubic yards	1,040,000	2,440,000
Crest elevation, feet 1/	250	14
Crest length, feet	3,240	36,500
Base width, feet	540	N/A

1/ Abov sea level.

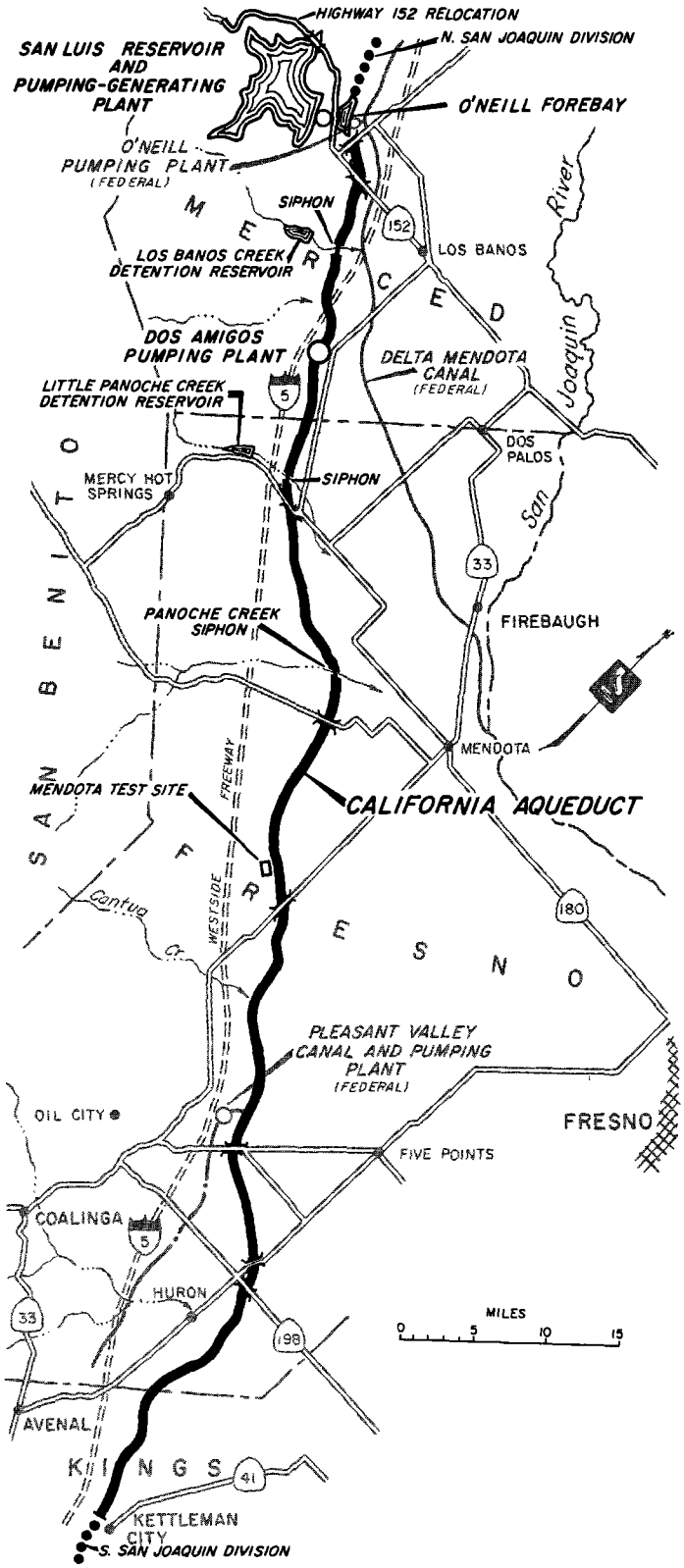
SAN LUIS

The San Luis Division comprises those facilities of the San Luis Unit of the federal Central Valley Project that will be jointly used by the State Water Project. The canal will be protected from floods occurring in Los Banos Creek and Little Panoche Creek by embankment dams which create detention reservoirs on each creek. Surplus water, originating in the Delta, will be pumped a maximum of 320 feet from O'Neill Forebay, through the Pumping-Generating Plant, and conserved in San Luis Reservoir. Power will be generated by water released from the reservoir.

Construction of all main features of the Division is complete. As of April 1, 1968, five pump units were operational at Dos Amigos Pumping Plant; the remaining three units were being tested prior to service.



O'Neill Forebay (foreground) and San Luis Dam and Reservoir



DIVISION

Aqueduct	
Capacity[1]	7,100 to 7,050 cubic feet per second
Concrete-lined canal	103.5 miles
Channel and reservoir	2.2 miles
Total length	105.7 miles

SAN LUIS PUMPING-GENERATING PLANT

Number of units	8 (all reversible)
Installed capacity	424,000 kilowatts
Annual output[2]	119,000,000 kilowatt-hours

Pumping Operation	
Static head	327 feet
Capacity	11,000 cubic feet per second
Maximum annual energy requirements	153,000,000 kilowatt-hours

DOS AMIGOS PUMPING PLANT

Number of units	6
Capacity	13,200 cubic feet per second
Static head	122 feet
Maximum annual energy requirements	710,000,000 kilowatt-hours

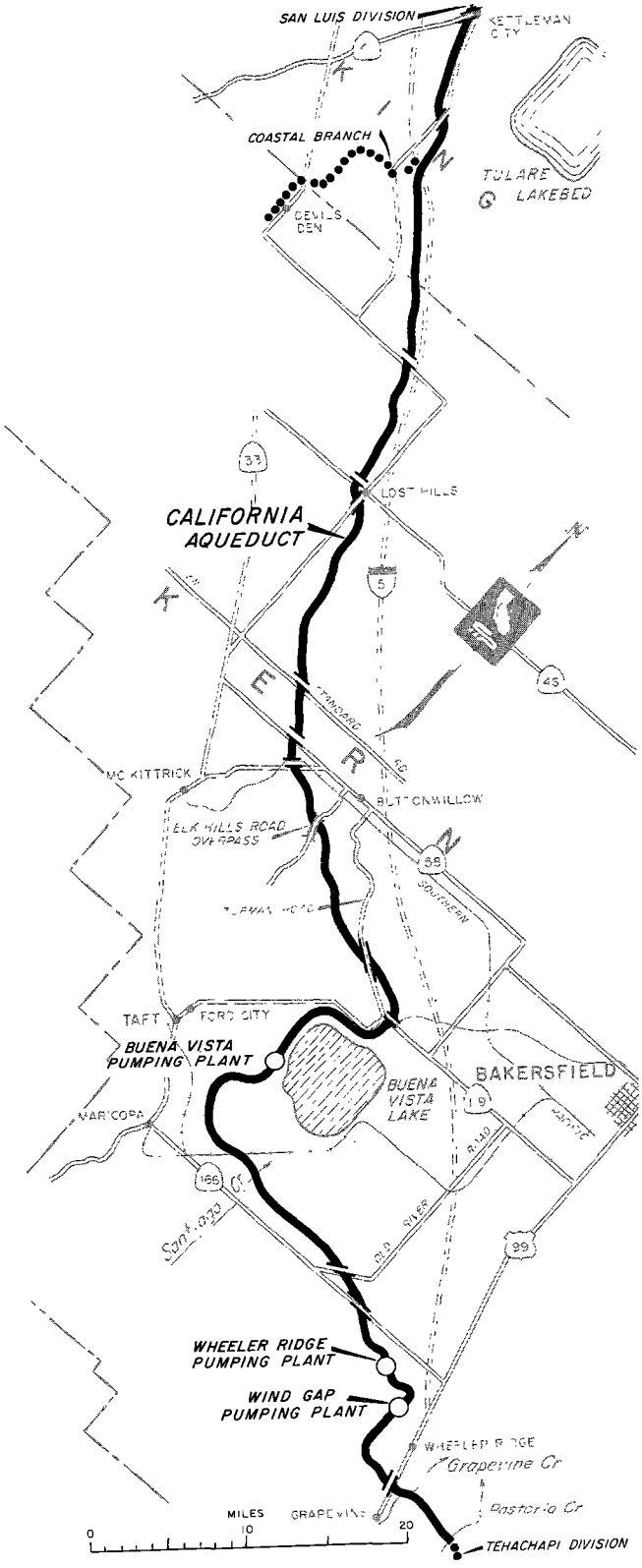
Reservoirs	SAN LUIS	O'NEILL FOREBAY
Gross Capacity, acre-feet	2,095,000	56,000
Surface area, acres	13,800	2,190
Shoreline, miles	65	12.3

Dams	SAN LUIS	O'NEILL FOREBAY
Type	Earthfill	Earthfill
Height, feet	384.6	87.5
Volume, cubic yards	77,645,000	3,000,000
Crest length, feet	18,600	14,350
Crest elevation, feet[3]	554	233

Detention Dams	LOS BANOS CREEK	LITTLE PANOCHE CREEK
Type	Earthfill	Earthfill
Height, feet	167	152
Volume, cubic yards	2,100,000	1,210,000
Crest length, feet	1,370	1,440
Crest elevation, feet[3]	384	676

1/ State's share of the joint-us canal.
2/ Under full proj ct development.
3/ Above sea level.

SOUTH SAN JOAQUIN DIVISION



The South San Joaquin Division extends from Kettleman City to th A. D. Edmonston Pumping Plant. Nearly all of the Project's water service to agricultural areas will be provided from this Division.

Deliveries of project water are being made from the first 45 miles of the Aqueduct between Kettleman City and 7th Standard Road. The Aqueduct between 7th Standard Road and Tupman Road is 41 percent complete, and the following reach -- to Buena Vista Pumping Plant -- is 21 percent complete. The remainder of the Aqueduct is moving into the construction phase, and is scheduled to convey water to the A. D. Edmonston Pumping Plant in 1971. The three pumping plants, Buena Vista, Wheeler Ridg , and Wind Gap, are under construction. The three plants will lift conveyed water a total of 956 feet to the bas of the Tehachapi Mountains.

Aqueduct

Capacity...8,100 to 4,400 cubic feet per second
Concrete-lined canal...120.1 miles

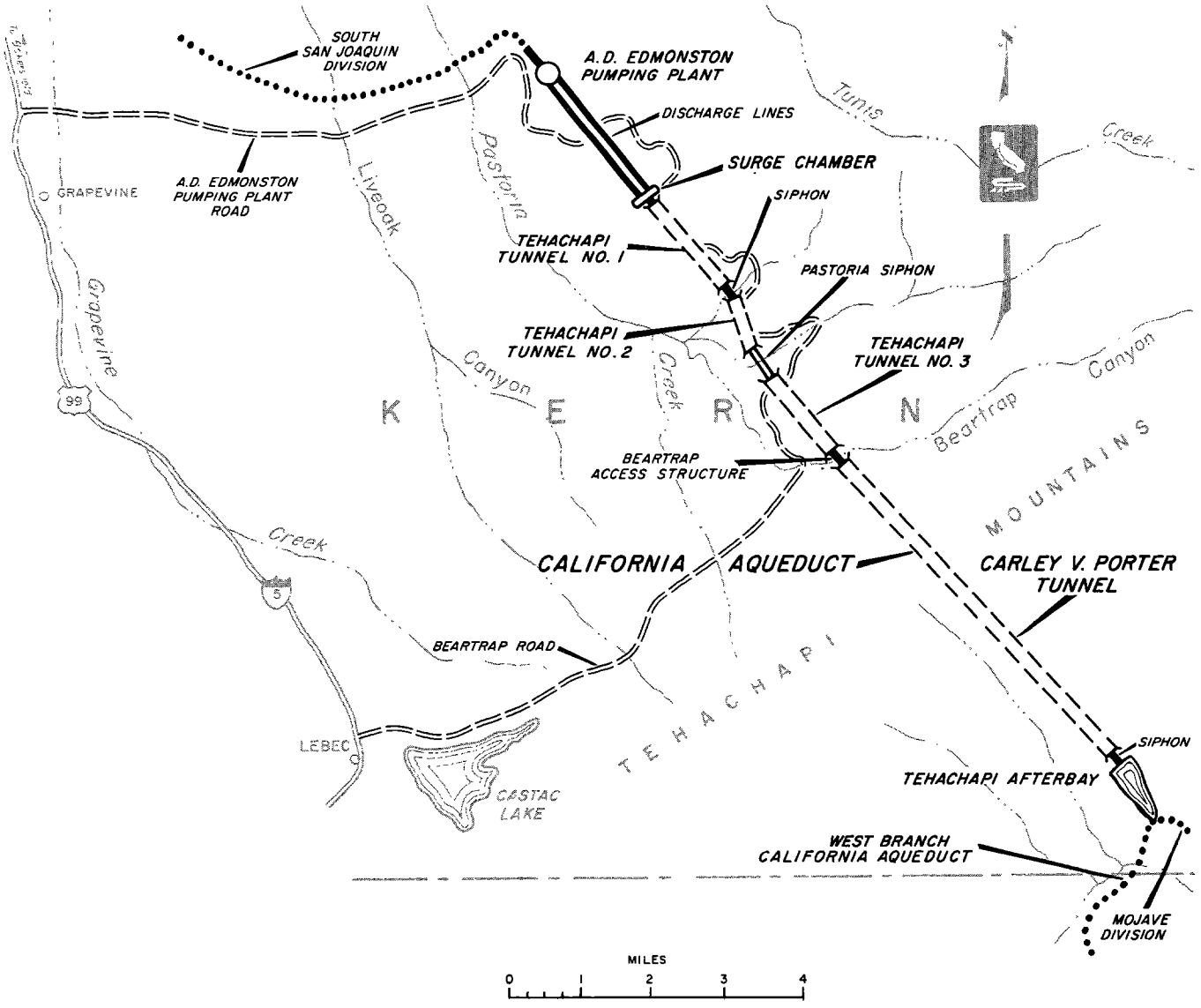
Pumping Plants	BUENA VISTA	WHEELER RIDGE	WIND GAP
Number of units	10	9	9
Static head, feet	205	233	518
Capacity, cubic feet per second	5,365	4,926	4,725
Maximum annual energy requirements, kilowatt-hours	770,000,000	792,000,000	1,680,000,000

TEHACHAPI DIVISION

The Tehachapi Division extends from the intake of the A. D. Edmonston Pumping Plant to, and including, the Tehachapi Afterbay. Major features of the Division include the Pumping Plant and four tunnels through th Tehachapi Mountains. Water will be lifted 1,938 feet by the Pumping Plant.

Construction of the Tehachapi Division is scheduled so as to permit water deliveries through the Tehachapi Mountains in 1971.

Construction of the Pumping Plant is under way. Sixty percent of the excavation of the four tunnels have be n completed. Tunnel construction is scheduled to be completed in the latter part of 1969.



Aqueduct	
Capacity	4,150 cubic feet per second
Canal (afterbay)	0.9 miles
Tunnel	7.9 miles
Pipeline and siphon	2.2 miles
Total length	11.0 miles

A. D. EDMONSTON PUMPING PLANT	
Number of units	14
Capacity	4,410 cubic feet per second
Static head	1,938 feet
Maximum annual energy requirements	6,157,000,000 kilowatt-hours

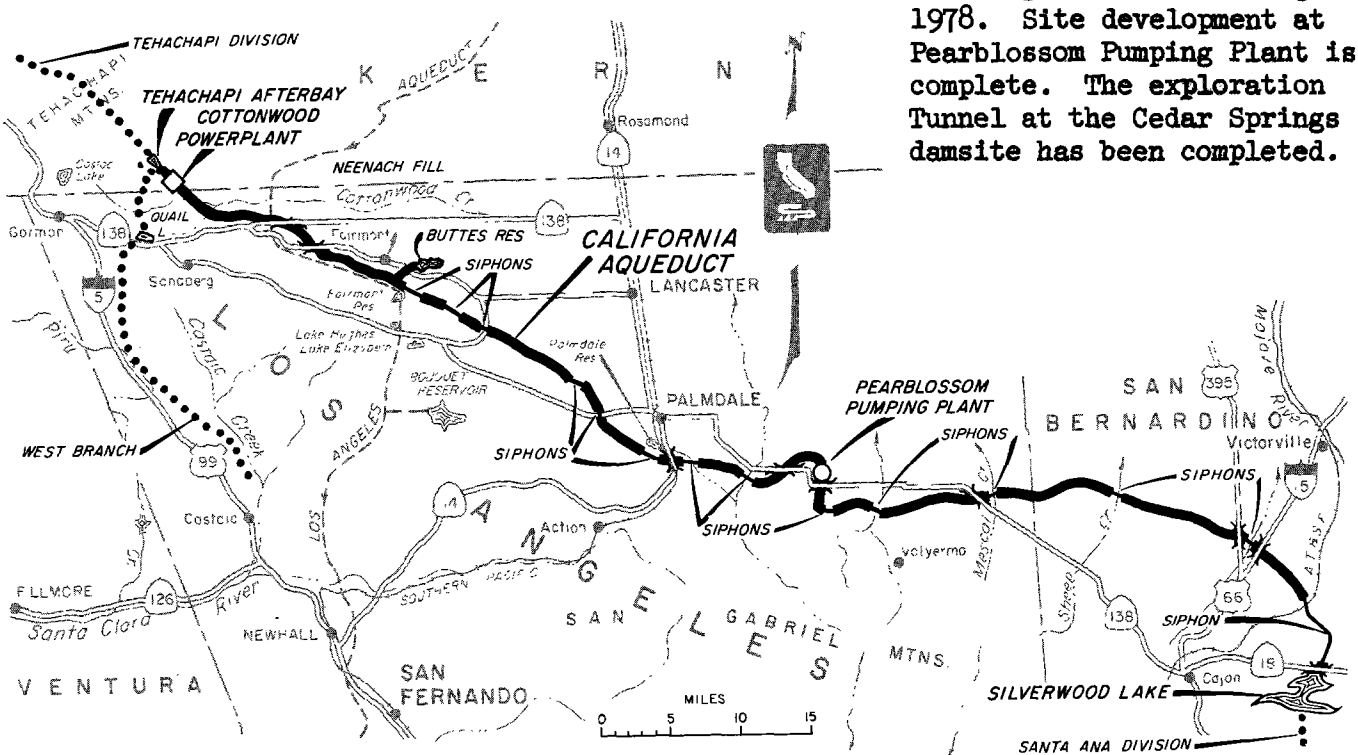
MOJAVE DIVISION

The Mojave Division extends from the Tehachapi Afterbay to, and including, Silverwood Lake. Major features of the Division are Cottonwood Powerplant, Buttes Dam and Reservoir, Pearblossom Pumping Plant, Cedar Springs Dam and Silverwood Lake.

Water deliveries from the Division are scheduled for 1972.

Construction started in November 1967 on the first 17 miles of the Aqueduct, extending to the Fairmont area.

The Cottonwood Powerplant will not be constructed initially. In the interim, an energy dissipator will be built. A study concerning the feasibility of constructing Buttes Dam and Reservoir is under way. Construction of the Dam and Reservoir is scheduled in the period 1973 through 1978. Site development at Pearblossom Pumping Plant is complete. The exploration Tunnel at the Cedar Springs damsite has been completed.



Aqueduct

Capacity	1,640 to 1,196 cubic feet per second
Concrete-lined canal	94.1 miles
Pipeline	8.1 miles
Channel and reservoir	1.9 miles
Total length	104.1 miles

COTTONWOOD POWERPLANT

Number of units	1
Installed capacity	15,000 kilowatts
Static head	140 feet
Annual output[1]	116,000,000 kilowatt-hours

SILVERWOOD LAKE

Gross capacity	78,000 acre-feet
Surface area	995 acres
Shoreline	13 miles

CEDAR SPRINGS DAM

Type	Earthfill
Height	213 feet
Volume	7,400,000 cubic yards
Crest elevation[2]	3,378 feet
Crest length	2,250 feet

PEARBLOSSOM PUMPING PLANT

Number of units	6
Capacity	1,380 cubic feet per second
Static h ad	545 feet
Maximum annual energy requirements	601,000,000 kilowatt-hours

1/ Under full project development

2/ Above sea level.

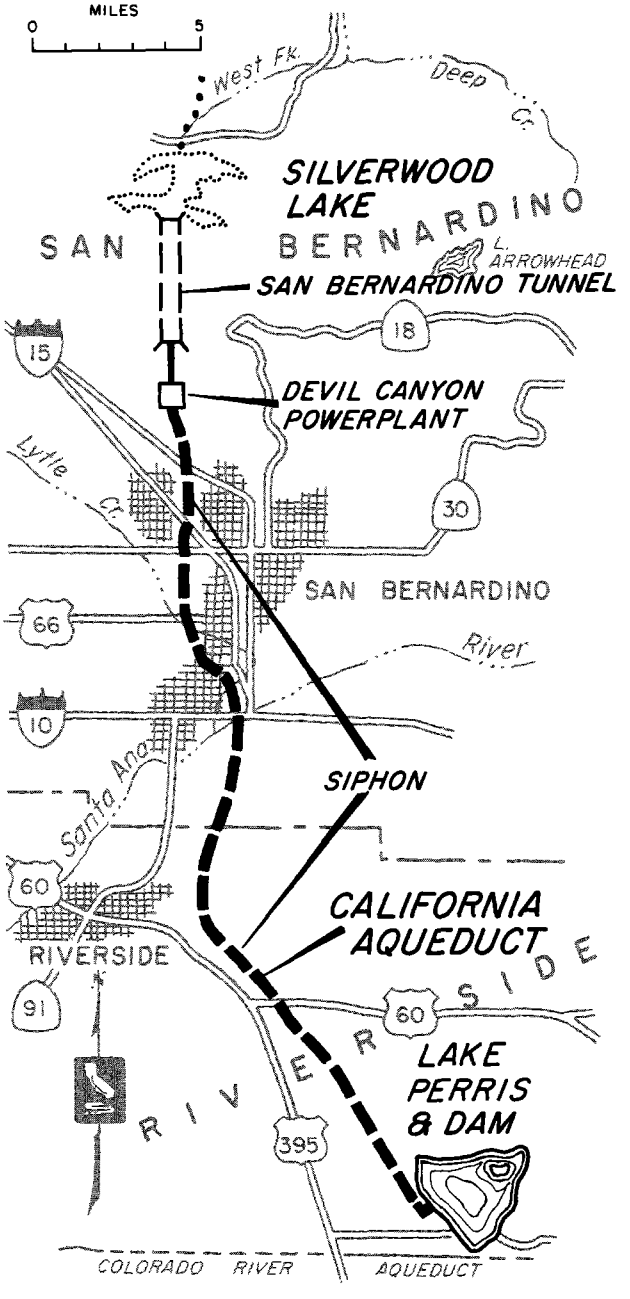
SANTA ANA DIVISION

The Santa Ana Division extends from the outlet of Silverwood Lake to, and including, Lake Perris. Major features of the Division are the San Bernardino Tunnel, Devil Canyon Powerplant, the Santa Ana Valley Pipeline (identified as "siphon" on the map below), Perris Dam, and Lake Perris.

Lake Perris will regulate the inflow from the California Aqueduct and provide emergency storage in case of aqueduct outages.

Construction of the 13-foot diameter San Bernardino Tunnel is about 36 percent complete.

The construction of the Division is scheduled so as to permit the delivery of water to the Santa Ana Valley in 1972.



Aqueduct		
Capacity	2,020 to 428	cubic feet per second
Pipeline	29.5	miles
Tunnel	3.8	miles
Channel and reservoir	2.2	miles
Total length	35.5	miles

DEVIL CANYON POWERPLANT

Number of units	2	
Installed capacity	117,000	kilowatts
Static head	1,413	feet
Annual output[1]	803,000,000	kilowatt-hours

LAKE PERRIS

Gross capacity	100,000	acre-feet
Surface area	2,080	acres
Shoreline	6	miles

PERRIS DAM

Type	Earthfill	
Height	123	feet
Volume	20,500,000	cubic yards
Crest elevation[2]	1,590	feet
Crest length	11,700	feet

1/ Under full project d v lopment.
2/ Above sea lev l.

WEST

South Portal Angeles Tunnel and Castaic Surge Chamber

Aqueduct	
Capacity	3,129 to 3,105 cubic feet per second
Canal	8.9 miles
Pipeline	6.4 miles
Tunnel	7.2 miles
Total length	22.5 miles

Reservoirs	PYRAMID LAKE	CASTAIC LAKE
Gross capacity, acre-feet	179,000	350,000
Surface area, acres	1,358	2,630
Shoreline, miles	21	34

Dams	PYRAMID	CASTAIC
Type	Earthfill	Earthfill
Height, feet	377	335
Volume, cubic yards	7,000,000	43,000,000
Crest elevation, feet	2,605	1,535
Crest length, feet[1]	1,000	5,200

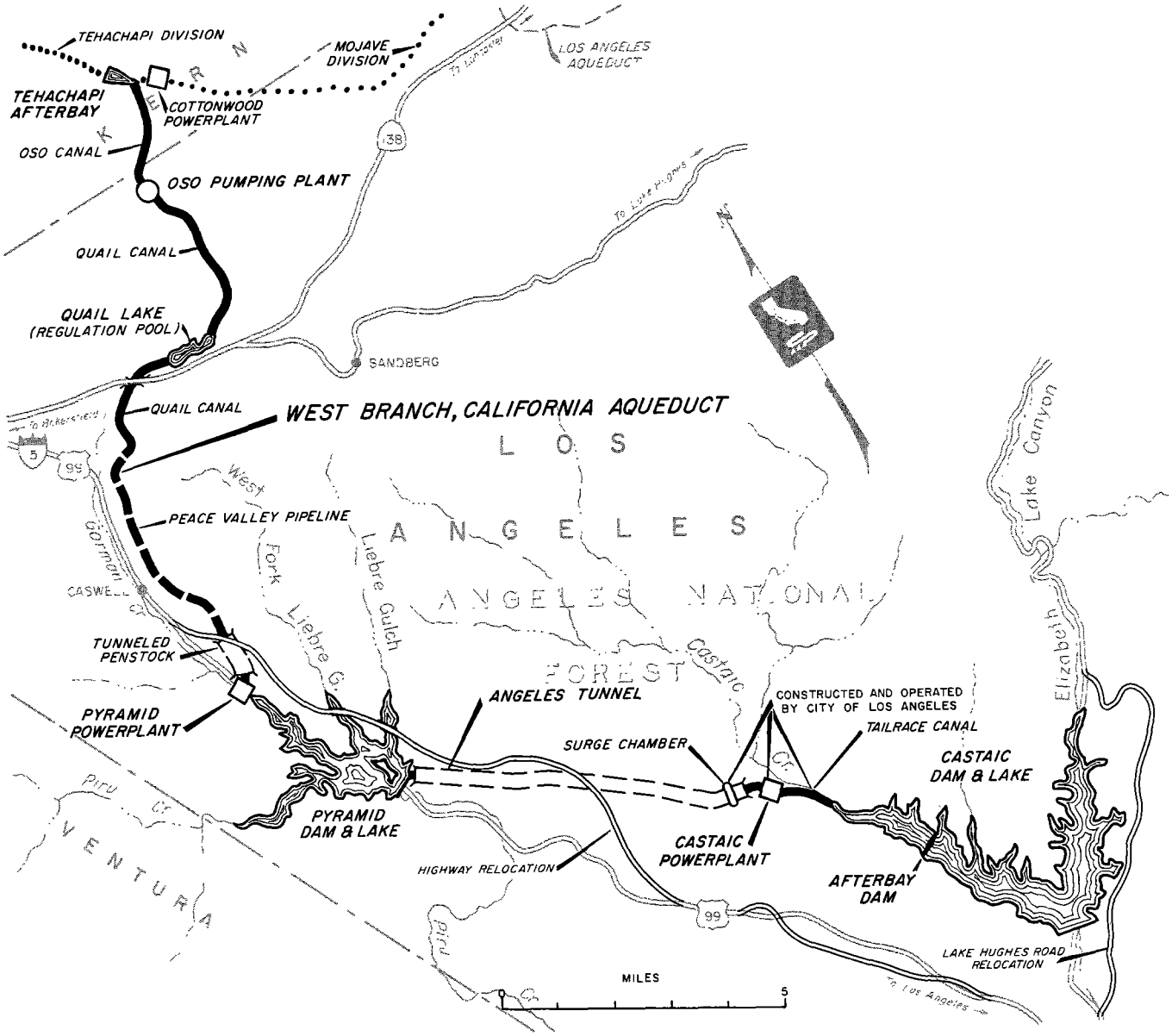
OSO PUMPING PLANT

Number of units	8
Static head, feet	227
Capacity, cubic feet per second	3,123
Maximum annual energy requirements, kilowatt-hours	433,000,000

Powerplants	PYRAMID	CASTAIC
Number of units	2	2
Static head, feet	747	963
Installed capacity, kilowatts	153,000	1,250,007
Annual output, kilowatt-hours[2]	840,000,000	1,455,000,000

1/ Above sea lev l.
2/ Under full project development.

BRANCH



The West Branch of the California Aqueduct extends from Tehachapi Afterbay to, and including, Castaic Lake. Major features of the Division are Oso Pumping Plant, Pyramid and Castaic Powerplants, Pyramid and Castaic Dams and Lakes, and the Angeles Tunnel. The Lakes will regulate inflow from the Aqueduct to meet downstream delivery schedules and will provide emergency storage.

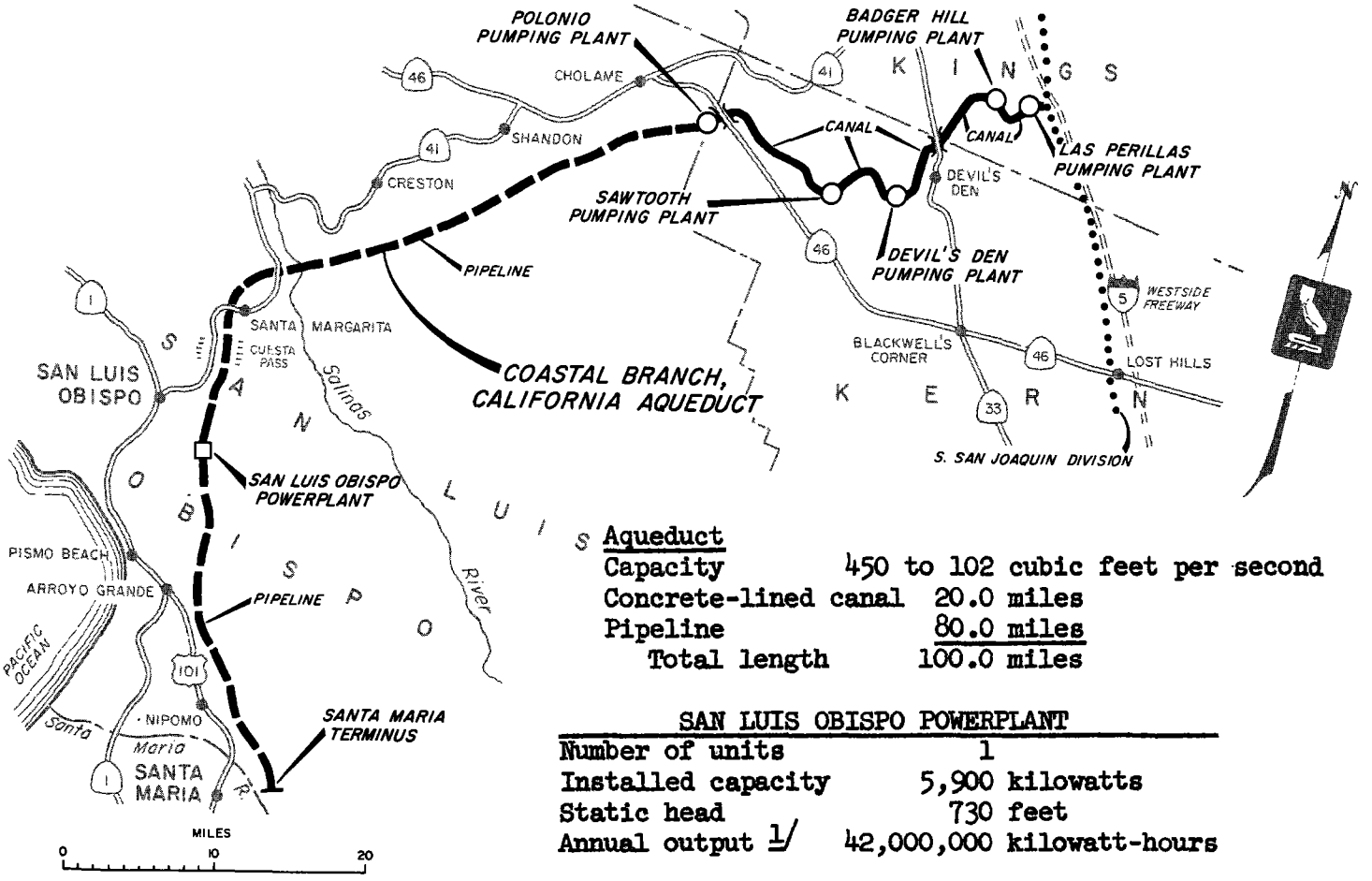
Castaic Dam is about 22 percent complete. Excavation of the 30-foot diameter Ang les Tunnel is approximately 80 perc nt complete and the surge chamber is about 35 percent complete. Construction of the West Branch is scheduled so as to permit water deliveries from Castaic Lake in 1971.

The City of Los Angeles Department of Light 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 had planned to construct.

COASTAL BRANCH

The Coastal Branch will deliver water to Santa Barbara County, San Luis Obispo County, and to areas in western Kern County. The Branch will extend about 100 miles from the main line of the California Aqueduct to a point near Santa Maria. The first 14.8 miles are completed, up to Devil's Den Pumping Plant; Las Perillas and Badger Hill Pumping Plants are now lifting water 206 feet, to supply agricultural service areas in Kern County. Water destined for the Central Coastal counties will continue through three pumping plants -- Devil's Den, Sawtooth, and Polonio -- being lifted an additional 1,550 feet across the summit of the Temblor Range. The water will then flow through a pipeline to near the City of San Luis Obispo, where it will drop about 730 feet to San Luis Obispo Powerplant, and then continue through a pipeline to the Santa Maria terminus.

Water deliveries to San Luis Obispo and Santa Barbara Counties through the last three plants are not scheduled until about 1980. This date may b modified if mutually agreed upon by the contracting parties.



Aqueduct	
Capacity	450 to 102 cubic feet per second
Concrete-lined canal	20.0 miles
Pipeline	80.0 miles
Total length	100.0 miles

SAN LUIS OBISPO POWERPLANT	
Number of units	1
Installed capacity	5,900 kilowatts
Static head	730 feet
Annual output 1/	42,000,000 kilowatt-hours

Pumping Plants	LAS PERILLAS	BADGER HILL	DEVIL'S DEN	SAWTOOTH	POLONIO
Number of units	6	6	4	4	4
Static head, feet	55	151	409	331	810
Capacity, cubic feet per second	450	450	126	126	126
Maximum annual energy requirements, kilowatt-hours	19,000,000	53,000,000	50,000,000	40,000,000	93,000,000

1/ Und r full project development.

PROJECT COSTS

MIDDLE FORK EEL RIVER DEVELOPMENT	$165,032,000
UPPER FEATHER AREA	
Frenchman Dam and Lake	$ 3,103,000
Antelope Dam and Lake	4,285,000
Grizzly Valley Dam and Lake Davis	4,268,000
Abbey Bridge Dam and Reservoir	7,947,000
Dixie Refuge Dam and Reservoir	5,515,000
Grizzly Valley Pipeline	835,000
Subtotal; Design, Right-of-Way, Construction	$ 25,953,000
General 1/	1,806,000
Total	$ 27,759,000
OROVILLE AREA	
Oroville Dam and Lake Oroville	$189,422,000
Feather River Fish Hatchery and Fish Barrier Dam	7,144,000
Edward Hyatt Powerplant	83,491,000
Thermalito Diversion Dam	11,216,000
Thermalito Powerplant	35,940,000
Thermalito Forebay and Afterbay	27,481,000
Thermalito Power Canal	9,593,000
Western Pacific Railroad Relocation	44,129,000
U. S. 40A Relocation	14,016,000
Other Relocations	51,273,000
Subtotal; Design, Right-of-Way, Construction	$473,705,000
General 1/	18,993,000
Total	$492,698,000
NORTH BAY AQUEDUCT	
Calhoun Pumping Plant	$ 647,000
Cordelia Pumping Plant	812,000
Aqueduct	11,859,000
Subtotal; Design, Right-of-Way, Construction	$ 13,318,000
General 1/	3,230,000
Total	$ 16,548,000
SOUTH BAY AQUEDUCT	
South Bay Pumping Plant	$ 4,100,000
Del Valle Pumping Plant	1,948,000
Del Valle Dam and Lake Del Valle	26,055,000
Aqueduct	32,942,000
Subtotal; Design, Right-of-Way, Construction	$ 65,045,000
General 1/	2,408,000
Total	$ 67,453,000
DELTA FACILITIES	$ 109,500,000
CALIFORNIA AQUEDUCT	
North San Joaquin Division	
Clifton Court Forebay	$ 10,453,000
Delta Intake Channel and Fish Protection Facilities	19,025,000
Delta Pumping Plant	37,055,000
Bethany Dams and Reservoir	3,603,000
Aqueduct	87,793,000
Subtotal; Design, Right-of-Way, Construction	$157,929,000
General 1/	9,181,000
Total	$167,110,000
San Luis Division	
San Luis Dam and Reservoir	$ 77,219,000
San Luis Pumping-Generating Plant	62,599,000
O'Neill Dam and Forebay	7,011,000
Dos Amigos Pumping Plant	24,670,000
Aqueduct	120,409,000
Los Banos Creek Detention Dam and Reservoir	2,622,000
Little Panoche Creek Detention Dam and Reservoir	3,217,000
Other Features	5,518,000
Subtotal, Costs of Features Jointly Used	$303,265,000
State's Share (55 percent)	$166,796,000
Future Augmentation of Canal Capacity	14,846,000
General (State Only) 1/	7,961,000
Total	$189,603,000
CALIFORNIA AQUEDUCT (Continued)	
South San Joaquin Division	
Buena Vista Pumping Plant	$ 32,278,000
Wheeler Ridge Pumping Plant	30,926,000
Wind Gap Pumping Plant	39,064,000
Aqueduct	136,795,000
Subtotal; Design, Right-of-Way, Construction	$ 239,063,000
General 1/	19,824,000
Total	$ 258,887,000
Tehachapi Division	
A. D. Edmonston Pumping Plant	$ 157,379,000
Tehachapi Tunnels Numbers 1, 2, and 3	36,824,000
Carley V. Porter Tunnel	57,867,000
Remaining Aqueduct Features	8,780,000
Subtotal; Design, Right-of-Way, Construction	$ 260,850,000
General 1/	11,984,000
Total	$ 272,834,000
Mojave Division	
Cottonwood Powerplant	$ 11,605,000
Pearblossom Pumping Plant	25,390,000
Cedar Springs Dam and Silverwood Lake	40,402,000
Buttes Dam and Reservoir	20,854,000
Aqueduct	102,748,000
Subtotal; Design, Right-of-Way, Construction	$ 200,999,000
General 1/	16,751,000
Total	$ 217,750,000
Santa Ana Division	
San Bernardino Tunnel	$ 28,081,000
Devil Canyon Powerplant	39,327,000
Perris Dam and Lake Perris	69,917,000
Aqueduct	51,033,000
Subtotal; Design, Right-of-Way, Construction	$ 188,358,000
General 1/	16,947,000
Total	$ 205,305,000
West Branch	
Oso Pumping Plant	$ 23,127,000
Pyramid Powerplant	44,580,000
Pyramid Dam and Lake	32,508,000
Castaic Dam and Lake	104,871,000
Angeles Tunnel	107,059,000
Aqueduct	53,289,000
Subtotal; Design, Right-of-Way, Construction	$ 365,434,000
General 1/	7,043,000
Total	$ 372,477,000
Coastal Branch	
Las Perillas and Badger Hill Pumping Plants	$ 8,467,000
Devil's Den Pumping Plant	4,025,000
Sawtooth Pumping Plant	2,924,000
Polonio Pumping Plant	4,216,000
San Luis Obispo Powerplant	1,882,000
Aqueduct	50,226,000
Subtotal; Design, Right-of-Way, Construction	$ 71,740,000
General 1/	3,984,000
Total	$ 75,724,000
TOTAL, CALIFORNIA AQUEDUCT	$1,759,690,000
SAN JOAQUIN DRAINAGE FACILITIES	$ 7,649,000
LOCAL PROJECTS	$ 130,000,000
UNALLOCATED	$ 2,020,000
GRAND TOTAL	$2,778,349,000

1/ These costs include those that are not directly identifiable with any particular unit of the project, and that are allocated among such units. These costs amount to $120,112,000 and consist of the following:

1) operations and maintenance facilities	$16,370,000
2) monitor and control system	$20,475,000
3) general design and construction	$13,791,000
4) planning, operation, and maintenance prior to to the time that an operational status is attained, and other miscellaneous costs	$69,475,000

8 POWERPLANTS

Name	Number of Units	Static Head (feet)	Installed Capacity (kilowatts)	Maximum Annual Output (kilowatt-hours)
Edward Hyatt (Oroville)	6	675	644,250	2,475,000,000
Thermalito	4	102	115,100	383,000,000
San Luis	8	327	424,000	119,000,000 2/
Cottonwood	1	140	15,000	116,000,000
Devil Canyon	2	1,413	117,000	803,000,000
Pyramid	2	747	153,000	840,000,000
Castaic 1/	2	963	1,250,000	1,455,000,000 2/
San Luis Obispo	1	730	5,900	42,000,000
Total				6,233,000,000

21 PUMPING PLANTS

Name	Number of Units	Static Head (feet)	Capacity (cubic feet per second)	Maximum Annual Energy Requirements (kilowatt-hours)
Edward Hyatt (pumped storage)	3	675	5,600	465,000,000
Thermalito (pumped storage)	3	102	9,000	91,000,000
Subtotal				556,000,000
North Bay Aqueduct:				
Calhoun	6	34	110	3,000,000
Cordelia	7	380	48	19,000,000
Subtotal				22,000,000
South Bay Aqueduct:				
South Bay	9	545	330	131,000,000
Del Valle	4	38	120	9,000,000
Subtotal				140,000,000
California Aqueduct (main line):				
Delta	11	244	10,300	1,335,000,000 2/
San Luis	8	327	11,000	153,000,000 2/
Dos Amigos	6	122	13,200	710,000,000 2/
Buena Vista	10	205	5,365	770,000,000
Wheeler Ridge	9	233	4,926	792,000,000
Wind Gap	9	518	4,725	1,680,000,000
A. D. Edmonston (Tehachapi)	14	1,938	4,410	6,157,000,000
Pearblossom	6	545	1,380	601,000,000
Subtotal				12,198,000,000
California Aqueduct (branches):				
Oso	8	227	3,128	426,000,000
Las Perillas	6	55	450	19,000,000
Badger Hill	6	151	450	53,000,000
Devil's Den	4	409	126	50,000,000
Sawtooth	4	331	126	40,000,000
Polonio	4	810	126	94,000,000
Subtotal				682,000,000
Peripheral Canal	15	13	21,800	48,000,000
Total				13,646,000,000

1/ Constructed and operated by the City of Los Angeles with project water passing through the plant.

2/ State share only.

AQUEDUCTS

Name	Length (miles) Total	Canal	Pipeline	Tunnel	Channel & Reservoir	Capacity (cubic feet per second)
North Bay Aqueduct	28.4	18.1	6.5	0	3.8	117 to 46
South Bay Aqueduct	50.7	11.1	32.2	1.5	5.9	363 to 184
Peripheral Canal	43.0	42.0	1.0	0	0	21,800 to 18,300
Subtotal	122.1	71.2	39.7	1.5	9.7	
California Aqueduct (main line):						
North San Joaquin Division	67.1	62.4	0	0	4.7	10,300 to 10,000
San Luis Division	105.7	103.5	0	0	2.2	71,000 to 7,050 1/
South San Joaquin Division	120.1	120.1	0	0	0	8,000 to 4,400
Tehachapi Division	11.0	0.9	2.2	7.9	0	4,150
Mojave Division	104.1	94.1	8.1	0	1.9	1,640 to 1,196
Santa Ana Division	35.5	0	29.5	3.8	2.2	2,020 to 428
Subtotal, main line	443.5	381.0	39.8	11.7	11.0	
California Aqueduct (branches):						
West Branch	31.0	8.9	6.4	7.2	8.5	3,129 to 3,105
Coastal Branch	100.0	20.0	80.0	0	0	450 to 102
Subtotal, branch lines	131.0	28.9	86.4	7.2	8.5	
TOTALS	696.6	481.1	165.9	20.4	29.2	

21 MAJOR DAMS AND RESERVOIRS

Name of Dam	Dams Height (feet)	Crest Elevation (feet) 2/	Crest Length (feet)	Volume (cubic yards)	Reservoirs Gross Capacity (acre-feet)	Surface Area (acres)	Shoreline (miles)
Frenchman	139	5,607	720	536,000	55,400	1,580	21
Antelope	105	5,025	1,320	380,000	22,513	930	15
Grizzly Valley	115	5,785	800	230,000	84,151	4,000	32
Abbey Bridge	110	5,468	1,150	500,000	45,000	1,950	21
Dixie Refuge	100	5,754	1,050	400,000	16,000	900	15
Oroville	770	922	6,920	80,000,000	3,538,000	15,800	167
Thermalito Diversion	161.5	250	1,300	154,000	13,400	330	10
Thermalito Forebay	71	231	15,900	1,580,000	11,400	600	10
Thermalito Afterbay	37	142	41,600	5,038,000	57,000	4,550	26
Clifton Court Forebay	N/A	14	36,500	2,440,000	30,000	2,200	8
Bethany	80	250	3,240	1,040,000	4,800	161	5
Del Valle	223	773	880	4,200,000	77,000	715	16
San Luis	385	554	18,600	77,645,000	2,095,000	13,800	65
O'Neill Forebay	88	233	14,350	3,000,000	56,000	2,190	12
Los Banos Creek	154	384	1,370	2,200,000	34,500	623	12
Little Panoche Creek	120	676	1,440	1,210,000	13,270	354	10
Cedar Springs	213	3,378	2,250	7,400,000	78,000	995	13
Perris	123	1,590	11,700	20,500,000	100,000	2,080	6
Pyramid	377	2,605	1,000	7,000,000	179,000	1,358	21
Castaic	335	1,535	5,200	43,000,000	350,000	2,630	34
Dos Rios	730	1,650	2,100	36,600,000	7,600,000	40,000	200
Totals			169,390	295,053,000	14,460,434	97,746	719

1/ State share of the joint use canal.
2/ Above sea level.

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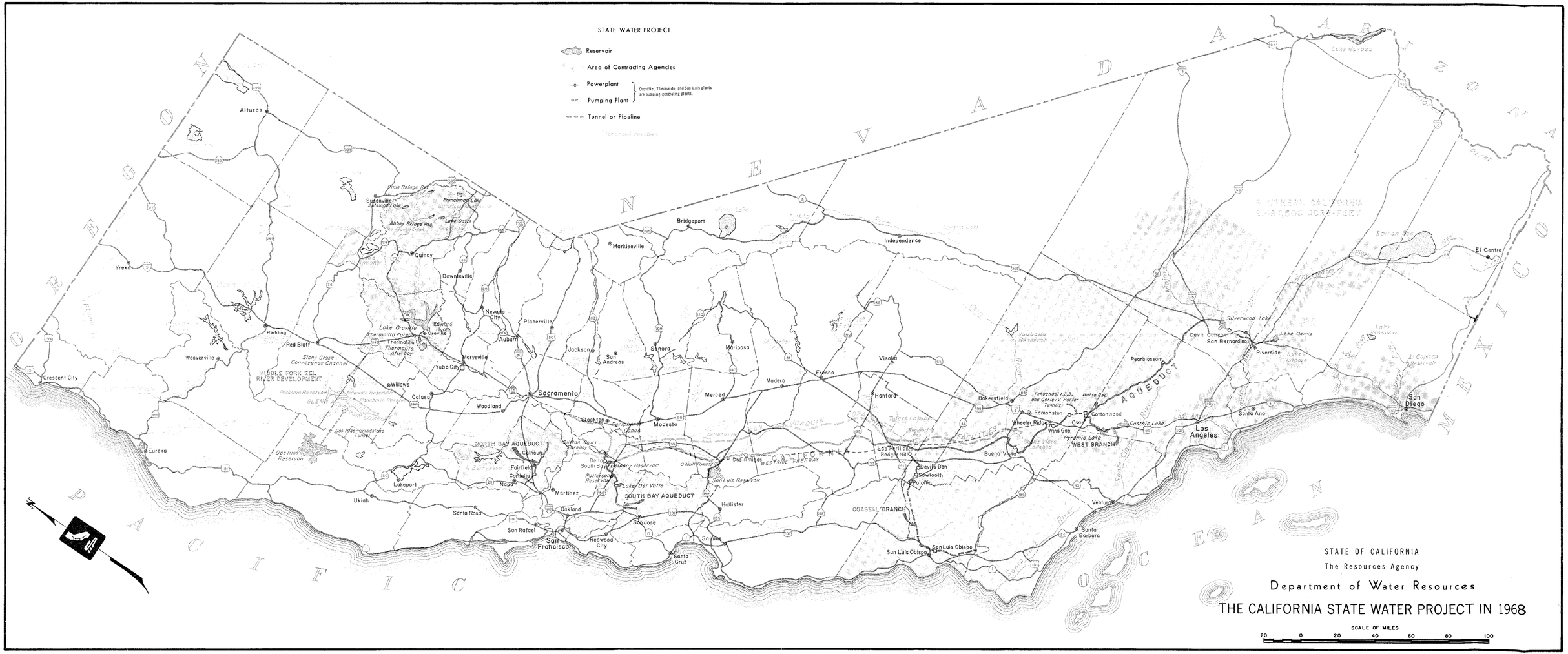
STATE WATER PROJECT
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Area of Contracting Agencies
Powerplant
Pumping Plant
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Tunnel or Pipeline
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OREGON
NEVADA
ARIZONA
NEW MEXICO
PACIFIC OCEAN
Alturas
Yreka
Crescent City
Eureka
Weaverville
Redding
Red Bluff
Susanville
Lake Almanor
Frenchman Lake
Lake Davis
Abbey Bridge Res.
Quincy
Downieville
Nevada City
Placerville
Auburn
Lake Oroville
Edward Hyatt Oroville
Thermalito Forebay
Thermalito Afterbay
Stony Creek Conveyance Channel
MIDDLE FORK EEL RIVER DEVELOPMENT
Willows
Colusa
Marysville
Yuba City
Woodland
Sacramento
Jackson
San Andreas
Sonora
Mariposa
Merced
Madera
Fresno
Visalia
Hanford
Bridgeport
Markleeville
Independence
Lone Pine
Owens Lake
Coso Junction
Haiwee Reservoir
Tehachapi Nos. 1, 2, 3, and Cedar V. Porter Tunnels
Bakersfield
Wheeler Ridge
Wind Gap
Pyramid Lake
Castaic Lake
Los Angeles
Pearblossom
Cottonwood
Oso
Buena Vista
Los Banos
Los Perillos
Badger Hill
Devils Den
Sawtooth
Coloma
Ventura
Santa Barbara
San Luis Obispo
Santa Ana
Riverside
Lake Perris
Silverwood Lake
Devil Canyon
San Bernardino
El Centro
San Diego
Salton Sea
Imperial Valley
Whitewater River
Colorado River
Colorado River Aqueduct
SOUTHERN CALIFORNIA FREEWAY
Stockton
Modesto
Tracy
Delta-Mendota Canal
Clifton Court Forebay
Delta
South Bay
Patterson Reservoir
Del Valle Reservoir
O'Neill Forebay
San Luis Reservoir
Lake Del Valle
NORTH BAY AQUEDUCT
Calhoun
Fairfield
Cordelia
Napa
Martinez
Oakland
San Rafael
San Francisco
Redwood City
SOUTH BAY AQUEDUCT
Hollister
San Jose
Salinas
Santa Cruz
COASTAL BRANCH
WEST BRANCH
AQUEDUCT
Las Perillas Reservoir
Dos Rios Reservoir
Dos Rios-Grindstone Tunnel
Newville Reservoir
Rancheria Reservoir
Pollanto Reservoir
GLENN
COLUSA
SACRAMENTO
SAN JOAQUIN
SOLANO
ALAMEDA
SANTA CLARA
SAN BENITO
MERCED
FRESNO
KINGS
TULARE
KERN
LOS ANGELES
ORANGE
SAN DIEGO
RIVERSIDE
SAN BERNARDINO
IMPERIAL
Lake Havasu
Lake Mohave
Lake Isabella
Tulare Lake Bed
Kern River
Los Angeles River
Santa Clara River
Mojave River
Owens River
Aqueduct
Tunnel
Pipeline
Powerplant
Pumping Plant
Reservoir
STATE OF CALIFORNIA
The Resources Agency
Department of Water Resources
THE CALIFORNIA STATE WATER PROJECT IN 1968
SCALE OF MILES
20 0 20 40 60 80 100