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DIVISION OF WATER RESOURCES

EARL WARREN, Governor
C. H. PURCELL, Director of Public Works
EDWARD HYATT, State Engineer

BULLETIN NO. 21-N

REPORT
ON
I R R I G A T I O N D I S T R I C T S
IN
CALIFORNIA
FOR THE YEAR 1942



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ORGANIZATION

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FOREWORD

A series of annual reports on Irrigation Districts in California has been issued by the Division of Water Resources to supplement and bring up to date the statistical information contained in Bulletin No. 21 which was published in 1929. This report, Bulletin No. 21-N, is the fourteenth of the lettered series and contains the data gathered for the year 1942. It should be noted, however, that information on outstanding bond issues has been brought up to the close of the fiscal year ending June 30, 1943.

The material has been compiled from annual reports submitted by the individual districts in the form of questionnaires, and from records on file in the office of the State Engineer. No field work has been carried on to verify or check the data assembled, but figures and statements of others have been compared and the tabular results presented are believed to be reasonably accurate.

The bulletins are issued for the purpose of preserving in convenient form the annual records of these organizations. District boards of directors are required by law to submit reports of district operations and publish verified statements of their financial condition immediately following the regular monthly meetings in March of each year. These reports form the basis of the compilations made for publication.

ANNUAL REVIEW

District Reports

Eighty-one irrigation districts and four water storage districts submitted reports of their activities for the year 1942. No new irrigation districts were formed during this period and none were dissolved. One new water storage district held its organization election shortly after the first of the year.

A review of district financial reports shows the large amount of business carried on annually by these organizations as a group. Total receipts for the year from all sources in 79 districts amounted to \$15,477,868 while expenditures for this period were \$15,119,333.

Seventy-two districts are listed with outstanding bonds in the amount of \$64,027,863. Refunding plans in most of the districts have now been completed. Seven districts, however, still show overdue and unpaid obligations in some amount.

Sixty-six districts levied a total of \$4,397,546 in assessments for the year 1942-43. The average delinquency in payment of assessments on the date of last tax scale was 7.8 percent for the group as a whole, which was the lowest combined average that has been shown during the past fifteen years.

The total area of tax-deeded lands held by 45 districts at the close of the year was 174,127 acres. These lands are now being rapidly sold and returned to the tax rolls. Forty-

eight districts reported receipts from land sales during 1942 in the amount of \$681,630.

The cultivated area in all districts reporting was 1,913,234 acres of which 1,807,286 acres were irrigated and 105,948 acres were dry-farmed. Approximately 68 percent of the irrigable land was irrigated during 1942 in the 81 districts that supplied crop information.

The total water diverted by districts was 8,392,700 acre-feet. Approximately 88 percent of which was by gravity, 8 percent by pumping from streams, and 4 percent by pumping from district wells. For all pumping operations, power units of 43,486 horsepower were reported installed.

Growing Season of 1942

Weather conditions throughout the State were mostly favorable for the growing and harvesting of crops. Rainfall for the season was ample and generally well timed. The moisture supplied favored dry-land crop production and irrigation water was plentiful.

The total annual snowfall was only 79 percent of the 46-year average, but precipitation approximated the long-time mean. It was well above normal in the Sacramento Basin, about normal in the San Joaquin Basin, and somewhat deficient in Southern California.

Temperature deficiencies early in the season and late planting in the Sacramento Valley due to river floods retarded some crops. A freeze in February also gave truck and fruit trees a temporary set back in certain sections.

There was a change to warmer than usual weather in June and during the summer and fall months conditions were particularly favorable for growth and development. The uninterrupted bright, dry weather of August, September, and October enabled growers to greatly extend the harvesting period, thereby avoiding serious crop losses that would have resulted from peak demands on the limited supply of labor that was available.

Farm Operations

A review of statistics gathered by the California Co-operative Crop Reporting Service shows that farmers of the State were faced by many new and complex situations in 1942 due to the impact of war. More foods and fibers were basic needs of the nation and its allies. Labor was scarce and inexperienced. Materials and equipment were both limited and expensive. Transportation was being readjusted to meet unusual demands.

Despite these changed conditions, the orchards, groves, and vineyards in California responded to harder work and to favorable natural conditions with a fine output of production which was the second largest of record, being exceeded only by that of 1941. The combined returns from fruit and nut crops were the greatest of all years, but did not represent a corresponding net gain to the grower since labor and operating costs were also much higher than usual.

A new high record was set by the combined value of field crops produced in the State which was nearly one-

third above the previous high of 1941. The remarkable increase in total value of these crops resulted mainly from higher price levels although production was much above average. The total acreage of field crops harvested exceeded that for any previous year

Vegetable and melon crop returns in 1942 gave growers and shippers a large gross gain over the previous year. Greatly increased consumer purchasing power created a demand which resulted in prices at relatively high levels, but costs of production were likewise increased which cut down the net profit to growers of these crops. In point of value, lettuce again led all vegetables in California, with tomatoes second, cantaloupes third, asparagus fourth, and celery and carrots running a close race for fifth place.

Cash income from livestock sources during the year was by far the largest ever obtained. It was 36 percent higher than the corresponding income for 1941. This increase resulted partly from greater volume of sales, but mainly from higher prices received for livestock and livestock products. The increase in cash income did not represent equivalent gains in net returns since here again production costs were up.

Range and pasture feed conditions in the State were better than average throughout the year. Supplies of hay and most concentrates were large. A record barley crop was produced. The continued large demand for livestock products indicated further expansion of the industry during 1943.

ORGANIZATION OF WATER STORAGE DISTRICTS

Although the greatest number and by far the largest area in irrigation projects of the State have been formed under the California Irrigation District Act, there are other types of water districts that have been adopted to meet the special requirements of certain sections.

The Water Storage District differs from the Irrigation District principally in the methods provided for voting and for levying assessments. Voting is on a property qualification basis with one vote allowed for each one hundred dollars of assessed land value. Assessments are based on the benefits that will accrue to each separate tract. This form of district is particularly suited to areas of sparse population, where land ownerships are in large holdings, or where the benefits to be derived from the project are not uniform throughout the area.

Organization of a water storage district is initiated by a petition to the State Engineer signed by either a majority in number of holders and of value of the included lands or by not less than 500 petitioners who are the owners of at least ten percent in value of the land within the proposed district. The county assessment roll is used as the basis of value in the petition for organization.

The State Engineer receives and holds a hearing on the petition, issues the order defining the district boundaries, and calls and conducts the election on organization. After its organization the district board of directors take up

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The State Engineer receives and holds a hearing on the petition, issues the order defining the district boundaries, and calls and conducts the election on organization. After its organization the district board of directors take up

their duties and cause an engineering report to be prepared containing detailed plans and estimates of cost of the works proposed to be acquired or constructed. A copy of this report is filed with the State Engineer who makes such further investigations as seem desirable and issues an order either approving or disapproving the project as outlined. Thereafter an election is called within the district to determine whether or not the recommendation and report shall be adopted by the landowners.

Water storage districts have the same general powers as similar types of organizations. They may construct and operate works for storage and distribution of water, drainage or reclamation in connection therewith, and may provide for the generation and distribution of hydroelectric energy incidental to these operations.

There are at present four large water storage districts in existence.

Buena Vista Water Storage District, organized in 1927, comprises about 78,500 acres in Kern County. It includes the area in Buena Vista Lake and the lands along the lower Kern River in the vicinity of Buttonwillow. The district adopted a plan for the purchase and improvement of existing irrigation canals and flood control works that had been constructed by private interests. Costs were assessed against the lands, except those used as a reservoir, and a bond issue in the amount of \$942,731 was voted to carry out the project.

Tulare Lake Basin Water Storage District, organized in

1927, includes about 192,000 acres in Kings and Tulare counties. The district adopted a plan providing for acquisition and use of a portion of Tulare Lake bed as a reservoir. Costs of the plan were assessed, rights of way were acquired, and certain improvements were made to inlet channels. Some twenty or more reclamation districts and one irrigation district are included within the storage district boundaries.

North Kern Water Storage District, formed in 1935, embraces an area of about 58,700 acres in Kern County, northwest of Bakersfield. A final plan for the district has not yet been adopted. A large portion of the area has at times received irrigation water through the Calloway and Lerdo canals diverting from Kern River. A tentative plan has been advanced by which the district would purchase the rights of existing canals and supplement the available gravity supply by pumping from underground waters. The Friant-Kern Canal of the Central Valley Project offers a possible alternate source of securing supplemental water as the tentative alignment of the canal passes through the district.

Arvin-Edison Water Storage District, the last to be formed, held its organization election in January, 1942. The district covers an area of about 131,400 acres located southeast of Bakersfield that plans to secure a water supply from Kern River through the negotiation of an exchange agreement with vested interests. Under the proposal water purchased from the Central Valley Project would be traded to present owners of rights on the lower Kern River and diver-

sions would then be made at a higher elevation on the river for service of lands in the new district. A more detailed description of the Arvin-Edison District appears on the following pages.

Other water storage districts that have been organized but subsequently dissolved because of change in plan, or because of failure to work out plans mutually agreeable to all of the included interests, are listed below:

Water Storage Districts Dissolved by Decrees of Superior Courts				
Water Storage District	Organized	Dissolved	County	Decree of Superior Court Case No.
Tulare Lake	1924	7/29/27	Kings	5671
San Joaquin River	1924	3/19/29	Merced	7873
Kern River	1923	6/6/29	Kern	22633

Tulare Lake Water Storage District, first organized to include an area of about 175,000 acres, was later dissolved in order that the larger Tulare Lake Basin Water Storage District might be formed embracing additional lands.

San Joaquin River Water Storage District and Kern River Water Storage District both failed to work out satisfactory plans because of the complex water problems involved.

ARVIN-EDISON WATER STORAGE DISTRICT

<u>Location:</u>	Southeast of Bakersfield, Kern County
<u>Date of Organization:</u>	January 6, 1942
<u>Gross Area:</u>	131,400 Acres
<u>Post Office Address:</u>	359 Haberfelde Bldg., Bakers- field
<u>Railroad Transportation:</u>	Southern Pacific and Santa Fe Railroads

Tentative Plan

The nature of the works proposed by the district as set forth in the petition for organization are listed as follows:

1. A diversion dam and works for the diversion of water from Kern River.
2. A canal leading from the diversion point to selected points in the district for the delivery of water into spreading basins and for delivery of water for surface irrigation of lands.
3. Lateral ditches and pipe lines leading from the main canal at various points to such lands in the district as can be economically and adequately irrigated by means of surface application of water and where ground water replenishment is not considered feasible.
4. Spreading works and spreading basins at selected points in the district for the purpose of spreading water and sinking the same into underground strata so as to raise and maintain the level of the underground waters

beneath the surface of lands of the district.

History of Area

The chief agricultural pursuits in the Bakersfield area prior to 1870 were stock raising on large land grants and some dry grain farming. By 1880, field crops had been introduced in many places, but the land was still in large holdings. About 1890 a combination of factors including cheap land, favorable crop yields, the building of two railroads, and the expansion of the petroleum industry, caused more rapid development and a change to more intensive types of agriculture.

A large number of canal diversions were made during this early period for irrigation of lands along Kern River, but it was not until after 1900 that pump irrigation was seriously considered. Within the present district area the citrus plantings of the Edison Land and Water Company in 1908 and 1909 were the first general development by pumping and these were followed by plants in the Loma Park area along the foot of the mesa near Bakersfield. The development of wells in the vicinity of Arvin took place largely after 1916 and has spread rapidly southward in recent years.

In 1919 there was considerable public discussion in Kern County toward the organization of a large irrigation district to include all lands then served from Kern River and such additional lands as could be supplied. The area considered embraced some 400,000 acres. The effort made

failed of accomplishment but the discussions lead to an extensive investigation under direction of the State Engineer, the results of which were published as Bulletin No. 9 of the State Department of Engineering in 1921. This report recommended the organization of a district, but found that the Kern River was capable of furnishing an adequate water supply for only about 292,000 acres.

Based largely on the information of this report the Kern River Water Storage District (1923), and the Buena Vista Water Storage District (1924), were organized to include those areas with water rights under the First and Second Points of Measurement, respectively, as defined by the Miller-Haggin Agreement on Kern River. The Buena Vista Water Storage District purchased its system of canals and has continued in successful operation to date, but the Kern River Water Storage district was dissolved in 1929 because the various interests failed to reach a satisfactory agreement for acquiring the necessary irrigation works and water rights. A portion of the area north of Kern River under the Calloway and Lerdo Canals was reorganized as the North Kern Water Storage District in 1935, but the district has not yet completed its plans for purchase and improvement of the system that serves the land within its boundaries.

The petition for organization of Arvin-Edison Water Storage District containing signatures of 554 land owners, representing more than 33 percent in value of the included lands, was formally filed with the State Engineer, September 15, 1941. This action followed recommendations in the re-

port of a consulting engineer retained by the Kern County Board of Supervisors to make a study of the water supply from the Central Valley Project required to be imported for Kern County lands. The organization election held January 6, 1942, carried by a vote of 12,153 to 3,912.

Location and Description of Lands

The Arvin-Edison Water Storage District comprises one of the largest remaining areas of high-grade undeveloped agricultural lands in the State. Within its boundaries are 131,400 acres. Beginning three miles from the City of Bakersfield and extending for 48 miles, its perimeter abuts the toe of the mountain slopes that block off the southern end of the San Joaquin Valley. Measured from this perimeter its width varies from 4 to 10 miles with an average of about 6. Land elevations for the most part range for 400 to 1,000 feet above sea level. The ground surface is generally even and slopes away from the mountains at rates of from 30 to 100 feet to the mile. While this condition insures effective drainage it also involves on the steeper slopes an erosion hazard that will require considerable care in the application of irrigation water.

All of the lands within the District are covered by the recent unpublished Soil Survey of the Bakersfield Area prepared by the U. S. Department of Agriculture in cooperation with the University of California. The deep alluvial soils are classified principally as sandy loams and loams. They

are generally loose and friable but with sufficient fine material to retain moisture and are well suited to irrigated agriculture.

A segregation of soils of the District area in accordance with their value for agricultural use is approximately as follows:

Good to excellent.....	54,870	acres
Good.....	34,370	"
Fair to good.....	22,320	"
Fair.....	5,780	"
Poor to fair.....	7,610	"
Poor to very poor.....	1,040	"
Non-agricultural.....	5,410	"
	<hr/>	
Total	131,400	acres

It is evident that a large proportion of these lands could be put into production if assured of a water supply. After deducting the acreage occupied by roads, rights of way, farmsteads, and non-agricultural soils, the net irrigable area amounts to about 100,000 acres or 76 percent of the gross district area.

Present Development

Irrigation by private pumping plants has been practiced in the district for more than 25 years and its success is demonstrated by the continuous expansion that has taken place. This development started in the northerly end near Edison on the alluvial fan of Caliente Creek and spread southerly to the vicinity of Arvin. A survey conducted in 1938 by the Arvin-Edison Water Committee indicated that a total of about 34,400 acres or 26 percent of the gross district area was irrigated that year. The crops raised in

the order of their extent were cotton, vines, field crops, potatoes, alfalfa, deciduous fruits, garden truck, citrus and olives. With the exception of an increased acreage of potatoes in the Edison area, the trend in agriculture was toward greater plantings of field crops such as cotton and milo maize and a lesser acreage of some deciduous fruits. Virgin soil was going into cultivation for new plantings in both the Edison and Arvin areas but the success of this development was largely dependent upon the prospect of securing an economically adequate supply of water for irrigation.

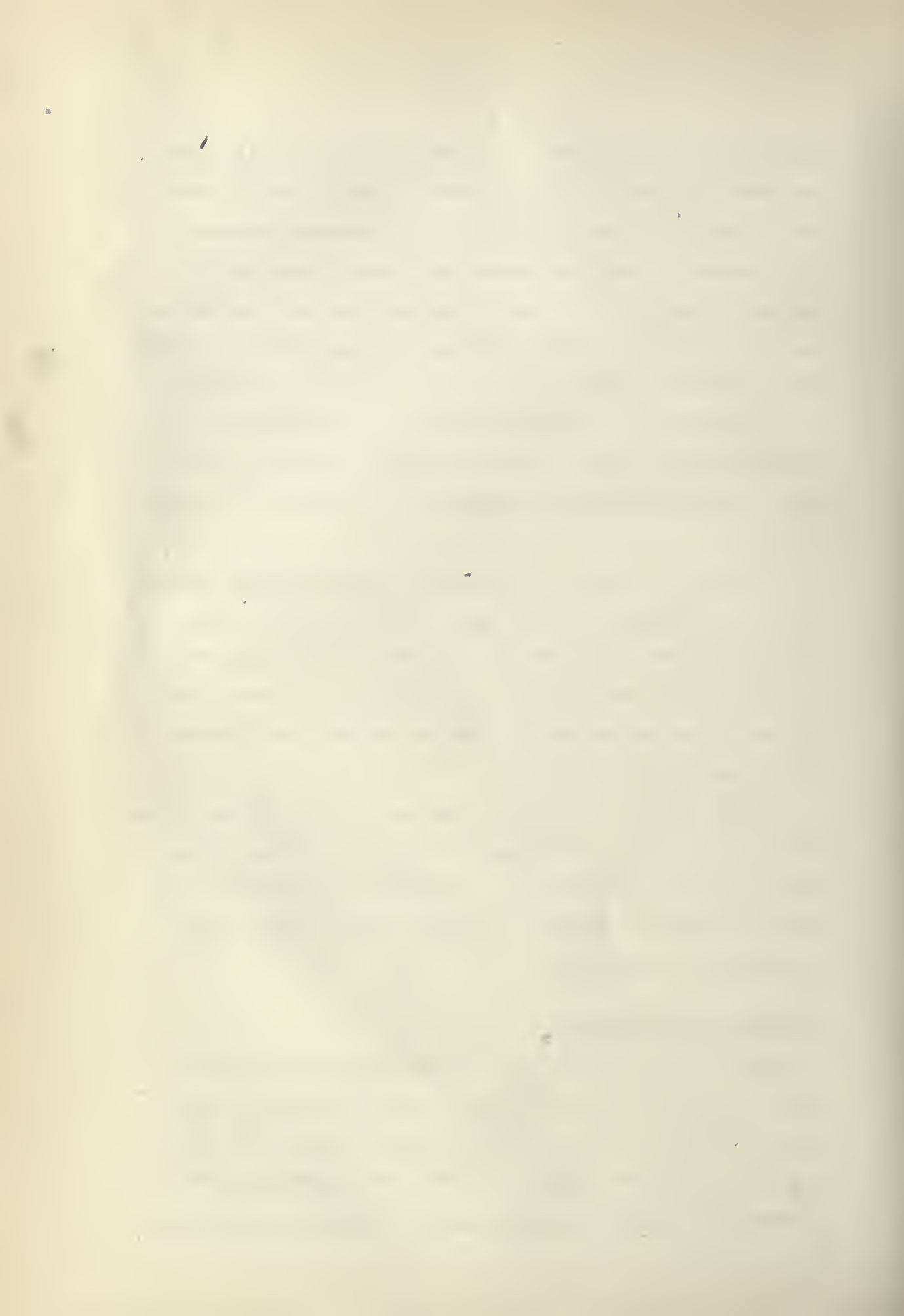
The town of Edison is a station on the transcontinental line of the Southern Pacific Railroad which passes through Bakersfield and across the northern end of the district.

Arvin with a rapidly growing population of about 3,000 is located in the central portion of the area on a branch line of the Santa Fe Railroad.

Highway 99, the principal route of freight trucks plying between Los Angeles, San Francisco, and way points, passes through the southerly end of the district. There are also about 200 miles of improved and oiled access roads within the district boundaries.

Underground Water Supply

Lands of the district have no present surface water supply. They lie entirely above the service area of the East Side Canal which forms their western border for about 17 miles. All development has been made by pumping from underground storage. Replenishment of the ground water is



dependent on the inflow from small local streams that drain the adjacent mountains and whose flow is too erratic for direct diversion. Most of this flow sinks below the surface within a short distance of the foot of the mountain slope. Some percolation also reaches the ground water from irrigated areas under the East Side Canal. The total inflow has been inadequate, however, to meet the demands of the present development and a large overdraft has taken place on the underground reservoirs.

Measurements of the depths to groundwater in a number of wells in the Arvin-Edison area have been made during the fall of each year from 1920 up to the present time. These records indicate that there has been a continuous drop in the ground water levels that has averaged about 3 feet annually under the areas where pumping is practiced. There is only a small part of the developed area that now has depths to ground water less than 100 feet. Under a very large acreage the depth to water exceeds 200 feet and for several thousand acres the depths are more than 300 feet.

While it is probable that the large volume of water still in underground storage could sustain the overdraft upon it for a good many years, it is evident that the pumping lifts are becoming increasingly costly and will in time reach an economical limit beyond which the expense will be more than most crops can reasonably pay.

Future Water Requirements

Water requirements of irrigated lands in the southern San Joaquin Valley have been the subject of study by the State Division of Water Resources for a number of years. The surveys have included large irrigation units where the surface supply was supplemented by pumping from underground waters. It has been found that when the inflow to areas extensively developed to general crops has averaged about 2 acre-feet per irrigable acre per season, all needs of growing crops have been supplied and ground water levels have been maintained for pumping without permanent lowering.

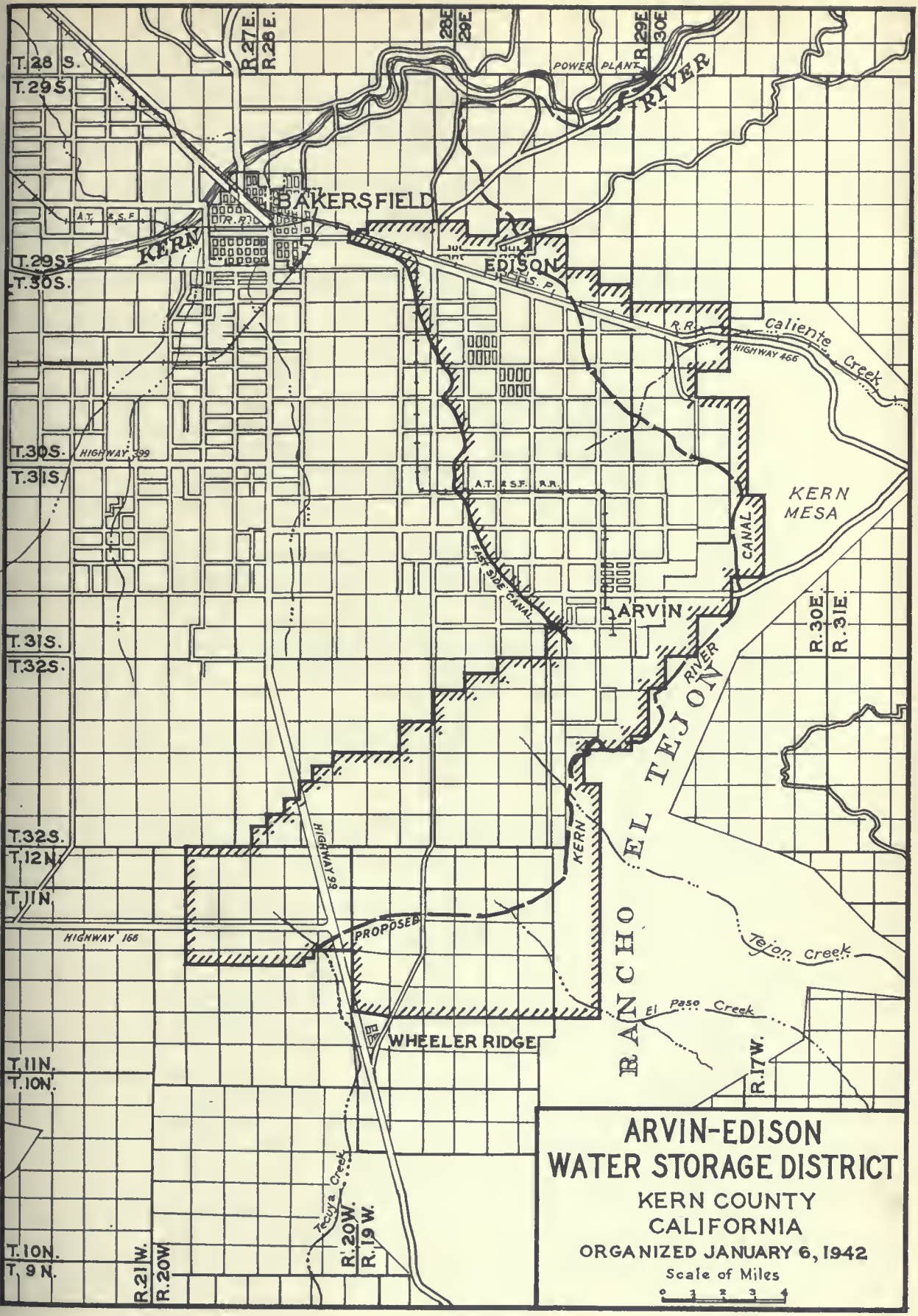
Taking this value of 2 acre-feet per irrigated acre per season as the minimum requirement for water supply in the Arvin-Edison area, the total annual requirements for development of the 100,000 acres of irrigable lands would amount to about 200,000 acre-feet per season. Of this amount it is estimated that 20,000 acre-feet are available from runoff of local foothill streams leaving 180,000 acre-feet to be imported from some other source.

An investigation of the possibility of securing a supplementary supply of water for the district directly from Kern River has led to the conclusion that water in excess of use by vested rights of long standing is available only during seasons of high runoff. In the period 1910 to 1938, there were only four such years when excess water could have been diverted. It is evident, therefore, that an adequate supply is not available from that source alone.

The district can secure an adequate and dependable water supply, however, by purchase and exchange of Central Valley Project water, to be delivered through the Friant-Kern Canal, for an equal amount of Kern River water that can be diverted at an elevation high enough to furnish a gravity supply to the district lands.

The water that will be imported into Kern County by the Central Valley Project, according to present plans will arrive at the Kern River at about elevation 370 which is below the lands of the Arvin-Edison District, but higher than a large body of lands now under irrigation from Kern River. The exchange of water referred to would be made with these lower lands. The district could then divert Kern River water at an elevation of about 680 feet and avoid the pumping lift that would otherwise be necessary to make use of water from the Friant-Kern Canal.

The proposed exchange of waters has been given detailed study by the Division of Water Resources and has been found feasible and practical of accomplishment. The district was formed to provide an organization that could negotiate with State and Federal agencies and with the present owners of water rights on Kern River in working out a definite plan.



DISTRICTS SECURITIES COMMISSION

The California Districts Securities Commission is charged with the direction and supervision of the fiscal and physical affairs of irrigation and certain other agricultural districts organized under the laws of the State. The chief statutory functions of the Commission are listed as follows:

- 1) To investigate and report upon the sufficiency of water supply, fertility of soil, feasibility of proposed works and economic soundness of project for which district bonds are to be issued and to recommend modification of project if deemed proper;
- 2) To investigate, and if approved, report bonds issued by such districts to the State Controller for certification as being legal investments, for funds of banks, insurance companies and trust companies, trust funds and any funds for which the bonds of states, counties and other political subdivisions are legal investments;
- 3) To investigate and pass upon all expenditures from the proceeds of the sale of such district bonds;
- 4) To investigate and pass upon all contracts entered into by irrigation districts involving annual expenditures exceeding minimum amounts;
- 5) To investigate and pass upon all contracts for lease or sale of surplus water by irrigation districts;
- 6) To examine books and affairs of irrigation districts and maintain records of the physical and financial conditions of such districts;
- 7) To act for irrigation districts in negotiating with holders of bonds or warrants for the purpose of compromise of indebtedness when adjustment of same is deemed necessary;
- 8) To investigate and report upon proposed re-funding of bonded indebtedness of irrigation districts and pass upon the issuance of re-funding bonds;

- 9) To investigate the formation of bondholders' committees and, if approved, grant permits for issuance of certificates of deposit for bonds authorized by the commission for certification by the State Controller;
- 10) To investigate proposals to waive the Statute of Limitations with reference to the payment of matured bonds and warrants, bond and warrant interest and pass upon agreements extending the time of payment of such obligations; and
- 11) To pass upon the allocation of irrigation district revenues for amortization of specific issues of irrigation district bonds or the creation of reserve funds.

The Commission, composed as it is of the Attorney General, State Superintendent of Banks, State Engineer, and two district officials, is ideally constituted to pass intelligently upon the many matters that come before it - legal, economic, engineering feasibility and district management.

Close contact is kept with all districts. Frequent meetings are held with various district Boards, at which times problems of finance and operation are discussed, and advice believed to be generally helpful given.

Many matters handled by the Commission organization do not require formal action, but are nevertheless most essential. In this manner, many improper or ill-conceived proposals are disposed of without encroachment upon the time of the commission.

It can be stated that never before have the agricultural districts of the State enjoyed financial ratings so high as at the present. It is believed that this situation can in no small measure be traced to the efficient supervision exercised by the Commission.

STATISTICAL INFORMATION

Annual reports for the year 1942 were received from eighty-one irrigation districts and four water storage districts containing information which has been summarized in the tables following this section. The data cover such items as water supplies, crops, assessments, finances, and outstanding district bonds at the close of the period shown by the date in the table headings. To bring out any material changes that have taken place and compare conditions with those of previous years, the contents of each table are briefly discussed.

Source of Supply, Storage and Distribution of Water

Table I shows the sources of water supply, capacities of reservoirs, the storage on hand at the beginning and end of the season, the amount of water diverted by gravity, by district pumps, or pumped from district wells, the water delivered for irrigation, and the average use in acre-feet per acre. The number of district wells in operation or other pumping units reported is given together with the installed horsepower and average pumping lift.

Twenty storage reservoirs with a combined total capacity of about 1,093,000 acre-feet were in operation by irrigation districts. Stored water at the beginning of the season was 804,600 acre-feet and at the close 272,300 acre-feet. The total amount of water diverted by all districts, including that diverted from storage, was 8,392,700 acre-feet. Approximately 88 percent was diverted by gravity, 8 percent by

pumping from streams, and 4 percent by pumping from district wells.

The districts operated 662 wells for irrigation or drainage purposes and 204 pumping plants for lifting water from other sources. For all pumping operations an installation of 43,486 horsepower was reported, 96 percent of which was supplied by electric motors, and the remainder by gas and diesel engines.

Irrigation District Crop Reports

Table II gives the gross area, the assessed area, and the estimated irrigable area of each district. It shows the irrigated and dry-farmed acreage cropped in 1942, as well as the kind and acreage of various crops grown where this information was available.

The total gross area of 97 districts listed is 3,402,774 acres of which 2,822,730 acres are considered irrigable. There were 2,450,787 acres assessed for district purposes during the year 1942.

The total cultivated area in all districts reporting was 1,913,234 acres of which 1,807,286 acres were irrigated and 105,948 acres were dry farmed. Approximately 68% of the irrigable area was irrigated during 1942 in the 81 districts that supplied crop information. A summary of the kind and acreage of irrigated crops produced by these districts is given in the following tabulation:

Summary of Irrigated Crops
In Eighty-One Districts, for the Year 1942

<u>Kind of Crop</u>	<u>Acres</u>	<u>Percentage</u>
Alfalfa	304,380	16.8
Clover	115,605	6.4
Cotton	86,244	4.8
Rice	64,751	3.5
Grain and Grain Hay	141,966	7.8
Other Field Crops	231,629	12.8
Vegetables and Truck	92,706	5.1
Grapes	159,734	8.9
Deciduous Fruits	121,410	6.7
Nuts and Olives	8,439	0.5
Citrus and Avocados	38,850	2.2
Pasture Land	111,845	6.2
Not Segregated	329,727	18.3
Total	1,807,286	100.0

Assessments, Tax Sale Certificates, Tax Delinquent Lands

Table III sets up the total assessed valuations, the assessment rates, and the amounts of assessments levied in each of the active irrigation districts for the last two assessment years. Assessment payments are usually made in two installments, the first falling delinquent on the last Monday in December, and the second on the last Monday in June of the following year. For the assessment year 1941-1942, a total levy of \$4,666,041 was made by 75 of the districts reporting. The average delinquency in payment of assessments on the date of last tax sale was 7.8 percent for the group as a whole. The percentages of delinquent assess-

in individual districts ranged from less than one percent to a maximum of 29.5 percent. In only five districts did the delinquent assessments exceed the amount of 15 percent, which is usually anticipated, and for which provision is made in fixing the amount of levies under terms of the irrigation district laws.

The total value of tax sale certificates held by reporting districts at the end of the year 1942 amounted to \$671,110 while for the preceding year the figure was \$943,372. The trend during the past several years has shown a marked decrease in the amount of these holdings. Property is rapidly being redeemed by former owners or sold to new investors and restored to the assessment rolls.

The total combined area of tax-deeded land held by 45 districts at the close of the year was 174,127 acres. An additional 21,805 acres, that had been delinquent for three years or longer, was subject to tax-deed, but the districts had not yet taken title. Forty-eight districts reported receipts from land sales during 1942, in the total amount of \$681,630.

Annual Financial Reports--Revenues and Expenditures

Table IV is a summary of the annual financial reports of 79 districts that submitted statements for the year 1942 under provisions of Section 24,274 of the Water Code. District boards of directors are required on or before their March meeting to render and publish verified statements of financial condition, showing particularly receipts and disbursements for the preceding year. There is no prescribed

form for these statements, which differ considerably because of different methods of accounting used, and some difficulty was experienced in showing proper distribution of items in the limited number of column headings in the tabulation. The summary totals do, however, give a comparison of district financial transactions and indicate the large amount of annual business carried on by these organizations as a group.

Cash on hand at the beginning of the year is given for each district together with a segregation of receipts from various sources, the amount of disbursements, the purposes for which made, and the cash remaining on hand at the close of the year. Total receipts from all sources for the 79 districts listed were \$15,447,868, while total expenditures for the year amounted to \$15,119,333.

Bonds and Warrants

Table V gives the status of irrigation district bonds and warrants outstanding as of July 15, 1943. Seventy-two districts are listed with outstanding bonds and seven with registered interest-bearing warrants. Eight districts still show overdue and unpaid obligations in some amount as the result of default. In four of these districts plans are being worked out to liquidate the indebtedness, but all attempts to refinance the others have thus far failed.

Original bond issues that have been refunded and canceled have been dropped from the tabulation. In a few cases where reorganization plans are incomplete the old securities are

carried on the books as the district debt. In three districts the issuance of refunding bonds has been held up pending settlement of litigation with dissenting minority bondholders. The actual capital debt of such districts is represented by the amount of the R.F.C. loan that has been disbursed in taking up the old securities, plus the discount value of the old bonds that have not been deposited under the plan.

The seventy-two districts shown in the table had a total of \$64,027,863 in outstanding bonds at the close of the period. Refunding plans that have been under way for the past several years are rapidly being completed and those still pending are expected to be cleared up during the coming year.

Directory of California Irrigation Districts

Table VI contains a directory of one hundred irrigation districts and four water storage districts. The names of the president, secretary, attorney, manager or engineer are listed and the address of each district office is given. The county or counties in which a district is located are shown with estimates of the rural and urban population within each district.

TABLES OF STATISTICAL DATA

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TABLE I
 DATA RELATIVE TO SOURCE OF SUPPLY, STORAGE AND DISTRIBUTION OF WATER
 FOR CALIFORNIA IRRIGATION DISTRICTS
 January 1, 1943

Name of District	Source of Water Supply		District Pumping Units				Reservoirs		Water Diverted in Acre-feet in 1942				Water Reported Delivered in Acre-feet			Average Acre-feet per Acre Delivered
	Number	Kind of Power	Number	Av. Lift	Capacity in Acre-feet	Beginning of Season	End of Season	From Wells	By Other Pumps	By Gravity	Total Diverted	Irrigation	Domestic	Outside District Boundary	Water Lost or Spilled	
Alphugh	30	E	75		745			15,235		189,419	15,235	15,235		679	25,000	2.0
Alta	8	E	47		307			116,174		10,508	169,740	(e) 17,500		3,998	38,674	1.8
Anderson-Ottomewood	27	E	118		4,305			1,485		31,575	27,649	23,116		3,998	12,346	1.8
San Joaquin River and Wells Colorado River																4.4
Bloomont	12	E	117		720			3,195		566	3,711	(e) 3,000	570		1,568	1.7
Big Springs	2	E	75		385			3,810		2,759	6,569	(e) 5,000			2,500	2.5
Browns Valley	7	E	32		180			500		5,000	5,500	15,615			3,954	2.6
Butte Valley	11	E	25		1,167			13,387		5,000	13,387	2,700			2,800	2.6
Butte Creek, Antelope Creek & Wells Old River (San Joaquin River)																
Byron Bethany																
Camp Fly West	3	E	170		506		5,000	0		5,000	5,000	3,000				3.5
Carner	2	E	400		400		3,945	0		2,018	3,945	3,500			80	1.6
Carpenter																
Citrus Heights	14	E	74		694		2,200	2,157		(e) 3,500	16,854	16,854				5.5
Coalition-Delevan																
Consolidated																
Corcoran	14	E	74		694		2,200	2,157		300,000	300,000	171,600	6,200	122,200	18,852	2.0
Cornua										32,278	36,730	17,938	460			
Dear Creek										6,733	6,733	6,273				
Delano-Bartlett										(e) 8,000	(e) 8,000	(e) 8,000				
East Contra Costa	13	E	120	103	2,600		1,450	10,546	18,006		28,552	17,790	25	10,736	1.4	
El Camino	21	E	52		735		1,450	4,546		4,500	4,500	4,500		2,120	1.2	
El Dorado										13,870	13,870	9,350	2,000			2.0
El Nido																
Empire West Side																2.0
Essex	1	E														
Fair Oaks	14	E	33		125			(e) 2,000		(e) 8,000	(e) 10,000	(e) 10,000		500		
Ferry								12,000		482,700	482,700	482,700	30,000			2.6
Glenn-Colusa										266,578	269,238	207,953	81,283			3.3
Grenada										5,098	5,098	3,095		2,005		4.0
Hollister																
Hot Spring Valley																
Imperial																
Island No. 5																
Jacinto																
Jones	63	E	50	9	1,250			17,486	3,046		30,482	30,133	395			2.5
Kings River, San Joaquin River and Wells																
La Canada	2	E	900		369			288		7,000	7,000	7,522	15	81		2.0
Laguna																
Lakeland																
Lakeside	1	E	150		15			53			53		42			
La Jolla																
Linn (Inactive)																
Lincoln																
Lindora																
Lindsay-Strathmore	40	E	30	12	282								501		5,924	1.9
Littlelock Creek	2	E	165	1	95			995					105			2.9
Lucerne (Inactive)																
Madera																
Madera																
Maxwell																

(e) - Estimated diversion and use of water from best information available.

TABLE I
DATA RELATING TO SOURCE OF SUPPLY, STORAGE AND DISTRIBUTION OF WATER
FOR CALIFORNIA IRRIGATION DISTRICTS (Continued)
January 1, 1943

Name of District	Source of Water Supply			District Pumping Unit			Reservoir			Water Diverted in Acre-feet in 1942					Water Reported Delivered in Acre-feet				Average Acre-feet Delivered
	Number	Av. Lift	Other	Kind of Power	Inhabit. H.P.	Capacity in Acre-feet	Storage in Acre-feet	From Well	By Other Pump	By Gravity	Total Diverted	Irrigation	Domestic	Outside District Boundary	Water Lost or Spilled	Average Acre-feet Delivered			
Merced	97	42				281,000	232,880	32,600		441,300	503,900	277,800		3,700	222,400	3.2			
Merced	71	23			1,295	118,466	77,200	60,932		328,100	385,032	(e)1195,000			(e) 94,032	(e)12.8			
Merced						70,000	25,700			15,300	15,300	10,181		2,759	2,360				
Merced			2	16	75				5,396		5,396								
Merced			3	70	10	93,000		1,004		282,415	282,415	25,798	10,120	33,214		2.8			
Merced			4	48	545	56,250	0	10,127		198,798	222,796	(e)1155,977	175	66,664		3.6			
Merced						6,300	5,560			21,018	21,018	3,125	3,200	13,493		1.5			
Merced			1	116	60	3,140	2,100			330,140	330,140	330,140				1.2			
Merced						3,140	2,100			4,577	4,577	4,542		3,231		1.8			
Merced										6,543	6,543			1,601					
Merced			4	7					57,842	57,842	(e) 45,974			11,868		8.3			
Merced			4	7					15,000	15,000	71,000			6,000		9.1			
Merced			8	7					100,507	100,507	81,457			19,050		8.4			
Merced						3,200	3,200			2,210	2,210	1,732	304	114		1.0			
Merced			3	126			0		535	535	2,962	2,682	5	130		1.2			
Merced			5	80				460	1,342	1,342	460								
Merced			2	220															
Merced																			
Merced						6,250	5,442		75	2,551	2,626	2,107	75	385		1.6			
Merced						17,500	17,000			15,000	15,000	15,000				1.2			
Merced			3	75		87,500	87,500		698	235,922	235,922	160,500	698	75,422		3.0			
Merced								(e)4,000			4,000	4,000				2.0			
Merced			21	56		4,730	3,601				6,974	6,974	21			2.6			
Merced			27	400		3,870	1,739			6,938	6,938	6,938	4,347	12		2.3			
Merced																			
Merced			4	70				390		390	390	390							
Merced			10	85				4,639		9,948	18,079	18,079							
Merced			140	44		247,698	184,340	117,581		159,144	(e) 49,700	(e) 49,700				3.0			
Merced			12	230				2,004		522,705	640,286	444,522	38			2.8			
Merced																			
Merced			3	25				(e)1,400		8,776	(e) 8,776	8,218		558		1.1			
Merced										32,737	32,737	24,550		8,187		4.4			
Merced			5	25				2,100		14,200	16,300	9,878		88		1.3			
Merced										47,946	47,946	40,258		4,250		1.9			
Merced											No report								
Totals	662	120	204	75	49,486	1,093,373	804,646	374,909	594,489	7,423,360	8,392,698	4,773,552	23,545	911,616	2,159,189				
Water Storage Districts																			
Buena Vista W.S.D.			3	2	100	232,329	152,037		15,938	106,730	122,728	122,728		4,674		3.2			
Kern River (Buena Vista Lake)																			

(e) - Estimated diversion and use of water from best information available.

TABLE II
CALIFORNIA IRRIGATION DISTRICT CROP REPORTS FOR 1942
January 1, 1943

Name of District	District Areas in Acre						Kind and Acreage of Irrigated Crops								Summary of Acres Cropped			
	Grass	Amesland 1942	Irrigable	Alfalfa	Clover	Cotton	Rice	Grain and Grain Hay	Other Field Crops	Vegetables and Fruit	Grapes	Deciduous Fruit	Wine and Olives	Citrus and Avocado	Pachira	Not Segregated	Irrigated	Dry Farmed
Alamogordo	8,131	7,696	7,500	3,000	---	3,500	---	1,000	2,377	37,564	6,184	487	901	40,409	---	7,500	600	8,100
Anderson-Cottonwood	129,500	121,500	110,000	8,732	---	6,077	---	300	1,500	3,341	225	147	901	9,324	---	105,851	9,324	115,175
Arroyo	32,000	28,161	26,000	1,520	---	---	---	---	---	---	---	---	---	---	---	14,194	1,000	15,194
Banta	15,614	15,081	14,300	2,436	---	2,200	---	200	8,717	---	642	642	100	1,189	---	14,246	---	15,435
Bard	6,827	6,827	5,500	1,237	---	---	---	---	2,500	---	90	---	---	---	---	6,327	---	6,327
Baxter Creek	9,336	0	7,500	---	---	---	---	---	---	---	---	---	---	---	---	No report	---	---
Benning	2,490	2,490	2,500	---	---	---	---	---	---	---	---	---	---	---	---	1,899	---	1,899
Big Springs	3,560	3,560	3,500	893	---	---	---	243	---	---	---	---	---	---	---	2,295	950	3,245
Browns Valley	18,000	18,000	12,800	490	---	---	---	980	---	---	---	---	---	---	---	2,090	1,000	3,090
Britt Valley	17,202	14,000	14,000	2,248	---	---	---	---	---	23	820	100	---	---	---	5,128	4,668	9,796
Brookside	4,080	2,500	2,500	170	---	---	---	---	---	---	405	100	---	---	---	1,443	500	1,943
Camacho	3,116	2,500	2,500	---	---	---	---	---	---	---	---	---	---	---	---	No record	---	---
Carmichael	1,322	1,322	1,200	---	---	---	---	---	25	---	---	---	1,090	---	---	1,200	---	1,200
Carpenter	3,167	3,132	2,700	---	---	---	---	---	---	---	---	---	---	---	---	2,311	---	2,311
Citrus Heights	6,050	5,000	5,000	---	---	---	---	---	---	---	---	---	---	---	---	2,648	80	2,728
Compton-Delavan	181,500	148,405	130,000	11,000	---	14,000	---	2,648	---	77,000	6,000	---	---	---	---	120,000	---	120,000
Consolidated	181,500	148,405	130,000	11,000	---	14,000	---	2,648	---	77,000	6,000	---	---	---	---	120,000	---	120,000
Corcoran	5,842	45,772	45,772	---	---	---	---	360	35	---	---	---	---	---	---	23,549	---	23,549
Deer Creek	2,185	2,185	1,500	475	1,476	55	---	---	400	---	235	20	---	---	---	1,600	500	2,100
Delano-Edinburg	32,416	27,000	27,000	516	---	---	---	---	---	508	7,989	---	---	---	---	23,498	---	23,498
East Contra Costa	20,000	19,101	17,000	700	2,000	---	---	506	---	---	---	---	---	---	---	400	1,000	1,400
El Camino	7,546	2,495	6,900	---	---	---	---	---	---	---	---	---	---	---	---	3,640	---	3,640
El Dorado	30,772	30,288	19,300	---	---	---	---	---	---	---	4,830	---	---	---	---	170	1,200	1,370
El Nido	51,400	---	7,400	---	---	---	---	---	---	---	---	---	---	---	---	No report	---	---
Empire West Side	6,475	6,281	5,500	---	---	60	---	---	80	---	---	---	---	---	---	6,000	---	6,000
Exeter	12,260	10,000	10,000	---	---	---	---	---	---	---	---	---	---	---	---	8,900	---	8,900
Fair Oaks	4,000	3,747	3,500	---	---	---	---	---	---	---	---	---	---	---	---	2,529	---	2,529
Fresno	237,788	237,788	210,000	---	---	---	---	---	---	---	---	---	---	---	---	173,000	---	173,000
Glenn-Colusa	125,541	95,167	112,000	8,170	14,270	---	---	32,132	5,694	40	840	---	---	765	---	62,781	9,600	72,381
Grenada	1,776	1,340	1,200	772	---	---	---	---	---	---	---	---	---	---	---	772	350	1,122
Hollister	13,381	9,400	8,000	---	---	---	---	---	---	---	---	---	---	---	---	4,300	4,700	9,000
Hot Spring Valley	612,588	469,973	522,000	115,836	2,201	---	---	60,346	114,880	867	312	441	5,077	4,276	---	370,786	---	370,786
Imperial	4,680	---	4,000	---	---	---	---	---	---	---	---	---	---	---	---	2,500	---	2,500
Inland No. 3	12,268	11,999	11,000	802	3,350	---	---	---	---	---	---	---	---	790	---	6,318	---	6,318
Jackato	28,391	23,847	18,200	3,070	---	3,543	---	1,814	3,176	18	599	---	---	11,821	---	12,421	---	12,421
Jones	3,136	2,800	2,800	550	---	---	---	---	---	---	---	---	---	---	---	3,725	---	3,725
Kings River Delta	1,165	1,165	1,165	---	---	---	---	---	---	---	---	---	---	---	---	26,000	---	26,000
La Canada	34,747	34,645	30,000	---	---	---	---	---	---	---	---	---	---	---	---	No record	---	---
Laguna	23,283	---	20,000	---	---	---	---	---	---	---	---	---	---	---	---	No record	---	---
Lakeland	18,758	14,808	12,000	---	---	---	---	---	---	---	---	---	---	---	---	Domestic	---	---
La Mesa	53,100	---	45,000	---	---	---	---	---	---	---	---	---	---	---	---	No record	---	---
Lawrence	6,000	---	4,800	---	---	---	---	---	---	---	---	---	---	---	---	No report	---	---
Linden	26,815	10,557	23,000	728	180	2,110	---	---	334	3,303	737	2,325	7,084	---	---	17,031	2,674	19,705
Lindero	15,170	1,150	10,200	202	---	---	---	---	---	---	---	---	---	---	---	122	9,564	9,686
Littlerock Creek	2,518	---	2,000	---	---	---	---	114	---	---	---	---	---	---	---	1,060	65	1,125
Lucerne	173,000	---	160,000	10,421	4,400	33,655	---	---	7,373	---	20,633	---	---	4,500	---	83,327	28,798	112,025

TABLE V
SUMMARY OF STATISTICAL DATA RELATING TO BONDS AND WARRANTS OF CALIFORNIA IRRIGATION DISTRICTS
July 15, 1943

Totals for each district are underlined

Name of District	Number of Bond Issue	Date of Bonds	Range of Maturities	Bond Interest Rate	Face Value of Issue		Disposal of Bonds	Outstanding Bonds Due and Impaid		Registered Warrant Impaid		Other Outstanding Obligations	
					Original Bonds	Reframing Bonds		Principal Amount Sold	Total Bonds Outstanding 7-15-43	Principal	Interest	Principal	Interest
Alpaugh	1-Ref.	Jan. 1, 1939	Jan. 1, 1943-1968	4	\$ 54,000	\$ 54,000	\$ 27,000	\$ NONE	\$ NONE	\$ NONE	\$ NONE	\$ 6,492	\$ NONE
Alta	1-Ref.	Feb. 4, 1902	Jan. 1, 1923-1942	5	500,000	492,000	1,000	1,000	(a) 1,000	(a) 137	NONE	NONE	6,500
Anderson-Cottonwood	1-Ref. 4	Jul. 1, 1939 Mar. 1, 1941	Jan. 1, 1943-1972	4 4	339,000 339,000	364,000 339,000	251,500 24,500	NONE	NONE	NONE	NONE	2,645	3,272
Banta-Carbena	1-Ref.	Jul. 1, 1939	Jul. 1, 1942-1971	4	702,500	702,500	(b) 690,000	NONE	NONE	NONE	NONE	NONE	NONE
Baxter-Creek	1	Jul. 1, 1921	Jan. 1, 1926-1943	6	---	---	511,000	511,000	---	---	---	---	---
Bessmont	1-Ref.	Jul. 1, 1935	Jul. 1, 1939-1968	4	159,000	152,000	125,000	NONE	NONE	NONE	NONE	4,000	---
Big Springs	1-Ref.	Jul. 1, 1936	Jan. 1, 1940-1969	4	26,000	26,000	21,000	NONE	NONE	NONE	NONE	NONE	NONE
Britts Valley	1-Ref.	Apr. 1, 1940	Jan. 1, 1944-1973	4	37,000	31,500	26,000	NONE	NONE	NONE	NONE	NONE	NONE
Byron-Bethany	2-Ref.	Jan. 1, 1936	Jul. 1, 1944-1969	4	344,500	344,500	244,500	NONE	NONE	NONE	NONE	---	---
Camp Far West	1	Jul. 1, 1927	Jul. 1, 1937-1956	6	---	---	109,000	NONE	NONE	NONE	NONE	NONE	NONE
Carnichael	1-Ref. 3	Jul. 1, 1937 MAY 1, 1940	Jan. 1, 1941-1970	4 4	33,500 33,500	85,500 34,500	80,000 34,000	NONE	NONE	NONE	NONE	NONE	3,986
Carpenter	1	Jul. 1, 1929	Jul. 1, 1934-1953	6	---	---	138,000	NONE	NONE	NONE	NONE	NONE	NONE
Citrus Heights	1-Ref.	Jul. 1, 1937	Jan. 1, 1941-1970	4	86,000	86,000	68,000	NONE	NONE	NONE	NONE	1,366	2,228
Compton-Dalevan	2-Ref.	Jan. 1, 1942	Jan. 1, 1945-1974	4	76,800	76,800	(c) 76,800	NONE	NONE	NONE	NONE	6,042	NONE
Corcoran	1-Ref.	Jul. 1, 1936	Jul. 1, 1950-1969	4	261,000	261,000	245,500	NONE	NONE	NONE	NONE	NONE	NONE
Corcha	2-Ref.	Sep. 1, 1934	Jul. 1, 1938-1967	4	102,725	100,725	91,000	(d) 1,000	(d) 50	(d) 50	NONE	NONE	422
East Contra Costa	1 2-Ref.	Mar. 1, 1922 Jul. 1, 1938	Jan. 1, 1926-1917 Jul. 1, 1942-1971	6 34	1,134,000 1,134,000	1,301,000	1,107,000 1,092,000	NONE	NONE	NONE	NONE	NONE	NONE
El Cerrito	1-Ref. 1-Ref. 2-Ref. 3-Ref.	Nov. 1, 1936 Nov. 1, 1936 Nov. 1, 1936	Jan. 1, 1937-1956 Jan. 1, 1940-1952 Jan. 1, 1940-1956	6 6 6	450,000 275,000 127,000	423,000	423,000	27,000	214,800	---	---	---	1,880
El Dorado	1-Ref.	Jul. 1, 1935	Jul. 1, 1939-1968	4	360,500	266,000	204,000	NONE	NONE	NONE	NONE	NONE	NONE
El Nido	1	Jan. 1, 1931	Jan. 1, 1941-1970	(e) 44	---	---	109,000	---	---	---	---	---	---

(a) Bonds not presented for payment

(b) Banta-Carbena deposited \$64,000 with clerk of U. S. District Court to take up bond-out bonds of old issue when surrendered.

(c) Compton-Dalevan deposited \$13,640 with clerk of U. S. District Court to take up bond-out bonds of old issue when surrendered.

(d) Corcha has in addition one \$1,000 bond of the original issue that has not been presented for payment.

(e) El Nido by private agreement extended maturity dates of bonds and refunding warrants and reduced interest rate on bonds from 6% to 4 1/2% from July 1, 1939.

TABLE V
SUMMARY OF STATISTICAL DATA RELATING TO BONDS AND WARRANTS OF CALIFORNIA IRRIGATION DISTRICTS (Continued)
July 15, 1943

Totals for each district are unrounded

Name of District	Number of Bond Issues	Date of Issue	Range of Maturities	Bond Interest Rate	Face Value of Issue		Disposal of Bonds	Outstanding Bonds Due and Unpaid		Registered Warrants		Other Outstanding Collections		Current Accounts
					Original Bonds	Refunding Bonds		Principal	Interest	Principal	Interest	Non-Registered Warrants	Contracte or Notes	
Fair Oaks	1-Ref.	Sep. 1, 1937	Jan. 1, 1941-1970	4	\$ 63,000	\$ 61,500	\$ 56,000	NONE	NONE	NONE	NONE	NONE	NONE	4,804
Gilman-Colusa	2-Ref.	Jul. 1, 1940	Jul. 1, 1943-1968	3 1/4	425,000	425,000	425,000	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Hot Spring Valley	1-Ref.	Sep. 1, 1934	Jul. 1, 1938-1967	4	47,000	43,000	22,000	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Imperial	5 St. Rev. 3 St. Rev. 7 St. Rev. 2-Ref. A 2-Ref. B 2-Ref. C	Jul. 1, 1937 Jul. 1, 1937 Oct. 1, 1938 Jun. 21, 1943 Jun. 21, 1943 Jun. 21, 1943	Jan. 1, 1941-1965 Jan. 1, 1941-1965 Jan. 1, 1942-1968 Sinking Fund 1985 Sinking Fund 1985 Sinking Fund 1985	2 7/8 4 4 3 1/4 3 1/4 3 1/4	13,815,000 52,000 1,596,000 1,046,000 8,555,000 1,000,000 4,260,000	17,078,000 52,000 1,596,000 1,046,000 8,555,000 1,000,000 4,260,000	16,820,000 52,000 1,596,000 1,046,000 8,555,000 1,000,000 4,260,000	NONE	NONE	NONE	NONE	NONE	244,841	181,164
Jacinto	1-Ref.	Mar. 1, 1935	Jul. 1, 1939-1968	4	96,000	94,500	64,000	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Janes	1-Ref.	Sep. 1, 1937	Jul. 1, 1941-1970	4	256,500	200,000	180,000	NONE	NONE	NONE	NONE	NONE	NONE	NONE
La Canada	1	Jul. 1, 1925	Jul. 1, 1926-1960	5	328,000	328,000	296,000	NONE	NONE	NONE	NONE	NONE	NONE	2,221
Lakeview	1	Feb. 1, 1925	Jan. 1, 1946-1965	6	35,000	35,000	30,000	NONE	NONE	NONE	NONE	NONE	NONE	NONE
La Mesa, Lemon Grove & S. V.	1-Ref. 2 4	May 1, 1934 May 1, 1937-1964 Jul. 1, 1937	May 1, 1940-1972 May 1, 1937-1964 Jan. 1, 1942-1967	4 4 4	635,000 490,000 196,000	1,982,768 1,347,768 383,000	1,763,768 1,241,768 139,000	NONE	NONE	810	NONE	NONE	NONE	NONE
Lindsay-Strathmore	1-Ref.	Jul. 1, 1936	Jul. 1, 1945-1969	4	640,000	640,000	640,000	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Littlerock Creek	7-Ref.	Jul. 1, 1936	Jul. 1, 1939-1968	4	102,500	92,500	87,500	NONE	NONE	NONE	NONE	NONE	NONE	550
Maxwell	1	Sep. 1, 1918	Jan. 1, 1922-1941	6	260,000	260,000	234,000	234,000	---	---	---	---	---	---
Merced	2-Ref.	Jul. 1, 1918	Jul. 1, 1941-1975	4	7,000,000	7,000,000	6,806,000	NONE	NONE	NONE	NONE	NONE	13,417	NONE
Modesto	2 Fund 5-6 7-11 12 13 14 Sp. Rev.	Jan. 5, 1904 Jul. 1, 1914 Jul. 1, 1914 Jul. 1, 1920 Oct. 1, 1923 Jul. 1, 1924 Jul. 1, 1924 Dec. 1, 1934	Jan. 1, 1925-1944 Jul. 1, 1914 Jul. 1, 1914 Jul. 1, 1931-1950 Jul. 1, 1934-1953 Jan. 1, 1944-1953 Jul. 1, 1944-1953 Aug. 1, 1940-1952	5 6 6 5 5 4	3,754,000 322,000 616,000 2,000,000 125,000 500,000 171,000	3,754,000 322,000 616,000 2,000,000 125,000 500,000 171,000	2,259,000 16,500 451,400 1,065,000 86,000 496,000 122,000	(a) 16,000	(a) 2,707	133,240	NONE	NONE	NONE	7,298
Montague	1	Jan. 1, 1926	Jan. 1, 1947-1966	6	1,395,000	1,395,000	1,395,000	NONE	NONE	1,222,276	NONE	NONE	13,320	NONE
Nagles-Barik	2-Ref.	Jan. 1, 1941	Jan. 1, 1945-1974	4	67,500	63,000	63,000	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Nevada	1-Ref. 3-1 Div.	Sep. 15, 1931 Jun. 15, 1943	Sinking Fund 1981 Jan. 1, 1945-1972	3 3	8,100,000 8,100,000	9,170,000	7,763,000 6,693,000 1,070,000	NONE	NONE	NONE	NONE	NONE	21,622	NONE
Newport Heights	1-Ref.	Jan. 1, 1920 Jul. 1, 1935	Jan. 1, 1941-1960 Jul. 1, 1939-1968	6 4	160,000 160,000	160,000	82,200 71,000	NONE	NONE	NONE	NONE	NONE	NONE	NONE

(a) Bonds and coupons not presented for payment.

(r) Maxwell bonds are all held by a pool of landowners.

TABLE V
SUMMARY OF STATISTICAL DATA RELATING TO BONDS AND WARRANTS OF CALIFORNIA IRRIGATION DISTRICTS (Continued)
July 15, 1945

Totals for each district are underlined.

Name of District	Number of Bond Issues	Date of Bonds	Range of Maturities	Bond Interest Rate	Face Value of Issue		Disposal of Bonds		Outstanding Bonds Due and Unpaid		Registered Warrants Unpaid		Other Outstanding Obligations	
					Original Bonds	Refunding Bonds	Principal Amount Sold	Total Outstanding 7-15-45	Principal	Interest	Principal	Interest	Non-registered Warrants	Contracts or Notes
Newport News	1	Jan. 1, 1919	Jul. 1, 1940-1959	6	\$ 50,000	---	\$ 50,000	---	No report	---	---	---	---	---
Oakdale	3	Jul. 1, 1915	Jul. 1, 1936-1955	6	1,500,000	---	1,500,000	---	---	---	NONE	---	---	---
	1-Ref.	Jun. 21, 1926	Jan. 1, 1927-1965	5	400,000	---	400,000	---	---	---	NONE	---	---	---
	2-Ref.	Jul. 1, 1931	Jan. 1, 1935-1978	5	1,100,000	2,320,000	860,500	---	---	---	NONE	---	---	---
	3-Ref.	Jul. 1, 1938	Jan. 1, 1942-1970	4	1,110,000	1,110,000	1,021,000	---	---	---	NONE	---	---	---
Oroville-Wyandotte	1	Jan. 1, 1923	Jan. 1, 1944-1963	6	2,000,000	---	681,095,000	---	Refinancing	Pending	NONE	---	---	---
Palmdale	1-Ref.	Jul. 1, 1934	Jan. 1, 1947-1962	6	---	222,500	222,500	---	NONE	NONE	---	---	---	---
Palo Verde	1-Ref.	May 1, 1936	May 1, 1938-1957	6	2,595,330	---	3,553,330	---	---	---	---	---	---	---
Leaves District	1	Nov. 1, 1922	Nov. 1, 1923-1952	6	1,285,951	---	1,000	---	---	---	---	---	---	---
Irrigation District	1	Nov. 1, 1922	Nov. 1, 1923-1952	6	741,379	---	41,000	---	---	---	---	---	---	---
Irrigation District	2	Nov. 1, 1922	Nov. 1, 1923-1952	6	1,752,000	---	41,000	---	---	---	---	---	---	---
R.F.C.	3-Ref.	Jul. 1, 1934	Jul. 1, 1938-1967	4	213,000	1,039,423	916,500	---	---	---	---	---	---	---
Paraville	1	May 1, 1917	May 1, 1938-1957	6	548,000	---	548,000	---	Refunded	---	---	---	---	---
	2	Jul. 1, 1920	Jul. 1, 1925-1956	6	350,000	---	345,000	---	---	---	---	---	---	---
	3-1 Div.	Sep. 15, 1941	Jan. 1, 1945-1974	4	140,000	---	131,000	---	---	---	---	---	---	---
	1-Ref.	Oct. 1, 1934	Jan. 1, 1938-1967	4	58,000	252,500	41,000	---	R. F. C. Loan	---	---	---	---	---
Potter Valley	1	Jul. 1, 1928	Jul. 1, 1933-1952	5	100,000	---	97,000	---	NONE	NONE	NONE	NONE	NONE	702
Princeton-Codere-Glen	1	Jul. 1, 1918	Jul. 1, 1939-1958	6	175,000	---	175,000	---	NONE	NONE	NONE	NONE	NONE	500
Provident	1	Aug. 15, 1918	Aug. 15, 1920-1949	6	1,190,000	---	1,190,000	---	---	---	---	---	---	---
	2	Aug. 6, 1921	Jul. 1, 1922-1933	6	1,000,000	---	906,000	---	Refunded	---	---	---	---	---
	1-Ref.	Apr. 1, 1940	Jan. 1, 1944-1973	4	190,000	193,500	116,000	---	---	---	---	---	---	---
Ramona	1	Jul. 1, 1926	Jul. 1, 1947-1966	6	91,000	---	91,000	---	NONE	NONE	1,000	NONE	NONE	565
Richvale	1-Ref.	Jul. 1, 1937	Jul. 1, 1941-1970	4	250,000	388,000	636,000	---	NONE	NONE	NONE	NONE	NONE	NONE
	2	Jul. 1, 1937	Jul. 1, 1941-1970	4	90,000	---	82,000	---	---	---	---	---	---	---
	3	May 1, 1939	Jan. 1, 1943-1972	4	160,000	---	154,000	---	---	---	---	---	---	---
San Dieguito	1	Apr. 1, 1923	Jan. 1, 1931-1950	6	400,000	202,500	191,500	---	NONE	NONE	NONE	NONE	NONE	11,765
	1-Ref.	Jan. 1, 1935	Jan. 1, 1941-1973	4	---	202,500	191,500	---	---	---	---	---	---	---
	2-Ref.	Jul. 1, 1935	Jul. 1, 1940-1972	4	---	294,500	293,500	---	NONE	NONE	NONE	NONE	NONE	NONE
Santa Fe	1	Jan. 1, 1913	Jan. 1, 1934-1943	5	25,000	---	25,000	---	NONE	NONE	NONE	NONE	NONE	NONE
San Ysidro	1	Jan. 1, 1936	Jan. 1, 1937-1961	5	---	67,000	67,000	---	NONE	NONE	NONE	NONE	NONE	NONE
Scott Valley	1	Jan. 1, 1929	Jan. 1, 1934-1953	6	200,000	---	200,000	---	NONE	NONE	NONE	NONE	NONE	512
Serrano	1	Jul. 1, 1934	Jul. 1, 1938-1964	4	165,000	---	133,000	---	NONE	NONE	NONE	NONE	NONE	NONE

(g) Oroville-Wyandotte received a loan of \$402,500 to refinance outstanding bonds of 1,095,000. A total of \$355,830 has been disbursed by R.F.C. in purchase of old bonds. Refunding bonds have not been issued.

(h) Paraville refunding bonds will not be issued until pending suit over hold-out bonds is settled.

(i) Princeton-Codere-Glen holds in addition 18,500 of its bonds as an investment.

(j) Provident has refinanced old bonds through loan of 193,500 from R.F.C. but refunding bonds have not been turned over to R.F.C.

TABLE V
SUMMARY OF STATISTICAL DATA RELATING TO BONDS AND WARRANTS OF CALIFORNIA IRRIGATION DISTRICTS (Continued)
July 15, 1943

Totals for each district are underscored

Name of District	Number of Bond Issues	Date of Bonds	Range of Maturities	Bond Interest Rate	Face Value of Issue		Disposal of Bonds	Outstanding Bonds Due and Unpaid		Registered Warrants Unpaid		Other Outstanding Obligations		
					Original Bonds	Refunding Bonds		Principal Amount Sold	Total Bonds Outstanding 7-15-43	Principal	Interest	Principal	Interest	Non-Registered Warrants
South Montebello	1	Jun. 30, 1923	Jan. 1, 1926-1945	6	\$ 125,000	-----	\$ 125,000	NONE	NONE	NONE	NONE	NONE	\$ 2,902	
South San Joaquin	1	Jul. 1, 1910	Jul. 1, 1931-1940	5	5,985,000	-----	644,089,495	-----	-----	NONE	NONE	NONE	NONE	12,917
	2	Apr. 15, 1913	Apr. 15, 1934-1942	5	1,170,000	-----	167,500	Not Deposited	-----	NONE	NONE	180	NONE	
	3	Jul. 1, 1913	Jul. 1, 1934-1943	5	740,000	-----	95,500	"	-----	NONE	NONE	NONE	NONE	
	4	Jul. 1, 1919	Sep. 1, 1940-1943	5 1/2	500,000	-----	5,000	"	-----	NONE	NONE	NONE	NONE	
	5	Nov. 6, 1923	Jul. 1, 1944-1963	5 1/2	590,000	-----	38,000	"	-----	NONE	NONE	NONE	NONE	
	6	Jun. 21, 1925	Jan. 1, 1927-1965	5 1/2	1,100,000	-----	144,000	"	-----	NONE	NONE	NONE	NONE	
	1-Ref. let	Oct. 1, 1931	Jan. 1, 1935-1941	5	-----	3,741,250	-----	-----	-----	-----	-----	-----	-----	
	1-Ref. 2nd	Oct. 1, 1931	Jan. 1, 1935-1941	5 1/2	-----	1,050,000	-----	-----	-----	-----	-----	-----	-----	
	2-Ref.	Jul. 1, 1936	Jan. 1, 1940-1969	4	-----	3,378,000	Not Issued	-----	-----	-----	-----	-----	-----	
Stinson	1	Apr. 1, 1923	Jan. 1, 1931-1950	6	350,000	-----	350,000	184,600	184,554	26,828	26,381	NONE	NONE	
Table Mountain	1	Jul. 1, 1923	Jul. 1, 1942-1963	6	187,000	-----	187,000	NONE	54,865	NONE	NONE	NONE	NONE	
	2	Mar. 1, 1927	Jan. 1, 1948-1967	6	62,000	-----	-----	-----	-----	-----	-----	-----	-----	
Terra Bella	1-Ref.	Jul. 1, 1933	Stinking Fund 1979	4	-----	409,000	409,000	NONE	NONE	23,500	NONE	NONE	NONE	
Thermalito	1-Ref.	Jul. 1, 1938	Jul. 1, 1942-1968	4	-----	114,500	112,000	NONE	NONE	NONE	NONE	NONE	NONE	1,219
Tracy Clover	1-Ref.	Jan. 1, 1940	Jan. 1, 1943-1972	4	-----	20,000	20,000	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Tranquillity	1-Ref.	Nov. 1, 1937	Jan. 1, 1941-1970	4	-----	137,500	137,500	NONE	NONE	NONE	NONE	NONE	NONE	1,187
Trilo	1	Jul. 1, 1921	Jan. 1, 1926-1943	6	806,000	-----	806,000	806,000	-----	-----	-----	-----	-----	NONE
Turlock	4	Jul. 1, 1920	Jul. 1, 1926-1951	6	4,708,000	-----	4,708,000	-----	(a) 12,100	NONE	NONE	NONE	NONE	41,760
	2	Jul. 1, 1920	Jul. 1, 1926-1921	6	2,570,000	-----	2,042,000	-----	-----	-----	-----	-----	-----	2,200
	3	Jul. 1, 1920	Jul. 1, 1926-1920	6 1/2	1,028,000	-----	837,000	-----	-----	-----	-----	-----	-----	24,622
	8	Dec. 31, 1926	Jul. 1, 1928-1946	5	510,000	-----	444,000	-----	-----	-----	-----	-----	-----	NONE
	1-Ref.	Jan. 1, 1933	Stinking Fund 1968	5	-----	172,200	172,200	NONE	NONE	NONE	NONE	NONE	NONE	NONE
Vandavia	1	Jan. 1, 1925	Jan. 1, 1946-1965	6	1,700,000	-----	1,700,000	817,000	-----	NONE	NONE	NONE	NONE	NONE
Vista	1	Jan. 1, 1935	Jan. 1, 1944-1971	3 1/4	1,700,000	-----	780,000	780,000	-----	NONE	NONE	NONE	NONE	NONE
Watersford	1-Ref.	Jul. 1, 1940	Jul. 1, 1942-1971	4	-----	250,000	250,000	NONE	NONE	NONE	NONE	NONE	NONE	NONE
West Side	1-Ref.	Jan. 1, 1939	Jan. 1, 1942-1971	4	-----	266,500	266,500	NONE	NONE	NONE	NONE	2,027	NONE	NONE
												224	NONE	5,331

(a) Bonds and Coupons not presented for payment.
(k) Refunding bonds not yet issued. Composition plan still pending in Federal Court.

(1) Old bonds purchased from R. F. C. by bond company and turned over to District for Redemption of 760,000. There are 37,000 in holdout bonds over which writ is still pending.

TABLE V
SUMMARY OF STATISTICAL DATA RELATING TO BONDS AND WARRANTS OF CALIFORNIA IRRIGATION DISTRICTS (Continued)
July 15, 1943

Totals for each district are underlined

Name of District	Number of Bond Issue	Date of Bonds	Range of Maturities	Bond Interest Rate	Face Value of Issues		Disposal of Bonds	Outstanding Bonds Due and Unpaid		Registered Warrants Unpaid		Other Outstanding Obligations			
					Original Bonds	Refunding Bonds		Principal Amount Sold	Total Bonds Outstanding (7-15-43)	Principal	Interest	Principal	Interest	Non-Registered Warrants	Contracts or Notes
West Stanislaus	1	Jul. 1, 1927	Jul. 1, 1932-1937 Jul. 1, 1936-1964 Jul. 1, 1936-1983	-----	\$	1,237,376	-----	1,236,000	NONE	NONE	NONE	NONE	NONE	801	
	2-1 Div.	Jul. 1, 1935				1,216,376	-----	1,175,000	12,000	NONE	NONE	NONE	NONE	NONE	-----
	1-Ref.	Jul. 1, 1933				121,000	1,160,000	121,000	1,108,000	-----	-----	-----	-----	-----	-----
Williams (Glenn-Colusa)	1	Jan. 1, 1921	Jan. 1, 1923-1937 Jan. 1, 1924 Jan. 1, 1959-1961 Jan. 1, 1945-1961 Jan. 1, 1942-1959	-----	\$	726,000	-----	585,000	562,000	81,000	42,325	-----	NONE	5,598	
	2-Div.	Jan. 1, 1924				600,000	-----	453,000	51,000	-----	-----	-----	-----	-----	-----
	3	Jan. 1, 1924				115,000	-----	115,000	17,000	-----	-----	-----	-----	-----	-----
	2-Div. 2	Jan. 1, 1924				17,000	466,000	17,000	379,000	-----	-----	-----	-----	-----	-----
Woodbridge	1	Mar. 1, 1928	Jan. 1, 1930-1954	5 1/2	325,000	-----	325,000	195,000	NONE	NONE	NONE	NONE	-----		
Totals	-----	-----	-----	-----	39,723,206	37,846,493	74,882,823	64,027,863	1,933,700	2,895,198	1,011,193	26,381	117,965	436,644	342,857

WATER STORAGE DISTRICTS

Buena Vista W. S. D.	1	Jul. 1, 1929	Jul. 1, 1935-1968	6	942,731	-----	942,731	866,500	NONE	NONE	14,051	210	-----	1,649	5,042
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TABLE VI
 DIRECTORY OF CALIFORNIA IRRIGATION DISTRICTS
 January 1, 1943.

Name of District	County	Estimated Population		President	District Officials			District Office Address
		Inside Cities and Towns	Outside Cities and Towns		Secretary	Attorneys	Manager or Engineer	
Albany	Tulare	10,000	600	H. P. Laney	Winifred Sinks	Leroy McDonald	P. S. Calkins	Albany, California
Anderson-Cottonwood	Tulare, Fresno, Kings	1,400	17,000	Water Billingsale	E. Stofey	McFarland and Cross	S. Sibley	Albany, 289 North L Street
Banite-Carbena	San Joaquin	1,500	2,900	F. D. Reynar	Ellis E. Shanahan	L. C. Smith	Clyde Smith	Anderson, Shasta County
Bard (Part of Yuma Project)	Imperial	182	600	F. M. Wagner	H. B. Brown	Nathaniel Dietrich et al	J. B. Knight	Tracy, P. O. Box 28
Baxter Creek	Lassen	2,500	170	Alfred Lund	E. D. Stahl	R. W. Colegate	U. S. Murphy	Shawsville
Big Springs	Riverside	2,100	4,600	J. Drew Pink	Ray E. Swigart	Tabbe and Correlia	W. A. Holman	Shawsville, 157 E. 5th Street
Big Valley	Siakiyon	75	88	Lloyd Flisack	Ray C. Burris		Siber	Wentons, P. O. Box 247
Browna Valley	Yuba	100	75	Charles Laubart			Browna Valley	
Butte Valley	Siakiyon	200	300	Henry M. Andrus	M. A. Gilmer	Daniel L. Cariton	M. A. Gilmer	Marietta, Siakiyon County
Byron-Bethany	Contra Costa, San J., Ala.	300	400	Geo. K. Anderson	Mary Gonzalez	Ronald E. Harris	Donald N. Houston	Byron
Camp Far West	Placer, Yuba	140	700	T. A. Ferguson	G. R. Atkins	Frank F. Atkinson	Wheatland	Wheatland
Carminae	Sacramento	2,716	2,716	Edward M. Lynch	Roy W. Sullivan	Frank F. Atkinson	Lewis P. Williamson	Sacramento, Route 5, Box 6198
Carpenter	Orange	990	1,100	Edward M. Lynch	D. S. Shiley	Rutan and Tucker	Porter A. Price	Orange, Route 1, Box 152
Citrus Heights	Sacramento	2,600	2,600	John A. Gray	Mrs. Clori M. Spiers	Frank F. Atkinson	Rover E. Pryor	Fair Oaks, Route 1, Box 629
Compton-Delavan	Colusa	12,000	32,000	E. J. Seal	William H. Sheldon	Jerome Peters	I. H. Tallman	Chico, 144 Salem Street
Consolidated	Fresno	2,500	2,500	W. W. Hansen	Charles A. Miller	Paulo B. Harris	H. H. Holley	Shama, Box 209
Corcoran	Kings	55	55	J. W. Hansen	R. Ober	R. Ober	Corcoran	Corcoran
Coruba	Yuba	55	55	C. E. Ribbe	Jeanette Frank	Rich and Wells		Marysville, Memorial Auditorium
Dear Creek	Tehama	60	60	Roy Deamore	Jerome D. Peters	Jerome D. Peters		Chico, 304 Broadway
Delano-Darlington	Tulare, Kern	3,500	3,500	Paul Driver	George A. Omar	Stephen Downey	D. S. Lewis	Delano, Rt. 2, Box 458
East Contra Costa	Contra Costa	1,000	2,000	James A. Nail	Margaret Wedgwood	L. C. Smith	Roy Pyle	Brentwood, P. O. Box 275
El Camino	Tehama	600	600	C. Grootvald	Roy Pyle	Thomas Maul	W. E. Jenkinson	Farber
El Dorado	El Dorado	3,000	7,000	W. A. Rantz	W. E. Jenkinson			Placerville, P. O. Box 152
El Nido	Merced	15	410					El Nido
Empire West Side	Kings	3,500	60	Charles Hill	A. L. Cowell	A. L. Cowell	A. L. Cowell	Stratford, P. O. Box 145
Empire	Tulare	1,000	4,500	H. H. Chandler	Alida Wernke	H. Scott Jacobs	Irvin H. Athones	Sreter, 101 W. Pine Street
Fair Oaks	Sacramento	2,000	2,000	George E. Miller	Harry T. Brittan	Jas. K. Abercrombia	E. E. Pilton	Fair Oaks, Rt. 1, Box 135
Fresno	Fresno	102,000	102,000	Philip A. Gordon	Guy L. Cenden	L. B. Haymer	Amson J. Garner	Fresno, Heim Building
Glenn Colusa	Glenn Colusa	3,800	1,500	Nicholas Weber	M. R. Allard	J. J. Hankins	C. Inehit	Willows
Grannada	Siakiyon	3,000	125	Victor E. Leed	Thomas P. O'Donnell	Thomas P. O'Donnell	Clyde Kuckenkaker	Willows
Hollister	San Benito	450	6,800	S. B. Kelley	F. C. Bonner	F. C. Bonner	S. B. Kelley	Willows
Hot Spring Valley	Merced	35,000	450	Evan T. Newea	C. L. Dermody	Harry W. Norton	M. J. Dowd	Albany
Imperial	Imperial	35,000	70,000					El Centro
Island No. 3	Kings	150	150	Warren Reed	Nellis Kaiser		Roscoe Caldwell	Kingsburg
Jacinto	Glenn	400	400	W. W. Koshler	Roscoe Caldwell	H. C. Bell		Glenn
James	Fresno	850	850	G. R. Chaney	Frances L. Carlson	A. L. Cowell		San Joaquin, California
Kings River Delta	Kings	60	60	George A. Smith, Jr.	George E. Thywaks	George E. Thywaks		Stratford, P. O. Box 216
Los Angeles	Los Angeles	1,500	1,500	Dan W. Green	Mrs. Zelma Black	F. P. Doherty		La Canada, 4711 Canis Road
Luma	Fresno, Kings	2,500	2,500	Fred L. Davis	Yvna Adams Moseley	Sidney J. W. Sharp	A. J. Nielsen	Laton, Rt. 1, P. O. Box 197
Lakeland	Yuba	10	10	H. F. Libby	H. S. Rhrbit	H. F. Libby	H. F. Libby	Corcoran, P. O. Box 907
Lakeview	San Diego	500	500	Allen G. Mitchell	H. P. Schiller	H. P. Schiller	H. P. Schiller	Lakeview
La Mesa	San Diego	13,000	9,000	R. M. Levy	C. Harritt	W. H. Jennings	C. Harritt	La Mesa, 4769 Spring Street
Lemoore	Kings	1,700	2,300	W. S. Winger				Lemoore
Lindora	San Joaquin	200	600	C. C. Anderson	A. L. Cowell	A. L. Cowell		Stockton, 316 Belding Bldg.
Lindsay	Tulare	350	3,500	A. R. Wakefield	K. R. Cliford	Jas. R. McBride	Geo. W. Trauger	Lindsay, P. O. Box 625
Lindsay-Strathmoor	Tulare	40	1,500	John Barr	H. R. Rhoart	Chandler P. Ward		Littlerock
Littlerock Creek	Los Angeles	400	400	W. E. Martin	T. C. Curtis			Littlerock
Lucerne	Kings	2,500	2,500	W. L. Haag	S. E. Hallback			Hanford
Madera	Madera	9,218	15,127	J. A. Secara	Harry Barnes	Stephen W. Downay	Harry Barnes	Madera, 120 South D Street
Madera	Colusa	10	10	Chas. Welch	Ralph Rutledge			Colusa
Merced	Fresno	200	200	C. P. Puche	H. P. Surpent			Merced
Merced	Merced	13,000	12,000	D. K. Barnell	H. P. Surpent	Landram & Robinson	L. W. Resea	Merced
Merced	Stanislaus	25,000	15,000	Milton L. Kidd	L. E. Bither	Vernon F. Grant	N. M. Cecil	Yodesto, #23 - 11th Street

TABLE VI
 DIRECTORY OF CALIFORNIA IRRIGATION DISTRICTS (Continued)
 January 1, 1943

Name of District	County	Estimated Population			President	District Officials			Manager of Engineer	District Office Address
		Inside Cities and Towns	Outside Cities and Towns	Total		Secretary	Attorneys			
Bokshame River	San Joaquin	500	60	560	Paul C. Lock	F. M. Locke	Floyd Merrill	William Durbrow	Lockeford	
Montagne	Stakyon	150	90	240	Sidney O'Connor	Roy E. Swigart	George Wedemuth	-----	Montagne, P. O. Box 247	
Nagle-Birk	San Joaquin	25,000	150	25,150	Matthew Pirardo	George Wedemuth	C. F. Matieser	-----	Tracy, Roberts Building	
Nevada, Placer	Nevada, Placer	3,600	25,000	28,600	Thomas Malachuk	L. A. Davay	C. F. Matieser	-----	Gracy Valley, 144 S. Auburn Street	
Newport Heights	Orange	500	3,600	4,100	H. B. Bellott	H. B. Bellott	A. W. Ritan	-----	Costa Mesa, P. O. Box 81	
Newport Mesa	Orange	3,660	500	4,160	Dr. Osming Butler	D. J. Dodge	-----	-----	Costa Mesa, P. O. Box 305	
Oakdale	Stanislaus, San Joaquin	700	4,360	5,060	Fred W. Jenifer	G. W. Chrysler	-----	-----	Oakdale	
Oroville-Coye	Oroville, Yuba	1,500	700	2,200	W. T. Baldwin	G. C. Bonfield	-----	-----	Oroville, P. O. Box 308	
Oroville-Yandotte	Butte	700	1,500	2,200	Fred De Frem	Doris Carlson	-----	-----	Oroville, P. O. Box 308	
Palmdale	Los Angeles	3,500	300	3,800	Carl A. Denk	H. P. Schoeller	-----	-----	Palmdale	
Palo Verde	Riverside, Imperial	185	3,500	3,685	Wayne H. Fisher	Stewart, Shaw & Murphy	-----	-----	Rhytha, P. O. Box 38	
Paradise	Butte	250	5,000	5,250	F. J. Bowlee	Lillian Fletcher	-----	-----	Paradise	
Potter Valley	Merced	250	125	375	L. S. Clark	Charles Knack	-----	-----	Potter Valley	
Princeton-Codora-Glenn	Colusa, Glenn	750	250	1,000	George B. Bonasca	W. C. Poaca	-----	-----	Princeton	
Provident	Colusa, Glenn	50	50	100	Blanche Coyart	George R. Freeman	-----	-----	Willows, Masonic Bldg.	
Ranona	San Diego	1,200	1,200	2,400	Clara K. Graham	Lola V. Stevens	-----	-----	Ranona	
Riverdale	Butte	2,500	180	2,680	Sam Lofgren	Alvin L. Harry	-----	-----	Riverdale	
San Diego	Fresno	3,200	2,500	5,700	Tina Z. Chehman	Stoney J. W. Sharp	-----	-----	San Diego	
Santa Fe	San Diego	1,400	3,200	4,600	L. L. Backler	Herbert Nunn	-----	-----	Santa Fe	
San Ysidro	San Diego	2,000	2,000	4,000	L. Judd	L. Judd	-----	-----	San Ysidro	
Saucillo	Tulare	300	300	600	F. D. Murray	Minnie Laschenko	-----	-----	Terra Bella	
Scott Valley	Butte	20	500	520	C. F. Bryan	W. D. Mathew	-----	-----	Port Jones	
Serrano	Orange	700	700	1,400	Willard Smith	F. H. Collins	-----	-----	Orange, P. D. No. 1, Box 860	
Shafter-Wasco	Kern	5,000	8,000	13,000	R. W. Pixley	Fred Pritschke	-----	-----	Shafter, Box 127	
South Fork	Modoc	2,200	75	2,275	D. E. Van Loan	C. S. Bladwin	-----	-----	Alhuras, Box 205	
South Montebello	Los Angeles	4,000	11,000	15,000	Fred Spron	Mabel K. Wallette	-----	-----	Montebello, 854 West Washington Blvd.	
Stinson	San Joaquin	10	85	95	W. J. Henry	S. L. Speis	-----	-----	Maneca	
Stratford	Kings	200	500	700	Wm. H. Noble	C. DeLashmitt	-----	-----	Burrell, Fresno County	
Table Mountain	Butte	300	10	310	John Iverson	Thelma S. Jones	-----	-----	Stratford	
Terra Bella	Butte	1,300	300	1,600	John A. Rowe	C. J. Herale	-----	-----	Oroville, P. O. Box 794	
Tracy-Clover	San Joaquin	500	300	800	G. B. Ryan	E. R. Robinson	-----	-----	Terra Bella	
Tranquillity	Fresno	350	400	750	F. E. Miller	George Wedemuth	-----	-----	Oroville, Route 3	
Tulare	Tulare	10,000	5,000	15,000	E. A. Hesselbine	Iva Johnson	-----	-----	Tracy, Roberts Building	
Tule	Lesser	100	100	200	F. C. Farrell	George A. Moran	-----	-----	Tranquillity	
Thurlock	Stanislaus, Merced	10,000	20,000	30,000	E. O. McCombe	George A. Moran	-----	-----	Tulare, Room 6, Beebe Building	
Vandala	Tulare	400	4,500	4,900	Walter D. Sney	Thomas C. Boone	-----	-----	Sussexville	
Vieta	San Diego	400	4,500	4,900	J. W. Rose	J. F. McCoy	-----	-----	Thurlock, 117 West Main Street	
Walnut	Los Angeles	300	300	600	Fred C. Collins	Chas. H. Mull	-----	-----	Porterville, P. O. Box 1026	
Waterford	Stanislaus	400	1,400	1,800	S. Whitney	Haywood Arlie	-----	-----	Vieta	
West Side	San Joaquin	835	1,200	2,035	F. O. Hillen	Hankins and Hankins	-----	-----	Rivers	
West Stanislaus	Stanislaus, Merced	400	1,000	1,400	W. W. Cox	George Wedemuth	-----	-----	Waterford, P. O. Box 187	
Woodbridge	San Joaquin	500	500	1,000	Elmer J. Shinn	Vernon F. Grant	-----	-----	Tracy, P. O. Box 177	
Totals		181,681	385,979	567,660		A. L. Cowell	-----	-----	Woodbridge, Lodi, Rt. 2, Box 67	

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Arvin-Bishop	Kern	1,500	12,000	13,500	Forrest Frick	T. N. Harvey	Paul Bailey	Bakersfield, 359 Haberfelds Bldg.
Brona Vieta	Kern	600	3,000	3,600	J. R. Bright	F. L. Humphrey	Geo. K. Parker	Bishop Willow, Box 2
North Kern	Kern	-----	-----	-----	Hugh S. Allan	G. L. Henderson	C. L. Henderson	Bakersfield, 1712 - 19th Street
Tulare Lake Basin	Kings	-----	-----	-----	Harry Lee Martin	Dan Haddell	Roy L. Way	Hanford, 109 West 8th Street

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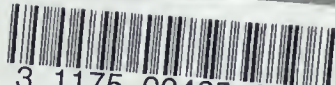
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