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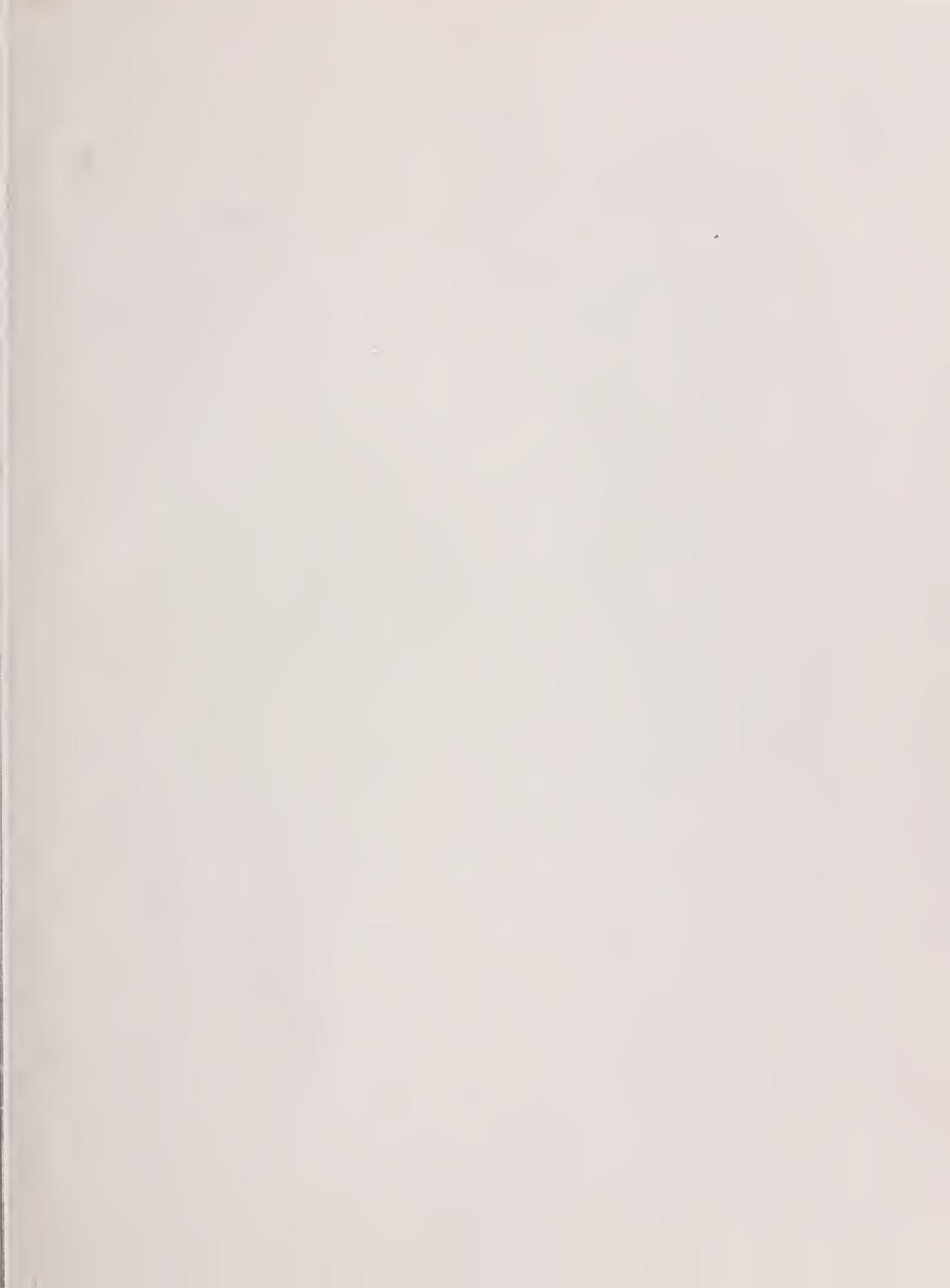
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BULLETIN No. 179-68

WATERMASTER SERVICE
IN THE
WEST COAST BASIN
LOS ANGELES COUNTY

FOR PERIOD
OCTOBER 1, 1967 THROUGH SEPTEMBER 30, 1968

DECEMBER 1968

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

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

FOREWORD

The West Coast Basin has been operating under a well-defined management plan for several years. One phase of the management plan limits ground water extractions from the basin. This phase is monitored by a Court-appointed Watermaster (California Department of Water Resources) that reports significant ground water activity to the Court and other interested parties.

The Watermaster has prepared this annual report for the parties to the West Coast Basin Judgment and the Superior Court of Los Angeles County to present a comprehensive review of the water conditions in the West Coast Basin during the 1967-68 water year. Authorization for this report is contained in subparagraph 6, paragraph IX of the Judgment rendered by the Superior Court of Los Angeles County in the action: "California Water Service Company, et al., vs. City of Compton, et al., No. 506806".

This report contains information on ground water extractions, use of imported water, recharge operations, the administration of the Exchange Pool, and a financial report on Watermaster Service during the 1967-68 water year.



James J. Doody
District Engineer
Southern District
and Watermaster
Reg. C.E. No. 6500

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State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES

RONALD REAGAN, Governor
NORMAN B. LIVERMORE, JR., Secretary for Resources
WILLIAM R. GIANELLI, Director, Department of Water Resources
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SOUTHERN DISTRICT

James J. Doody District Engineer and Watermaster
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Watermaster service in this area was conducted
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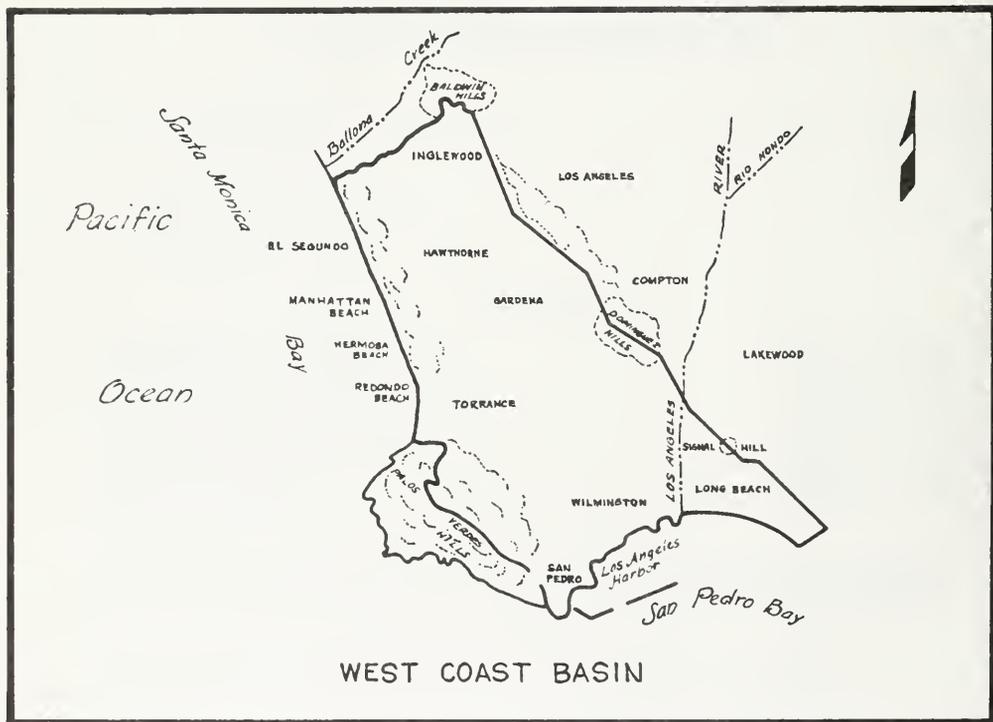
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ABSTRACT

A reliable supply of good quality fresh water is a valuable asset to any community. / The West Coast Basin is a relatively small, but extremely important, ground water basin underlying the southwestern part of the Los Angeles Coastal Plain. Watermaster Service, provided by the California Department of Water Resources, helps to protect and guarantee continued use of ground water by the residents of the area. / The Watermaster has prepared this annual report for the Superior Court and the parties to the Judgment. This report contains information on ground water extractions, use of imported water, recharge operation, sea-water barrier operations, and the administration of the West Coast Basin Judgment. It also serves as a financial report on the cost of Watermaster Service during the 1967-68 water year.



CHAPTER I. THE WEST COAST BASIN

There is little doubt that a reliable supply of good quality fresh water is a valuable commodity. In arid Southern California, such a supply is priceless. Witness the vast amounts of time, effort, and money spent each year to protect the ground water supply of the West Coast Basin.

The West Coast Basin is a relatively small ground water basin underlying the southwestern part of the Los Angeles Coastal Plain. The sketch on the facing page shows us that the basin is bounded on the south and west by the Pacific Ocean, on the north by the Ballona Escarpment, and the east by the Newport-Inglewood Uplift. For further details, see Plate 1 on page 2.

Most of the 160 square mile basin supports an urban-suburban culture. There are 19 incorporated cities claiming a share of the basin's surface area (in this report, the term West Coast Basin is used for both the ground water basin and the overlying area). Fortunately, a substantial portion of the water needed by the cities can be pumped directly from the basin below.

Obviously, ground water is important to the people who live and work in the West Coast Basin. Some twenty years ago, when declining water levels triggered sea water intrusion which threatened the ground water supply, swift legal action halted the overdraft and prevented serious damage to the basin. Today, ground water use in the West Coast Basin is monitored by a court-appointed Watermaster. The Watermaster's prime job is to control ground water use and report all significant water-related events that occur in the West Coast Basin to the Court and parties.

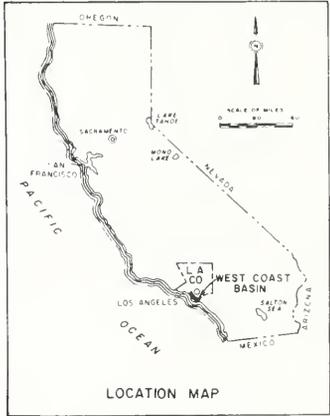
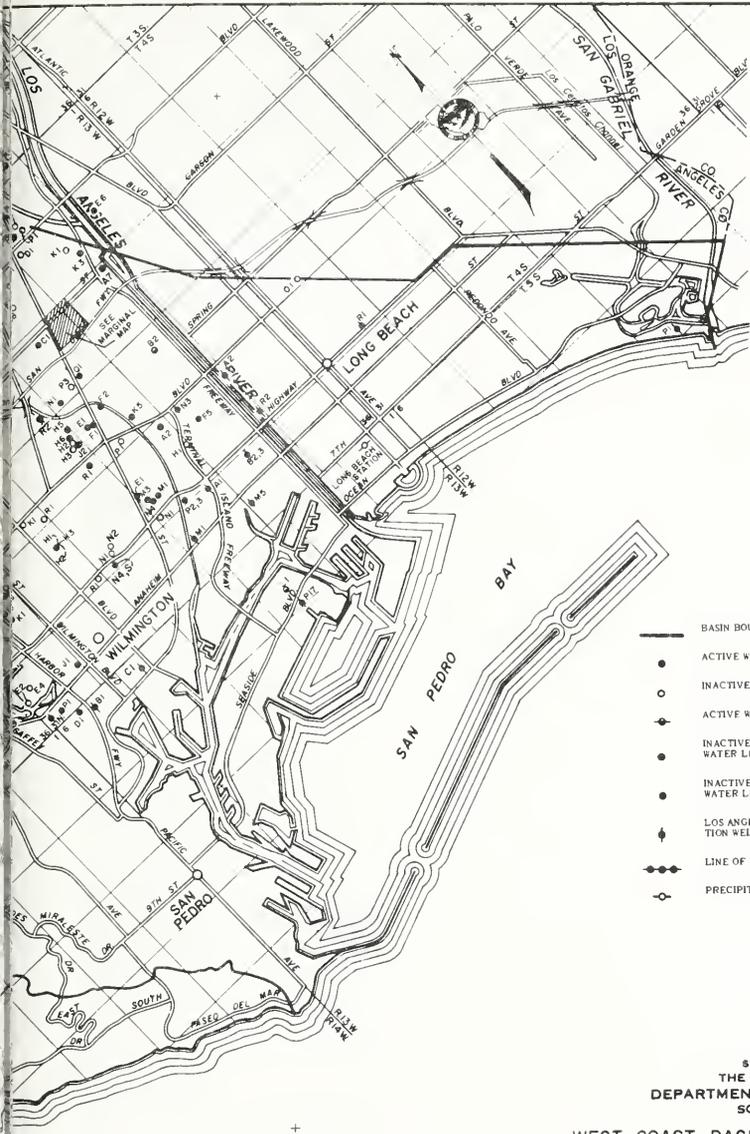
Scope of Report

This is the Watermaster's annual report to the Superior Court of Los Angeles County--and to you as a water user or interested observer of water conditions in the West Coast Basin. The purpose of this report is to describe water supply conditions in the West Coast Basin during the water year 1967-68 (October 1, 1967 through September 30, 1968).

Detailed comments have been prepared on the following topics: the history of water resources development, ground water replenishment, use of imported and exported water, ground water extractions, sea-water intrusion barriers, and fluctuations of the ground water table.

Extensive coverage--in each case a complete chapter--has been devoted to the Watermaster's administration of the Judgment and the cost of Watermaster Service during the 1967-68 water year.





LEGEND

- BASIN BOUNDARY
- ACTIVE WELLS OF PARTIES
- INACTIVE WELLS OF PARTIES
- ◆ ACTIVE WELLS OF NONPARTIES
- INACTIVE WELLS ON WHICH CONTINUOUS RECORDERS MEASURING WATER LEVEL FLUCTUATIONS ARE MAINTAINED BY PARTIES
- INACTIVE WELLS ON WHICH CONTINUOUS RECORDERS MEASURING WATER LEVEL FLUCTUATIONS ARE MAINTAINED BY D.W.R.
- ◆ LOS ANGELES COUNTY FLOOD CONTROL DISTRICT OBSERVATION WELLS
- ◆◆ LINE OF INJECTION WELLS
- PRECIPITATION STATION

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 DEPARTMENT OF WATER RESOURCES
 SOUTHERN DISTRICT

WEST COAST BASIN WATERMASTER SERVICE

LOCATION OF WELLS
 AND
 PRECIPITATION STATIONS



History of Water Resources Development

One hundred years ago, the Los Angeles Coastal Plain was poised on the threshold of a development boom. The key to the future of the West Coast Basin was water.

The definite absence of adequate surface supplies in the West Coast Basin forced the early development of ground water sources. As early as 1870 Inglewood and Long Beach had tapped the artesian wells and springs east of the Newport-Inglewood Uplift for use in the West Coast Basin. When the artesian wells ceased to flow, water users were forced to drill small wells for reliable water supplies. By 1904, about 100 wells were producing 10,000 acre-feet of water annually from the West Coast Basin.

Ground water development spurted dramatically ahead in 1909 with the advent of the deep well turbine pump. Tremendous adaptability and superior operating characteristics of the new pump placed efficient water wells within economic reach of everyone. Reliable water supplies attracted industry and agriculture. Each new business required water. Eventually, the demand for ground water exceeded the natural replenishment of the West Coast Basin.

The resulting overdraft was clearly indicated by dropping ground water levels and expanding areas of sea-water intrusion. Indeed, water levels throughout the basin dropped below sea level during the 1920's. Water wells along Santa Monica Bay were abandoned before 1920 because the water was too salty for use. By 1932, the entire coastal reach of the West Coast Basin was polluted by sea water. The ground water problem was serious and deteriorating each year.

Ground water conditions became so bad in 1945 that the California Water Service Company, the City of Torrance, and the Palos Verdes Water Company filed suit in Superior Court of Los Angeles County. The Plaintiff's objectives: quiet title to the ground water rights of each pumper, and establish control over ground water extractions from the basin. Other organizations moved immediately to support the litigation. The West Basin Water Association was formed in 1946. It promptly sponsored a team of legal advisors to represent the major water producers named in the suit.

A plan to manage the West Coast Basin's water resources began to materialize. The plan would:

1. Provide a supplemental water supply to major producers.
2. Limit ground water extractions from the West Coast Basin.
3. Create an exchange water pool to provide pumping rights for water users without access to supplemental water.

Phase 1 was realized in 1947 when the West Basin Municipal Water District was formed to distribute water from the Colorado River. The District was annexed to the Metropolitan Water District of Southern California in 1948 and Colorado River water soon arrived in the West Coast Basin.

Phases 2 and 3 were initiated when the Court held its preliminary hearings in 1946. These hearings defined the ground water problem and outlined areas where additional information and knowledge were required. Then the Court asked the California Division of Water Resources (now Department of Water Resources) to define the boundaries and determine the geologic and hydrologic characteristics of the West Coast Basin. The major parties also retained an "Engineering Advisory Committee" to aid the Division during the investigation.

As more and more information became available, the actual magnitude of the problem grew painfully obvious. In 1949, an amended complaint added 340 parties to the suit and alleged that each party's pumping right was adverse to every other party's right.

For six years, the Division of Water Resources analyzed the physical properties of the West Coast Basin. A "Report of Referee" was filed with the Court on September 15, 1952.

Several years had passed since water users became alarmed enough to take action. The ground water condition had become critical in the intervening years and direct action was needed. The major pumpers drafted an Interim Agreement to reduce ground water extractions until a final Judgment was approved. The Court not only approved the Interim Agreement but made it an ex parte order and appointed the Division of Water Resources Watermaster to administer the Agreement.

Litigation toward a final Judgment resumed immediately. However, more information was needed to continue litigation, so the Court again requested and the Department of Water Resources conducted an additional investigation.

A "Final Report of Referee", including data on ground water conditions between 1950 and 1956, was filed on June 8, 1961. The Report provided the information needed to draft the final Judgment. On August 8, 1961, after 16 years of litigation, the Court cancelled the Interim Agreement and signed the West Coast Basin Judgment. The new Judgment retained the Department of Water Resources as Watermaster.

During the last few years of litigation, several persons began to extract water from the basin to meet their water needs. These new pumpers were not named in the original West Coast Basin suit and were exempt from the orders of the Judgment. A second West Coast Basin water right suit was filed on October 31, 1956 to bring each new pumper under the Judgment.

Litigation in "Case No. 668,965, Dominguez Water Corporation, et al., vs. American Plant Growers, Incorporated, et al." ended on March 24, 1966. The Judgment obtained Superior Court Jurisdiction over several producers that were not named in the original suit.

The second suit (often called the American Plant Growers Case) originally named 60 parties. Later 57 more parties were added to the list. Seventy-six parties were actually served. Ten filed disclaimers; eight answered and claimed a pumping right; twenty-six parties defaulted claiming no right; and several parties were dismissed from the action.

The California Department of Water Resources was named Watermaster and the second suit parties were merged with the parties named in the original suit for administrative purposes. Since the conclusion of the second suit, there has been no significant litigation in the West Coast Basin.

Activities of the Watermaster

The Watermaster has now administered the West Coast Basin Judgment for a number of years. Always, the focal point of activity has been the annual report to the Superior Court and the parties. The annual report is replete with information gathered throughout the water year. So much information, in fact, that it has become necessary to use electronic data processing machines extensively. It is felt that the speed and accuracy of machines easily offset the small expense charged for machine rental.

Once a month, every ground water pumper reports his ground water extractions to the Watermaster. This makes possible updating of his water right account (Watermaster Water Production Summary) by computing the amount pumped during the previous month, the total amount pumped during the current water year, and the amount that can legally be pumped during the remainder of the year. A copy of the updated account is then mailed to the pumper.

Occasionally, the Summary will indicate a pump and/or water meter malfunction. If electric meter readings are reported along with water meter readings, electric power consumption can be correlated with water production. Erratic or rapidly increasing electric power consumption vs. water production, for instance, may suggest an inefficient pump, system losses, or an inaccurate water meter.

The Watermaster field staff calibrates the water meter on every active water well at least once a year. Accurate measurement of ground water extractions is absolutely necessary to the success of the Basin's management plan. Every available means, including system efficiency tests, are used to confirm water meter test results. Inaccurate meters must be repaired within thirty days. Follow-up tests and initial test on new wells are scheduled whenever necessary. One copy of each test is furnished to the well owner and another copy is retained by the Watermaster for comparison with future tests.

Twice last year, once in the fall, once in the spring, the depth to the static ground water level was measured in about 350 water wells sprinkled about the Basin. The measurements were used to prepare "fall" and "spring" contour maps of the ground water surface and a "fall to fall" map showing areas of equal elevation change over a one-year period.

These are the major activities of the West Coast Basin Watermaster. Of course, there are many others--but most do not require enough time to be considered major activities. Therefore, instead of trying to list them, the report will continue with the results of the various activities.

Summary of Operating Conditions

Water supply and demand conditions have not changed appreciably for several years. Ground water extractions have averaged about 60,000 acre-feet annually. Imports continue to increase each year, as water requirements grow and additional supplemental sources are developed. Table 1 compares statistics for the last two water years and confirms that operating conditions are virtually unchanged from the prior water year.

TABLE 1
WATER YEAR SUMMARIES

Item	Water Year	
	1966-67	1967-68
Parties	88	88
Active pumpers	54	51
Active nonparties	5	5
Adjudicated Right, in acre-feet	64,468.95	64,468.95
Watermaster expenses	\$26,644.00	\$39,619.52
Watermaster expenses per acre-foot pumped	\$.43	\$.64
Rainfall, in inches	14.34	11.56
Injection at barrier project	43,058 acre-feet	39,583 acre-feet
Extractions	62,552 acre-feet	61,554 acre-feet
Imports	233,714 acre-feet	243,184 acre-feet
Exports	<u>10,291</u> acre-feet	<u>11,445</u> acre-feet
Total water use	285,976 acre-feet	293,293 acre-feet

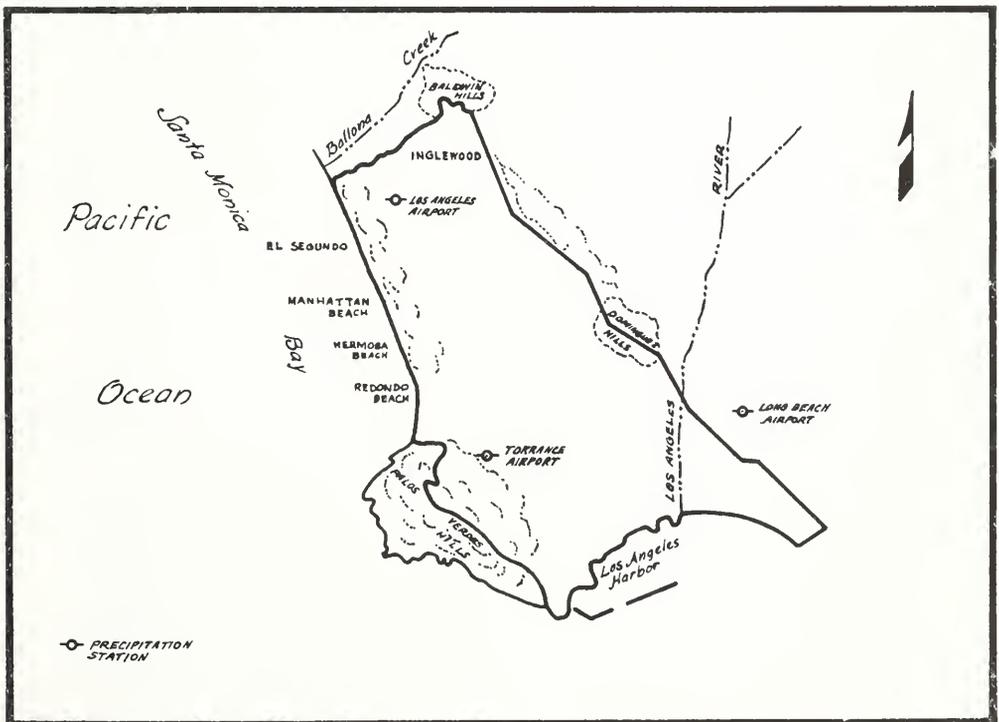
Sixteen parties overextracted a total of 773.33 acre-feet during the 1967-68 water year. Thirteen of these parties overextracted by less than the 10 percent or 2 acre-feet limited by the Judgment. Two of the three remaining parties purchased sufficient water from the 1968-69 West Coast Basin Exchange Pool to meet its needs. The Watermaster recommends that no action be taken against any of these parties.

CHAPTER II. WATER SUPPLY CONDITIONS

Water from many sources is required to serve the needs of Southern California's thriving urban economy. Water from the Colorado River, water from the Owens River, runoff from the mountains, ground water, reclaimed waste-water, and desalination plants along the coast contribute to one of the largest, most reliable water supply systems in the world. Soon, water from Northern California will be available. Even so, current forecasts indicate that additional supplies must be found and developed by 1990 to prevent possible shortages. This chapter explores the sources and uses of current supplies and their effect on water conditions in the West Coast Basin.

Precipitation

Southern California enjoys a Mediterranean-type climate characterized by hot, dry summers and sparse precipitation during the winter months. The average rainfall on the West Coast Basin last year was 11.56 inches, about 90 percent of the 12.73 long-time average. The locations of the precipitation stations used to determine the basin average are shown below and on Plate 1, page 2.



Local precipitation does not influence the ground water supply of the West Coast Basin to any great degree. A layer of impermeable material lies between the surface and the producing aquifers. Almost none of the annual rainfall reaches the zones from where it can be pumped back to the surface.

Ground Water Recharge

Overdraft is a condition where water is removed from a ground water basin faster than it can be replenished by natural processes. Ground water aquifers usually recharge themselves so slowly that a few years of concentrated pumping may upset a balance that took centuries to establish. Basically, this is the situation that existed in the West Coast Basin several years ago.

Natural replenishment of the basin's ground water supply is limited to underflow across the Newport-Inglewood Uplift from the Central Basin. Some of the water that percolates into the forebay areas of Central Basin eventually crosses the Central-West Coast Basin barrier and adds to the underground supply.

Today, attempts are being made to increase the underflow and re-establish nature's balance in several ways. One method is water spreading. Water is flooded on areas where it can percolate into the underground aquifers and supplement the natural recharge supply. Large quantities of water can be returned to the ground by spreading water, but the process is limited by the space available for spreading facilities and the capacity for the ground water basin to accept it.

The Los Angeles County Flood Control District (LACFCD) operates spreading grounds along the Rio Hondo and San Gabriel Rivers in the Montebello forebay of the Central Basin. Although the spread water is not applied directly to the West Coast Basin, it does substantially increase the natural underflow from Central Basin to West Coast Basin. The entire spreading operation is summarized below in Table 2.

TABLE 2

SPREADING OPERATIONS

Water Source	:Quantity in Acre-Feet	
	: 1966-67	: 1967-68
	:Water Year :Water Year	
Metropolitan Water District water purchased with Central and West Basin Water Replenishment District funds	10,180	28,799
MWD water purchased with LACFCD Zone I funds	74,060	66,592
Local runoff	60,971 ^{1/}	40,390 ^{2/}
Reclaimed water	16,224	18,275
Makeup water from Upper San Gabriel Basin	0	0
TOTALS	161,435 ^{1/}	154,056

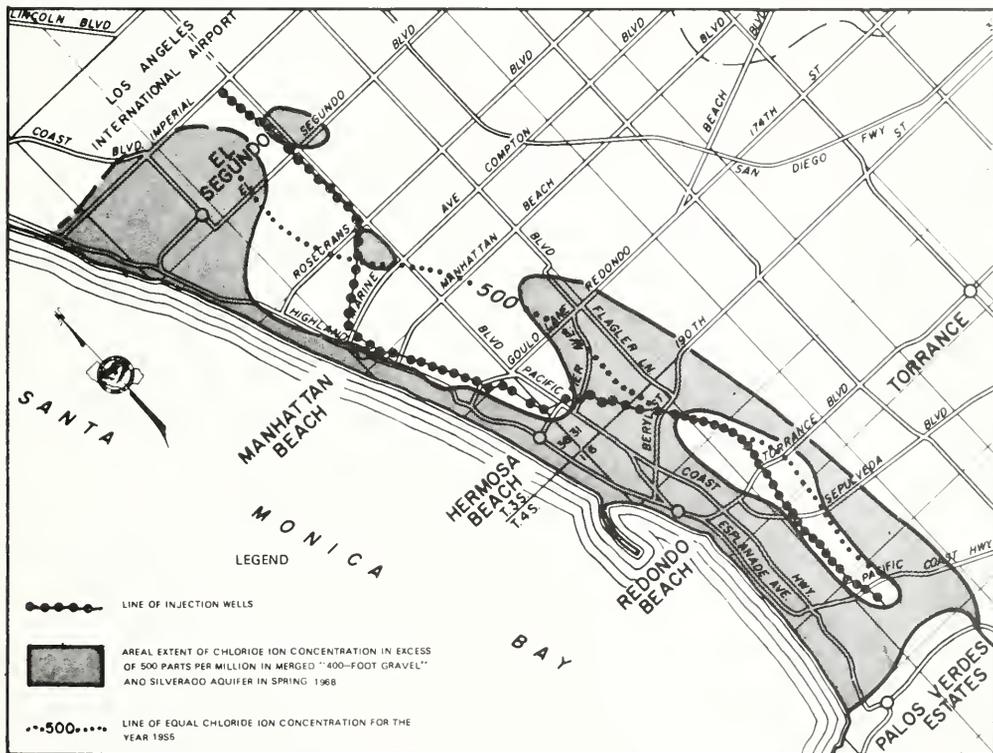
^{1/} Corrected figure

^{2/} Estimated figure

West Coast Basin Barrier Project

The most important ground water project in the West Coast Basin has been completed. On November 20, 1968, the Los Angeles County Flood Control District started to inject filtered Colorado River water from the Metropolitan Water District into the last reach of a completed barrier project. The scope of the project is shown below.

The extent of sea-water intrusion into the merged phases of the Silverado Aquifer is shown by the 500 parts per million (PPM) contour of chloride ion concentration.



The LACFCD furnished the salt-water intrusion map pictured above and the spreading operation summary shown on Table 2. In addition, the District's staff provided the information shown in Table 3. The LACFCD staff is to be commended for their fine cooperation and assistance.

TABLE 3
BARRIER OPERATIONS

Operation	: West Coast : Basin	: Dominguez : Gap
Quantity injected, in acre-feet	39,583	0
Quantity extracted, in acre-feet	0	0
Average injection rate, cubic feet per second	54.7	0
Average extraction rate, cubic feet per second	0	0
Number of extraction wells	0	0
Number of injection wells	94	0
Number of observation wells	292	141
Number of injection wells to be added during 1968-69 water year	0	1/
Number of extraction wells to be added during 1968-69 water year	0	0
Number of observation wells to be added during 1968-69 water year	6	26

1/ May have limited acceptance of some wells which are scheduled for completion in 1969-70.

The barrier is designed to halt the eastward movement of the salt water front by creating a mound of fresh injected water inland from the front. Water for the barrier is purchased by the Central and West Basin Water Replenishment District and delivered to the barrier by the Metropolitan Water District.

In the second area of intrusion, along San Pedro Bay, salt water in the Gage Aquifer continues to threaten the producing aquifers. A barrier is now being planned in this area to halt the intrusion. The new project will be called the Dominguez Gap Barrier. To date, 141 observation wells have been drilled. A limited number of injection wells may be constructed during the 1968-69 water year.

Construction Projects Affecting Water Supply

There are three major construction projects currently in progress that will significantly affect the West Coast Basin's water supply. These projects are:

1. The California State Water Project. This greatest water project ever undertaken will bring water from the Feather River in Northern California to Southern California by 1971.

2. The Metropolitan Water District's proposed additions to its distribution system. Important parts of the addition are the Second Lower Feeder and the Sepulveda Feeder. Each will carry Northern water into the West Coast Basin.
3. The City of Los Angeles is currently constructing the second barrel of its Owens River-Mono Basin Aqueduct. The second barrel will actually terminate in the San Fernando Valley but some of the Owens River water eventually crosses the Santa Monica Mountains and moves southward into the West Coast Basin.

One other project of considerable interest to West Coast Basin water users is the Los Angeles County Joint Sanitation District's plan to reclaim waste water. Although none of the proposed facilities will be located in the West Coast Basin, considerable benefit from spreading water in the forebay areas of Central Basin may eventually materialize. There is also speculation that reclaimed water may be used to operate the two sea-water barrier projects in the basin.

Water Quality

The largest single problem facing mankind today is pollution. There are many sources of pollution and many types of pollution. Pick up any newspaper or national magazine; the odds are that it will have an article on pollution. Most of the articles deal with air pollution and surface water pollution. However, it is no secret that even underground water is endangered by pollution.

The battle for good quality water in the West Coast Basin began many years ago. In fact, it was essentially a water quality problem that prompted the West Coast Basin litigation. Many of the aquifers underlying the Los Angeles Coastal Plain are separated from each other by impervious material. However, some of the aquifers are hydraulically connected to the ocean, so occasionally one or more adjacent aquifers may become polluted with sea water. If a well is drilled downward through two aquifers, one clean, one polluted, without using proper casing techniques, water can move from the polluted aquifer to the unpolluted one. Obviously, this is an undesirable condition.

The Department of Water Resources has long recognized that such a condition should be prevented. After an extensive investigation, the Department published Bulletin No. 74, "Water Well Standards: State of California" in February, 1968 and Bulletin No. 107 "Recommended Well Construction and Sealing Standards for Protection of Ground Water Quality in West Coast Basin, Los Angeles County," in August 1962. Bulletin No. 107 and its appendixes recommended specific well construction and destruction standards for the West Coast Basin. Even now, Bulletin No. 74 standards are being adopted by local agencies and municipalities in the West Coast Basin. The Los Angeles Regional Water Quality Control Board No. 4 will hold hearings in the adoption of these standards in 1969. The Watermaster urges unanimous adoption in the basin to preserve and protect your valuable water supply.

The Department of Public Health, Bureau of Sanitary Engineering recently published an "Investigation of Ground Water Quality Problems in the Central Basin of Los Angeles County". If you are interested in the ground water quality of the Coastal Plain, we recommend that you read this report. It discusses many of the water quality problems that may already, or will in the future, face water users in the West Coast Basin.

Solid waste disposal has become a major problem in Southern California during the past 25 years. Today, the average Californian is generating five pounds of solid waste every day of the year. It has to be disposed of somewhere.

Good dumpsites are becoming more difficult to find each year. In recent years, tremendous pressure to use abandoned gravel pits for dumpsites has developed. The Chandler Pits just south of Pacific Coast Highway in the West Coast Basin are currently being considered for disposing of solid wastes.

Several applications for permission to use the Chandler Pits for dumpsites have been refused because of potential danger to ground water. The Central and West Basin Water Replenishment District, the West Basin Water Association and other agencies have vigorously opposed these applications. Other applications and proposals will surely follow.

Ground Water Levels

Every water well owner in the West Coast Basin has keen interest in the location of the ground water surface. After all, the cost of pumping water is largely dependent on the distance the water must be lifted.

Plates 2 and 3 show the approximate elevation (from sea-level) of the water surface in the Silverado aquifer (the most productive aquifer) as the surface existed in the spring of 1968 and the fall of 1968. Note: The Silverado aquifer varies from 100 to 500 feet in thickness and underlies most of the West Coast Basin. It is, by far, the most productive aquifer yielding about 80 percent of the basin's annual extraction.

Figures 1, 2 and 3 offer additional water level information in the form of selected hydrographs. These particular hydrographs are representative of the several aquifers underlying the basin. In general, they show that the water surface has stabilized and, in some cases, risen slightly because of recharge operations and changing extraction patterns. Plate 4 concludes our description of underground water conditions. It shows the change in ground water storage that occurred between October 1967 and October 1968.

The volume of ground water stored in the West Coast Basin is constantly changing. The change in storage depends on variations in precipitation, subsurface inflow and outflow, artificial recharge, and extractions. Hence, Plate 4 quickly shows whether the overall ground water situation improved or deteriorated during the past year.

Ground water conditions in the heavily pumped areas generally deteriorated during the 1967-68 water year. Plate 4 shows a decrease in storage in the southern part of the basin and an increase in storage in the northern part.

In Lieu Replenishment

Three years ago, during the 1965-66 water year, the Central and West Basin Water Replenishment District began a program of in lieu replenishment. The program is authorized by Section 60230 of the California Water Code.

In effect, the Replenishment District may contract with any producer having access to supplemental water to have the producer use supplemental water instead of pumping water from the ground.

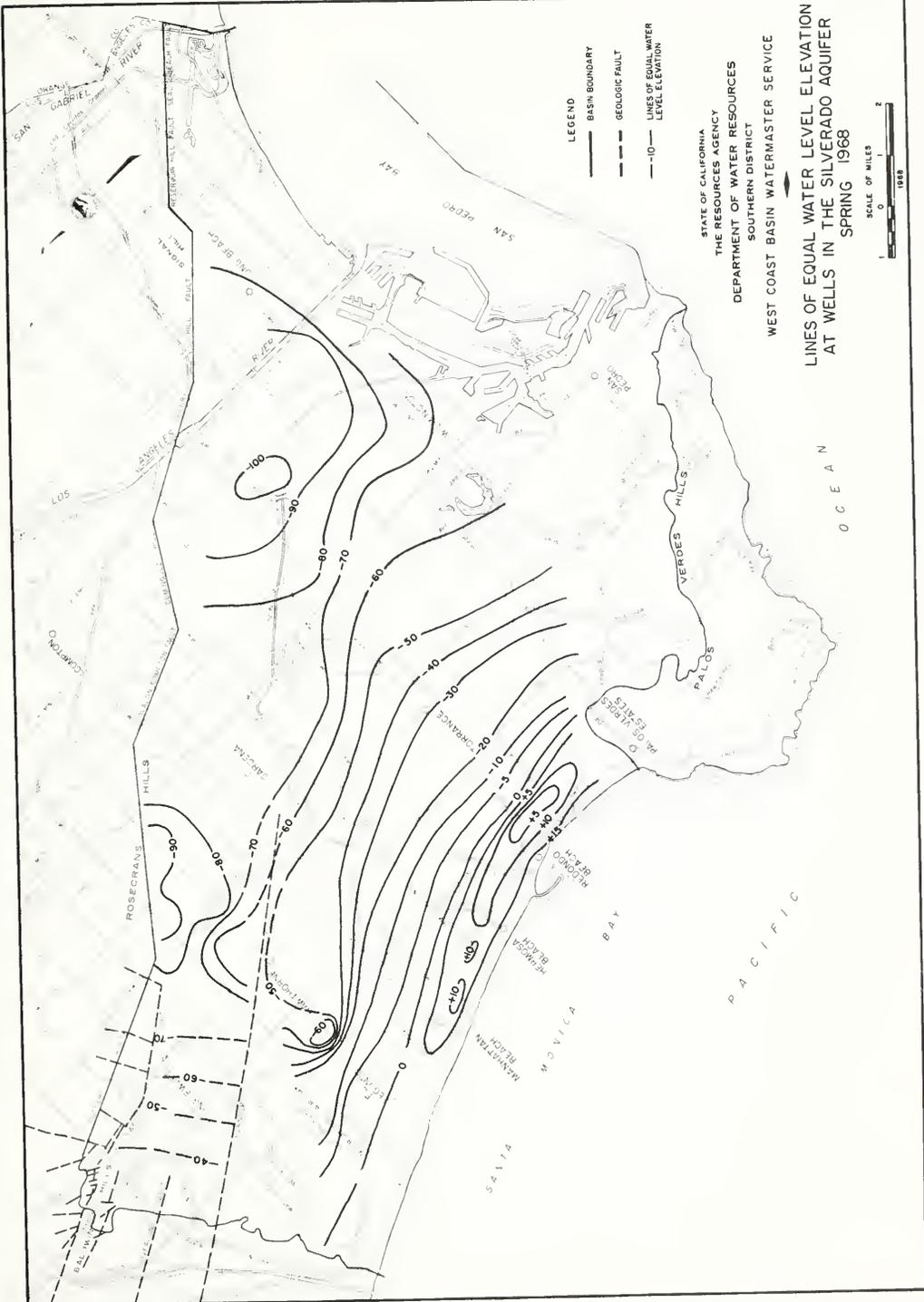
The District's program of in lieu replenishment has the following benefits:

1. It may be used to alter pumping patterns within a ground water basin.
2. It may be used to replenish areas of low transmissibility where conventional recharge techniques are ineffective.
3. It may be used to heighten the effect of injecting water to form a sea-water barrier by reducing extractions in the vicinity.
4. It may be used to reduce the amount of replenishment water purchased by the District.
5. It may be used to reduce the annual ground water extraction from the West Coast Basin.

When the District first announced its intention to begin the in lieu replenishment program several West Coast Basin producers expressed an interest. However, the only producer to actually participate in the program has been the California Water Service Company. The results of the program are summarized on the next page.

Water Year	Amount Contracted To In Lieu Replenishment Program	Contract Price, Dollars Per Acre-Foot	Total Payment
1965-66	744.59	\$ 12.33	\$ 9,180.79
1966-67	850.47	14.14	12,027.06
1967-68	850.00	13.36	11,356.00

The Watermaster believes that the District's in lieu replenishment program is an effective basin management tool. Significant beneficial effects on the West Coast Basin could result from an enlarged program. Therefore, anyone interested in participating or learning more about the program should contact the Central and West Basin Water Replenishment District at 7439 East Florence Avenue, Downey, California.



STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 DEPARTMENT OF WATER RESOURCES
 SOUTHERN DISTRICT
 WEST COAST BASIN WATERMASTER SERVICE

LINES OF EQUAL WATER LEVEL ELEVATION
 AT WELLS IN THE SILVERADO AQUIFER
 SPRING 1968

WATER LEVEL ELEVATION AT WELLS IN FEET - U.S.G.S. DATUM

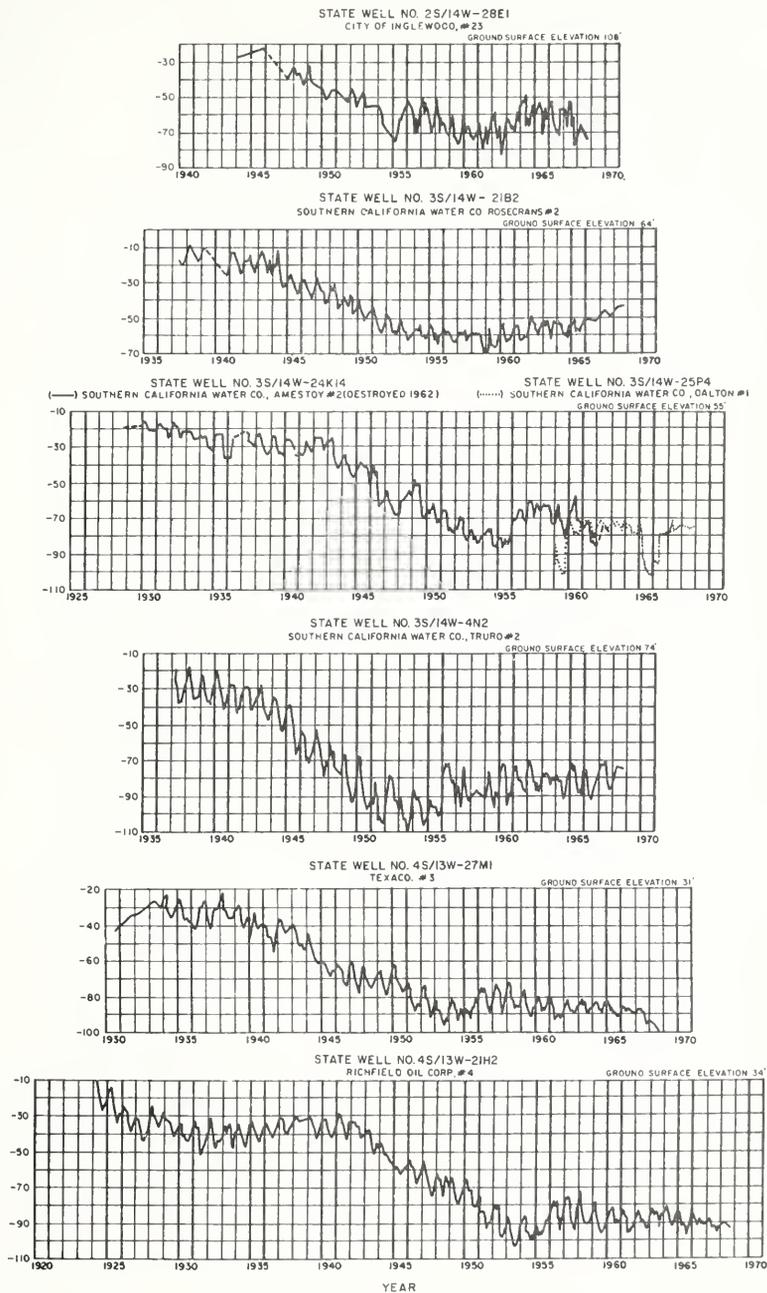
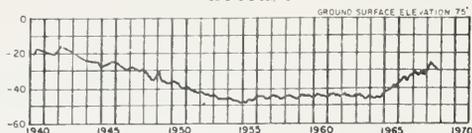


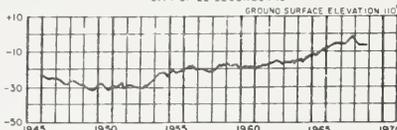
Figure I — FLUCTUATIONS OF WATER LEVEL ELEVATIONS AT WELLS IN THE SILVERADO AQUIFER

WATER LEVEL ELEVATION AT WELLS IN FEET - USGS DATUM

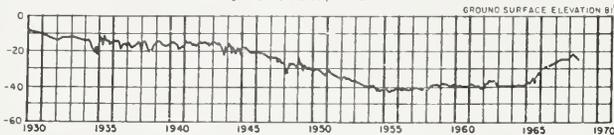
MERGED GARDENA, LYNWOOD AND SILVERADO AQUIFERS
STATE WELL NO. 4S/14W-3L3
MOBIL OIL CO. #3



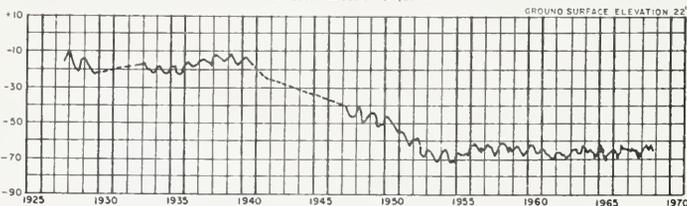
MERGED LYNWOOD AND SILVERADO AQUIFERS
STATE WELL NO. 3S/15W-12B1
CITY OF EL SEGUNDO #10



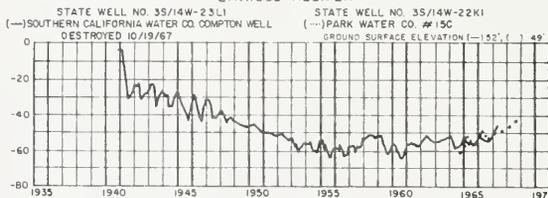
STATE WELL NO. 4S/14W-22D1
STANDARD OIL CO., MARBLE FEE #1



STATE WELL NO. 4S/13W-31E4
CITY OF LOS ANGELES O.W.B.P. LOMITA #4



LYNWOOD AQUIFER



STATE WELL NO. 4S/13W-30K1
CITY OF LOS ANGELES O.W.B.P. LOMITA #7

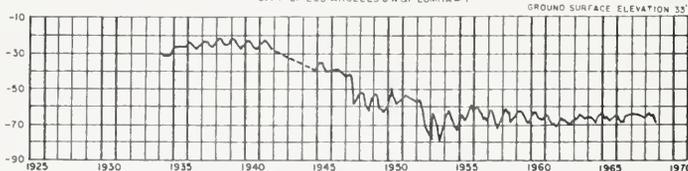
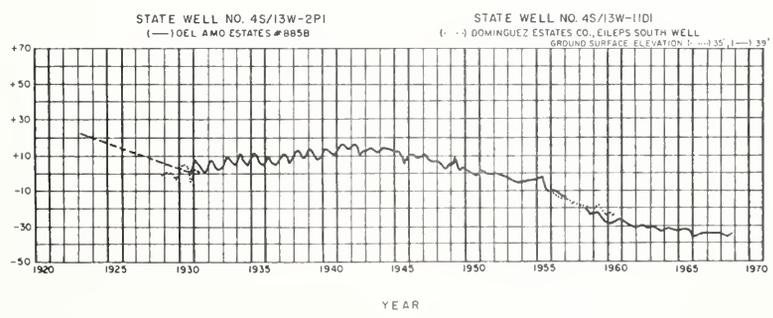
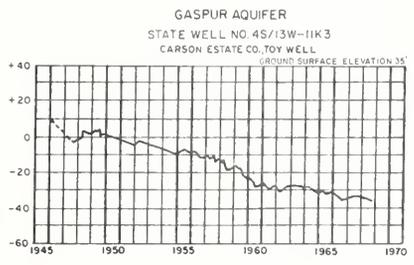
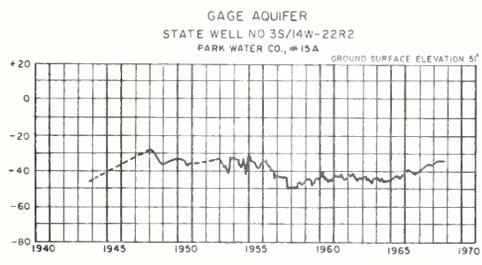
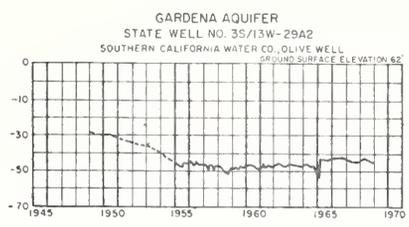
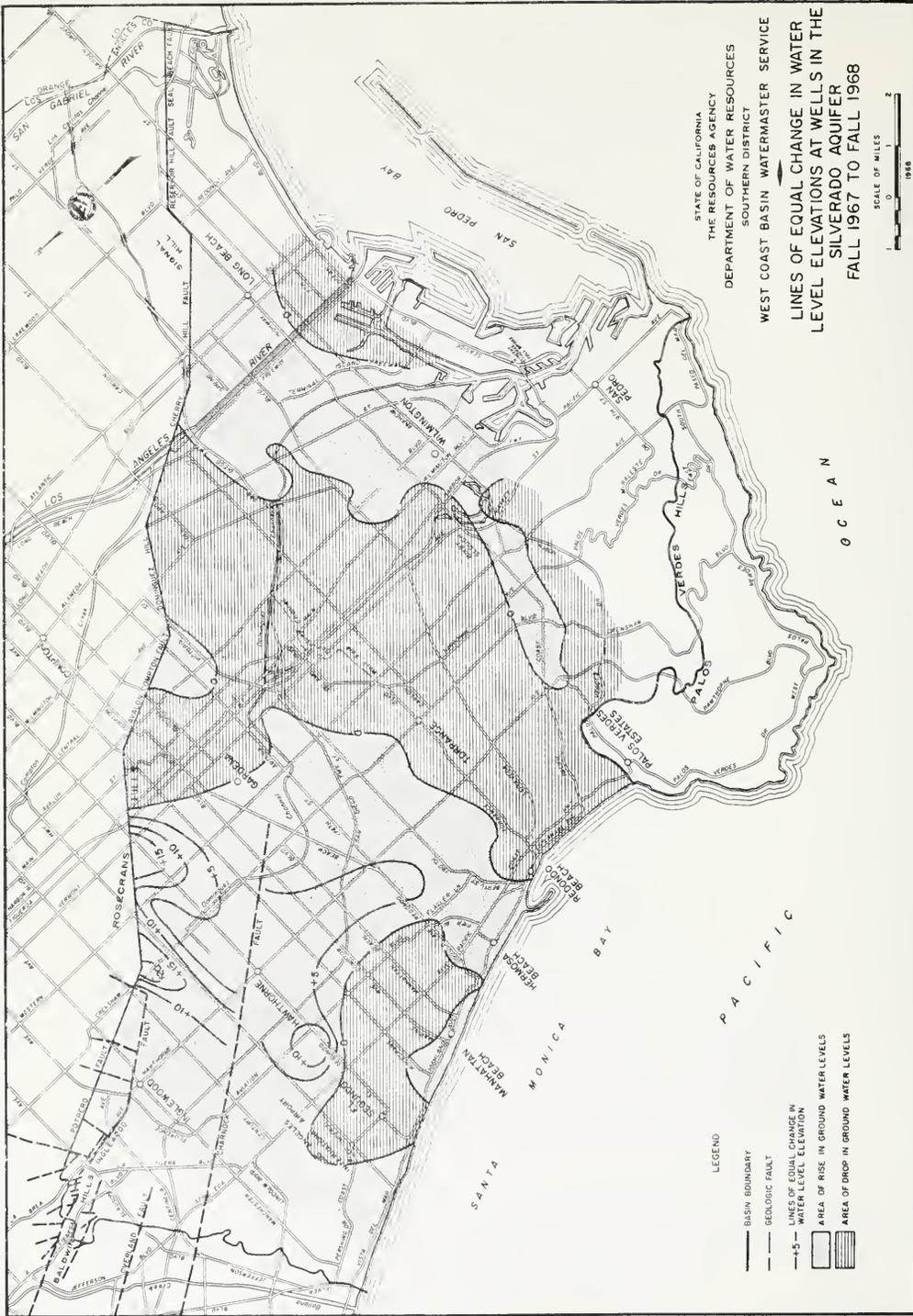


Figure 2 - FLUCTUATIONS OF WATER LEVEL ELEVATIONS AT WELLS
IN THE MERGED PHASES OF SILVERADO AND LYNWOOD AQUIFERS

ELEVATION AT WELLS IN FEET — U.S.G.S. DATUM



**Figure 3— FLUCTUATIONS OF WATER LEVEL ELEVATIONS AT WELLS
 IN THE UPPER PLEISTOCENE AND RECENT AQUIFERS**



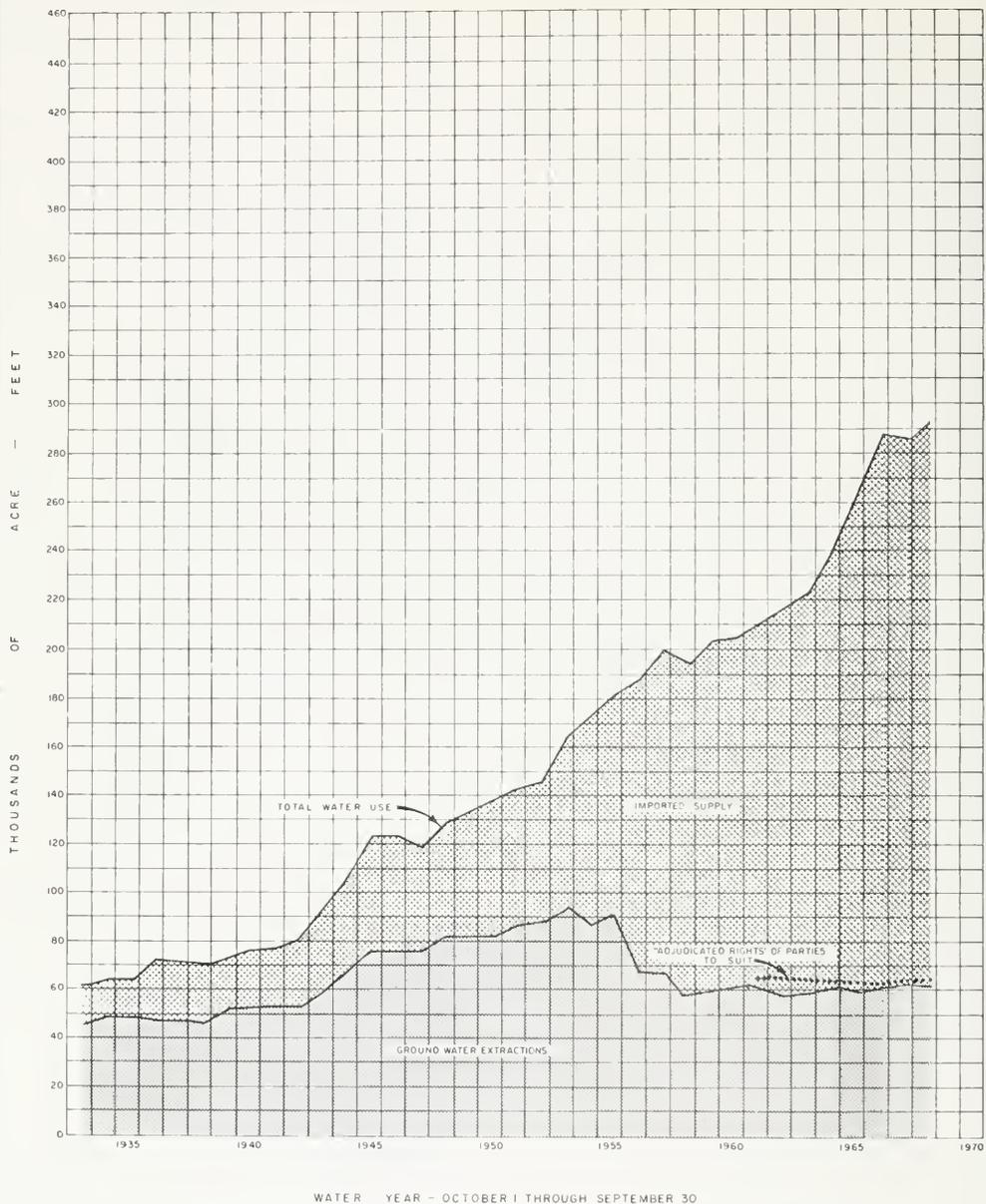


Figure 4 - GROUND WATER EXTRACTIONS AND TOTAL WATER USE BY PARTIES TO WATERMASTER SERVICE

CHAPTER III. WATER USE

In the year 1967-68, water purveyors in the West Coast Basin served more than 293,000 acre-feet of water to their customers. This represents the largest water use ever in the basin.

A rapid population increase in the West Coast Basin area has caused the water demand to increase substantially since 1943. Between 1943 and 1955, ground water from the West Coast Basin served most of the demand. However, the Judgment reduced extraction to about 60,000 acre-feet annually, so imported water rapidly became the largest component of the water supply used in the basin.

Figure 4 graphically illustrates the annual ground water extraction and total water use from 1933 to the present. Much of the increased demand during the past five years may be attributed to the barrier projects. However, the West Basin Barrier was completed last year, so the demand for that purpose will probably level off and stabilize soon.

Figure 5 provides another graphical analysis of the monthly relationship between rainfall, ground water extractions, and imported supplies. It is quite obvious that climatic conditions play an important role in water demand.

Ground Water Extractions

The West Coast Basin Judgment limits the amount of ground water that each party can extract annually from the Basin or release to the Exchange Pool for pumping by other parties. Recipients of exchange water may pump the amount released to them in addition to their Adjudicated Right. Table 4 is a balance sheet summarizing each party's "water account" by listing each party's Adjudicated Right (see Appendix A for any changes), carryover, exchange pool transaction, and ground water extraction during the 1967-68 water year.

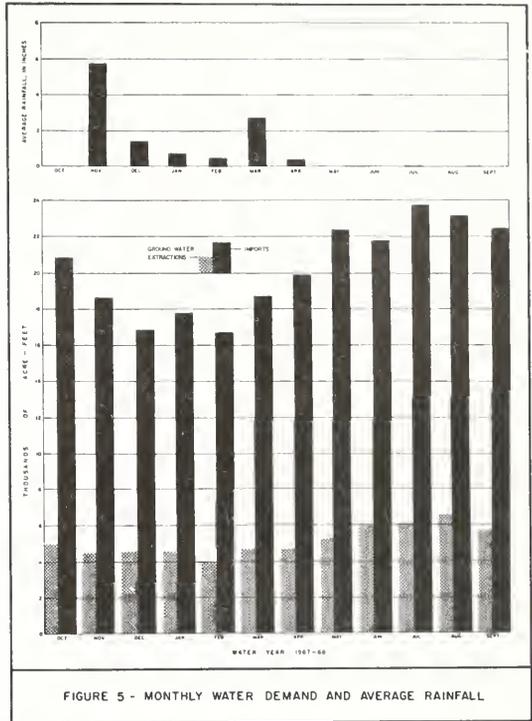


FIGURE 5 - MONTHLY WATER DEMAND AND AVERAGE RAINFALL

DEPARTMENT OF WATER RESOURCES, SOUTHERN DISTRICT, 1968

TABLE 4

ADJUDICATED RIGHTS AND AMOUNT OF WATER PUMPED AND EXCHANGED
In acre-feet

Party	(1) Adjudicated Right	(2) Exchange water purchased (+) or sold (-)	(3) Allowable carryover from 1966-67	(4) Net leases ^{1/}	(5) Allowable extraction (1)-(2)+(3)-(4)-(2)	(6) Amount pumped	(7) Balance (5)-(6)-7	(8) Allowable carryover into 1966-69
ABC Nursery, Incorporated	20.30	- 20.30	+ 2.03		2.03	3.37	+ 1.34	- 1.34
American Plant Growers Incorporated	10.00	+ 34.00	- 17.09		26.91	10.33	+ 8.58	- 8.58
Associated Southern Investment Company	0.70		0.00	- 46.70	0.00	0.00	0.00	0.00
Atlantic Richfield Company	4,428.00		+ 2.04	+ 4,553.00	8,983.04	8,978.40	+ 4.64	+ 4.64
Ballman, Frank A. and Rosemary M.	7.00	- 7.00	+ 2.00		2.00	0.00	+ 2.00	0.00
Barclay, Richard and R. A. Watt	0.00	+ 79.00	- 78.29		0.71	0.00	+ 0.71	+ 0.71
California Water Service Company	3,071.00		+ 377.10		3,378.10	2,220.89	+ 1,157.21	+ 307.10
Carson Estate Company	136.00		+ 13.00		143.00	41.79	+ 101.21	+ 13.00
Carson-Nadrona Company	104.00		0.00	- 104.00	0.00	0.00	0.00	0.00
Chandler's Palms Verdes Sand and Gravel Corporation	294.20		+ 29.42		323.62	264.86	+ 58.76	+ 29.42
Coast Forest Products ^{2/}	3.40		+ 2.00		5.40	0.00	+ 5.40	+ 2.00
Columbia Broadcasting System Incorporated	12.50		+ 2.00		14.50	0.00	+ 14.50	+ 2.00
Curtis, Owen W.	0.36		+ 2.00		2.36	0.17	+ 2.19	+ 0.36
Delaney, Golda, Estate of	4.10		+ 2.00		6.10	0.00	+ 6.10	+ 2.00
Desser Enterprises	0.00	+ 2.00	- 0.18		1.82	0.38	+ 1.44	+ 1.44
Dominguez Water Corporation	10,058.25		+ 306.115 ^{1/}	- 1,314.70	9,049.66	9,310.43	- 260.77	- 260.77
El Segundo, City of	953.00		0.00	- 953.00	0.00	0.00	0.00	0.00
Elocherry, Caroline, Estate of	8.20		+ 2.00		10.20	0.00	+ 10.20	+ 2.00
Fleish, Leslie R. and Andor Paternak, et al.	3.96		+ 2.00		5.96	0.00	+ 5.96	+ 2.00
Fletcher Oil and Refining Company	86.30		+ 6.01	- 25.00	67.31	66.64	+ 0.67	+ 0.67
Pujimoto, Samuel R. and Raymond S.	20.00		+ 2.00		22.00	7.46	+ 14.54	+ 2.00
Gillingham, Florence R., et al.	2.40	- 2.40	+ 2.00		2.00	0.00	+ 2.00	0.00
Gonzalez, Felipe and Gabriela	34.30		+ 2.00	- 34.30	2.00	0.00	+ 2.00	0.00
Grant, John, Estate of	59.00	- 59.00	+ 5.90		5.90	0.00	+ 5.90	0.00
Harris, R. and L.	0.70		+ 2.00		2.70	0.00	+ 2.70	+ 0.70
Harris Tube, Incorporated	0.70		+ 2.00		2.70	0.00	+ 2.70	+ 0.70
Hasthorpe, City of	1,882.00		+ 97.32		1,979.32	1,582.77	+ 396.55	+ 188.20
Hillside Memorial Park	29.20	+ 90.00	- 18.36		100.84	89.46	+ 11.38	+ 3.46
Hollywood Turf Club	282.00		+ 2.00		284.23	287.89	- 3.66	- 3.26
Hornstein, Wilbur	34.10		+ 2.00		36.10	2.45	+ 13.65	+ 2.00
Industrial Chemical Division- Allied Chemical Corporation	255.00		+ 25.50		280.50	133.09	+ 147.41	+ 25.50
Inglewood, City of	4,383.80		- 43.96		4,339.84	4,375.505 ^{1/}	- 35.68	- 35.68
Inoue, Kenichi	1.90		+ 2.00	+ 2.20	6.10	11.21	- 5.11	- 5.11
Ishibashi, Aki	0.00	+ 20.00	+ 1.06		21.06	26.15	- 5.09	- 5.09
Jenkins, Harry C.	1.80		+ 3.80		5.60	0.00	+ 5.60	+ 1.80
Johns-Manville Products Corporation	881.00		+ 88.10		969.10	976.04	- 6.94	- 6.94
Joughie Torrance Ranch	20.25		+ 2.03		22.28	0.00	+ 22.28	+ 2.03
Jungquist, Fred A.	3.70		0.00	- 3.70	0.00	0.00	0.00	0.00
Larsena, Alfred	0.70		+ 1.42		2.19	0.00	+ 2.19	+ 0.70
Leuzinger, Emma L.	1.40		+ 2.00		3.40	0.00	+ 3.40	+ 1.40
Long Beach, City of	0.70		+ 2.00		2.70	0.00	+ 2.70	+ 0.70
Lopes, Frank	3.70		0.00		3.70	0.00	+ 3.70	+ 2.00
Los Angeles, City of	1,503.00		- 2.39		1,500.61	1,500.62	- 0.01	- 0.01
Los Angeles County-Alondra Park	67.70		0.00		67.70	663.65	- 595.95 ^{1/}	- 0.30
Los Angeles County Sanitation District No. 2	102.00		- 1.32		98.68	125.71	- 27.03	- 27.03
Los Angeles County Waterworks District No. 13	1,352.00		+ 35.17		1,387.17	297.33	+ 1,089.84 ^{1/}	+ 135.20
Los Angeles County Waterworks District No. 22	551.00		0.00		551.00	756.70	- 205.70 ^{1/}	0.00
Los Angeles County-Western Avenue Golf Course	296.00	- 20.00	+ 7.72		283.72	230.11	+ 53.61 ^{1/}	+ 29.60
Loyola University of Los Angeles	48.10		0.00	- 48.10	0.00	0.00	0.00	0.00
Manhattan Beach, City of	1,131.20		+ 2.35	- 1,100.00	33.55	32.35	+ 1.20	+ 1.20
Wayflower Nurseries	0.00	+ 7.00	+ 0.73		7.73	6.01	+ 1.72	+ 1.72
McDonnell Douglas Corporation ^{2/}	1.70		+ 2.00		3.70	0.04	+ 3.66	+ 1.70
Mobil Oil Corporation	2,570.00		+ 114.55	+ 1,500.00	4,184.55	4,199.40	- 14.85	- 14.85
Moran, Ronald R.	6.00		+ 2.00		8.00	0.00	+ 8.00	+ 2.00
Mori, Roy H. and Kenji	5.00		+ 2.00		7.00	0.00	+ 7.00	+ 2.00
Murdock, George R.	1.37		+ 2.00		3.37	0.00	+ 3.37	+ 1.37
Morris, A. Division of Northrop Corporation	1.80		+ 38.15		4.97	0.00	+ 4.97	+ 3.82
Romantic Park	0.00		0.00		0.00	0.00	0.00	0.00
Ortiz, Chisato	0.00		- 23.00 ^{1/}	+ 50.60	27.60	65.76	- 38.16 ^{1/}	- 38.18
Pacific Crest Cemetery Company	39.40		+ 3.94		43.34	33.61	+ 9.73	+ 3.94
Palms Verdes Begonia Farm	0.00	+ 3.00	+ 0.20		3.20	2.37	+ 0.83	+ 0.63
Palms Verdes Water Company	999.00		0.00	- 999.00	0.00	0.00	0.00	0.00
Park Water Company	160.00	+150.00	- 2.17		312.17	323.19	- 11.02	- 11.02
Phillips Petroleum Company	187.00		+ 16.70		203.70	0.00	+ 203.70	+ 16.70
Rahr, Josephine P.	2.20		0.00	- 2.20	0.00	0.00	0.00	0.00
Rockwell, Michael L.	0.10		+ 0.60		0.70	0.00	+ 0.70	+ 0.10
Roman Catholic Archbishop of Los Angeles	72.30		- 47.38		24.92	118.33	- 93.41	- 93.41
Santa Fe Land Improvement Company	39.50	- 39.50	+ 0.00		0.00	0.00	0.00	0.00
Sheets, Esther M.	5.50		+ 2.00		7.50	0.93	+ 6.57	+ 2.00
Shell Oil Company	4,526.00		+ 452.60		4,978.60	4,695.76	+ 282.84	+ 271.85
Shinda Brothers, Incorporated	22.50		+ 2.25		24.75	16.62	+ 8.13	+ 2.25
Southern California Edison Company	10.40		0.00 ^{1/}	- 3.90	6.50	6.50	0.00 ^{1/}	0.00
Southern California Water Company	6,548.04		- 0.15		6,548.19	6,549.23	- 0.74	- 0.74
Spanish American Institute	44.40		+ 4.44		48.84	21.08	+ 27.76	+ 4.44
Sperklets Drinking Water Corporation	192.60		+ 15.26		207.86	51.83	+ 156.03	+ 15.26
Standard Oil Company of California	4,601.30		+ 360.13	- 2,500.00	2,461.43	1,979.35	+ 482.08	+ 210.13
Stauffer Chemical Company	521.00		+ 52.10		573.10	549.91	+ 23.19	+ 23.19
Superior Gas Company	26.40		+ 2.64		29.04	0.00	+ 29.04	+ 2.64
Texaco, Incorporated	3,432.00		+ 53.37	+ 1,037.00	4,522.37	3,003.27	+ 1,519.10	+ 446.50
Thomson, Walter and Lois A. Lebliss ^{2/}	3.50		+ 112.08		115.58	5.50	+ 110.08	+ 3.50
Torrance, City of	3,795.73		- 112.08		3,683.65	3,688.58	- 5.93	- 5.97

(Continued on next page)

ADJUDICATED RIGHTS AND AMOUNT OF WATER PUMPED AND EXCHANGED
In acre-feet
(continued)

Party	(1) Adjudicated Right	(2) Exchange water purchased (+) or sold (-)	(3) Allowable carryover from 1966-67	(4) Net leases ^{a/}	(5) Allowable extraction (1)-(2)+(3)-(4)-(5)	(6) Amount pumped	(7) Balance (5)-(6)-7	(8) allowable carryover into 1968-69
Union Nursery, Incorporated		4.70	+ 10.00	- 1.45	16.15	10.99	+ 5.16	+ 2.46 ^{b/}
Union Oil Company of California		2,670.00		- 31.87	2,638.13	2,066.51	- 248.38	- 248.38
United States Steel Corporation		1,791.00	- 266.80	+ 70.59	1,594.79	1,352.83	+ 241.96	+ 179.10
Watson Land Company		42.50		+ 4.26	46.76	46.38	+ 0.48	+ 0.48
Watt, R. A. Incorporated		0.00		0.00	0.00	0.00	0.00	0.00
Wiseburn School District		8.20		- 8.20	0.00	0.00	0.00	0.00
Ziegler, Maxwell T.		0.00	+ 20.00	0.00	20.00	41.52	- 21.52	- 21.52
TOTALS		64,468.95	0.00	+ 1,763.23	0.00	66,838.24	61,553.76	+ 4,678.48

^{a/} See Appendix A for explanation of new party or Table B for leased water right entitlement.

^{b/} Entire amount is Exchange Pool water.

^{c/} Includes acquired "allowable carryover" shown in Table B.

^{d/} Includes 0.54 acre-feet of Exchange Pool water.

^{e/} Includes extractions by Inglewood Golf Course.

^{f/} Extractions by Los Angeles County; Alondra Park, Waterworks District Nos. 13 and 22, and Western Avenue Golf Course are covered by an equivalent water right in an exchange pool. All three water rights are combined and any remainder is divided between the southern districts in proportion to water right.

^{g/} Allowable carryover and balance are corrected to reflect collective usage by Chisato Otani, who is leasing the Associated Southern Investment and Southern California Edison Company's property and water supply facilities in conjunction with his well and property.

^{h/} Includes 0.46 acre-feet of Exchange Pool water.

The metered ground water production from each active well in the Basin is listed by party in Appendix B, Table B-1. This tabulation shows the total ground water production as reported by each party.

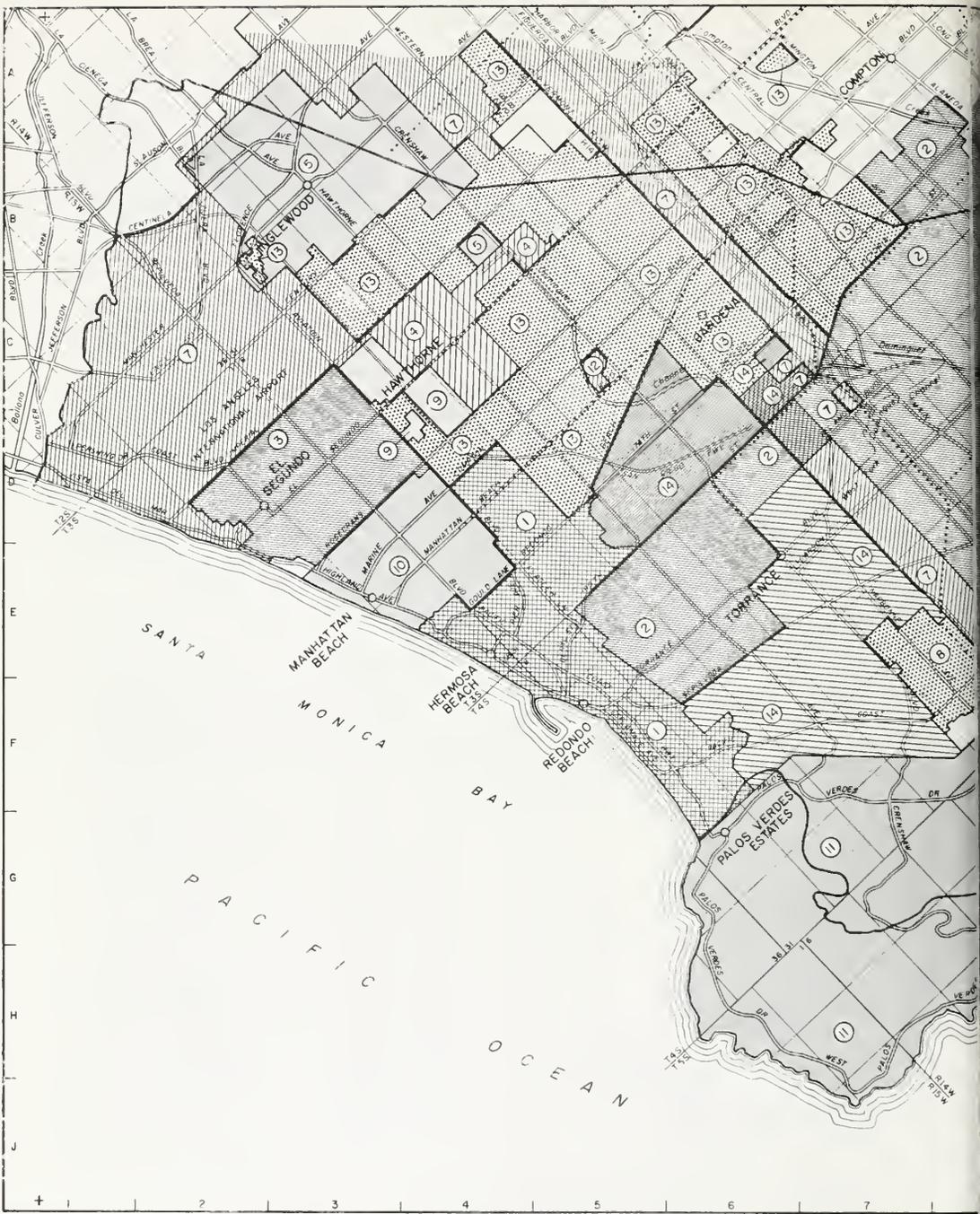
A report on the gross water supply of all parties appears in Table B-2 of Appendix B. The gross water supply includes all sources of water supply necessary to provide each party's total water requirement for its service area, as shown on Plates 5 and 6.

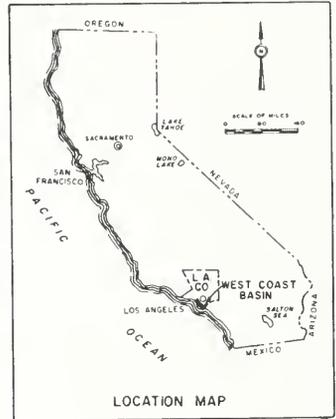
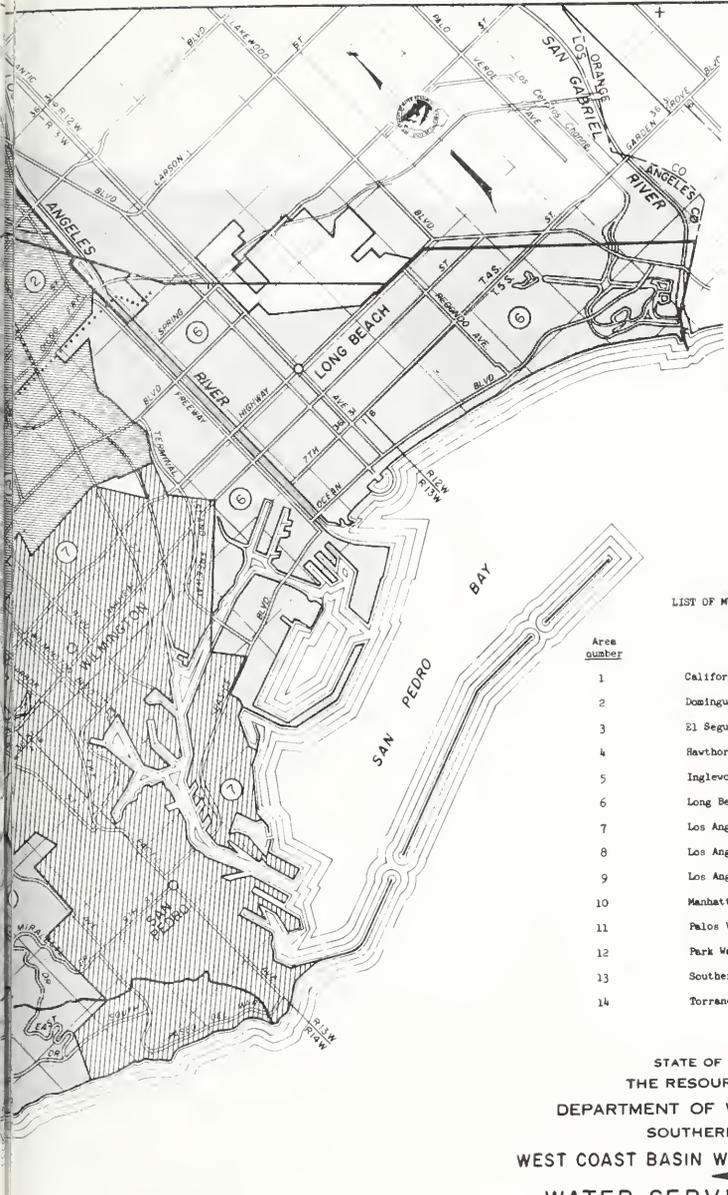
Extractions by Nonparties and
Parties with No Adjudicated Right

Several nonparties and parties with zero Adjudicated Rights pump water from the West Coast Basin. Parties with a zero water right have abided by the Judgment by offsetting their extractions with Exchange Pool water purchases. The extraction each pumper reported to the Central and West Basin Water Replenishment District was:

<u>Pumper</u>	<u>State Well No.</u>	<u>Amount pumped, in acre-feet</u>
Cost, Edward	3S/13W-30Q1	0.30
Desser Enterprises*	4S/13W-15Q1	0.38
Ishibashi, Aki*	4S/14W-24A1	26.15
Mayflower Nursery*	3S/14W-25K6	
	3S/13W-31B7	6.01
McFadden, John K.	3S/13W-19K2	0.68
Otani, Chisato*	3S/14W-33R4	65.76
Palos Verdes Begonia Farm*	4S/14W-21N1	2.57
Pet Haven Cemetery and Crematory	3S/13W-31K2	3.27
Pioneer Paper Stock Company	3S/13W-31C2	2.52
Three Star Nursery	3S/14W-33R3	5.51
Ziegler, Maxwell*	3S/13W-31M1	41.52
TOTAL		154.67

*Parties to the Judgment, shown in Table 4.





LIST OF MUNICIPAL, MUTUAL AND PUBLIC UTILITY WATER SERVICE AGENCIES

Area number	Entity	Location on plate
1	California Water Service Company	F-5
2	Domiguez Water Corporation	C-8
3	El Segundo, City of	D-3
4	Hawthorne, City of	C-4
5	Inglewood, City of	E-3
6	Long Beach, City of	C-11
7	Los Angeles, City of	E-9
8	Los Angeles County Waterworks District No. 13	E-8
9	Los Angeles County Waterworks District No. 22	C-4
10	Manhattan Beach, City of	E-4
11	Palos Verdes Water Company	G-6
12	Park Water Company	C-5
13	Southern California Water Company	B-5
14	Torrance, City of	E-7

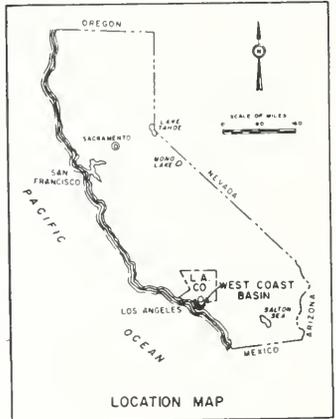
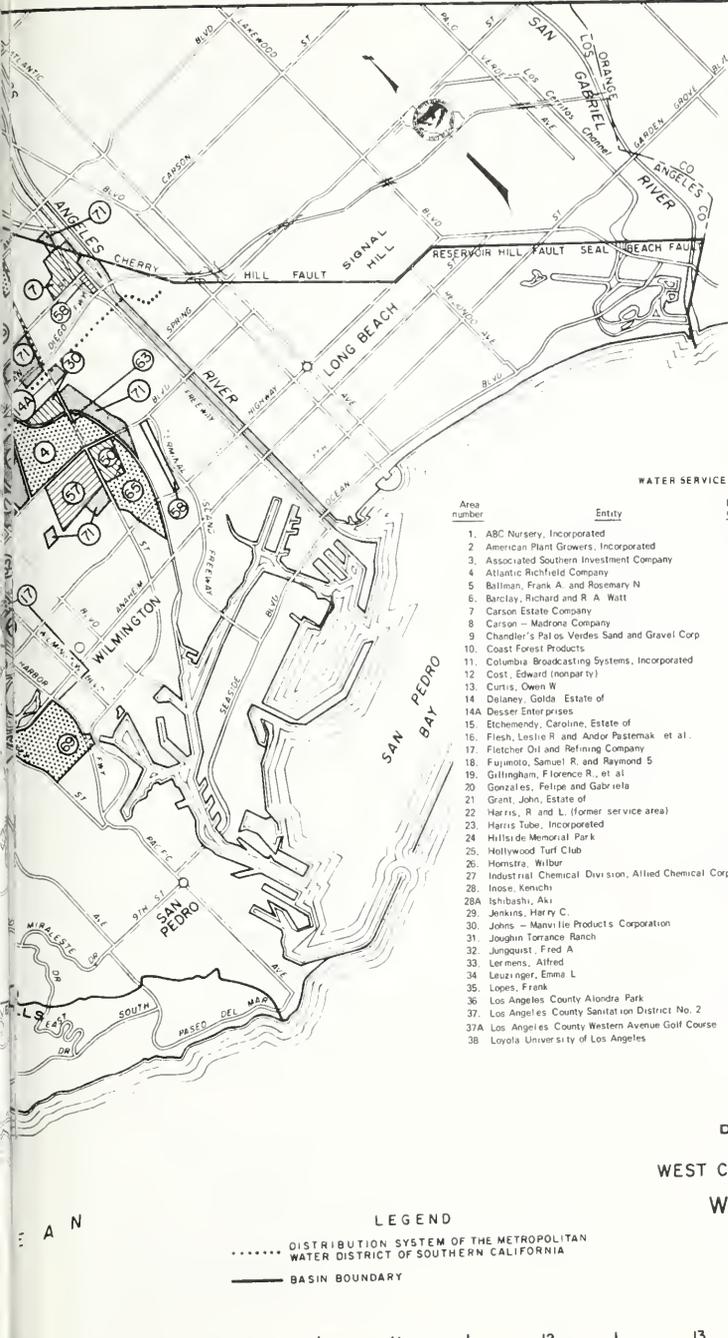
STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 DEPARTMENT OF WATER RESOURCES
 SOUTHERN DISTRICT
 WEST COAST BASIN WATERMASTER SERVICE

WATER SERVICE AREAS OF
 MUNICIPAL, MUTUAL AND PUBLIC UTILITY
 WATER SERVICE AGENCIES
 SEPTEMBER 1968

LEGEND

..... DISTRIBUTION SYSTEM OF THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
 ——— BASIN BOUNDARY





INDEX

WATER SERVICE AREA OF INDIVIDUAL PRODUCERS

Area number	Entity	Location on plate	Area number	Entity	Location on plate
1.	ABC Nursery, Incorporated	B-7	39	Mayflower Nurseries	C-6, 7
2.	American Plant Growers, Incorporated	D-8	40	McConnell Douglas Corporation	D-6
3.	Associated Southern Investment Company	D-6	41	McFadden, John K. (nonparty)	D-6
4.	Atlantic Richfield Company	C-9	42	Mobil Oil Corporation	B-6
5.	Ballman, Frank A. and Rosemary N.	B-2	42A	Moran, Ronald E.	D-6
6.	Barclay, Richard and R. A. Watt	E-7	42B	Mori, Roy H. and Kenji	C-6
7.	Carson Estate Company	B-7, 9	43.	Murdock, George R.	E-8
8.	Carson - Madrona Company	E-6	44	Norair, A division of Northrop Corporation	C-4
9.	Chandler's Palms Verdes Sand and Gravel Corp	F-7	45.	Noramide Park (former service area)	E-8
10.	Coast Forest Products	B-8	46	Otani, Chisato	C-7
11.	Columbia Broadcasting Systems, Incorporated	D-5	47	Pacific West Cemetery Company	D-5
12.	Cost, Edward (nonparty)	C-7	48	Palms Verdes Begonia Farm	F-6
13.	Curtis, Owen W.	B-6	49	Pet Haven Cemetery	C-7
14.	Dalaney, Golda Estate of	D-8	50	Phillips Petroleum Company	D-9
14A	Desser Enterprises	C-9	51	Pioneer Paper Stock (nonparty)	C-6
15.	Etchemendy, Caroline, Estate of	C-7	52	Retor, Josephine P.	B-6
16.	Fleish, Leslie R. and Anzor Pastmak et al.	C-6	53	Rockwell, Michael L.	B-6
17.	Fletcher Oil and Refining Company	D-8	54	Roman Catholic Archbishop of Los Angeles	B-1
18.	Fujimoto, Samuel R. and Raymond S.	B-6	56	Santa Fe Land Improvement Company	D-4
19.	Gillingham, Florence R. et al.	B-4	56	Sheets, Esther M.	C-7
20.	Gonzales, Felice and Gabriela	D-5	57	Shell Oil Company	C-8, D-9
21.	Grant, John, Estate of	B-7	57A	Shimoda Brothers, Incorporated	D-6
22.	Harris, R. and D. (former service area)	D-5	58	Southern California Edison Company	B-9, D-5, 10
23.	Harris Tube, Incorporated	B-7	59	Spanish American Insulation	B-6
24.	Hills de Memorial Park	B-2	60.	Sparks Kettle Drinking Water Corporation	B-6
25.	Hollywood Turf Club	B-3	61.	Standard Oil Company of California	D-3
26.	Hornstra, Wilbur	C-6	62A	Standard Oil Company of California, Lessee	(See marginal map)
27.	Industrial Chemical Division, Allied Chemical Corp	D-3	63	Stauffer Chemical Company	C-8, 9
28.	Inose, Kenichi	B-7	64	Superior Oil Company, Lessee	(See marginal map)
28A	Ishibashi, Aki	B-5			
29.	Jenkins, Harry C.	C-9	65	Texaco, Incorporated	D-9
30.	Johns - Manville Products Corporation	E-7, 8	66	Thaxter, Walter and Lois A. LeNour	D-5
31.	Jouglin Torrance Ranch	D-9	67	Three Star Nursery Incorporated (nonparty)	D-5
32.	Jungquist, Fred A.	E-8	68	Union Nursery, Inc.	B-7
33.	Lorrens, Alfred	C-3	69	Union Oil Company of California	E-9
34.	Luzburger, Emma L.	C-6	70.	United States Steel Corporation	D-6
35.	Lopes, Frank	D-5	71	Watson Land Company	B-9
36.	Los Angeles County Alondra Park	E-8	72	Watt, R. A., Incorporated	E-8
37.	Los Angeles County Sanitation District No. 2	D-5	73	Wiseburn School District	D-4
37A	Los Angeles County Western Avenue Golf Course	B-5	74	Ziegler, Maxwell	C-6
38.	Loyola University of Los Angeles	C-1			

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SOUTHERN DISTRICT

WEST COAST BASIN WATERMASTER SERVICE

WATER SERVICE AREAS OF
INDIVIDUAL PRODUCERS
SEPTEMBER 1968

SCALE OF MILES



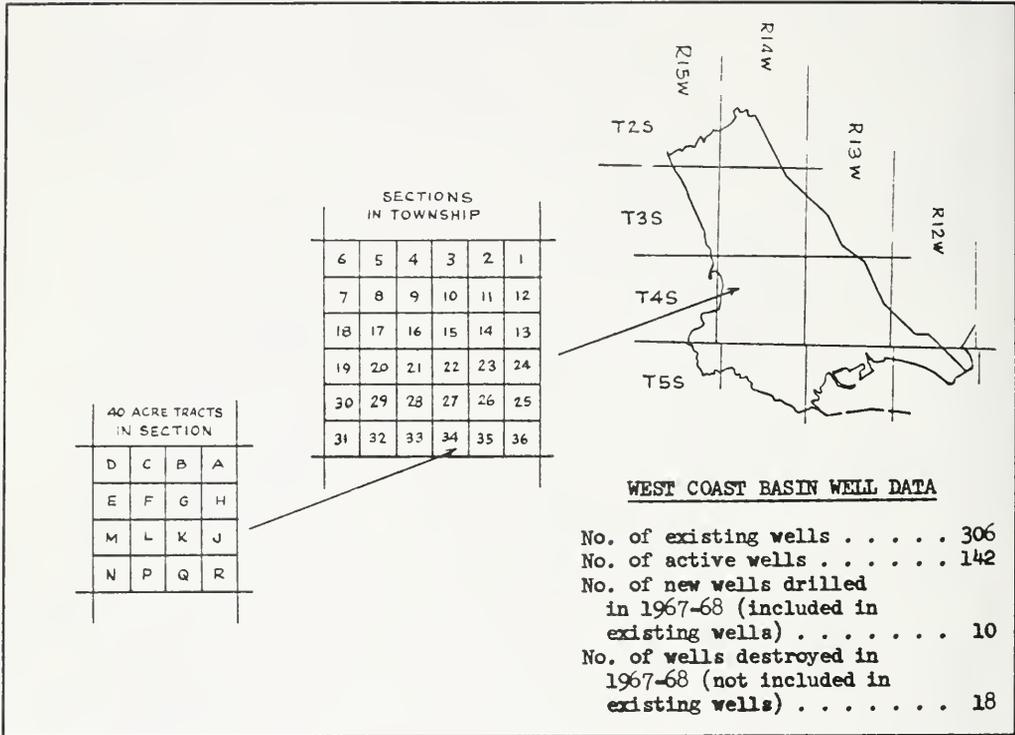
1968

LEGEND

- DISTRIBUTION SYSTEM OF THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
- BASIN BOUNDARY

Water Wells in the West Coast Basin

Each water well in the West Coast Basin is assigned a state well number to simplify locating the well. The state well numbering system was adopted several years ago from the United States Public Land Survey System. A graphical illustration of the system in the West Coast Basin is shown below.



Each state well number consists of a township, range, and section number; a letter to indicate the 40-acre plot where the well is located; a number to identify the particular well in a section; and the letter "S" indicating that the well is referenced to the San Bernardino Base and Meridian.

For instance, state well number 4S/14W-12E6S would be the sixth well assigned a number in Township 4 South, Range 14 West, 40-acre Tract "E" in Section 12. All wells in Los Angeles County are referenced to the San Bernardino Base and Meridian, so the letter "S" is dropped in this report.

Imported Supplies

Earlier it was noted that large quantities of water are imported to the West Coast Basin from other sources. Water from the Colorado River arrives through the facilities of the Metropolitan Water District of Southern California, for distribution by the Cities of Long Beach, Los Angeles, Torrance, and the West Basin Municipal Water District. The City of Los Angeles also imports water from the Owens River-Mono Basin in east Central California. The City is currently completing the second barrel of its aqueduct to that source of supply. The Dominguez Water Corporation, the City of Long Beach, and the Southern California Water Company import ground water from the Central Basin to supplement other supplies. All imports to the West Coast Basin are listed in Table 5.

TABLE 5
QUANTITY OF IMPORTED WATER

Entity Importing Water	:	:	Imported Supply,	
			Source :	In Acre-feet
	:	:	1966-67	1967-68
Dominguez Water Corporation	1		2,569	4,265
Long Beach, City of	2		30,117	30,461
Los Angeles, City of	4		48,670	52,250
Southern California Water Company	1		1,658	1,193
Torrance, City of	3		17,858	19,319
West Basin Municipal Water District	3		<u>132,842*</u>	<u>135,695*</u>
TOTALS			233,714*	243,183*

Sources of Imported Water	:	:	Desig- :	
			nation :	1966-67 : 1967-68
	:	:	1966-67	1967-68
Central Basin Ground Water	1		4,227	5,458
Central Basin Ground Water and Colorado River Water	2		30,117	30,461
Colorado River Water	3		150,700	155,014
Owens River-Mono Basin Water and Colorado River Water	4		<u>48,670</u>	<u>52,250</u>
TOTALS			233,714	243,183

*Includes 43,060 and 39,582 acre-feet delivered to Los Angeles County Flood Control District by the City of El Segundo for West Coast Basin Barrier Project in water years 1966-67 and 1967-68, respectively.

Exported Supplies

Exports from the West Coast Basin are small. The City of Inglewood exported 3,315 acre-feet of ground water and Colorado River water to the Central Basin. The City of Los Angeles exported 1,250 acre-feet and the Palos Verdes Water Company exported 6,880 acre-feet of ground water and Colorado River water to portions of their service areas lying west of the Palos Verdes Hills (see Plate 5).

The Roman Catholic Archbishop of Los Angeles (Holy Cross Cemetery) exports and imports water from the basin each day since its service area lies on both sides of the boundary. However, the net export or import is very small and may be disregarded.

CHAPTER IV. ADMINISTRATION OF THE JUDGMENT

The West Coast Basin Judgment was a logical step toward preserving the usefulness of a valuable resource. It provided a flexible tool to limit extractions and still allow a beneficial use of the ground water supply. However, the restrictions on extractions imposed by the Judgment forced the parties to look for other supplies. Fortunately, other sources of water were available. If they had not been, the rapidly increasing demand for water might have literally bankrupted the basin before other basin management techniques could be developed.

Exchange Pool

The Court and parties foresaw that adjudicating the water rights in the West Coast Basin, and limiting the total extractions within the basin, would not be satisfactory to all parties. Paragraph VII of the Judgment authorized a water Exchange Pool to provide additional water rights for members without supplementary supplies. Membership in the Exchange Pool is voluntary, and any party can join by filing an "Intention to be Bound by Paragraph VII of the Judgment" with the Watermaster and the Court.

Once each year, during the month of July, the Watermaster opens the Exchange Pool to permit inter-member water right leases in accordance with the Judgment. Tables 6 and 7 summarize last year's Exchange Pool transactions.

TABLE 6
EXCHANGE POOL REQUESTS

Party	:Amount of Water Re-: :ceived, in acre-feet:	Cost of Exchange Water ^{a/}
American Plant Growers, Incorporated	34.00	\$ 476.05
Barclay, Richard and R. A. Watt	79.00	1,106.14
Desser Enterprises	2.00	28.00
Hillside Memorial Park	90.00	1,260.15
Ishibashi, Aki	20.00	280.04
Mayflower Nurseries	7.00	98.01
Palos Verdes Begonia Farm	3.00	42.00
Park Water Company	150.00	2,100.25
Union Nursery, Incorporated	10.00	140.02
Ziegler, Maxwell T.	20.00	280.04
TOTALS	415.00	\$ 5,810.70

a/ Cost at \$14.0017 per acre-foot.

TABLE 7

EXCHANGE POOL OFFERS

Party	:Amount, In Acre-Feet:		Price : Per : Acre-Foot	:Charge for : Exchange : Water
	: Offered :	: Released :		
<u>Mandatory Offers</u>				
Grant, John, Estate of	59.00	59.00	\$ 11.50	\$ 678.50
Ballman, Frank A. and Rosemary N.	7.00	7.00	12.00	84.00
Gillingham, Florence R., et al.	2.40	2.40	12.00	28.80
Los Angeles County Western Avenue Golf Course	20.00	20.00	12.00	240.00
ABC Nursery, Incorporated	20.30	20.30	13.00	263.90
Santa Fe Land Improvement Company	39.50	39.50	13.00	513.50
United States Steel Corporation	950.00	266.80	15.00	4,002.00
Carson Estate Company	43.00	0	37.00	--
Inglewood, City of	2,360.00	0	39.30	--
Shell Oil Company	166.00	0	45.08	--
Hollywood Turf Club	12.00	0	47.00	--
Johns-Manville Products Corporation	86.00	0	58.00	--
Fletcher Oil and Refining Company	23.30	0	59.75 ^{a/}	--
Stauffer Chemical Company	108.00	0	64.08 ^{a/}	--
Los Angeles County Sanitation District No. 2	24.00	0	65.00	--
TOTALS	3,920.50	415.00		\$5,810.70
<u>Voluntary Offers</u>				
California Water Service Company	850.00	0	\$ 25.00	--
Wiseburn School District	8.20	0	20.00	--
TOTALS	858.20	0		

a/ Cost assuming all of the offered water was sold.

Each member is requested to estimate his water requirement and supply for the approaching water year. If his total supply, including supplemental water, exceeds his estimated requirement, the member must make a Mandatory Offer to lease a portion of his pumping right. The Mandatory Offer should be the difference between his Adjudicated Right and one-half his estimated requirement. Under no circumstance, however, can the Mandatory Offer plus the estimated requirement exceed the total supply. Therefore, the Mandatory Offer must be limited to an amount which can be replaced with supplemental water.

There is another type of offer called the Voluntary Offer. Any member may voluntarily offer pumping rights to the Exchange Pool if his supply exceeds his estimated requirement and no supplementary supply is available. However, the Watermaster must allocate all of the Mandatory Offers before using the Voluntary Offers. Hence, Voluntary Offers have not been used for several years.

The price a member may charge for a Mandatory Offer cannot exceed the cost per acre-foot of replacement water. The price for Voluntary Offers cannot exceed the price per acre-foot charged by the West Basin Municipal Water District for imported water. The Watermaster determines the amount of water required and computes the price to be paid for requests.

If a member's estimated requirement exceeds his total supply, including leases, and he has no supplementary supply, the difference may be requested from the Exchange Pool. The cost per acre-foot is the weighted average price per acre-foot of all the offers which are required to meet requests.

Transfers of Adjudicated Rights

The West Coast Basin Exchange Pool is not the only method of obtaining additional pumping rights. Each year there are several lease and sale transactions between parties. Table 8 lists all leases, sales, parties, and amounts involved. Appendix A contains a copy of the document substantiating each transfer.

Appendix A also contains samples of our recommended lease and sale agreements. Most of the documents received by the Watermaster are unnecessarily complex. The Watermaster recommends that all documents be prepared on 8-1/2 x 11-inch paper. Any necessary additions to the recommended agreement may be attached to another page. You need not use these sample documents, but they are sufficient for most purposes.

TABLE 8
TRANSFERS OF ADJUDICATED RIGHTS

Party	Transaction	Party	Adjudicated Right, in acre-feet	
Atlantic Richfield Company	leased from	Dominguez Water Corporation	+1,500.00	
	leased from	El Segundo, City of	+ 953.00	
	leased from	Manhattan Beach, City of	+1,100.00	
	leased from	Standard Oil Company of California	<u>+1,000.00</u>	+4,553.00
Carson-Madrone	leased to	Dominguez Water Corporation		- 104.00
Coast Forest Products	purchased from	Southwest Steel Rolling Mills		+ 3.40 ^a
Dominguez Water Corporation	leased to	Atlantic Richfield Company	-1,500.00	
	leased from	Carson-Madrone	+ 104.00	
	leased from	Fletcher Oil and Refining Company	+ 25.00	
	leased from	Loyola University of Los Angeles	+ 48.10	
	purchased from	Watt, R. A. Incorporated	+ 61.85 ^b	
	leased from	Wiseburn School District	<u>+ 8.20</u>	-1,252.85
El Segundo, City of	leased to	Atlantic Richfield Company		- 953.00
Fletcher Oil Company	leased to	Dominguez Water Corporation		- 25.00
Gonzales, Felipe and Gabriela	leased to	Texaco, Incorporated		- 34.30
Inose, Kenichi	leased from	Rehor, Josephine		+ 2.20
Jungquist, Fred A.	leased to	Texaco, Incorporated		- 3.70
Loyola University of Los Angeles	leased to	Dominguez Water Corporation		- 48.10
Manhattan Beach, City of	leased to	Atlantic Richfield Company		-1,100.00
Mobil Oil Corporation	leased from	Standard Oil Company of California		+1,500.00
Palos Verdes Water Company	leased to	Texaco, Incorporated		- 999.00
Rehor, Josephine	leased to	Inose, Kenichi		- 2.20
Southwest Steel Rolling Mills	sold to	Coast Forest Products		- 3.40 ^a
Standard Oil Company of California	leased to	Atlantic Richfield Company	-1,000.00	
	leased to	Mobil Oil Corporation	<u>-1,500.00</u>	-2,500.00
Texaco, Incorporated	leased from	Gonzales, Felipe and Gabriela	+ 34.30	
	leased from	Jungquist, Fred A.	+ 3.70	
	leased from	Palos Verdes Water Company	<u>+ 999.00</u>	+1,037.00
Watt, R. A., Incorporated	sold to	Dominguez Water Corporation		- 61.85 ^b
Wiseburn School District	leased to	Dominguez Water Corporation		- 8.20

a/ In addition, 2.00 acre-feet carryover from 1966-67 water year were leased.

b/ In addition, 6.19 acre-feet carryover from 1966-67 water year were leased.

Overextractions

Each year some parties extract more water from the West Coast Basin than they are entitled to. The overextractions are usually small, within the tolerance set by the Judgment. Each party may overextract by 2 acre-feet or 10 percent of its Adjudicated Right, on the premise that the over-extraction will be eliminated during the following year. Most overextractions are the result of an unexpected increase in water demand so it would be unreasonable not to allow some deviation from the limits and guidelines of the Judgment. Table 9 summarizes all overextractions during the water year.

TABLE 9
OVEREXTRACTIONS
In acre-feet

Party	: Adjudicated Right	: Allowable Carryover from 1966-67 water year:	: Net leases	: Exchange water purchased (+) or sold (-)	: Allowable extractions	: Amount pumped	: Over-extraction	: Adjudicated Right
ABC Nursery Incorporated	20.30	+ 2.03		- 20.30	2.03	3.37	- 1.34	6.6C
Dominguez Water Corporation	10,058.25	+306.11	-1,314.70		9,049.66	9,310.43	-260.77	2.59
Hollywood Turf Club	282.00	+ 2.23			284.23	287.49	- 3.26	1.15
Inglewood, City of	4,383.80	- 43.96			4,339.84	4,375.52	- 35.68	0.81
Inose, Kenichi	1.90	+ 2.00	+ 2.2C		6.10	11.21	- 5.11	268.94
Ishibashi, Aki	0.00	+ 1.06		+ 20.00	21.06	26.15	- 5.09	--
Johns-Manville Products Corporation	881.00	+ 88.10			969.10	976.04	- 6.94	0.78
Los Angeles, City of	1,503.00	- 2.39			1,500.61	1,500.62	- 0.01	--
Los Angeles County Sanitation District No. 2	102.00	- 3.32			98.68	125.71	- 27.03	26.5C
Mobil Oil Corporation	2,570.00	+114.55	+1,500.00		4,184.55	4,199.40	- 14.85	0.57
Otani, Chisato	0.00	- 23.02	+ 50.60		27.58	65.76	- 38.18	--
Park Water Company	160.00	+ 2.17		+150.00	312.17	323.19	- 11.02	6.88
Roman Catholic Archbishop of Los Angeles	72.30	- 47.38			24.92	118.33	- 93.41	129.19
Southern California Water Company	6,548.64	- 0.15			6,548.49	6,549.23	- 0.74	--
Union Oil Company of California	2,670.00	- 31.87			2,638.13	2,886.51	-248.38	9.3C
Ziegler, Maxwell T.	0.00	0.00		+ 20.00	20.00	41.52	- 21.52	--
TOTALS	29,253.19	+366.16	+ 238.1C	+169.70	30,027.15	30,800.48	-773.33*	

*Total extractions in excess of Adjudicated Right exchange water purchased, and allowable carryover from previous year.

CHAPTER V. ADMINISTRATIVE COSTS

Expenses incurred in administering watermaster service areas are payable one-half by the State and one-half by the parties. To obtain the funds required for watermaster service, the Watermaster prepares a tentative budget each year stating the anticipated expense for administering the provisions of the Judgment. A copy of the tentative budget is mailed to each of the parties at least 60 days before the beginning of each water year. If no objections are received within 15 days after service of the tentative budget, it becomes the final budget.

The 1967-68 tentative budget, which was mailed on July 31, 1967, received no objections and became the final budget on August 15, 1967. The final approved budget is presented in Table 10.

TABLE 10
APPROVED BUDGET FOR 1967-68

Salaries and wages	\$27,164	
Operating expenses	<u>12,070</u>	
TOTAL BUDGET		\$39,234
Less estimated funds on hand October 1, 1967		<u>- 11,604</u>
Billing amount necessary for 1967-68 water year		\$27,630
One-half payable by State		\$13,815
One-half payable by parties		13,815

The administrative cost chargeable to each party is in proportion to its "Adjudicated Right" and is payable on or prior to the first day of the water year. A five percent penalty is added if charges become delinquent. A total of \$17.21 was collected in penalties for delayed payments. Apportionment of the parties' share of the budget for the 1967-68 water year is set forth in Table 11.

TABLE 11

APPORTIONMENT OF PARTIES' SHARE OF 1967-68 BUDGET

Party	: Adjudicated : Right, : in acre-feet :	: Apportionment : Paid
ABC Nursery, Incorporated	20.30	\$ 4.35
American Plant Growers, Incorporated	10.00	2.08 ^{a/}
Associated Southern Investment Company	46.70	10.01
Atlantic Richfield Company	4,428.00	948.92
Ballman, Frank A. and Rosemary N.	7.00	1.45 ^{a/}
Barclay, Richard and R. A. Watt	0.00	0.00
California Water Service Company	3,071.00	658.12
Carson Estate Company	130.00	27.86
Carson-Madrona Company	104.00	22.29 ^{b/}
Chandler's Palos Verdes Sand and Gravel Corporation	294.20	63.05
Columbia Broadcasting System, Incorporated	18.50	3.96
Curtis, Owen W.	0.36	0.08 ^{a/}
Delaney, Golda, Estate of	4.10	0.85 ^{a/}
Desser Enterprises	0.00	0.00
Dominguez Water Corporation	9,996.40	2,142.23
El Segundo, City of	953.00	204.23
Etchemendy, Caroline, Estate of	8.20	1.70 ^{a/}
Flesh, Leslie R. and Andor Pasternak, et al.	3.50	0.73 ^{a/}
Fletcher Oil and Refining Company	86.30	18.49
Fujimoto, Samuel R. and Raymond S.	20.00	4.29
Gillingham, Florence R., et al.	2.40	0.49 ^{a/}
Gonzales, Felipe and Gabriela	34.30	7.35
Grant, John, Estate of	59.00	12.64
Harris, R. and L.	0.70	0.14 ^{a/}
Harris Tube, Incorporated	0.70	0.14 ^{a/}
Hawthorne, City of	1,882.00	403.31
Hillside Memorial Park	29.20	6.26
Hollywood Turf Club	282.00	60.43
Hornstra, Wilbur	14.10	3.02
Industrial Chemical Division - Allied Chemical Corporation	255.00	54.65
Inglewood, City of	4,383.80	939.45
Inose, Kenichi	1.90	0.40 ^{a/}
Ishibashi, Aki	0.00	0.00
Jenkins, Harry C.	1.80	0.38 ^{a/}
Johns-Manville Products Corporation	881.00	188.80

APPORTIONMENT OF PARTIES' SHARE OF 1967-68 BUDGET
(continued)

PARTY	: Adjudicated : Right, : in acre-feet	: : :	Apportionment Paid
Joughin Torrance Ranch	75.60	\$	16.20
Jungquist, Fred A.	3.70		0.77 ^{a/}
Lermens, Alfred	0.70		0.14 ^{a/}
Leuzinger, Emma L.	1.40		0.29 ^{a/}
Long Beach, City of	0.70		0.14 ^{a/}
Lopes, Frank	3.70		0.77 ^{a/}
Los Angeles, City of	1,503.00		322.09 ^{b/}
Los Angeles County-Alondra Park	67.70		14.51
Los Angeles County Sanitation District No. 2	102.00		21.86
Los Angeles County Waterworks District No. 13	1,352.00		289.73
Los Angeles County Waterworks District No. 22	551.00		118.08
Los Angeles County-Western Avenue Golf Course	296.00		63.43
Loyola University of Los Angeles	48.10		10.31
Manhattan Beach, City of	1,131.20		242.42
Mayflower Nurseries	0.00		0.00
McDonnell Douglas Corporation	1.70		0.35 ^{a/}
Mobil Oil Corporation	2,570.00		550.75
Mori, Roy H. and Kenji	5.60		1.16 ^{a/}
Murdock, George R.	1.37		0.28 ^{a/}
Norair, A Division of Northrop Corporation	38.15		8.18
Normandie Park	0.00		0.00
Otani, Chisato	0.00		0.00
Pacific Crest Cemetery Company	39.40		8.44
Palos Verdes Begonia Farm	0.00		0.00
Palos Verdes Water Company	999.00		214.09
Park Water Company	160.00		34.29
Phillips Petroleum Company	167.00		35.79
Rehor, Josephine P.	2.20		0.46 ^{a/}
Rockwell, Michael L.	0.10		0.02 ^{a/}
Roman Catholic Archbishop of Los Angeles	72.30		15.49
Santa Fe Land Improvement Company	39.50		8.46
Sheets, Esther M.	5.50		1.14 ^{a/}
Shell Oil Company	4,516.00		967.78
Shinoda Brothers, Incorporated	22.50		4.82
Southern California Edison Company	10.40		2.16 ^{a/}

APPORTIONMENT OF PARTIES' SHARE OF 1967-68 BUDGET
(continued)

Party	: Adjudicated : : Right, : : in acre-feet :	: Apportionment : : Paid
Southern California Water Company	6,548.64	\$ 1,403.37
Southwest Steel Rolling Mills ^{c/}	3.40	0.71 ^{a/}
Spanish American Institute	44.40	9.51
Sparkletts Drinking Water Corporation	152.60	32.70
Standard Oil Company of California	4,601.30	986.06
Stauffer Chemical Company	521.00	111.65
Superior Oil Company	26.40	5.66
Texaco, Incorporated	3,432.00	735.48
Thaxter, Walter and Lois A. LeNoir	3.50	0.73 ^{a/}
Torrance, City of	3,795.73	813.42
Union Nursery, Incorporated	4.70	0.98 ^{a/}
Union Oil Company of California	2,670.00	572.18
United States Steel Corporation	1,791.00	383.81
Watson Land Company	42.60	9.13
Watt, R. A., Incorporated	6.50	1.35 ^{a/}
Wiseburn School District	8.20	1.71 ^{a/}
Ziegler, Maxwell T.	0.00	0.00
TOTALS	64,468.95	\$ 13,815.00

a/ Payment waived on apportionments of less than \$3.00 in accordance with Section 13943.5 of the Government Code. A total of \$21.60 was waived in this manner.

b/ Delayed payment, penalty assessed. A total of \$17.21 was collected in penalties.

c/ Was a party at the time of billing.

Income and expenditures for watermaster service during the 1967-68 water year are shown in Table 12. Any credit or debit balance is carried forward into the succeeding water year. The parties' share of the 1967-68 carryover amounts to \$8,649.84.

TABLE 12

STATEMENT OF 1967-68 INCOME AND EXPENDITURES

Item	Parties	State	State and Parties
Income			
From 1967-68 budget	\$13,793.40	\$19,617.00	\$33,410.40
Balance from water year 1966-67	14,648.97 ^{a/}		14,648.97
From penalties	17.21		17.21
TOTAL INCOME	\$28,459.58	\$19,617.00	\$48,076.58
Expenditures			
Salaries and wages	\$14,466.00	\$14,466.00	\$28,932.00
Operating expenses			
Miscellaneous indirect costs ^{b/}	3,585.18	3,585.18	7,170.36
Travel in State	231.54	231.55	463.09
Electronic machine computing	822.05	822.06	1,644.11
Other ^{c/}	704.97	704.99	1,409.96
TOTAL EXPENDITURES	\$19,809.74	\$19,809.78	\$39,619.52
BALANCE	\$ 8,649.84^{d/}	\$ - 192.78	\$ 8,457.06

a/ Adjusted for 1966-67 delayed charges.

b/ Rent, utilities, auto rental, communications, retirement, employee's health plan, and workmen's compensation insurance.

c/ Equipment rental, mobile equipment operation, engineering contracts.

d/ Total credit to parties in 1968-69 water year, subject to delayed charges.

Appendix A

ADJUDICATED RIGHT OF
WEST COAST BASIN PARTIES
SEPTEMBER 1968

AND

COPIES OF DOCUMENTS SUBSTANTIATING
TRANSFERS OF ADJUDICATED RIGHT

Appendix A

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Coast Forest Products	Southwest Steel Rolling Mills
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	Fletcher Oil and Refining Company
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ADJUDICATED RIGHT OF
WEST COAST BASIN PARTIES
SEPTEMBER 1968

<u>Party</u>	<u>Adjudicated Right, in acre-feet per year</u>
*ABC Nursery, Incorporated Successor to Sidney R. and Charlotte W. Title Successor to Keith W. and Opal B. Schlaegel Successor to Clara B. Verburg	13.60 <u>6.70</u> 20.30
*American Plant Growers, Incorporated Second West Coast Basin Judgment Successor to Ben Cluff Dairy Successor to Emily and Edward Cost	2.60 <u>7.40</u> 10.00
Associated Southern Investment Company (formerly Edison Securities Company)	46.70
Atlantic Richfield Company (formerly Richfield Oil Corporation)	4,428.00
*Ballman, Frank A. and Rosemary N.	7.00
*Barclay, Richard and R. A. Watt Successors in part to Isabela J. Granz Estate Long-term lease to: Standard Oil Company of California Superior Oil Company	17.55 - 12.16 <u>- 5.39</u> 0.00
*California Water Service Company	3,071.00
*Carson Estate Company	130.00
*Carson-Madrona Company Successor to Chanslor-Western Oil and Development Company	104.00

ADJUDICATED RIGHT OF
WEST COAST BASIN PARTIES
SEPTEMBER 1968
(continued)

<u>Party</u>	<u>Adjudicated Right, in acre-feet per year</u>
*Chandler's Palos Verdes Sand and Gravel Corporation	
Successor to Southwestern Portland Cement Company	15.00
Second West Coast Basin Judgment	95.20
Successor to Torrance Sand and Gravel Corporation	
Successor to Western Investment Company	<u>184.00</u>
	294.20
Coast Forest Products	
Successor to Southwest Steel Rolling Mills	
Successor to A. K. Wilson Lumber Company, a corporation one Martin Bros. Box Company of California	3.40
Columbia Broadcasting Systems, Incorporated	
Sold to Ronald E. Moran	<u>18.50</u> <u>- 6.00</u>
	12.50
Curtis, Owen W.	
Sold to Southern California Water Company	3.80 <u>- 3.44</u>
	0.36
Delaney, Golda, Estate of (formerly Arthur J. Delaney) Successor to Bego Corporation	
	4.10
*Desser Enterprises	
Second West Coast Basin Judgment	0.00
*Dominguez Water Corporation	
	9,477.80
Successor to Don Wilson Builders	
Successors to Isamu, Kazuo and Yoshiki R. Kita	
Successors to Lathrop M. Ellinwood	32.60
Successor to Del Amo Estate Company	121.00
Successor to Dominguez Estate Company	254.00
Successor in part to H. J. Early	91.00
Successor to Jeanette R. Heydenbeck formerly Jeanette R. Reifsnnyder	0.70
Successor to Helen Nakano, et al.	19.30
Successor to R. A. Watt, Incorporated	
Successor in part to Joughin Torrance Ranch	
Successor in part to Isabela J. Granz Estate	55.35
Successor to Ned Ewing, et al.	6.50
Successor in part to Isabela J. Granz Estate	

ADJUDICATED RIGHT OF
WEST COAST BASIN PARTIES
SEPTEMBER 1968
(continued)

<u>Party</u>	<u>Adjudicated Right in acre-feet per year</u>
*El Segundo, City of	953.00
Etchemendy, Caroline, Estate of	8.20
Flesh, Leslie R. and Andor Pasternak, et al. Successors to Alfred and Ruth Seaback	3.50
*Fletcher Oil and Refining Company (formerly Fletcher Oil Company)	86.30
Fujimoto, Samuel R. and Raymond S. Successors in part to H. J. Early	20.00
*Gillingham, Florence R., et al.	2.40
*Gonzales, Felipe and Gabriela	34.30
*Grant, John, Estate of	59.00
*Harris, R. and L.	0.70
*Harris Tube, Incorporated Successor in part to B. Robinson and Associates Successors to James K. Lawler's Estate	0.70
Hawthorne, City of	1,882.00
*Hillside Memorial Park Successor to Sigmund S. and Lionel S. Hockwalk Successors to W. J. Frogge	16.70 <u>12.50</u>
	29.20
*Hollywood Turf Club	282.00
Hornstra, Wilbur	14.10

ADJUDICATED RIGHT OF
WEST COAST BASIN PARTIES
SEPTEMBER 1968
(continued)

<u>Party</u>	<u>Adjudicated Right, in acre-feet per year</u>
*Industrial Chemical Division Allied Chemical Corporation (formerly Allied Chemical Corporation, General Chemical Division)	255.00
*Inglewood, City of Successor to Frank Abell	4,382.00 <u>1.80</u>
	4,383.80
*Inose, Kenichi Successor to Donald G. Hunt Successor to Fred Scander and George Nasin	1.90
*Ishibashi, Aki Successor to Alice M. Ueda, listed in Second West Coast Basin Judgment	0.00
Jenkins, Harry C. Successor to H. L. Perry Successor to Mrs. Zoraida Parke	1.80
*Johns-Manville Products Corporation	881.00
Joughin Torrance Ranch Successors in part to Isabella J. Granz Estate	274.55
Sold to Normandie Park	- 176.84
Sold to R. A. Watt, Incorporated	- 55.35
Long-term lease to: Standard Oil Company of California	- 15.32
Superior Oil Company	<u>6.79</u>
	20.25
Jungquist, Fred A. (formerly Katherine P. Woodman Jungquist)	3.70
*Lermens, Alfred	0.70
Leuzinger, Emma L.	1.40
Long Beach, City of	0.70
Lopes, Frank	3.70

ADJUDICATED RIGHT OF
WEST COAST BASIN PARTIES
SEPTEMBER 1968
(continued)

<u>Party</u>	<u>Adjudicated Right, in acre-feet per year</u>
Los Angeles, City of	1,503.00
*Los Angeles County-Alondra Park	28.70
Successor to Los Angeles County Flood Control District	37.60
Successor in part to A. H. Smith and Sam Serber, et al.	<u>1.40</u>
	67.70
*Los Angeles County Sanitation District No. 2	102.00
*Los Angeles County Waterworks District No. 13	1,352.00
*Los Angeles County Waterworks District No. 22	551.00
*Los Angeles County-Western Avenue Golf Course	
Second West Coast Basin Judgment listed as Board of Retirement of the Los Angeles County Employees Retirement System	296.00
*Loyola University of Los Angeles	48.10
*Manhattan Beach, City of	1,131.20
*Mayflower Nurseries (formerly Herbert Sakaye Fukuwa)	0.00
McDonnell Douglas Corporation (formerly Douglas Aircraft Company, Incorporated) Lease from United States Navy Department Successor to Aluminum Company of America	1.70
Mobil Oil Corporation (formerly Socony Mobil Oil Company)	2,570.00
Moran, Ronald E. Successor in part to Columbia Broadcasting System, Incorporated	6.00
*Mori, Roy H. and Kenji Second West Coast Basin Judgment	5.60

ADJUDICATED RIGHT OF
WEST COAST BASIN PARTIES
SEPTEMBER 1968
(continued)

<u>Party</u>	<u>Adjudicated Right, in acre-feet per year</u>
Murdock, George R.	
Successor in part to Isabela J. Granz	
Estate	1.77
Long-term lease to: Standard Oil	
Company of California	- 0.28
Superior Oil Company	<u>- 0.12</u>
	1.37
Norair, A Division of Northrop Corporation	
formerly known as Northrop Aircraft, Inc.	38.15
Normandie Park	
Successor to Joughin Torrance Ranch	
Successor in part to Isabela J. Granz	
Estate	40.02
Long-term lease to: Standard Oil	
Company of California	- 27.74
Superior Oil Company	<u>- 12.28</u>
	0.00
*Otani, Chisato	0.00
Pacific Crest Cemetery Company	17.70
Successor to H. S. Scott	
Successor to W. F. Burke	9.50
Successor to Wada, Kaoru and Satoru	
Successor to C. F. Johnson	<u>12.20</u>
	39.40
*Palos Verdes Begonia Farm	
Successor to Gus A. Bauman	0.00
*Palos Verdes Water Company	999.00
*Park Water Company	160.00
*Phillips Petroleum Company	
(formerly Tidewater Oil Company)	167.00
Rehor, Josephine P.	2.20
Rockwell, Michael L.	
Successor to Bank of America National	
Trust and Savings Association,	
Trust Department B151	0.10

ADJUDICATED RIGHT OF
WEST COAST BASIN PARTIES
SEPTEMBER 1968
(continued)

<u>Party</u>	<u>Adjudicated Right, in acre-feet per year</u>
*Roman Catholic Archbishop of Los Angeles (Holy Cross Cemetery)	72.30
*Santa Fe Land Improvement Company	39.50
*Sheets, Esther M.	5.50
*Shell Oil Company	4,516.00
*Shinoda Brothers, Incorporated Second West Coast Basin Judgment	22.50
*Southern California Edison Company	10.40
Southern California Water Company	6,265.30
Successor in part to B. Robinson and Associates	
Successor to James K. Lawler's Estate	2.40
Successor in part to Owen W. Curtis	3.44
Successor to C. F. and W. S. Rosecrans listed as Carmelita Rosecrans Ewing	91.30
Successor to Ryan Aeronautical Company	20.20
Successor to Southern Pacific Company	166.00
	6,548.64
Spanish American Institute	44.40
Sparkletts Drinking Water Corporation	
Successor to Rembert C. Anderson, et al.	80.50
Successor to State of California	
Successor to: Robert L. Fullilove	1.00
Kelly Pipe Company	
(part only)	16.30
Joe and Rose Moniz	2.20
Flavio Rodriguez	
(part only)	4.00
Sam Serber and Freda Smith, et al.	
(part only)	2.60
Successor to Kahlert, et al.	
Successors in part to Kelly Pipe Company	18.90
Successor in part to Kelly Pipe Company	13.80
Successor to Gladys Kurtz	3.50
Successor to James McCandless	6.70
Successor to Wechsler, B. A.	
Successor to Mates Tune, et al.	
Successors to Josephine Watkinson	3.10
	152.60

ADJUDICATED RIGHT OF
WEST COAST BASIN PARTIES
SEPTEMBER 1968
(continued)

<u>Party</u>	<u>Adjudicated Right, in acre-feet per year</u>
*Standard Oil Company of California	4,541.70
Long-term lease from: Richard Barclay	
and R. A. Watt	12.16
R. A. Watt, Incorp.	1.31
Normandie Park	2.79
Joughin Torrance Ranch	43.06
George R. Murdock	<u>0.28</u>
	4,601.30
*Stauffer Chemical Company	521.00
Superior Oil Company	0.00
Long-term lease from: Richard Barclay and	
R. A. Watt	5.39
R. A. Watt Incorp.	0.58
Normandie Park	1.24
Joughin Torrance Ranch	19.07
George R. Murdock	<u>0.12</u>
	26.40
Texaco, Incorporated	3,432.00
Thaxter, Walter and Lois A. LeNoir (formerly Ralph Thaxter)	3.50
*Torrance, City of	2,519.00
Successor to Alcast Foundry, et al.	
Successor to Chas. L. Draper, et al.	7.20
Successor to Richard Barclay and R. A. Watt	59.96
Successor to Belvidere Mutual Water Company	33.40
Successor to Anna Mae Jones	50.20
Successor to Moneta Water Company	916.00
Successor to Normandie Park	136.82
Successor to Torrance Unified School District	
Successor to Hilario S. and Emma Alwag	
Successors to T. C. Navarro	53.90
Successor to Peggy Swick	5.50
Successor to R. A. Watt, Incorp.	<u>13.75</u>
	3,795.73

ADJUDICATED RIGHT OF
WEST COAST BASIN PARTIES
SEPTEMBER 1968
(continued)

<u>Party</u>	<u>Adjudicated Right, in acre-feet per year</u>
*Union Nursery, Incorporated Second West Coast Basin Judgment	4.70
*Union Oil Company of California	2,670.00
*United States Steel Corporation	1,791.00
Watson Land Company	42.60
Watt, R. A. Incorporated	
Successor to Isabela J. Granz Estate	4.03
Long-term lease to: Standard Oil Company of California	- 2.79
Superior Oil Company	- 1.24
Successor to Ned Ewing, et al. Successor in part to Isabela J. Granz Estate	1.89
Long-term lease to: Standard Oil Company of California	- 1.31
Superior Oil Company	<u>- 0.58</u>
	0.00
*Wiseburn School District	8.20
*Ziegler, Maxwell T. (Lease to Ascot Attractions)	<u>0.00</u>
TOTALS	64,468.95

*Members of the "Exchange Pool" as of September 30, 1968, pursuant to paragraph VII of the Judgment.

AGREEMENT OF LEASE AND TRANSFER OF WATER RIGHTS

STANDARD OIL COMPANY OF CALIFORNIA, Western Operations, Inc., hereinafter referred to as "Standard", hereby leases and transfer to ATLANTIC RICHFIELD COMPANY, hereinafter referred to as "Atlantic Richfield", for and during the period commencing with the date hereof and continuing to and including September 30, 1968, hereinafter referred to as "said period" water rights consisting of the right to pump one thousand (1,000) acre-feet of water for and during said period from the West Coast Basin, being a ground water basin within the Central and West Basin Water Replenishment District, in the State of California.

Atlantic Richfield shall pay to Standard a rental of Fifteen Dollars (\$15.00) per acre-foot for the water rights leased and transferred hereunder.

The total quantity of water which Atlantic Richfield shall be entitled to pump as a result of this lease and transfer is one thousand (1,000) acre-feet and the total consideration therefor, computed on the basis of said rental of Fifteen Dollars (\$15.00) per acre-foot, is Fifteen Thousand Dollars (\$15,000), which consideration shall be paid to Standard by Atlantic Richfield's check on or before October 30, 1968.

Atlantic Richfield shall pay all of the assessments levied by the Central and West Basin Replenishment District on all of said one thousand (1,000) acre-feet of water, the rights to which are leased and transferred to Atlantic Richfield hereunder, pumped by Atlantic Richfield during said period.

Standard agrees not to pump water from said West Coast Basin during said period in a quantity which would reduce its water rights in the said West Coast Basin below said one thousand (1,000) acre-feet.

Standard represents and warrants that it owns (and agrees to indemnify Atlantic Richfield against any claims by others to) said water rights leased and transferred hereunder, and that Standard has the right to pump said one thousand (1,000) acre-feet of water for and during said period, and that Standard has the full right, without further authorization or approval of any governmental authority or agency, to lease and transfer to Atlantic Richfield said water rights and the right to pump said one thousand (1,000) acre-feet of water during said period.

Dated this 24 day of July, 1968.

STANDARD OIL COMPANY OF CALIFORNIA,
WESTERN OPERATIONS, INC.

By J. R. Grey

By _____

ATLANTIC RICHFIELD COMPANY

By L. F. Strader

By _____

THIS GRANT DEED, made this 23rd day of July, 1965, from SOUTHERN PACIFIC COMPANY, a corporation, Grantor, to COAST FOREST PRODUCTS COMPANY, a corporation, Grantee;

WITNESSETH:

Grantor hereby grants to Grantee all that certain piece or parcel of land situate, lying and being in the Rancho San Pedro, County of Los Angeles, State of California, being a portion of Lots V, VI, VII, VIII, IX and X of Robinson's Subdivision of Lots 1 and 6, in Block A of Dominguez Colony Tract, as per Map recorded in Book 60, page 98, of Miscellaneous Records in the office of the Recorder of said County, more particularly described as follows:

Beginning at the Northwest corner of said Lot V; thence easterly along the northerly line of said Lot V North $89^{\circ} 59' 46''$ East a distance of 1148.72 feet to the westerly line of the strip of land described in the deed to Pacific Electric Railway Company, recorded in Book 1832, page 242 of Deeds in the Office of said Recorder; thence southerly along the westerly line of said strip of land. South $17^{\circ} 10' 02''$ West 2048.41 feet; thence South $89^{\circ} 89' 25''$ West 1148.37 feet along the northerly line of the Elftman Station Tract as per map filed in Book 16, page 196 of Maps in the Office of said Recorder, to the Easterly line of Sure Acres as per map filed in Book 15, page 120 of Maps in the office of said Recorder; thence northerly along said easterly line North $17^{\circ} 09' 16''$ East 2058.70 feet to the point of beginning, containing an area of 51.88 acres, more or less.

EXCEPTING AND RESERVING, HOWEVER, to Grantor, its successors and assigns forever, an undivided one-fourth interest in and to all of the minerals and mineral ores of every kind and character now known to exist or hereafter discovered upon, within or underlying said land or that may be produced therefrom, including without limiting the generality of the foregoing, an undivided one-fourth interest in and to all petroleum, oil, natural gas and other hydrocarbon substances and products derived therefrom, together with the exclusive and perpetual right of ingress and egress beneath the surface of said land to explore for, extract, mine and remove the same and to make such use of said land beneath the surface as is necessary or useful in connection therewith, which use may include lateral or slant drilling, boring, digging or sinking of wells, shafts or tunnels; provided, however, that said Grantor, its successors or assigns, shall not use the surface of said land in the exercise of any of said rights and shall not disturb the surface of said land or any improvement thereon.

Subject to easements, covenants, conditions, reservations and restrictions of record.

Grantor hereby declares that the land being conveyed is not necessary for use in the performance of its duties to the public as prescribed by the Public Utilities Code of the State of California, and is not needed for its use in the conduct of its business.

IN WITNESS WHEREOF, Grantor has caused these presents to be executed the day and year first herein written.

SOUTHERN PACIFIC COMPANY

By /s/ W. J. Walker
(Title Vice President

Attest /s/ T. F. Ryan
Assistant Secretary

LEASE OF WATER RIGHTS

THIS LEASE, made and entered into as of the 1st day of October, 1967, by and between CARSON-MADRONA COMPANY, a partnership consisting of GUILFORD GLAZER and GREAT LAKES PROPERTIES, INC., a Delaware corporation, of 21515 Hawthorne Boulevard, Torrance, California, hereinafter referred to as "Lessor" and DOMINGUEZ WATER CORPORATION, a California corporation, of 21718 South Alameda Street, Long Beach, California, 90810, hereinafter referred to as "Lessee";

WITNESSETH:

WHEREAS, Lessor is the owner of the right to annually take, produce and withdraw from the ground water basin in Los Angeles County, California, commonly known as the "West Coast Basin", approximately 104 acre feet of water per year; and

WHEREAS, Lessee desires to avail itself of the rights of Lessor within West Coast Basin during the water year ending September 30, 1968 and Lessor is willing to allow Lessee to pump Lessor's water right within West Coast Basin, in an amount of 104 acre feet, during the 1967-68 water year, ending September 30, 1968, subject to the terms and conditions hereinafter set forth;

NOW, THEREFORE, IT IS MUTUALLY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

For and in consideration of the covenants and agreement hereinafter mentioned, Lessor does hereby lease, let, hire to, and, during the term hereof, assign to Lessee for the water year October 1, 1967 through September 30, 1968, Lessor's right to withdraw from said West Coast Basin 104 acre feet of water, together with Lessor's right to devote said water to beneficial uses.

Lessee shall:

1. Pay to Lessor the sum of \$1,560.00, (being \$15.00 per acre foot of water leased and assigned hereunder). Said sum to be payable March 1, 1968.
2. Pay directly to the Central and West Basin Water Replenishment District any and all pump assessments and any and all other charges levied on the waters produced hereunder by Lessee.
3. Pay all power costs and other production costs in connection with the production of the water referred to herein.
4. Prepare and file all necessary reports and documents in connection with the water rights leased herein, required by the Central and West Basin Water Replenishment District.

5. Make the necessary filings with the State Water Rights Board, in connection with the waters produced by Lessee hereunder, as provided in part 5 of Division 2 (Sections 4999 et seq.) of the Water Code of the State of California, as amended, and prepare and file any other reports, filings or the like as may be required, during the term hereof, from time to time by proper authority, in connection with the rights leased hereunder.

6. Prepare, file and furnish a copy to Lessor of all reports, documents and papers necessary and advisable for the preservation of Lessor's water rights hereby leased, without cost to Lessor.

All notices, bills, demands or communications from one party to the other hereunder shall be in writing, and shall be deemed sufficiently served, given or made, by depositing the same in the United States mail in any branch or main post office, in the State of California, postage prepaid, addressed to the respective party at the address hereinabove and recitals hereof set forth or at such other address either party hereto may specify by written notice given to the other.

This Lease, and all of the rights and obligations herein contained, shall bind and inure to the benefit of the respective successors and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have caused this Lease to be executed in duplicate, each of which shall be deemed an original, by their respective officers, duly authorized and their corporate seals to be hereunto affixed, at Los Angeles, California, as of the day and year first above mentioned.

CARSON-MADRONA COMPANY
a partnership

By _____
Guilford Glazer, partner

Great Lakes Properties, Inc., partner

By Harold H. Stright
Vice President

(CORPORATE SEAL)

By James J. Kissane
Asst. Secretary

DOMINGUEZ WATER CORPORATION

By J. P. Bradley
President

(CORPORATE SEAL)

By Alex Laurence
Secretary

LEASE OF WATER RIGHTS

THIS LEASE is entered into the 1st day of July, 1968, by and between FLETCHER OIL AND REFINING COMPANY-FLETCHER OIL COMPANY, a corporation, hereinafter "FLETCHER", and DOMINGUEZ WATER CORPORATION, a California corporation, hereafter "DOMINGUEZ".

For and in consideration of the mutual undertakings and obligations of the parties as hereafter set forth, and for other valuable consideration, the parties hereto agree as follows:

1. FLETCHER hereby leases to DOMINGUEZ and DOMINGUEZ takes from FLETCHER the right to exercise FLETCHER's adjudicated right to extract water from the West Coast Basin, as said basin is described in the Judgment in Los Angeles Superior Court Case No. 506806 entitled "California Water Service Company, et al., vs. City of Compton, et al.", to the extent of 25 acre feet.
2. The term of this lease shall commence July 1, 1968 and continue to and including September 30, 1968.
3. DOMINGUEZ shall pay to FLETCHER by check on or before September 30, 1968, the sum of Three Hundred Seventy-five Dollars (\$375.00).
4. DOMINGUEZ shall pay, before delinquency, all pumping assessments levied by the Central and West Basin Water Replenishment District on FLETCHER's said 25 acre feet of water right.
5. FLETCHER has been adjudicated to own 101.3 acre feet in the case entitled "California Water Service Company, et al., vs. City of Compton, et al.," Los Angeles Superior Court Case No. 506806, which adjudicated right includes the 25 acre feet leased hereunder.
6. DOMINGUEZ shall exercise all of the rights leased hereunder and shall pump the same on behalf of FLETCHER and shall put the same to beneficial use on or before September 30, 1968.

DOMINGUEZ WATER CORPORATION

FLETCHER OIL AND REFINING COMPANY
-FLETCHER OIL COMPANYBy J. P. Bradley
J. P. Bradley, PresidentBy Robert G. Fletcher
PresidentBy Alex Lawrence (SEAL)
Alex Lawrence, Secretary

LEASE OF WATER RIGHTS

THIS LEASE, made and entered into as of the 6th day of August, 1968, by and between LOYOLA UNIVERSITY OF LOS ANGELES, a corporation, of 7101 West 80th Street, Los Angeles, California, hereinafter referred to as "Lessor" and DOMINGUEZ WATER CORPORATION, a California corporation, of 21718 South Alameda Street, Long Beach, California 90810, hereinafter referred to as "Lessee";

WITNESSETH:

WHEREAS, Lessor is the owner of the right to annually take, produce and withdraw from the ground water basin in Los Angeles County, California, commonly known as the "West Coast Basin", approximately 48.10 acre feet of water per year; and

WHEREAS, Lessee desires to avail itself of the rights of Lessor within West Coast Basin during the water year ending September 30, 1969 and Lessor is willing to allow Lessee to pump Lessor's water right within West Coast Basin, in an amount of 48.10 acre feet, during the 1968-69 water year, ending September 30, 1969, subject to the terms and conditions hereinafter set forth;

NOW, THEREFORE, IT IS MUTUALLY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

For and in consideration of the covenants and agreements hereinafter mentioned, Lessor does hereby lease, let, hire to, and, during the term hereof, assign to Lessee for the water year October 1, 1968 through September 30, 1969, Lessor's right to withdraw from said West Coast Basin 48.10 acre feet of water, together with Lessor's right to devote said water to beneficial uses.

Lessee shall:

1. Pay to Lessor the sum of \$721.50. Said sum to be payable October 1, 1968.
2. Pay directly to the Central and West Basin Water Replenishment District any and all pump assessments and any and all other charges levied on the waters produced hereunder by Lessee.
3. Pay all power costs and other production costs in connection with the production of the water referred to herein.
4. Prepare and file all necessary reports and documents in connection with the water rights leased herein, required by the Central and West Basin Water Replenishment District.

5. Make the necessary filings with the State Water Rights Board, in connection with the waters produced by Lessee hereunder, as provided in part 5 of Division 2 (Sections 4999 et seq.) of the Water Code of the State of California, as amended, and prepare and file any other reports, filings or the like as may be required, during the term hereof, from time to time by proper authority, in connection with the rights leased hereunder.

6. Prepare, file, and furnish a copy to Lessor of all reports, documents and papers necessary and advisable for the preservation of Lessor's water rights hereby leased, without cost to Lessor.

All notices, bills, demands, or communications from one party to the other hereunder shall be in writing, and shall be deemed sufficiently served, given or made by depositing the same in the United States mail in any main or branch post office, in the State of California, postage prepaid, addressed to the respective party at the address hereinabove and recitals hereof set forth or at such other address either party hereto may specify by written notice given to the other.

This Lease, and all of the rights and obligations herein contained, shall bind and inure to the benefit of the respective successors and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have caused this Lease to be executed in duplicate, each of which shall be deemed an original, by their respective officers, duly authorized and their corporate seals to be hereunto affixed, at Los Angeles, California, as of the day and year first above mentioned.

LOYOLA UNIVERSITY OF LOS ANGELES

By Charles S. Casassa
President

(Corporate Seal)

By John W. Clark
Secretary

DOMINGUEZ WATER CORPORATION

By J. P. Bradley
President

(Corporate Seal)

By Shirley A. Bates
Assistant Secretary

GRANT DEED AND BILL OF SALE

FOR A VALUABLE CONSIDERATION, RECEIPT OF WHICH IS HEREBY ACKNOWLEDGED, R. A. WATT COMPANY, a partnership, does by these presents grant, bargain, sell, convey, transfer and assign to DOMINGUEZ WATER CORPORATION, a California corporation:

The right to annually take, extract, pump or otherwise remove sixty-one and eighty-five one hundredths (61.85) acre feet of water from the West Coast Basin within Los Angeles County, California, and more particularly described in the Judgment on file in Los Angeles Superior Court Civil Action No. 506806, and entitled, "California Water Service Company, et al., vs. City of Compton, et al.," said right being a portion of the 380 acre feet allocated to ISABELA GRANZ, ET AL., in said Judgment.

TO HAVE AND TO HOLD the same to said DOMINGUEZ WATER CORPORATION, its successors and assigns forever. And the said GRANTOR does for its successors and assigns covenant and agree to and with the said DOMINGUEZ WATER CORPORATION, its successors and assigns, to warrant and defend the title to the said right, hereby conveyed, against the just and lawful claims and demands of all persons whomsoever.

IN WITNESS WHEREOF, R. A. WATT COMPANY has caused this instrument to be duly executed on the 30th day of November, 1967.

R. A. WATT COMPANY,
a partnership
by: Caroldale, Inc., a partner

By William S. Watt
Vice President

By Sherman B. Lans
Secretary

LEASE OF WATER RIGHTS

THIS LEASE, made and entered into as of the 12th day of September, 1967, by and between WISEBURN SCHOOL DISTRICT of 5230 West 120th Street, Hawthorne, California, 90250, hereinafter referred to as "Lessor" and DOMINGUEZ WATER CORPORATION, a California corporation, of 21718 South Alameda Street, Long Beach, California 90810, hereinafter referred to as "Lessee";

WITNESSETH:

WHEREAS, Lessor is the owner of the right to annually take, produce and withdraw from the ground water basin in Los Angeles County, California, commonly known as the "West Coast Basin", approximately 8.2 acre feet of water per year; and

WHEREAS, Lessee desires to avail itself of the rights of Lessor within West Coast Basin during the water year ending September 30, 1968 and Lessor is willing to allow Lessee to pump Lessor's water right within West Coast Basin, in an amount of 8.2 acre feet, during the 1967-68 water year, ending September 30, 1968, subject to the terms and conditions hereinafter set forth;

NOW, THEREFORE, IT IS MUTUALLY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

For and in consideration of the covenants and agreements hereinafter mentioned, Lessor does hereby lease, let, hire to, and, during the term hereof, assign to Lessee for the water year October 1, 1967 through September 30, 1968, Lessor's right to withdraw from said West Coast Basin 8.2 acre feet of water, together with Lessor's right to devote said water to beneficial uses.

Lessee shall:

1. Pay to Lessor the sum of \$123. Said sum to be payable October 1, 1967.
2. Pay directly to the Central and West Basin Water Replenishment District any and all pump assessments and any and all other charges levied on the waters produced hereunder by Lessee.
3. Pay all power costs and other production costs in connection with the production of the water referred to herein.
4. Prepare and file all necessary reports and documents in connection with the water rights leased herein, required by the Central and West Basin Water Replenishment District.

5. Make the necessary filings with the State Water Rights Board, in connection with the waters produced by Lessee hereunder, as provided in part 5 of Division 2 (Sections 4999 et sq.) of the Water Code of the State of California, as amended, and prepare and file any other reports, filings or the like as may be required, during the term hereof, from time to time by proper authority, in connection with the rights leased hereunder.

6. Prepare, file and furnish a copy to Lessor of all reports, documents and papers necessary and advisable for the preservation of Lessor's water rights hereby leased, without cost to Lessor.

All notices, bills, demands or communications from one party to the other hereunder shall be in writing, and shall be deemed sufficiently served, given or made by depositing the same in the United States mail in any main or branch post office, in the State of California, registered, postage pre-paid, addressed to the respective party at the address hereinabove and recitals hereof set forth or at such other address either party hereto may specify by written notice to the other.

This Lease, and all of the rights and obligations herein contained, shall bind and inure to the benefit of the respective successors and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have caused this Lease to be executed in duplicate, each of which shall be deemed an original, at Hawthorne, California, as of the day and year first above mentioned.

WISEBURN SCHOOL DISTRICT

By M. E. Grover
Asst. Supt.

By _____

DOMINGUEZ WATER CORPORATION

By J. P. Bradley
President

By Alex Lawrence
Secretary

HAIGHT, LYON, SMITH & NYE
9th floor, City National Bank Bldg.
605 South Olive Street
Los Angeles, California 90014
627-5025

Attorneys for Fletcher Oil &
Refining Company, a
California corporation

SUPERIOR COURT OF THE STATE OF CALIFORNIA
FOR THE COUNTY OF LOS ANGELES

CALIFORNIA WATER SERVICE
COMPANY, et al

- vs -

CITY OF COMPTON, et al

NO. 506806

NOTICE OF TRANSFER OF ADJUDICATED
WATER RIGHT

TO THE SUPERIOR COURT OF THE STATE OF CALIFORNIA, FOR THE COUNTY OF
LOS ANGELES:

NOTICE IS HEREBY GIVEN that the Adjudicated Water Right of FLETCHER OIL
COMPANY in the above-entitled proceedings has been transferred from
FLETCHER OIL COMPANY, a co-partnership, to FLETCHER OIL & REFINING COMPANY,
a California corporation.

Copies of the documents making this transfer have been forwarded to the
Watermaster in this matter.

DATED: August , 1968

FLETCHER OIL & REFINING COMPANY

By /s/ Robert G. Fletcher
President

LEASE OF WATER RIGHTS

THIS AGREEMENT is entered into this 26th day of September, 1967, by and between STANDARD OIL COMPANY OF CALIFORNIA, WESTERN OPERATIONS, INC., (a division of Standard Oil Company of California, a Delaware Corporation), hereinafter referred to as "STANDARD" and MOBIL OIL CORPORATION, hereinafter referred to as "MOBIL".

For and in consideration of the mutual undertakings and obligations of the parties as hereinafter set out and for other valuable consideration, the parties hereto agree as follows:

1. Standard hereby leases to Mobil and Mobil takes from Standard the right to exercise Standard's appropriative, prescriptive and adjudicated right to extract water from the West Coast Basin (the ground water basin within the Central and West Basin Water Replenishment District in the State of California) to the extent of one thousand five hundred (1500) acre feet.
2. The term of this lease shall be for the water year commencing October 1, 1967 and continuing to and including September 30, 1968.
3. Mobil shall pay to Standard, by check, on or before September 30, 1968, the sum of Twenty One Thousand and No/100 Dollars (\$21,000.00), which sum represents Fourteen and No/100 Dollars(\$14.00) per acre foot.
4. Mobil shall pay, before delinquency, all pumping assessments levied by the Central and West Basin Water Replenishment District on Standard's said one thousand five hundred (1500) acre feet of water right.
5. Standard has been adjudicated to own at least one thousand five hundred (1500) acre feet of water in the case entitled CALIFORNIA WATER SERVICE COMPANY, et al v. City of Compton, et al, Los Angeles Superior Court Case No. 506,806. However, Standard expressly makes no warranty that it is the owner of or has the right to lease the water rights purported to be leased hereunder. In the event, however, that it is deemed at any time during the term hereof that Standard does not own the rights leased hereunder or any part thereof, Standard shall return to Mobil any consideration paid to Standard, computed on the above price per acre-foot for any water rights which Mobil is unable to exercise because of Standard's lack of ownership in said water rights. Standard does not warrant that there is sufficient water in said West Basin so as to enable Mobil to extract the rights leased to it hereunder, but in the event that Mobil is prevented from exercising all or any portion of the rights leased hereunder due to exhaustion of said basin or intervention or prohibition by any legally constituted government authority, any consideration paid by Mobil to Standard shall be returned to Mobil upon the same basis as that stated above.

6. Mobil shall exercise all of the rights leased hereunder and shall pump the same on behalf of Standard and shall put the same to beneficial use. Mobil shall be relieved of its obligations under this paragraph to the extent that its failure to pump any of Standard's rights leased hereunder is caused by Mobil's inability to pump or use such water due to strikes, lockouts, algae growth in the water table, or any other reason which would make the water industrially unusable by Mobil, acts of God, or other acts or occasions of which Mobil has no control. Mobil shall notify Standard within a reasonable time of the existence of any of the aforementioned conditions.

7. Standard shall not pump water from said West Basin during the term of this lease in a quantity which would include any portion of the one thousand five hundred (1500) acre feet leased hereunder.

8. Mobil shall report all of its extractions made pursuant to this lease to all agencies to whom such reports must be made, or in the alternative, shall provide such information regarding its pumping to Standard so that Standard may make such reports, if any are required during the term of this lease.

9. If either party to this lease shall desire to serve a notice on the other, such notice shall be deemed to have been made if those sent to Standard are mailed to Mr. C. W. Kitto, General Manager, Standard Oil Company of California, Western Operations, Inc., 324 West El Segundo Boulevard, El Segundo, California, Attention: Mr. C. D. Barker; and all notices sent to Mobil are mailed to Mr. J. E. Penick, Attention: Mr. E. T. Gellenbeck, 3700 W. 190th Street, Torrance, California, 90503. Delivery will be deemed to have been made when deposited in United States mail, postage prepaid. Either party may, by notice in writing to the other, change such address for notices to it.

IN WITNESS WHEREOF the parties hereto execute this agreement on the date first above written.

STANDARD OIL COMPANY OF CALIFORNIA
WESTERN OPERATIONS, INC. (a Division
of Standard Oil Company of California,
a Delaware Corporation)

BY J. R. Grey
Vice President

MOBIL OIL CORPORATION

BY J. E. Penick
Attorney in Fact

LEASE OF WATER RIGHTS

THIS LEASE, Entered into as of October 1, 1967, by and between FRED A. JUNGQUIST (herein called "Lessor") and TEXACO Inc. (herein called "Lessee");

WITNESSETH:

WHEREAS, Lessor owns the prescriptive right to pump annually 3.7 acre feet of water from a basin of ground water in southwestern Los Angeles County known as the West Coast Basin, which right was adjudicated and confirmed by the decision of the California District Court of Appeal on February 17, 1964, in California Water Service Company et al v. City of Compton et al (1st Civil No. 21156); and

WHEREAS, Lessor and Lessee desire that Lessor's water rights be leased to Lessee upon the terms and conditions herein stated;

NOW, THEREFORE, it is agreed as follows:

1. Lessor hereby leases to Lessee -- and Lessee hereby takes and rents from Lessor -- the above recited rights owned by Lessor on the terms and conditions herein stated.
2. The term of this Lease shall be for the period commencing October 1, 1967, and ending September 30, 1968.
3. For the water rights leased to Lessee hereunder, Lessee shall pay to Lessor \$18.00 for each acre foot.
4. Payment of the sums due to Lessor pursuant to Paragraph 3 above shall be made yearly in advance.
5. The respective rights and obligations of Lessor and Lessee hereunder shall extend to and insure to the benefit of and be binding upon their respective successors in interest.

IN WITNESS WHEREOF, the parties hereto have executed this Lease as of the day and year first above written.

FRED A. JUNGQUIST

Fred A. Jungquist

TEXACO INC.

By Wallace E. Avery
Vice President

By Sydney G. Sloan
Assistant Secretary

SUPERIOR COURT OF THE STATE OF CALIFORNIA
FOR THE COUNTY OF LOS ANGELES

In the Matter of the Estate of)
RALPH THAXTER,)
Deceased.)

NO. 493546

ORDER SETTLING FIRST AND FINAL REPORT AND ACCOUNT OF EXECUTOR, ALLOWING STATUTORY FEES AND COMMISSIONS AND EXTRAORDINARY FEES AND COMMISSIONS AND FOR FINAL DISTRIBUTION.

The First and Final Report and Account of Executor MELBOURNE W. MOORE, Petition for Approval of Statutory and Extraordinary Fees and Commissions and Petition for Final Distribution, by ROBERT R. MALLICOAT, came on regularly for hearing and settlement by the Court on May 3, 1968 in Department 9 of the above-entitled Court, the Honorable ARTHUR K. MARSHALL, Judge presiding, all notices of said hearing having been given as required by law, ELZADA THAXTER, WALTER THAXTER and LOIS A. LE NOIR, the Life Beneficiary and the Remaindermen of the within Estate, all of whom having survived distribution, having filed herein their consent to the distribution

IT IS HEREBY ORDERED, ADJUDGED AND DECREED that due notice to creditors has been given

... that the following described real property is hereby distributed to ELZADA THAXTER as her community property;

Lot 53 in Block "C" of Belvidere in the Rancho San Pedro, as per Map recorded in Book 10, Page 95 of Maps, in the Office of the County Recorder of Los Angeles County.

IT IS FURTHER ORDERED, ADJUDGED AND DECREED that, in pursuance of and according to the provisions of the Last Will of said Decedent, all remaining property of said Estate is hereby distributed as follows:

ELZADA THAXTER

WALTER THAXTER and LOIS A. LE NOIR, in equal shares, Lots 51 and 52 in Block "C" of Belvidere in the Rancho San Pedro, as per Map recorded in Book 10, Page 95 of Maps, in the Office of the County Recorder of Los Angeles County, California, subject to a life estate in decedent's spouse, ELZADA THAXTER.

Lot 7, Block 31, Tract 2143, Valley of the Moon Mansonic Unit, records in the Office of the County Recorder of San Bernardino County, California, subject to a life estate in decedent's spouse, ELZADA THAXTER. WALTER THAXTER and LOIS A. LE NOIR, in equal shares, all cash and other property belonging to said Estate, whether described herein or not, subject during the remainder of ELZADA THAXTER'S lifetime to the vesting of same in MELBOURNE W. MOORE, in trust, who shall periodically pay over to ELZADA THAXTER all of the net income, if any. Said trust to terminate upon the death of ELZADA THAXTER.

SAMPLE

(Suggested Form for Selling Water Rights)

DEED OF WATER RIGHTS

For a valuable consideration, JOHN SMITH hereby sells and transfers to the JOHN DOE COMPANY:

The Right to extract _____ acre-feet of grantor's Adjudicated Right allocated to grantor (or predecessors in interest) under and pursuant to Judgment dated August 18, 1961 and entered in Los Angeles Superior Court Case No. 506806 entitled "California Water Service Company, et al. vs. City of Compton, et al."

Dated: _____

JOHN DOE COMPANY

JOHN SMITH

By _____

By _____

Title _____

Title _____

WATER RIGHT LICENSE AND AGREEMENT

For a valuable consideration, THE JOHN DOE COMPANY hereby grants to John Smith: a license to extract _____ acre-feet of licensor's Adjudicated Right allocated to licensor (or predecessors in interest) under and pursuant to Judgment dated August 18, 1961, and entered in Los Angeles Superior Court Case No. 506806 entitled "California Water Service Company, et al. vs. City of Compton, et al." during the period commencing October 1, 196_ and continuing to and including September 30, 196_.

Said License is granted, subject to the following conditions:

- (1) Licensee shall exercise said right and extract the same on behalf of JOHN DOE COMPANY during the period above specified and put the same to beneficial use and licensee shall not by the exercise hereunder of said right acquire any right to extract water independent of the rights of licensor.
- (2) Licensee shall pay assessments levied on the pumping of said ground waters by the Central and West Basin Water Replenishment District.
- (3) Licensee shall notify the District and the Watermaster that said pumping was done pursuant to this license and provide the Watermaster with a copy of this document.
- (4) Licensee shall note, in any recording of water production for the period of agreement, that said pumping was done pursuant to this license.

JOHN DOE COMPANY warrants that it has _____ acre-feet of Adjudicated Right and that it has not pumped and will not pump or permit or license any other person to pump any part of said _____ acre-feet during period of October 1, 196_ through September 30, 196_.

Dated: _____

JOHN DOE COMPANY

JOHN SMITH

By _____

By _____

Title _____

Title _____

APPENDIX B
GROUND WATER EXTRACTIONS
AND GROSS WATER SUPPLY

APPENDIX B

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TABLE R-1
GROUND WATER EXTRACTIIONS
IN ACRE-FEET

		PRODUCTION												TOTAL	
STAFF	OWNERS	1967												1968	
WELL	DISTRICT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT		
NUMBER	NATION														
<u>A H C NURSERY, INC</u>															
35/13W-29	S	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	3.37
<u>AMERICAN PLANT GROWERS INC</u>															
45/13W-19J065	DR29M		2.07	1.04	0.74	1.25	1.28	1.75	1.96	2.01	1.97	1.97	0.29	2.00	14.33
<u>ATLANTIC RICIFILO COMPANY</u>															
45/13W-16R095		11	177.92	164.59	134.02	140.76	132.06	209.14	132.55	188.78	206.06	235.08	232.34	207.92	2170.22
45/13W-21H025		4	0.00	0.00	0.00	0.00	0.00	5.60	0.00	0.00	30.75	80.54	16.05	34.53	167.47
45/13W-21H055		7	84.97	78.99	120.98	30.98	43.86	29.17	9.41	5.84	24.19	80.73	115.91	97.53	727.56
45/13W-21H065		8	13.35	37.39	51.25	0.00	39.47	14.72	29.53	48.75	100.29	134.07	145.24	125.63	744.69
45/13W-21J025		10	170.11	142.27	207.40	216.15	116.73	165.26	189.78	99.14	183.97	207.66	211.56	190.64	2100.67
45/13W-22E015		5	126.70	124.36	151.61	157.80	144.17	157.12	145.25	144.69	137.39	125.25	113.00	112.61	1639.95
45/13W-22F015		9	184.42	89.59	60.98	127.47	117.79	130.47	151.46	154.06	142.49	131.69	125.17	110.25	1427.84
TOTALS			642.47	642.19	711.24	673.16	594.08	710.48	657.98	641.26	825.14	1002.02	959.27	879.11	8974.40
<u>CALIFORNIA WATER SERVICE COMPANY</u>															
35/14W-29F015		20n1	44.01	35.98	70.30	37.08	27.07	74.82	71.30	76.07	4.12	62.03	71.25	71.70	684.73
35/14W-29J015		22n1	83.02	54.18	73.36	62.68	36.27	83.55	71.39	90.43	81.37	131.72	112.96	92.44	973.37
35/14W-32A015		08n1	31.07	29.41	29.22	29.49	24.05	0.00	26.70	30.08	29.65	30.46	30.14	29.84	320.01
45/14W-16F015		25n1	12.61	7.90	4.95	3.73	0.00	4.28	10.26	15.50	11.66	12.04	11.98	12.62	107.53
45/14W-17H025		21n2	10.20	7.53	7.42	3.80	10.32	11.24	22.53	15.60	11.62	13.00	12.91	9.06	135.25
TOTALS			220.91	135.20	184.25	131.98	97.71	173.91	201.68	227.68	142.42	249.25	239.24	215.66	2220.89
<u>CARSON ESTATE COMPANY</u>															
45/13W-11K035	TOY 2		2.88	2.43	0.36	4.08	4.71	2.26	3.21	4.34	3.73	3.29	5.03	5.47	41.79
<u>CHANOLERS PALOS VERDES SAND-GR CUMP</u>															
45/14W-27N015	T0M02		2.32	7.01	0.00	3.28	1.00	5.85	7.03	6.74	6.77	0.98	0.42	1.34	37.74
45/14W-28J015	T0M01		5.99*	1.86*	4.32*	2.13*	4.80*	0.86*	1.00*	1.50*	2.25*	12.77*	11.07*	9.42*	57.47
45/14W-34K015	RANCH		3.48	2.05	0.03	0.81	0.00	2.46	2.08	4.42	3.25	3.22	3.80	0.00	26.50
45/14W-35F015	SIDEP		4.20	6.72	7.63	8.16	7.79	0.12	0.00	0.00	0.00	0.00	9.77	8.83	53.22
45/14W-35F025	PLANT		10.10	5.42	5.96	4.51	3.84	6.66	10.68	9.86	9.58	15.00	2.60	5.22	89.43
TOTALS			26.09	18.06	17.94	18.89	18.33	15.95	20.79	22.52	21.85	31.97	27.66	24.81	264.86
<u>CURTIS OWEN W</u>															
35/13W-29J005	R21K		0.01*	0.01*	0.00	0.01*	0.01*	0.02*	0.01*	0.01*	0.02*	0.02*	0.02*	0.03*	0.17
<u>OSSEH ENTERPRISES</u>															
45/13W-150015	H7H		0.00	0.00	0.09*	0.00	0.00	0.06*	0.00	0.00	0.15*	0.03*	0.03*	0.02*	0.38
<u>DOMINGUEZ WATER CORPORATION</u>															
45/14W-14D	S	32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	297.85	286.23	584.08
45/13W-02P015	FILLO		0.00	0.03	0.00	0.00	1.51	4.30	0.00	0.98	10.26	0.00	0.00	0.00	17.08
45/13W-04M015	PAM02		15.96	6.04	1.55	3.22	0.86	0.00	0.01	0.00	0.00	0.00	0.00	0.00	27.64
45/13W-07L015	30		3.49	3.65	1.56	3.37	3.01	2.98	2.36	1.84	1.91	2.20	3.03	3.08	34.48
	30A		0.80	0.83	0.00	0.78	0.69	0.69	0.53	0.41	0.44	0.51	0.71	0.69	7.88
45/13W-17D015	19		91.53	91.44	94.35	91.34	83.72	88.49	83.76	94.01	94.61	98.81	96.54	87.10	1097.72
45/13W-22K055	27		2.40	0.58	0.00	0.00	0.00	0.37	3.04	4.03	2.90	1.67	8.18	2.35	23.47
45/14W-18D025	20		0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
	MP001		670.40	675.04	708.34	708.16	510.62	650.71	659.87	725.85	677.10	580.16	573.06	377.72	7517.43
TOTALS			785.63	779.61	808.60	806.87	600.41	747.49	749.57	827.12	787.22	683.37	977.37	757.17	9310.43
<u>FLITCHER OIL AND REFINING COMPANY</u>															
45/13W-30A055	3		5.72	4.24	2.65	6.36	4.71	5.68	4.75	6.39	5.37	6.62	7.17	6.98	66.64
<u>FIJIMOTO, SAMUEL H AND RAYMOND S</u>															
35/13W-30A105	1		0.73	0.48	0.27	0.44	0.40	0.80	0.92	0.78	0.59	0.70	0.69	0.66	7.44
<u>HAWTHORNE, CITY OF</u>															
35/14W-09M045	4		29.10	0.00	0.00	18.50	26.06	21.94	20.92	24.17	25.34	26.96	28.49	23.99	244.97
35/14W-09P015	8		40.73	34.01	35.94	40.66	41.84	35.28	33.42	38.02	39.65	41.93	45.22	37.11	472.20
35/14W-09O035	11		73.77	62.17	34.91	42.60	85.74	72.10	68.55	79.61	85.12	86.52	95.30	79.21	865.60
TOTALS			142.60	96.18	70.84	110.16	153.64	129.32	122.89	141.80	150.11	154.41	169.51	140.31	1582.77

TABLE R-1
GROUND WATER EXTRACTIONS
(CONTINUED)
IN ACRE-FEET

		PRODUCTION												TOTAL
STATE	OWNERS	1967			1968									
WELL	DESIGN	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
NUMBER	NATION													
<u>MILLSIDE MEMORIAL PARK</u>														
25/14W-19K025	1	0.01	0.01	0.00	0.03	0.02	0.00	0.03	0.00	0.00	0.03	0.00	0.01	0.14
25/14W-19K035	2	11.16	5.09	0.56	2.24	1.09	3.90	9.91	7.68	12.09*	15.38	9.47	10.80	89.32
TOTALS		11.17	5.10	0.56	2.27	1.10	3.90	9.90	7.68	12.09	15.41	9.47	10.81	89.46
<u>HOLLYWOOD TURF CLUB</u>														
25/14W-34F015	OUTOP	13.20	8.54	1.52	4.50	2.74	8.33	13.43	17.00	19.47	16.52	11.94	16.54	133.73
25/14W-34L025	IN001	15.45	5.83	0.00	5.24	8.88	13.21	17.30	22.04	21.41	21.26	14.10	9.04	153.76
TOTALS		28.65	14.37	1.52	9.74	11.62	21.54	30.73	39.04	40.88	37.78	26.04	25.58	287.49
<u>HORNSTINA, WILBUR</u>														
35/14W-25K045	R02	0.35*	0.35*	0.35*	0.35*	0.35*	0.35*	0.35*	0.00	0.00	0.00	0.00	0.00	2.45
<u>INDUSTRIAL CHEM DIV-ALLIED CHEM CORP</u>														
35/14W-18N045	4	3.09	11.53	3.01	0.00	0.00	0.00	0.36	3.48	3.05	1.85	3.95	2.00	32.32
35/14W-18N055	5	7.79	8.06	14.32	12.04	10.63	11.12	5.70	3.18	5.92	6.00	9.43	6.58	100.77
TOTALS		10.88	19.59	17.33	12.04	10.63	11.12	6.06	6.66	8.97	7.85	13.38	8.58	133.09
<u>INOSE, KENICHI</u>														
35/13W-29C085	10	0.88	0.64	0.25	0.48	0.33	0.69	1.28	1.46	1.27	1.25	1.46	1.42	11.21
<u>INGLEWOOD, CITY OF</u>														
25/14W-28F015	23	44.59	30.39	0.03	0.03	34.88	43.17	39.93	37.08	37.96	40.46	34.46	31.34	374.32
25/14W-28F015	25	48.10	41.13	24.11	29.00	50.97	53.09	52.11	53.77	52.64	53.36	50.19	50.02	558.49
25/14W-28M015	26	0.00	0.00	0.07	0.11	32.78	61.68	61.04	61.19	60.84	60.48	62.76	62.16	462.91
25/14W-28M025	29	51.26	40.10	60.37	57.75	54.21	57.08	55.34	58.09	55.20	57.74	58.97	57.18	663.29
25/14W-29H015	33	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
25/14W-32C025	34	0.00	0.00	0.00	0.00	0.00	31.30	72.85	85.49	86.42	89.76	86.28	80.75	532.94
25/14W-32F015	71	61.75	71.20	79.87	78.39	74.62	74.45	75.68	76.54	75.97	80.10	74.42	75.25	913.20
25/14W-30C025	2	3.08	0.89	0.31	2.49	1.54	3.57	2.34	2.93	4.55	3.13	2.77	2.62	31.12
35/14W-020015	35	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
35/14W-03H015	38	82.45	0.09	0.07	0.09	0.10	0.25	0.09	95.37	136.60	142.22	124.03	0.00	581.36
35/14W-10G025	30	40.70	42.65	0.22	2.41	0.00	0.00	0.00	29.44	41.99	42.61	41.37	16.47	257.86
TOTALS		339.85	232.45	165.05	170.27	249.10	326.69	359.34	499.90	551.97	569.86	535.25	375.79	4375.52
<u>ISHIHASHI, AKI</u>														
45/14W-24A015	UEDA	2.11	0.82	0.00	0.48	0.80	1.56	1.79	4.60	4.74	2.19	3.37	3.69	26.15
<u>JOHNS HANVILLE PRODUCTS CORP</u>														
45/13W-15N015	WW01	82.73	99.93	104.24	95.10	94.67	102.07	100.05	98.63	88.06	49.86	34.82	25.84	976.04
<u>LOS ANGELES, CITY OF</u>														
	MP001	0.00	0.00	0.00	133.49	0.00	0.00	0.00	142.45	271.58	193.07	438.93	321.10	1500.62
<u>LOS ANGELES COUNTY ALONDRA PARK</u>														
35/14W-27C015	7A1	36.45	23.40	0.06	46.31	21.19	32.69	57.08	81.14	50.02	82.29	91.76	81.26	603.65
<u>LOS ANGELES COUNTY SANIT DIST NO 2</u>														
45/13W-30C015	H19	8.67	8.67	12.67	8.31	9.24	10.71	11.03	13.29	10.62	10.59	11.11	10.80	125.71
<u>LOS ANGELES COUNTY WWS DIST NO 13</u>														
45/14W-35E025	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.18	71.20	74.96	78.99	297.33
<u>LOS ANGELES COUNTY WWS DIST NO 22</u>														
75/14W-17G025	2	87.24	66.71	67.22	51.11	46.50	34.98	8.37	41.47	77.02	95.33	88.09	92.66	756.70
<u>LOS ANGELES COUNTY-WESTERN AVE GOLF</u>														
35/14W-11J025	1397C	21.35	9.11	0.19	3.81	0.54	12.58	12.30	17.87	37.93	44.94	44.85	24.64	230.11

TABLE A-1
GROUND WATER EXTRACTIONS
(CONTINUED)
IN ACRES-FEET

		PRODUCTION												TOTAL
		1968												
WELL NUMBER	OWNER	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT		
MANHATTAN, CITY OF														
35/14W-298035	11	0.06	0.06	0.04	0.04	0.06	0.03	0.02	0.49	1.69	0.05	0.05	0.04	2.63
35/14W-308025	13	0.06	0.06	0.04	0.04	0.04	0.03	0.02	0.49	5.55	14.75	0.60	0.04	24.72
TOTALS		0.12	0.12	0.08	0.08	0.10	0.06	0.04	0.98	7.24	14.80	0.65	0.08	34.35
MAIFLOWER NURSERY														
35/13W-318075	RDWY2	0.26	0.10	0.04	0.10	0.07	0.17	0.08	0.17	0.13	0.24	0.24	0.21	1.81
35/14W-25K065	NORM1	0.42	0.33	0.13	0.24	0.12	0.30	0.18	0.37	0.61	0.40	0.54	0.56	4.20
TOTALS		0.68	0.43	0.17	0.34	0.19	0.47	0.26	0.54	0.74	0.64	0.78	0.77	6.01
MC DONNELL DOUGLAS CORPORATION														
45/14W-01F025	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
45/14W-01F045	2	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.03
TOTALS		0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.04
MORIL OIL CORPORATION														
45/14W-03	S 10006	0.00	0.00	0.00	0.00	0.00	0.00	33.03	158.47	158.10	161.30	158.79	153.76	823.45
45/14W-03L025	10002	48.26	100.69	105.34	104.62	99.05	99.62	97.19	99.33	96.69	100.33	23.51	82.60	1107.23
45/14W-03L035	10003	43.82	103.36	124.92	97.14	41.59	145.52	105.59	0.88	1.09	0.78	107.82	1.19	823.70
45/14W-03L045	10004	118.79	120.39	118.33	120.48	118.74	123.33	120.62	126.72	124.70	126.58	119.66	106.68	1445.02
TOTALS		310.87	324.44	348.59	322.24	259.38	368.47	356.43	385.40	380.58	388.99	409.78	344.23	4199.40
OTANI, CHISATO														
35/14W-338045	OTAMA	3.67	0.75	0.64	0.50	2.11	0.81	1.08	6.07	6.76	4.80	5.45	4.36	37.00
35/14W-348045	SCFRD	4.51	3.29	0.00	0.35	0.62	0.00	1.59	3.74	3.80	3.96	4.63	2.27	28.76
TOTALS		8.18	4.04	0.64	0.85	2.73	0.81	2.67	9.81	10.56	8.76	10.08	6.63	65.76
PACIFIC CREST CEMENTERY COMPANY														
35/14W-33F015	743	5.49	1.57	0.36	0.17	0.50	0.76	2.59	4.46	2.89	4.18	7.23	3.61	33.81
PALOS VERDES HEGUNIA FARM														
45/14W-21N015	1	0.22*	0.16*	0.08*	0.12*	0.12*	0.18*	0.31*	0.26*	0.31*	0.22*	0.34*	0.25*	2.57
PANK WATER COMPANY														
35/14W-22K015	15C	25.39	20.86	20.43	13.47	16.69	23.46	24.51	37.63	31.04	33.50	41.72	28.51	317.21
35/14W-220015	15R	0.36	0.01	0.02	2.86	0.19	0.03	0.03	0.67	0.34	0.47	0.36	0.41	5.75
35/14W-228025	15A	0.00	0.00	0.00	0.09	0.04	0.00	0.00	0.02	0.00	0.00	0.07	0.01	0.23
TOTALS		25.75	20.87	20.45	16.42	16.92	23.49	24.54	38.32	31.38	33.97	42.15	28.93	323.19
ROMAN CATHOLIC ARCHDIOCESE OF L A														
25/14W-180015	HOLYX	6.46	6.06	1.15	2.72	0.93	5.55	10.32	19.22	20.16	16.07	16.73	12.96	118.33
SHEETS, ESTHER M														
35/13W-32E025	H23F	0.12	0.05	0.05	0.04	0.05	0.04	0.06	0.07	0.09	0.12	0.10	0.14	0.93
SHELL OIL COMPANY														
45/13W-09A015	00003	90.99	93.45	124.71	92.82	84.65	86.33	84.62	50.47	0.00	0.00	0.00	0.00	708.04
45/13W-09H015	00001	14.08	14.59	19.19	14.08	12.79	13.37	9.34	0.00	0.00	0.00	0.00	0.00	97.44
45/13W-09H025	00005	0.00	0.00	0.00	0.00	0.00	0.00	4.23	280.88	294.09	303.87	300.99	290.76	1474.32
45/13W-10F035	00004	174.07	133.53	180.09	136.23	122.61	130.17	124.43	82.95	61.73	74.51	72.43	70.10	1327.85
45/13W-21P015	W102	89.97	88.38	112.74	84.42	75.83	82.65	87.91	87.04	96.01	90.61	104.71	87.83	1088.10
TOTALS		334.11	329.95	438.73	327.55	295.88	312.52	310.53	501.34	451.83	468.99	478.13	448.19	4695.75
SHINODA BROS INC														
35/14W-358075	NFW	1.58	1.26	0.65	1.14	1.23	2.15	0.93	1.28	1.18	1.62	2.06	1.54	16.62
SOUTHERN CALIFORNIA EDISON COMPANY														
35/14W-348025	FRESA	0.11	0.10	0.04	0.02	0.02	0.03	0.01	0.09	0.53	0.26	0.36	0.16	1.73
45/13W-14A075	DULNY	0.72	0.26	0.04	0.46	0.21	0.41	0.70	0.08	0.12	0.19	0.30	0.14	3.63
45/13W-27A025	HANSON	0.09	0.08	0.06	0.09	0.06	0.07	0.10	0.15	0.10	0.12	0.13	0.09	1.14
TOTALS		0.92	0.44	0.14	0.57	0.29	0.51	0.81	0.32	0.75	0.57	0.79	0.39	6.50

GROUND WATER EXTRACTIONS
(CONTINUED)
IN ACRE-FEET

		PRODUCTION												TOTAL
STATE :	OWNERS :	1947			1948									
WELL :	FEISIG :	OCT :	NOV :	DEC :	JAN :	FEB :	MAR :	APR :	MAY :	JUNE :	JULY :	AUG :	SEPT :	
NUMBER :	NATION :													
<u>SOUTHERN CALIFORNIA WATER COMPANY</u>														
35/14w-03K015	YU001	74.84	71.21	74.89	37.02	9.90	72.86	73.40	72.87	58.48	56.79	67.23	58.65	723.14
35/14w-03K025	YU002	12.82	10.39	34.04	47.86	53.23	37.14	36.86	51.04	47.59	38.85	42.98	39.61	494.41
35/14w-03K035	YU003	41.11	38.68	19.98	35.77	37.69	36.04	34.26	33.37	30.91	32.72	30.37	30.73	421.63
35/14w-04N015	TR001	36.23	30.54	36.42	34.01	17.22	28.01	36.05	42.44	47.43	42.46	42.00	38.35	431.26
35/14w-04N025	TR002	15.84	10.27	15.13	14.22	8.11	14.70	21.16	19.45	15.99	12.70	10.62	8.37	166.56
35/14w-11R025	W1001	51.99	52.77	53.67	53.37	49.53	37.73	46.52	24.78	20.17	32.34	39.86	37.36	491.49
35/14w-13J025	R0001	76.55	57.29	39.56*	44.21	35.85	42.04	56.15	11.64	7.07	27.26	56.75	27.17	479.54
35/14w-13J035	S0003	18.13	37.33	20.31	21.80	7.36	19.66	0.00	0.00	0.00	0.00	0.00	0.00	144.59
35/14w-13J045	S0004	61.28	61.89	46.50	40.11	14.97	39.80	17.43	0.00	0.00	0.00	0.00	0.00	281.99
35/14w-14A015	F0001	22.58	29.44	46.16	38.68	27.58	37.20	33.21	0.00	0.00	0.00	0.00	0.00	234.85
35/14w-14A015	00129	68.70	32.36	46.31*	27.95	21.27	43.84	46.20	5.39	5.34	11.35	4.39	1.60	314.70
35/14w-22J015	C0001	70.24	42.49	39.78	21.33	21.74	21.52	10.39	5.99	14.89	3.61	2.47	3.00	217.50
35/14w-22A015	C0001	76.39	34.91	49.08	53.70	50.51	52.85	51.84	56.38	50.82	54.61	57.75	55.63	602.47
35/14w-22A025	C0002	56.60	55.73	71.85	76.96	72.00	74.41	70.67	77.37	66.10	65.76	62.09	60.17	809.71
35/14w-22L015	C0001	70.82*	61.91	39.55	67.59	58.23	73.34	79.79	3.57	0.00	0.00	5.66	2.89	458.35
35/14w-25P045	00001	0.00	0.00	1.80	25.76	34.24	42.16	42.55	26.36	23.11	23.14	27.49	22.43	269.04
TOTALS		713.57	643.21	657.03	630.34	519.43	673.40	656.49	430.65	387.90	401.59	449.66	385.96	6549.23
<u>SPANISH AMERICAN INSTITUTE</u>														
35/13w-190015	B111	2.57	1.96	1.58	1.77	1.28	1.66	1.69	1.80	1.65	2.38	1.55	1.19	21.08
<u>SPARKLETT'S DRINKING WATER CORP.</u>														
35/13w-290045	1	2.00	1.97	1.81	2.08	1.96	2.01	2.12	2.14	1.97	2.39	2.59	2.10	25.18
35/13w-290075	2	2.00	1.77	2.13	2.17	2.03	2.06	2.12	2.50	2.50	2.41	2.61	2.35	26.65
TOTALS		4.00	3.74	3.94	4.25	3.99	4.07	4.24	4.68	4.47	4.80	5.20	4.45	51.83
<u>STANDARD OIL COMPANY OF CALIFORNIA</u>														
35/14w-07K045	F0030	21.21	18.19	14.64	15.86	20.20	22.03	30.60	33.54	19.01	23.23	30.78	30.22	279.51
35/14w-07K055	F0033	58.04	55.10	57.11	56.32	46.96	42.95	36.96	41.16	28.90	26.86	28.85	24.09	503.28
35/14w-07K065	F0034	95.63	92.85	94.88	94.39	87.46	93.07	87.53	20.42	0.00	0.62	35.97	46.25	748.17
35/14w-07Q045	F0029	19.49	13.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.79
35/14w-07Q045	F0032	42.81	36.73	36.17	32.35	29.48	32.03	30.40	33.91	59.18	18.88	8.87	50.07	410.88
35/14w-24E015	J2001	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	3.72
TOTALS		237.49	216.48	203.11	199.23	184.41	190.39	185.90	129.32	107.40	69.90	104.78	150.94	1979.35
<u>STAUFFER CHEMICAL COMPANY</u>														
45/13w-10F025	00001	36.27	41.01	35.60	41.67	40.38	42.15	41.17	40.55	37.51	35.04	35.42	34.68	461.45
45/13w-22F025	H0001	13.01	12.37	12.25	14.27	7.47	4.91	4.12	3.46	3.77	3.59	3.64	3.60	86.46
TOTALS		51.28	53.38	47.85	55.94	47.85	47.06	45.29	44.01	41.28	38.63	39.06	38.28	549.91
<u>TEXACO INCORPORATED</u>														
45/13w-27M015	3	0.00	98.15	81.18	105.58	61.38	73.84	68.38	80.75	64.99	44.11	24.32	0.00	702.68
45/13w-27M035	5	222.57	146.36	198.76	143.03	196.15	190.08	180.51	135.39	110.41	36.39	0.00	0.00	1609.59
45/13w-27M045	6	76.48	60.07	0.00	29.11	68.14	41.06	24.55	87.43	85.61	29.77	73.65	106.13	691.00
TOTALS		299.05	363.52	279.94	277.72	325.67	304.98	273.44	303.57	261.01	110.27	97.97	106.13	3003.27
<u>TORRANCE, CITY OF</u>														
35/14w-34C025	6	0.00	0.00	0.00	0.00	0.00	0.00	3.10	26.73	109.17	89.67	74.10	67.79	370.56
45/14w-10J015	2	0.00	0.00	0.00	0.00	0.00	1.92	13.47	3.31	11.22	31.04	24.50	33.24	123.70
45/14w-10K025	4	49.70	0.00	0.00	7.91	0.00	22.09	35.06	84.43	138.88	142.95	147.52	334.53	1559.07
45/14w-10K035	5	89.50	13.75	0.00	1.40	0.00	2.95	34.19	93.97	257.58	300.86	258.13	233.46	1285.97
45/14w-16L045	7	30.20	0.00	0.00	0.00	1.36	4.41	5.20	19.45	91.59	101.06	37.69	18.32	309.28
TOTALS		169.40	13.75	0.00	5.31	1.36	31.37	91.62	227.89	808.44	865.58	746.94	687.52	3648.58
<u>UNION NURSERY INC.</u>														
35/13w-296035	R31	1.37	0.88	0.65	0.71	0.62	0.67	0.82	1.11	0.99	1.36	1.15	0.66	10.99
<u>UNION OIL COMPANY OF CALIFORNIA</u>														
45/13w-31P015	L0003	199.90	146.13	196.57	195.29	170.32	176.68	170.82	149.69	133.32	136.64	157.93	152.33	2035.87
45/13w-36F015	L0002	52.42	66.96	92.07	90.66	67.28	65.07	57.01	59.17	63.75	75.82	82.08	78.35	850.64
TOTALS		252.32	263.24	288.64	285.95	237.60	241.75	227.83	208.86	197.07	212.51	240.01	230.68	2886.51
<u>UNITED STATES STEEL CORPORATION</u>														
45/14w-11F015	4	77.07	99.53	135.10	135.17	120.40	119.16	124.14	114.87	107.46	108.46	109.35	102.12	1352.83
<u>WATSON LAND COMPANY</u>														
45/13w-15C015	R67F	4.38	4.96	0.00	0.00	0.00	0.49	1.66	3.14	6.69	8.93	9.04	7.09	46.38

TABLE R-1
GROUND WATER EXTRACTIIONS
(CONTINUED)
IN ACRE-FeET

STATE	WELL NUMBER	PRODUCTION												TOTAL	
		1967					1968								
		1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
		1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
716GLFR, MA4WELLT.															
35/13W-31M015	817N	3.60	2.74	1.19	2.84	2.49	2.34	3.89	4.44	4.39	6.05	4.27	3.28	41.52	
		<u>5009.84</u>	<u>4517.41</u>	<u>4595.54</u>	<u>4558.43</u>	<u>3944.79</u>	<u>4678.95</u>	<u>4687.98</u>	<u>5264.44</u>	<u>6000.37</u>	<u>6087.67</u>	<u>6545.57</u>	<u>5662.77</u>	<u>61553.76</u>	

*Estimated Production

TABLE B-2

GROSS WATER SUPPLY
In acre-feet

Party	: Adjudicated : : Right, : : in acre-feet :	Total : : ground water : : extractions :	: Imported and/or : : purchased supply :	: Total supply
ABC Nursery, Incorporated	20.30	3.37	0.00	3.37
American Plant Growers, Incorporated	10.00	18.33	0.00	18.33
Associated Southern Investment Company	46.70	0.00	0.00	0.00
Atlantic Richfield Company	4,428.00	8,978.40	3,886.35 ^{a/}	12,864.75 ^{b/}
Ballman, Frank A. and Rosemary N.	7.00	0.00	-- ^{b/}	-- ^{b/}
Barclay, Richard and R. A. Watt	0.00	0.00	0.00	0.00
California Water Service Company	3,071.00	2,220.89	10,644.30 ^{a,c/}	12,865.19
Carson Estate Company	130.00	41.79	74.32 ^{a/}	116.11
Carson-Madrona Company	104.00	0.00	15.99 ^{a/}	15.99
Chandler's Palos Verdes Sand and Gravel Corporation	294.20	264.86	0.00	264.86
Coast Forest Products Incorporated	3.40	0.00	-- ^{d/}	-- ^{d/}
Columbia Broadcasting System, Curtis, Owen W.	12.50	0.00	0.00	0.00
Delaney, Golda, Estate of	0.36	0.17	0.00	0.17
Desser Enterprises	4.10	0.00	0.00	0.00
	0.00	0.38	0.00	0.38
Dominguez Water Corporation	10,058.25	9,310.43	21,883.23 ^{c,e/}	31,193.66
El Segundo, City of	953.00	0.00	13,400.20 ^{c/}	13,400.20 ^{b/}
Etochemendy, Caroline, Estate of	8.20	0.00	-- ^{b/}	-- ^{b/}
Flesh, Leslie R. and Andor Pasternak, et al.	3.50	0.00	-- ^{d/}	-- ^{d/}
Fletcher Oil and Refining Company	86.30	66.64	48.37 ^{a/}	115.01
Fujimoto, Samuel R. and Raymond S.	20.00	7.46	-- ^{d/}	7.46 ^{d/}
Gillingham, Florence R., et al.	2.40	0.00	-- ^{d/}	-- ^{d/}
Gonzales, Felipe and Gabriela	34.30	0.00	0.00	0.00
Grant, John, Estate of	59.00	0.00	-- ^{b/}	-- ^{b/}
Harris, R. and L.	0.70	0.00	0.00	0.00
Harris Tube, Incorporated	0.70	0.00	-- ^{b/}	-- ^{b/}
Hawthorne, City of	1,882.00	1,582.77	3,952.30 ^{c/}	5,535.07
Hillside Memorial Park	29.20	89.46	0.00	89.46
Hollywood Turf Club	282.00	287.49	341.00 ^{a/}	628.49
Hornstra, Wilbur	14.10	2.45	0.00	2.45
Industrial Chemical Division Allied Chemical Corporation	255.00	133.09	724.35 ^{a/}	857.44
Inglewood, City of	4,383.80	4,375.52 ^{e/}	11,384.80 ^{c,e/}	15,760.32
Inose, Kenichi	1.90	11.21	0.00	11.21
Ishibashi, Aki	0.00	26.15	0.00 ^{b/}	26.15 ^{b/}
Jenkins, Harry C.	1.80	0.00	-- ^{b/}	-- ^{b/}
Johns-Manville Products Corporation	881.00	976.04	651.50 ^{a/}	1,627.54 ^{d/}
Joughin Torrance Ranch	20.25	0.00	-- ^{d/}	-- ^{d/}
Jungquist, Fred A.	3.70	0.00	-- ^{b/}	-- ^{b/}
Lermans, Alfred	0.70	0.00	0.00 ^{b/}	0.00 ^{b/}
Leuzinger, Emma L.	1.40	0.00	-- ^{b/}	-- ^{b/}
Long Beach, City of	0.70	0.00	30,461.14 ^{c,e/}	30,461.14
Lopes, Frank	3.70	0.00	0.00	0.00
Los Angeles, City of	1,503.00	1,500.62	52,250.00 ^{c,e/}	53,750.62
Los Angeles County-Alondra Park	67.70	603.65	77.85 ^{a/}	681.50
Los Angeles County Sanitation District No. 2	102.00	125.71	138.87 ^{a/}	264.58

TABLE B-2
GROSS WATER SUPPLY
In acre-feet
(continued)

Party	Adjudicated Right, in acre-feet	Total ground water extractions	Imported and/or purchased supply	Total supply
Los Angeles County Waterworks District No. 13	1,352.00	297.33	2,300.20 ^{c/}	2,597.53
Los Angeles County Waterworks District No. 22	551.00	756.70	794.00 ^{c/}	1,550.70
Los Angeles County-Western Avenue Golf Course	296.00	230.11	44.35 ^{a/}	274.46
Loyola University of Los Angeles	48.10	0.00	140.77 ^{a/}	104.77
Manhattan Beach, City of	1,131.20	32.35	5,450.72 ^{a,c/}	5,483.07
Mayflower Nurseries	0.00	6.01	-- ^{d/}	6.01
McDonnell Douglas Corporation	1.70	0.04	-- ^{d/}	0.04
Mobil Oil Corporation	2,570.00	4,199.40	3,949.26 ^{a/}	8,148.66
Moran, Ronald E.	6.00	0.00	0.00	0.00
Mori, Roy H. and Kenji	5.60	0.00	0.00	0.00
Murdock, George R.	1.37	0.00	0.00	0.00
Norair, A Division of Northrop Corporation	38.15	0.00	-- ^{d/}	-- ^{d/}
Normandie Park	0.00	0.00	0.00	0.00
Otani, Chisato	0.00	65.76	0.00	65.76
Pacific Crest Cemetery Company	39.40	33.81	0.00	33.81
Palos Verdes Begonia Farm	0.00	2.57	0.00	2.57
Palos Verdes Water Company	999.00	0.00	13,115.10 ^{c/}	13,115.10
Park Water Company	160.00	323.19	0.00	323.19
Phillips Petroleum Company	167.00	0.00	10.74 ^{a/}	10.74 ^{b/}
Rehor, Josephine P.	2.20	0.00	-- ^{b/}	--
Rockwell, Michael L.	0.10	0.00	0.00	0.00
Roman Catholic Archbishop of Los Angeles	72.30	118.23	0.00 ^{a/}	118.23 ^{a/}
Santa Fe Land Improvement Company	39.50	0.00	-- ^{d/}	-- ^{d/}
Sheets, Esther M.	5.50	0.93	0.00	0.93
Shell Oil Company	4,516.00	4,695.75	4,015.85 ^{a/}	8,714.60
Shinoda Brothers, Incorporated	22.50	16.62	0.00	16.62
Southern California Edison Company	10.40	6.50	5.96 ^{a/}	12.46
Southern California Water Company	6,548.64	6,549.23	21,057.73 ^{a,c/}	27,606.96
Spanish American Institute	44.40	21.08	0.00	21.08
Sparkletts Drinking Water Corporation	152.60	51.83	0.00	51.83
Standard Oil Company of California	4,601.30	1,979.35	7,592.00 ^{a/}	9,571.35
Stauffer Chemical Company	521.00	549.91	93.20 ^{a/}	643.11
Superior Oil Company	26.40	0.00	0.00	0.00
Texaco, Incorporated	3,432.00	3,003.27	3,864.04 ^{a/}	6,867.31
Thaxter, Walter and Lois A. LeNoir	3.50	0.00	0.00	0.00
Torrance, City of	3,795.73	3,648.58	19,319.00 ^{c/}	22,967.58
Union Nursery, Incorporated	4.70	10.99	0.00	10.99
Union Oil Company of California	2,670.00	2,886.51	4,658.89 ^{a/}	7,545.40
United States Steel Corporation	1,791.00	1,352.83	201.33 ^{a/}	1,554.16
Watson Land Company	42.60	46.38	95.91 ^{a/}	142.29
Watt, R. A., Incorporated	0.00	0.00	0.00	0.00
Wiseburn School District	8.20	0.00	55.45 ^{a/}	55.45
Ziegler, Maxwell T.	0.00	41.52	0.00	41.52

a/ Purchased from municipal, mutual, or public utility water agency.

b/ Domestic use with consumption less than one acre-foot purchased from public utility.

c/ Imports from Metropolitan Water District.

d/ Information not available.

e/ Imports from Central Basin

f/ Imported from Owens River-Mono Basin.



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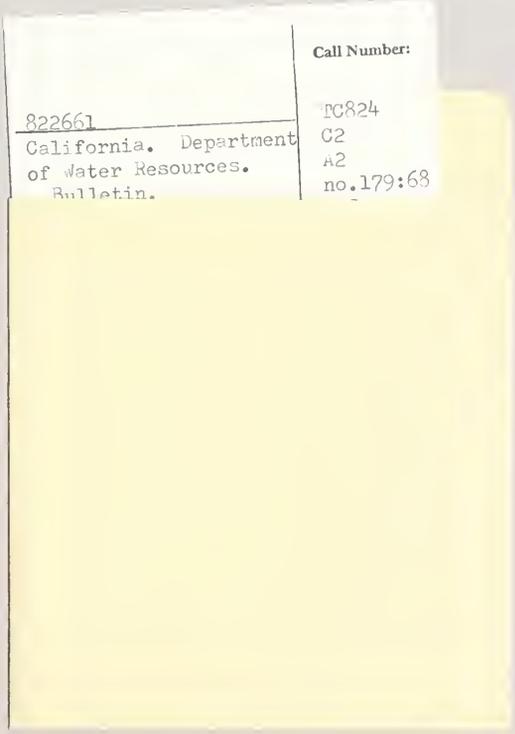
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