CENTRAL VALLEY PROJECT

Report Area DL-9

Delta Lowlands Service Area Investigations Stockton to Middle River and Vicinity

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WATER RIGHTS ENGINEERING BRANCH ENISION OF PROJECT DEVELOPMENT BURRAU OF FECLAMATION FECION 2, SACRAMENTO, CALIFORNIA

CENTRAL VALLEY PROJECT CALIFORNIA

Delta Lowlands Service Area Investigations

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Water Rights Engineering Branch Division of Project Development Bureau of Reclamation Region 2, Sacramento, California

January 1964

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DELTA LOWIANDS SERVICE AREA INVESTIGATIONS REPORT AREA DL-9

INTRODUCTION

<u>Purpose and scope</u>. - The purpose of this report is to assemble and summarize factual data on the historic use of water for irrigation within a place of use designated "DL-9, Delta Lowlands." This information, in conjunction with similar data covering the Sacramento River, Delta Uplands and other Delta Lowlands water users, will provide an inventory of factual data for use in determining the quantity of water individuals or organizations will require for the irrigation of their lands, and the benefits that accrue due to operation of the Central Valley Project.

The Delta Lowlands are depicted in the "Report on 1956 Cooperative Study Program," Volume I, Plate 3. As in previous investigations conducted jointly by the Bureau and the State, the Lowlands consist generally of land lying below an elevation of five feet above mean sea level and for the most part have been historically served by unmeasured diversions of water from Delta channels. Some of the unmeasured diversions from points on or in the vicinity of the main channels of the Sacramento and San Joaquin Rivers are made by low-lift pumping plants. Some pumping diversions are also made in peripheral areas of the Lowlands. However, no feasible method has been developed for accurately measuring net flows in tidal channels, and the combination of hydraulic and economic problems involved in determining the quantities of water diverted through the very large number of tide gates and siphons precluded measurements of the bulk of the water used in the irrigation of the Delta Lowlands. Therefore, water used within the area has historically been estimated by the consumptive-use method utilizing available crop data and results of special studies in selected areas. In the consumptive-use method, it is assumed that all cropped lands lying below an elevation of five feet were deriving some irrigation supply from subsurface water.

For report purposes, the Delta Lowlands has been divided into ten component parts. The location of area "DL-9" with respect to the other nine parts is shown on Plate 1, entitled "Report Areas," and the detailed boundary for the area is shown on Plate 3, entitled "Application, Permit, and License Data and Land Ownership."

The Delta Lowlands in the 1956 Cooperative Study Program were assumed to have riparian status. Subsequently, in contract negotiations with Sacramento River and Delta Uplands water users, the validity of this assumption has been questioned. Although various types of field data are available from scattered sources, some of it has never been published in a form convenient for ready reference. This material, supplemented by data collected in 1963, is covered here under land ownership, water rights, water supply for irrigation, irrigation and drainage facilities, and land use and water requirements. It is not the purpose of this report to substantiate or repudiate the

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riparian assumption, but rather to present information that will aid in analyzing the various problems and help in understanding the physical characteristics involved.

Description of the report area. - The report area is a part of the southeastern Delta. Except for a relatively small portion located adjacent to Stockton, the area lies west of the San Joaquin River; part of the river is also a reach of the Stockton Deep Water Channel. In addition to the San Joaquin River and Ship Channel, the major portion of the report area is also bounded by Middle River, Old River, Turner Cut and Whisky Slough. A levee forms the boundary for the northwest portion of Middle Division Roberts Island. The geographical entities covered in the report area are:

> Reclamation District 403, inactive (Rough and Ready Island) Reclamation District 404 (Boggs Tract)

Reclamation District 524 (Middle Division Roberts Island and The Pocket)

Reclamation District 544 (Upper Division Roberts Island) Reclamation District 684 (Lower Division Roberts Island) Honker Lake Tract

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The entire report area lies within San Joaquin County, and is located within projected Townships 1 South, 1 and 2 North, Range 5 East and Townships 1 South and 1 North, Range 6 East, Mount Diablo Base and Meridian.

The report area is entirely overlapped by the Sacramento and San Joaquin Drainage District which was organized in 1911 for the purpose of reclamation and drainage of primarily swamp and overflow lands along the Sacramento and San Joaquin River systems from Chico Creek on the north to Fresno Slough on the south.

Development of the report area. - The lands in the report area, with the exception of a strip located in the southern part adjacent to Old River, became privately owned primarily through the purchase of swamp and overflowed lands from the State during the period 1855-1872; a strip of land bordered by Old River on the south and San Joaquin River on the east was acquired prior to 1850 as a part of the Mexican Land Grant, El Pescadero. The lands in the report area have all been reclaimed and holdings range in size from small farms of a few acres to large holdings of several hundred acres.

Description and development of Reclamation District 403, inactive (Rough and Ready Island). - Rough and Ready Island is surrounded by the Stockton Deep Water Channel and Burns Cutoff, and is located opposite of the western boundary of the city of Stockton. Elevations within Rough and Ready Island range from ten feet above mean sea level near the ship channel to about sea level near the central and remaining western portion of the island. A portion of Rough and Ready Island was first cultivated in 1850. In 1853,

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reclamation of this area was begun by raising the elevation by borrow and fill methods. By 1872, about 23 acres had been reclaimed and the island had also been enclosed by a levee. A year later, the area was organized into Reclamation District 163. The district's levees were topped by flood water in 1875. Three years later the reclamation of the island was improved when drainage ditches were dug and a steam-operated pump was installed to remove excess water. In 1881, the area was reorganized into Reclamation District 403. After being flooded in 1892, levee repairs were made and the island was farmed until 1942, when it was acquired by the U. S. Navy. The area has subsequently been used as a naval installation.

Description and development of Reclamation District 404 (Boggs Tract). - Boggs Tract lies adjacent to the southern part of the city of Stockton and is located on the east side of San Joaquin River and north of French Camp Slough. Elevations within Boggs Tract are generally about five feet above mean sea level. The northern part of the tract has been subdivided. Early reclamation efforts consisted of low-levee construction along the San Joaquin River. The levees extended easterly to higher lands. The area was organized into Reclamation District 404 on August 9, 1881.

(Middle Division Roberts Island, and The Pocket); Reclamation

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District 544 (Upper Division Roberts Island); Reclamation District 684 (Lower Division Roberts Island); and Honker Lake Tract. -Reclamation Districts 524, 544, and 684, and Honker Lake Tract are component parts of Roberts Island. This island lies near the city of Stockton and is surrounded almost entirely by a waterway consisting of Turner Cut, San Joaquin, Middle and Old Rivers, and Whisky Slough. Reclamation of Roberts Island was begun by individual settlers in 1856. In 1870 Reclamation District 109 and 110 were formed and the Tule Land Reclamation Company began extensive work in the area. In 1871, action of the San Joaquin County Supervisors provided for the division of the island into smaller reclamation districts and reclaiming activities were delayed. Between 1874 and 1876, Reclamation Districts 209 and 223 were formed and the area was enclosed by levees; cross levees were also constructed

On October 30, 1889, Middle Division Roberts Island was formed into Reclamation District 524 through consolidation of Districts 110, 209 and 302; parts of Reclamation District 109 and 223 were also included. The Pocket area is included in Reclamation District 524. Middle Division was flooded in 1886. Within this portion of Roberts Island, elevations range from five feet above mean sea level near the eastern levee to mean sea level in the remaining three-fourths of the area which includes The Pocket. Middle Division Roberts Island is separated from Lower and Upper Divisions by levees.

Reclamation of Upper Division Roberts Island was completed

in 1876, and the area was reorganized into Reclamation District 544 on August 4, 1892. Elevations within the Upper Division range from ten feet above mean sea level near the east levee and near Old River on the south to five feet in the central and remaining western portion. Upper Division is separated from Middle Division Roberts Island by a levee. Flooding occurred in the Upper Division in 1879.

In 1877 and 1878 a large portion of Roberts Island was acquired by the Glasgow-California Land Company. This company dammed off ten sloughs from the surrounding channels, constructed about 32 miles of new levee, and increased the height of existing levees. Most of these works were constructed in the section now identified as Lower Division Roberts Island. Lower Division Roberts Island was reorganized into Reclamation District 684 on October 4, 1877, and included the predecessor Reclamation District 659 and parts of inactive Reclamation Districts 109 and 223. Lower Division was flooded in 1886, 1906 and 1907. Elevations within the northwest part of Lower Division Roberts Island are about ten feet below mean sea level and the remainder of the area lies about five feet below sea level.

Honker Lake Tract, a part of Roberts Island, was reclaimed after 1875. Definite dates of reclamation and levee enlargement are not available but State Bulletin 27 indicates that Honker Lake

Tract was reclaimed at the same time as Middle Division Roberts Island. Elevations within Honker Lake Tract are at about mean sea level.

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WATER RIGHTS AND LAND OWNERSHIP

<u>General</u>. - Information pertaining to water rights within the report area was collected and developed primarily in connection with riparian and appropriative rights.

Assumed riparian rights. - The Delta Lowlands in the 1956 Cooperative Study Program were assumed to be riparian to channels of the Delta. The cooperating groups felt that such an assumption, from an engineering standpoint, was desirable as well as reasonable and that differences arising from such an assumption could very possibly be resolved by negotiation or compromise.

Appropriative rights. - Data pertaining to applications, permits, and licenses obtained in conformance with the California Water Code for lands within the report area were obtained from the files of the California State Water Rights Board. This information is presented in tabular form on Plate 3, entitled "Application, Permit, and License Data and Land Ownership." Plate 3 also shows the areas covered by each appropriative right.

Land ownership. - The land ownerships shown on Plate 3 were taken from the 1963 assessor's plats of San Joaquin County. The assessor's records were utilized to obtain names of owners, acreages of holdings, and plats showing boundaries of the holdings. Boundaries for Reclamation Districts were determined from State, county, and district maps. Tabulated names and acreages for the ownerships within the report area are included in supporting data for this report.

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Salinity control. - In addition to irrigation diversions from the Delta channels, another recognized demand includes substantial requirements of outflow from the Delta as a whole in order to provide quality control necessary to prevent degradation of Delta supplies due to sea water incursion. The flushing action of an artifically maintained Delta outflow also prevents excessive concentrations of dissolved solids arising from surface evapotranspiration, drainage flows and high midsummer evaporation from the many thousands of acres of water surface in the Delta channels.

Prior to the initiation of controlled summer flows through the Delta by the Central Valley Project in 1944, intrusions of sea water into the Delta channels were a constant threat. Damaging intrusions occurred to varying degrees in many years of below normal streamflow, with the intrusions of 1924 and 1931 assuming dramatic proportions. A chloride concentration of 1,000 parts per million of water is commonly used as a criterion beyond which usefulness for irrigation is limited. Since Shasta Dam began operating in 1944, the maximum annual salinity encroachment into the Delta area has reached no further upstream than a point near the eastern tip of Sherman Island. The extent of intrusion prior to and after Shasta operation is represented by curved lines on Plate 2, entitled "Maximum Annual Salinity Encroachment." The extent of maximum intrusion varies from year to year, but most of the post Shasta encroachment lines pass through the vicinity of the central portion of Sherman Island. 10

WATER SUPPLY FOR IRRIGATION

Sources of irrigation supply. - The irrigation water supply for the report area is diverted from various channels of the Delta, including the San Joaquin River, and drains. The exterior or main Delta channels are subject to tidal action and fluctuations. Flow of the drains is sustained by percolation from Delta channels and by surface and subsurface drainage of immediately adjacent irrigated lands.

Areas susceptible of irrigation. - Except for levees, berm, water courses and associated aquatic and phreatophytic growth, the lands in most of the reclamation districts and tracts comprising the report area are all susceptible of irrigation. Reclamation District 403, Rough and Ready Island, however, is considered only partially susceptible of irrigation because it is a Naval Reservation. Acreages devoted to various crops and the non-agricultural areas are discussed in the chapter covering land use and water requirements.

IRRIGATION AND DRAINAGE FACILITIES

<u>General.</u> - During 1952, a field survey was conducted throughout the Delta to provide information on existing irrigation and drainage facilities. The locations of the main canals, gravity diversions, irrigation pumping plants, irrigation wells, and drainage systems were delineated in the field on aerial photographs. In 1963, this information was spotchecked and supplemented where major changes were found to have occurred. The field information thus collected is depicted on Plate 4, entitled "Irrigation and Drainage Facilities."

In general, the irrigation of the lower-positioned lands in the Delta was not successful until drainage systems were developed with the capability of controlling water levels at elevations desirable for plant growth. In the report area, drainage facilities are usually provided by the reclamation districts. In unorganized areas, the drainage facilities are individually-owned and operated. Within each district or tract, each system of collection drains terminates at a pumping plant which discharges into an adjacent channel.

Irrigation and drainage facilities. - Lands within Reclamation District 403 (Rough and Ready Island) have not been used extensively for agricultural purposes since 1942 when the area was acquired by the U. S. Navy and utilized for a naval supply annex. Prior to 1942, irrigation diversions were made by siphoning from the San Joaquan River and Burns Cutoff. Since 1942, diversions have been made mainly for fire control.

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The northern part of Reclamation District 404 (Boggs Tract) has been subdivided and industrialized. Municipal and industrial water for this part of Boggs Tract is supplied by wells. The remainder of the area is devoted to agriculture and is irrigated by pumping from the San Joaquin River and French Camp Slough. Drainage is provided by facilities of individual water users since Reclamation District 404 acts only in the capacity of providing levee protection.

Sources of irrigation water for lands within Reclamation District 524 (Middle Division Roberts Island) are Middle and San Joaquin Rivers and Burns Cutoff. Low-lift pumps are used to divert water since most of the area is above mean sea level. Diversions are made by individuals and one incorporated mutual water company. Woods Irrigation Company, Incorporated, has since 1909 served the central part of Middle Division from three pumping plants on Middle River. In 1962, according to State Bulletin 114, entitled "Directory of Water Service Agencies in California," Woods Irrigation Company served 7,892 acres. In the area it irrigates, the company also operates and maintains the drainage facilities, consisting of ditches and pumping plants. In the remainder of the area, since the district provides only levee protection, drainage is provided by individually-owned facilities. The Pocket area, a part of Reclamation District 524, is irrigated

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by pumping from Middle River, and the collected drainage water is discharged into Middle River by three pumping plants.

Lands within Reclamation District 544 (Upper Division Roberts Island) are supplied irrigation water from the San Joaquin, Old, and Middle Rivers. Since the elevation of most of the land in this district lies at about five feet above mean sea level, diversions are made by low-lift pumping plants. Many of the systems include underground pipelines to convey the water to the fields. Several systems utilize pumps to lift water to higher-positioned lands in the central part of the district. The irrigation systems in the area are privately owned and operated. Since the district provides only levee protection, drainage is usually provided by individually-owned and operated facilities.

The area within Reclamation District 684 (Lower Division Roberts Island) receives irrigation water from Whisky Slough, Turner Cut, Burns Cutoff, and the San Joaquin River. Most diversions are made through individually-owned and operated gravity diversion facilities. Drainage water is discharged into Whisky Slough and the San Joaquin River from district-operated facilities.

On Honker Lake Tract, water is diverted by gravity from Trapper Slough and by pumping from Middle River. The southern portion of the tract is served by a system connected to a pumping plant on Middle River. This system skirts the levee around the Pocket area and extends through the Honker Lake Tract levee to serve that 14

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area. Relift pumps are part of both the gravity and pumping irrigation systems. All facilities including drainage facilities are privately owned. Drainage water is discharged into Trapper Slough by two pumping plants.

Operational practices. - Water for irrigation is usually pumped from adjacent channels into a network of supply ditches or is pumped or siphoned directly onto the separate fields. For higher positioned lands, relift pumps are utilized. In some areas, underground concrete pipe systems are used for water distribution.

Alfalfa and pasture crops are usually irrigated by flooding. The water is applied to the head end of bordered checks by siphon tubes from ditches or from the outlets of underground pipes. Row crops are usually irrigated by flooding the furrows from ditches. Water applied in excess to that needed for crop requirements and water which seeps into the area from upward percolation from adjacent channels is collected in drain ditches and returned to the surrounding channels by drainage pumping plants.

Operation of the irrigation facilities usually begins during April, or occasionally during March, and terminates about the end of September or early in October.

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LAND USE AND WATER REQUIREMENTS

<u>General</u>. - In the Delta Lowlands, historical records of irrigation development are limited to crop and land-use information for entities such as islands, tracts or districts obtained from field surveys conducted during certain years. Tables 1 through 7 list the crops raised for the years 1924 through 1932, 1938, 1948, 1950, 1952, and 1955. Except for the year 1952 when the Bureau of Reclamation compiled crop data on the Lowlands, the crop records are those presented in Bulletin 23, State Water Supervision Reports (after 1955, Bulletin 23, Surface Water Flow Reports). The most recent crop survey for the report area available from the State was made in 1958. Crop information from that survey, converted to the Bureau of Reclamation system of notation, is presented on Plate 5 entitled "Crops Survey - 1958."

Land use. - In connection with the 1952 crop survey, the Bureau compiled acreage totals for all agricultural areas planted to irrigated or non-irrigated crops, and non-agricultural areas within the Delta, including water-surface areas. The water-surface areas considered include those located within the various districts and those affected by tidal action; those affected by tidal action extend from the Delta Lowlands into the Uplands. Information from the 1952 Survey, modified by the State for changing conditions, is given in the 1955 Water Supervision Report. As tabulated in the report, the Delta Lowlands comprised 425,427 acres divided as to use as follows: agricultural 385,743; urban 6,914; tule and swamp 4,239; levee and berm 16,889; and interior water surface 11,642.

In addition to the 425,427 acres, there are 35,663 acres of exterior water surface of which 34,306 acres are in the Lowlands and 1,357 in the Upland area. The agricultural land of the Lowlands varies in composition from peat soils in the central part to mineral soils in the peripheral areas. The extent of peat soils is delineated on Plate 6.

Water requirements. - The land use data, with revisions for changing conditions, have been used subsequently by the State Department of Water Resources in making estimates of the consumptive use in the Delta Lowlands. These estimates are made by applying an appropriate consumptive-use factor to the acreage determined to be utilized by each crop or other water-consuming area with modification made to the values obtained to reflect the effect of utilizable rainfall. Unit consumptive-use factors for pasture, various crops, native vegetation and other classifications are given in Table 8. These values were determined by special studies and experimentation by the State supplemented by data furnished by the Bureau of Reclamation. In this connection, the contributions of the various agencies and individuals are discussed in detail in State Bulletin 23 for the year 1955. Much of the data was used in the determination of the estimated modified monthly consumptive-use requirements in acre-feet during the irrigation season in the Delta Lowlands as given in the "Assumptions as to Water Rights" volume of the 1956 Cooperative Study Program. The total of the modified monthly consumptive-use values is 1,059,600

acre-feet distributed as follows: April 55,200, May 111,200, June 145,200, July 225,300, August 240,800, September 178,900, and October 103,000.

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							YEAR							
Item	19241	1925	1926	1927	1928	1929	1930	1931	1932	1938 [1998(:)		1950ff)[1952[a](f)	1975
Irrigated oren	200	250	140	250	. 300	160 <u>A</u>	lei	125	135	362				
Reans			160	100	70	140.	10							
Beets (Sugar)														
Colery		300			25									
Corn and milo	300			250	. 250	20	310	210	700	225				
Fruit and muts	200	30					75	75	75					
grain and hay	500	500			92	270	300	402	250	545				
Ontens														
Pasture.					140	60		25						
Peas														
Potatoes	100				70	90		175						
117 0 0 117 0 0														
Bafflever														
1. 2008 1														
Truck Grops, miss.		10		60	L 135	175	10			85				
Potal 1rrigated	1300	1090	300	660	982	915	815	1012(c)	1160(e)	1217				
						•				_				
The fir weeds verterion							292	314	121					
Ballow and bare							20		45	6				
Aquatic growth and							`							
interior water surface							: 26	24	_					
Total (water consuming)							1153	1350 (c)	1350(e)	1250				
Non-1rrigated area	of WC Long Time						00			Ľ				
Grain and hay (b)								315	315	260				
Fasture, pare of laie (b)								/=/	(-,	4				1388
liaua ang ang aroan Laree							49	82	82	82				79
Total acreage	1560	1560	1700	1700	1700	1700	1702	1647 (d) 1647	1647	1647				1467
(a) Records are from State Bulletin 23 except for	e Bullet	in 23 ert	sept for	U.S.B.R.	U.S.B.R. data in 1952.	1 1952.	ت ا	(c) Incl	udes 100	acres c	orn doub	le crop	Includes 100 acres corn double cropped after grain	grain.
		•					•							

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From 1931-1950 of the leves acreage for the entire lowlands, $\psi \downarrow 0$ acres of villows and $\psi 600$ acres of weeds were estimated to be water consuming. Ho breakdown by entity is available.

Includes 100 acres corn as second crop after grain. U. S. Navy annex. (q) (f)

Area revised.

Lands lying above elevation 5 feet (U.S.G.S.) datum.

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						TRUTETOAL	uo	L1C1 +0+	Boggs Tract	Tract)				
Item	1207		1		0.00									
Tand and a man	267	4753	7750	1727	1920	1929	1970	1931	1932	1938	128	1250	1222 (0)	1255
Alfalfa	560	1200	375	370	. 1100			025	Алб	c 80	202	206	Ľ	
Asparagus				, ,			2027	25	60	200	20	542	290 002	102
Beans .	20	50			15			80	10	20			, , ,	83
Beets (Sugar)														ķ
Celery														-
Gorn and milo	250	50			· 20	100		100	150			128		79
Fruit and mats	65	100	70	35							5			
Grain and hay		100	100				470	420	580	685	520	499	386	290
Onlone .		10												
Pasture		400			15			200		55		267	153	221
Peas												-		
Potatoes	50	50												
R400														
Balllowar														
20														
Property out											131			163
Truck srops, miss.								80	10	30	50			
Total irrigated	945	1960	545	405	450	0011	1470	1805	1635	1370 (d)	1029	1189	924	941
Other vater use area						•		(1		
Idie (in veeds, vegetation)							4.(3	89	190	315	437	258		
Fallow and bare							9†	520	520	120	299	318		
Aquatic growth and							69	07	0	1011		0 \ 1	!	
Treestor water and							3	25	B	(a)0+C	000	000	7	
Fotel (water consuming)							2057	2461	2413	2153	2133	2133	146	146
<u>Bon-irrigated area</u> Grain and hay (b)					726	1050	550		50	150	150	150		
Pasture, bare or 101e (b)								122	120	300	300	300		
Industrial and urban													1669	321
Levee							11	71 .	71	71	71	71	107	81
Total acreage	2650	2650	2680	2680	2680	2680	2678	5654 (c)	2654	2654	2654	2654	2717	1343
(s) Bonnade ama fana Stata Bullatin 21 avaant fan 11 6 8 8 4ata in 1050	, B ullate	eae RC S		0 0 0	. 1 9 9 9	106.2	(0)							
	TARTTRE .		ape sor			1976.			acreage	Turludor 20 comor boome	1000 01	JIM MJO	Tudat acreage revised to conform with area changes.	anges.
of sillows and 4600 act	N JO BOLAT		r vine en	kafu low. Egd eo h	Lautus , ta	to scres			160 200 a	Pan salo		na crop	second crop to grain.	_
so breakdown by entity is available.	La avai	leble.				1) Tamp 0110 0		Sabutout (165 200	ZOU acres rice.	.eo			

TAXES 2. - Mistorical crop and land use record. Reclamation District 404 (Boggs Tract)

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	al acreage 12000 12000 12000 11000 11000 11000 11000	00011 00011 00011	11000	11930
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TAXUS 3. - Elstories crop and land use record, Reclamation District 524 (Middle Division Roberts Island)

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From 1931-1950 of the levee acreage for the entire lowlands, μ 40 acres of villows and μ 600 acres of weeds were estimated to be water consuming. No breakdown by entity is available.

Includes 80 acres beans, 26^{l4} acres tomatoes, and 30acres corn as second crop after grain.

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									THE LOCKED	In the second				
	1200				9									
		1227	1740	1267	3920	1929	1930	1931	1932	1938	1948	1950	1952 (a)	1955
Irrigated orth			ç		c r		0 6 6 6							
Alrease ,		T	0Ţ		- 30	30	30	25	40	175	50	193	71	
Asparagus						·		-			100		42	56
Beans .			30	150		130.							25	
Beets (Sugar)											100	152		
Gelery														
Corn and allo			118	105	.200	40	140	75	175	02	2 -			
Prute and mats														
Grain and hay				250	290			530	000	135	091	8	מיור	200
Cateas .								777	222	775	00 T	077	0+7	500
Pasture								077		100		47	<u>+19</u>	58
Peas								A				-		
Potatoes														
Rico														
Bafflever														
22														
Tonatees											85		112	63
Truck crops, mise.														
Total irrigated			158	505	520	200	170	479	435	480	510	510	462	463
Other weter use area							(1				
Idle (in veeds, vegetation)							150		60	15				
Fallow and bare							9	27	11	11			20	19
Aquatic growth and							÷		÷		ŗ	¢ r		
Interior varer surrage	1		Ī				+7	74	+T	++	٥Ŧ	TΩ		
Total (water consuming)							340	520	520	520	520	520	482	482
<u> Jon-frrigated area</u>														
Urain and hay (b)						300	180							
rasture, bare or lole (b)														
Industrial and urban														
Teves			I				33	33 .	33	33	33	33	57	57
Total acreage			520	520	520	520	553	553	553	553	553	553	539	539

TAXUE 4. - Mistorical crop and land use record, Reclamation District 524_(The Pocket)

(a) Records are from State Bulletin 23 except for U.S.B.R. data in 1952. From 1931-1950 of the levee acreage for the entire lowlands, 440 acres of willows and 4600 acres of weeds were estimated to be water consuming. No breakdown by entity is available.

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(b) Lands lying above clevation 5 feet (U.S.G.S.) datum.

									104401	SOLANOV HOTETATO TOAN	PA.TANOV	nine Ter		
I Com			2005		0000					0-01	080	420.	1000	0.00
	PACK -	1922	1720	7267	1920	1929	1420	TZZT	7225	0667	P S S	TYPU	TAXE	4667
Irrigated oren	2600	800	1010	805	1201	550 N	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	527	595	1554	1000	4289	3080	1025
										80	260	727	567	848
Reans		100	585	845	696	702 .	1025	1083	727	533				XIX
Beets (Sugar)											469			10
Colery									10					
Corn and allo		125	80		· 240		42	325	449	288	367	360	113	171
Fruit and muts		90	25	50	50	60	20	21	21	39	35	30	25	45
Grain and hay				405	1500	2148	2935	tt73	981	360	3376	1911	2140	2408
Ontons								12	10					
Pasempo		200		100	124		10	166	150	14.0	162		63	65
Pear														
Potatoea	700					48		23						
Rice														
Baltlower													235	
2800 B						213								
											220	85	864	1242
Truck Grops, mise.			10						15	45				
Total irrigated	3300	1615	1710	2205	3811	3721	5i75	2630	2958	2939 (c)	7183	7002	7087	7314
Other water use area						•		25.0	701	70	g S	ηο	23.8	20
Tale (In vecas, vegetarian					_		06	- / -		60	<u>,</u>	169		//
Acta the sub care and														
interior water surface	4 and the second						80	80	80	80	80	80	t1t	7
Total (water consuming)							5345	2960	3225	3106	7345	7345	7369	7360
Non-1rrigated area	در ک ^{ور} در کار			<u></u>	3500	4614	0002	41.3.85	06 17	211 QU				
Pature bare or 1010 (b)										890		-		
Trênstrial ané urban														6
Leves							130	130	130	130	130	130	277	277
Total acreage	8900	8900	7480	7480	7480	7480	7475	7475	7475	52tiL	7475	7475	7646	2646
										-				

ZAMME 5. - Mistorical erop and land use record, Reclamation District 544 (Upper Division Roberts Island)

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From 1931-1950 of the levee acreage for the entire lowlands, μ 40 acres of willows and μ 600 acres of weeds were estimated to be water consuming. No breakdown by entity is available. Records are from State Bulletin 23 except for U.S.B.R. data in 1952. (a)

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(c) Includes 141 acres beans as second crop after grath

Lands lying above elevation 5 feet (U.S.C.S.) datum. (p)

1974 1925 1926 1926 1926 1926 1920 1 1 100 700 550 750 750 756 817 107 222 107 1170 1100 1100 1100 1100 1100 1100 1100 1100 1100	1374 1375 1376 1371 1376 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1379 1370 1379 1370 1379 1370 1370 1370 1370 1370 1370 1370 1375 2275 2379 2310 23176 2317 2320 23176 2317 2320 23175 2320 23175 2320 23176 2320 23176 2320 23175 2326 2317 2326 23170 2326 23170 2326 23170 2326 23170 2326 23170 2326 23170 2326 23170 2326 23170 2326 23170 2326 23170 2326 23170 2326 23170 2326 23170 2326 23176 2326 23176 2326 23176 2326 23176 2326 23176 2326 23176 2326 23176 2326 2316 2316 2316 2316 2316 2316 2316 2316 2316 2316 2316 2316 2316 2316 2316 2316 2316 2316															
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103 -¢ Ano of the set - Mistoriash aron and land use FALLE 6.

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From 1931-1950 of the levee acreage for the entire lowlands, 440 acres of willows and 4600 acres of weeds were estimated to be water consuming.

Lands lying above elevation 5 feet (U.S.Q.S.) datum.

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(d) Area revised.
(e) Includes 150 acres corn and 65 acres beans as secon crop after state

after grain.

go breakdown by entity is available.

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(a) Records are from State Bulletin 23 except for U.S.B.R. data in 1952.		

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ugar) málo natio i ratio f natio f nat			440 70 310	180 1075 300	290 740 560	85 640 550	140 110 434 60	8444 60	42	103
multo 195 340 nautes 220 400 nautes 220 400 nautes 100 100 nautes 1395 1610 nautes 1395 1610 nautes 1395 1610 nautes nautes 1395			440 70 310	180 1075 300	290 740 560	85 640 550	110 134 60	8444 60	42 216 216	107
multo 340 nauts 220 400 Pase 220 400 Pase 1395 1610 Pase 1395 1610 Conth and writer surface 1395 1610			440 70 310	180 1075 300	290 740 560	85 640 550	110 434 60	09 hth	42	103
l hay 220 400 220 400 29. mise Pis, mise rrigated weeds, vegetation d bare rowth and water consumine		663	70 310	1075 300	740	640	434	8444 60	216	<u>498</u>
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ps, mise. Frigated Frigated Needs, vegetation d bare rowth and veter surface weter consumized			310	300	560	550	60	60		
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ps. mise. rrigated abgr use area weeds, vegetation d bare rowth and water surface water consuming)					-					
ps. mise. rrigated ater use area weeds, vegetation d bare rowth and water surface water consuming)				00			145	-		
1395 1610	_						07	30	450	
1395 1610			10					,		
Other water use area Idle (in weeds, vegetation) Fallow and bare Aquatic growth and interior water surface Fotal (water consuming)	019	1685 1005	1055	1735	1590	1700	1375	1661	1727	2024
Idle (in weeds, vegetation) Pallow and bare Aquatic growth and interior water surface Total (water consuming)				· • • • •						
Fallow and bare Aquatic growth and interior water surface Fotal (water consuming)			110	51	196	86	425	139	11	
Aquatic growth and interior water surface Fotal (water consuming)		_	10	10	10	10			286	
Interlor water surface Fotal (water consuming)			(ć	(
Total (water consuming)			. 22	22	22	22	18	18	34	34
			1197	1818	1818	1818	1818	1818	2058	2058
Jon-frrigated area		21R	1.C.Y							
(a) Asy but utern		07	770							
Pasture, bare or idie (b)										
Industrial and urban									24	24
	Π	Π	72	72 .	- 72	72	72	72	111	111
. Total acreage 1890 1890		1890 1890	1890	1890	1890	1890	1890	1890	2193	2193

ZAMES 7. - Mistorical crop and land use record, Honker Lake Tract. YEA

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(b) Lands lying above elevation 5 feet (U.S.G.S.) datum.

TABLE 8. - UNIT CONSUMPTIVE USE OF WATER IN SACRAMENTO-SAN JOAQUIN DELTA

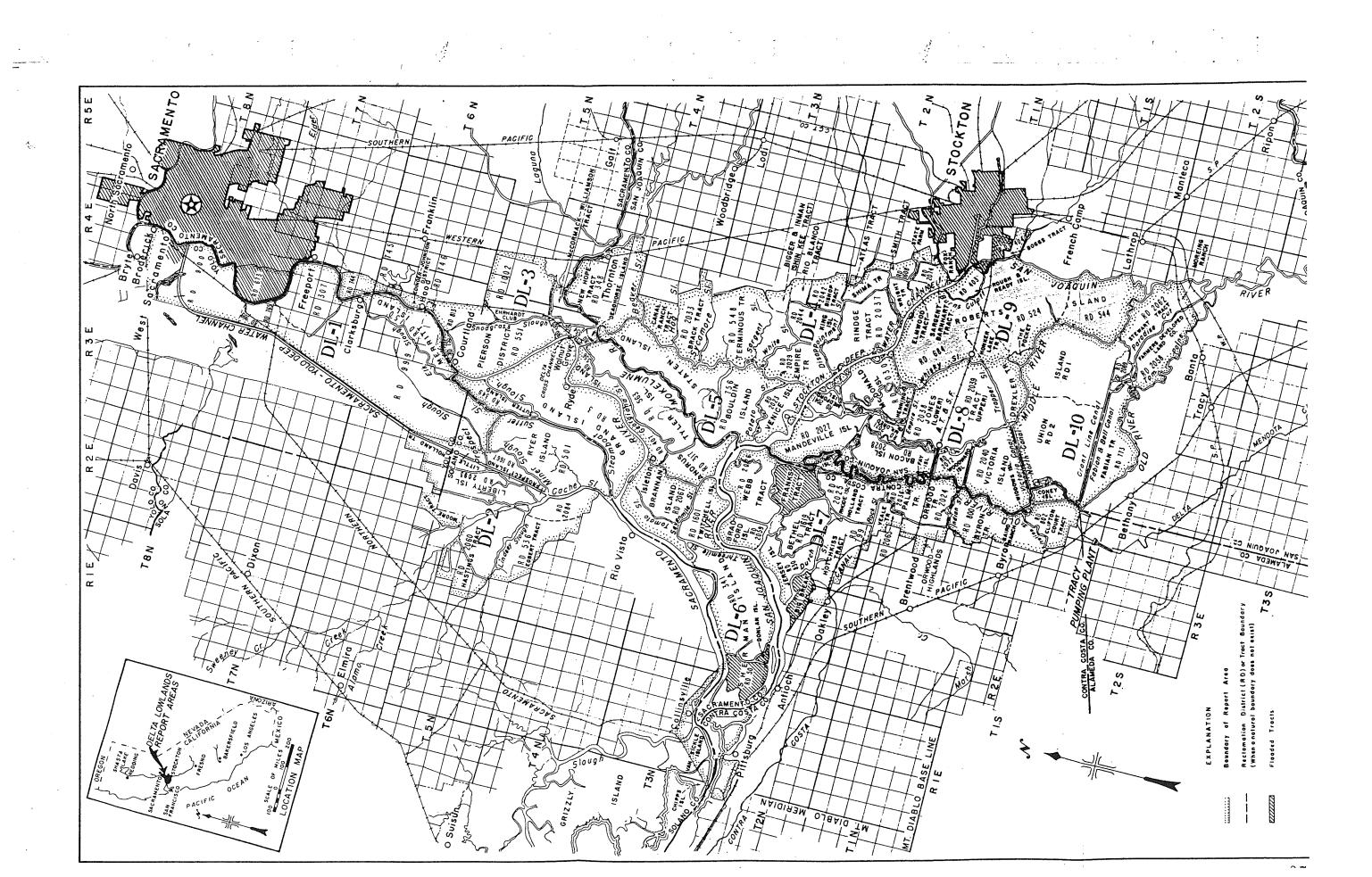
In	acre-	-feet	per	acre

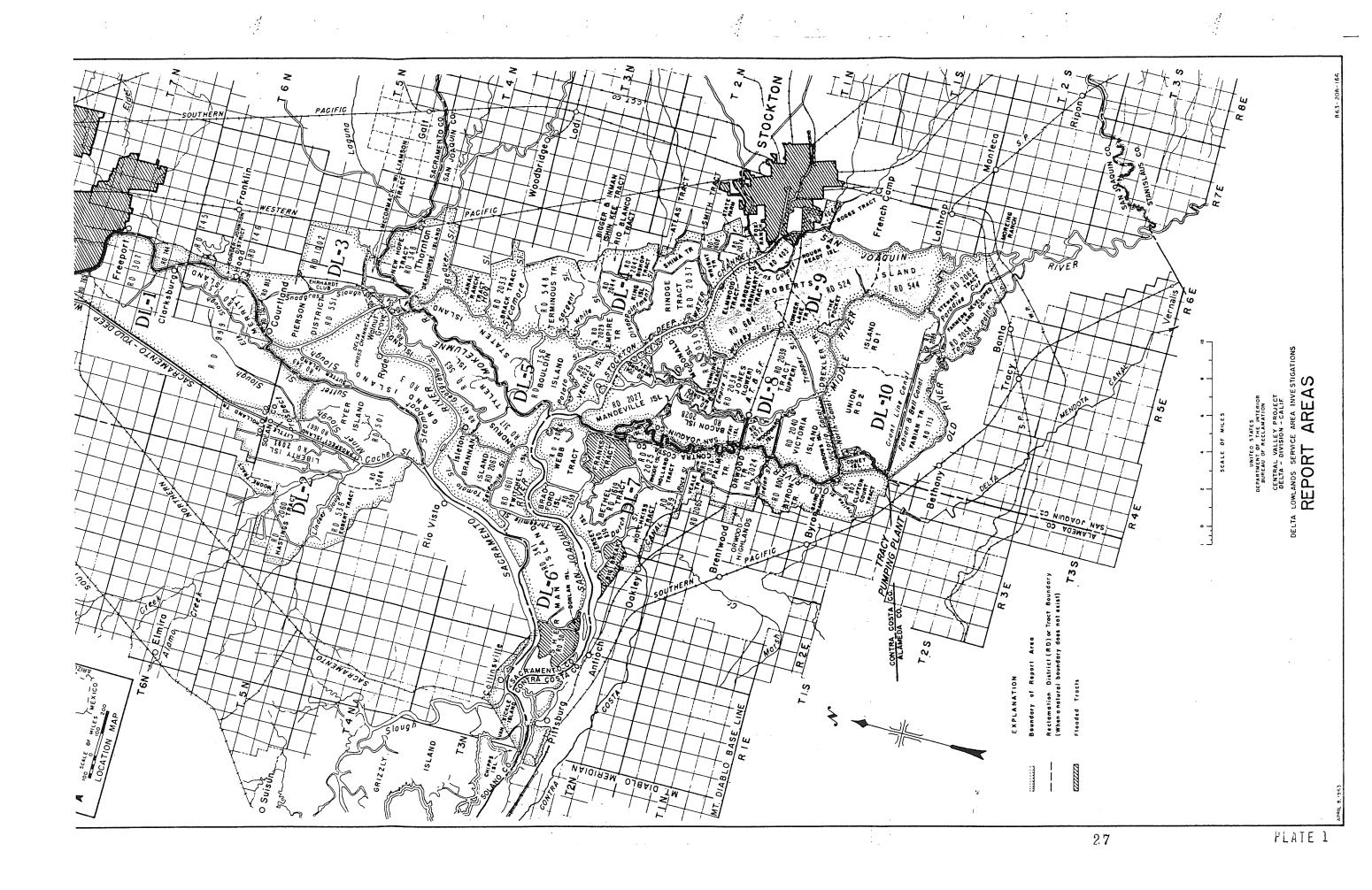
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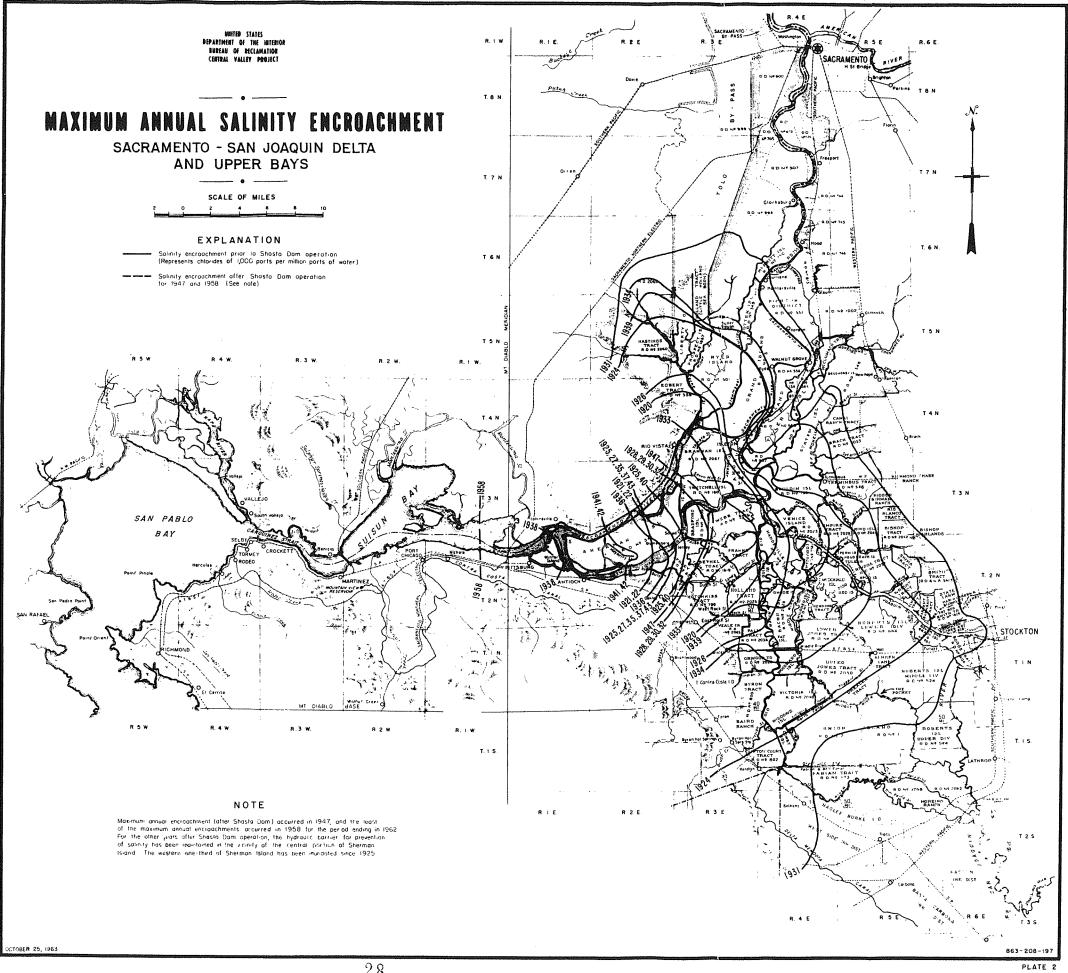
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Classification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	: Total
Pasture													
Sudan	• <u>05</u>	• <u>05</u>	• <u>10</u>	<u>.10</u>	.15	.30	.30	•25	.20	<u>.10</u>	. <u>10</u>	.10	1.8
Miscellaneous	• <u>05</u>	. <u>10</u>	.15	.40	•50	.65	•70	•70	•50	.20	.10	•10	4.15
Alfalfa	• <u>06</u>	• <u>08</u>	• <u>10</u>	•30	•40	•50	.65	•55	•50	. 20	. <u>10</u>	• <u>07</u>	3.51
Rice	• <u>05</u>	• <u>05</u>	• <u>10</u>	.15	•90	1.15	1.25	1.20	•35	• <u>09</u>	. <u>10</u>	. <u>10</u>	5.49
Field Crops													
Beans	. <u>06</u>	. <u>08</u>	. <u>08</u>	.16	.20	.14	• 24	.58	•37	• <u>09</u>	• <u>07</u>	. 05	2.12
Corn and Milo	• <u>04</u>	<u>.04</u>	<u>. 04</u>	<u>. 08</u>	.10	.24	.70	.60	.40	.10	.10	.07	2.51
Grain and Hay	. 04	.04	.07	.40	.60	.30	.14	.23	.21	.14	.07	.05	2.29
Peas	.10	<u>.10</u>	.20	.30	.10	.05	.14	.13	.11	• <u>09</u>	.10	.10	1.52
Safflower and Sunflower	• <u>05</u>	• <u>05</u>	.10	.30	.40	.50	.20	.13	.11	.09	.10	.10	2.13
Sugar Beets	.06	.08	.08	.13	.32	.51	.61	•53	.20	.13	. <u>10</u>	• <u>07</u>	2.82
Truck Crops													
Asparagus	• <u>05</u>	• <u>05</u>	• <u>05</u>	• <u>05</u>	.08	.14	.40	.68	•55	.42	.12	.10	2.69
Celery	• <u>04</u>	• <u>04</u>	• <u>04</u>	<u>. 08</u>	.10	.10	.10	.20	.25	.30	.20	• <u>05</u>	1.50
Onions	.04 .04 .06 .05	• <u>04</u>	<u>. 08</u>	.13	.27	.49	•43	,20	.16	.13	.10	.07	2.14
Potatoes	• <u>06</u>	• <u>08</u>	.08	.16	.15	•38	•52	.30	.15	• <u>09</u>	• <u>07</u>	• <u>05</u>	2.09
Tomatoes	• <u>05</u>	.05	. <u>10</u>	<u>.10</u>	<u>.10</u>	.25	•35	.60	•45	•35.	<u>.10</u>	.10	2.60
Seed and Misc.	• <u>06</u>	• <u>08</u>	• <u>08</u>	. <u>10</u>	•25	.50	•50	•50	•35	.10	• <u>10</u>	• <u>07</u>	2.69
Fruit and Nuts													
Assorted	• <u>04</u>	• <u>04</u>	• <u>04</u>	.18	•32	•50	•57	.40	.23	• <u>07</u>	• <u>07</u>	• <u>05</u>	2.51
Grapes	• <u>04</u>	• <u>09</u>	• <u>04</u>	• <u>09</u>	.20	•35	•50	•35	.22	.05	• <u>07</u>	• <u>05</u>	2.05
Native Vegetatio													
lush	.12	.14	.21	•31	. 40	•59	.68	•57	•39	•29	.20	.12	4.02
iedium	.12	.16	.22	.28	.31	.40	•45	.38	•28	.24	.19	.13	3.16
)ry	.13	.17	•23	•24	•22	.21	.22	.20	.17	.18	. 18	.14	2.29
)ther													
allow and Bare		• <u>04</u>	• <u>04</u>	• <u>08</u>	.10	.13	.14	.13	.11	• <u>09</u>	• <u>07</u>	• <u>05</u>	1.02
dle Crop Land	• <u>06</u>	• <u>08</u>	• <u>08</u>	.16	.20	•26	.28	.24	.16	.13	.10	• <u>07</u>	1.82
uck Ponds	<u>. 05</u>	• <u>05</u>	. <u>10</u>	. <u>10</u>	.10	• <u>05</u>	.14	.13	.60	.60	.30	.10	2.32
Irban	. <u>06</u>	• <u>08</u>	<u>. 08</u>	.16	.20	.20	.21	.20	.16	.13	• <u>07</u>	.05	1.60
ule and Swamp	•13	.18	•34	•51	.70	•79	.87	•77	.64	.49	.27	.13	5.82
evee and Berm	, <u>10</u>	.10	.15	· . 20	.25	.30	•35	.35	.30	.20	.10	. <u>10</u>	2.50
ater Surface	.06	.10	.20	•33	.50	•58	.65	•57	.44	.27	.12	.06	3.88

NOTE: Figures underlined (.05) represent estimated consumptive use by weeds and soil evaporation before planting or after harvesting.

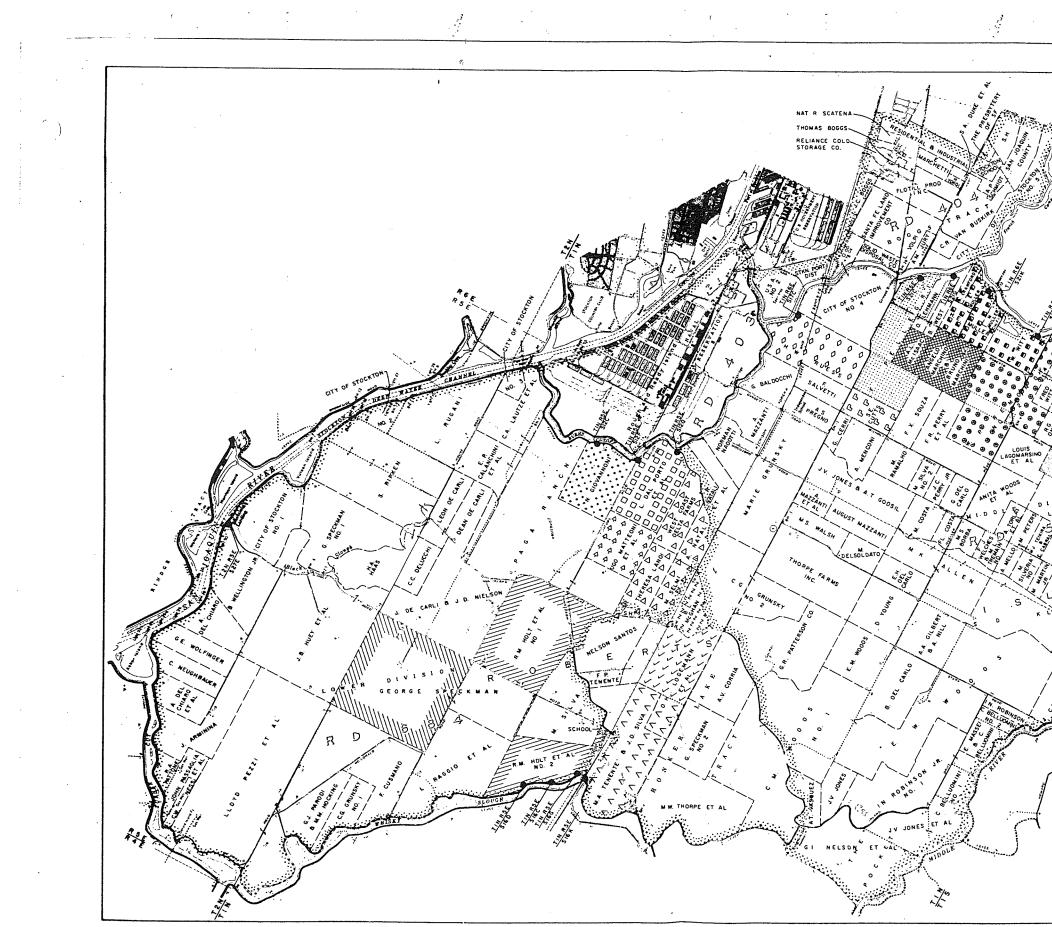






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	<i>[]]</i>	APPLICATION Fermit License	4161 2218 600	8-16-24 8-26-25 3-31-28	Albert Muller	305.98 306 305.98	3.6 3.8 1.67	715 01a
		APPLICATION Permit License	4209 1925 701	9-15-24 12-17-24 4-12-25	Davia G. & Francis H. Saunders	163 163 163	222	T15 Søn ,
	<u> </u>	APPLICATION Permit License	4471 2254 1337	2-30-25 9-25-25 4-20-33	George & Anna Speckman	626.7 626.7 627	7.83 7.83 7.83	T25 San .
4		APFIICATION Fermit Lisense	4520 2161 1270	3-26-25 7-25-25 2-16-33	John & Pia Cerri	90 57 71	1.12 1.12 0.45	T1S 1 Can
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2000 3000 4000 5000 6000 SCALE OF FEET

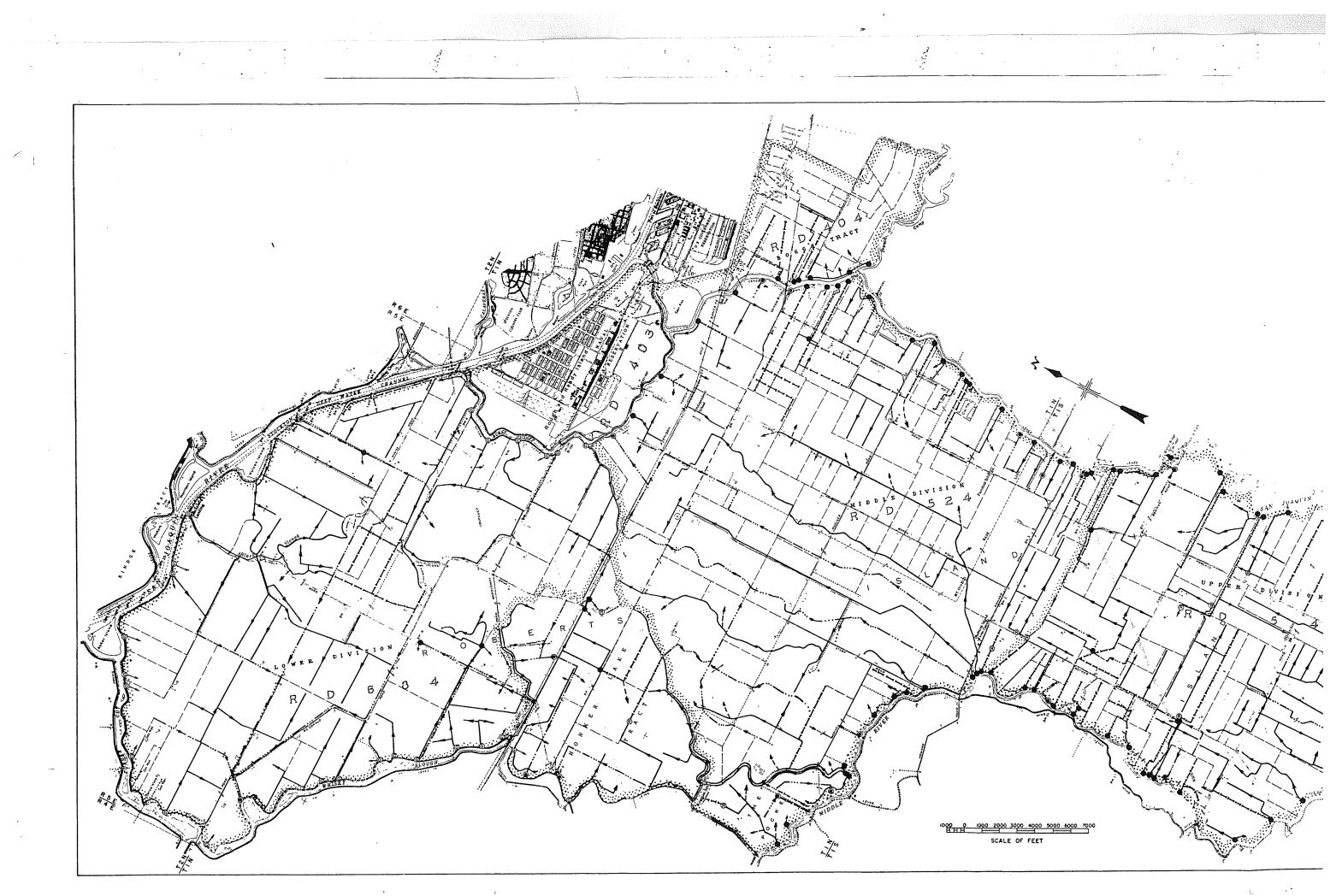
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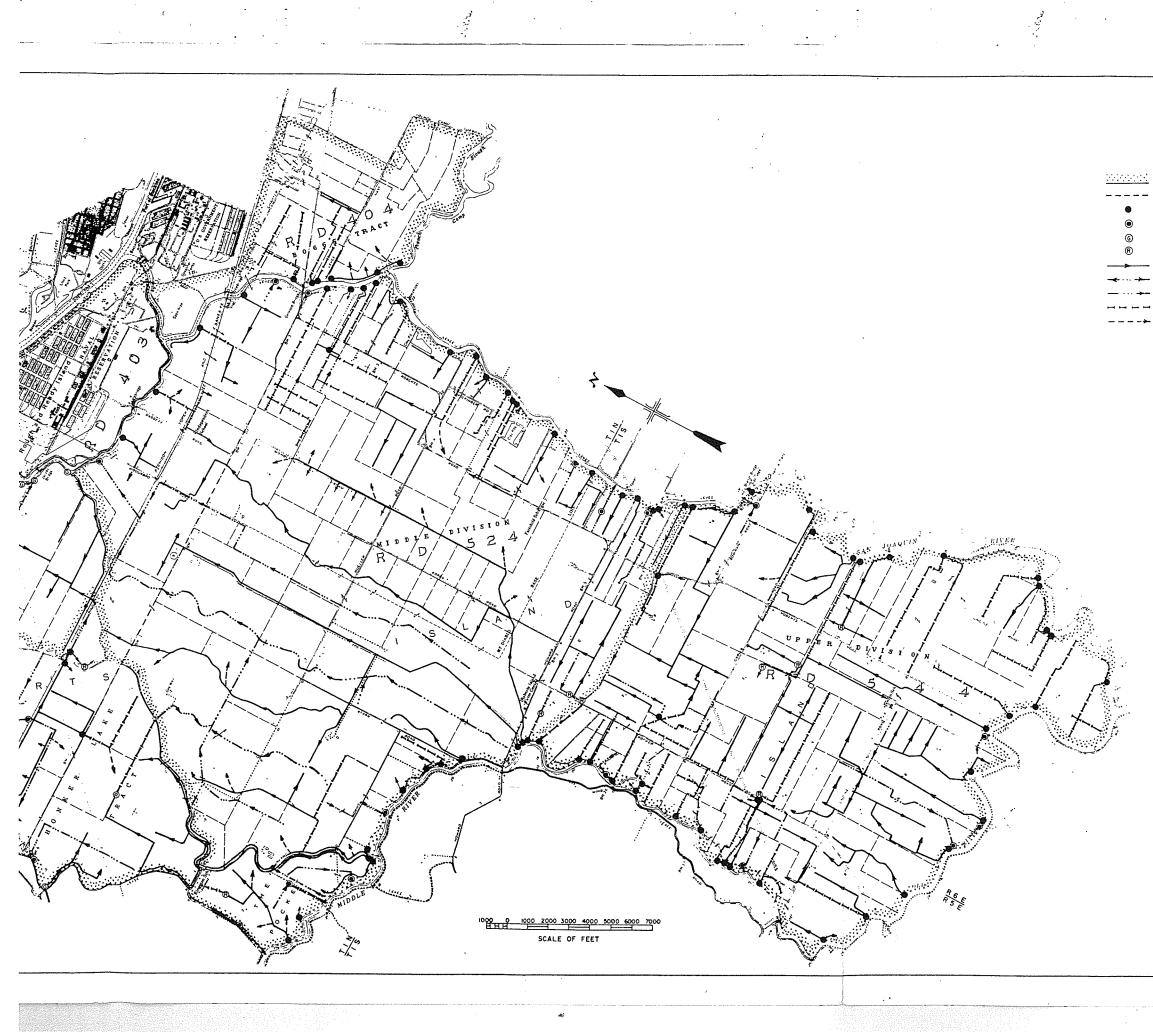
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100		APPLICATION Permit	1755	3-23-33 11- 1-23 6-20-24	Minaie & Freq Witt	599 100 200	7.+8 1	TIN RGE 328F San Josquin River	* # #	License APFLICATION Permit	4636 2401	11- 2-51 6-15-25 1-25-26	Martin P. H. & Julia W. R. Muha	203.7 160 154.6	2.55 2 1.93	TIS R5E SI3L, SI3P Middle River		License APPLICAT Permit	2791	45-11-45 مشرەبەر	Mary Ratto (Administ	334.78	4.18 1.7 1.7	TIS R5E SI3F Middle River
	$[\uparrow \uparrow \uparrow \uparrow \uparrow]$	Fermit		11-19-24	George & Edvart Brown	90 55 55	0.6≥ 0.69 0.69	TLS RGE S20B Sen Josquin River		License AFFLIC.TICN Fermit	1246 4020 2434 040	12-20-32 10-51-25 2-27-26	Gvendolyn E. Steindorf	153 203 203	1.93 2.53 2.53	TIS REE S296 Old River		APPLICAT Permit	2734	1-23-41 3-26-48 5-26-41 2-20-41	Francis H. & Eva Lew Saunders	64.6 136 138	1.13 1.72 1.72	TLS R5E S13P, S24C Middle River
s se a se		APPLICATION Fermit	2050 4161 2218	8- 3-40 ë-16-24 8-26-25	Albert Muller	55 305.98 306	0.69 3.č 3.8	TIS RÉE 330L Cla River	<u>a a a a</u> a a a a	License APPLICATION servit	4922 2405	4-22-29 2-13-26 5-13-26	D. Muller	203 172.1 172.1	2.53 2.15 2.15	T1N R6E S21K San Joaquin River	00000	license	2780 101 20374 5930	:-::-:5 :-::-:2 :-::3:2	Alzoe E. Sebney	136 31.6 31.6	1.72 0.39 0.39	TIS R55 S12L Middle River
		Permit	4209 1925	3-31-28 9-15-24 12-17-24	Davia G. & Francis H. Sauniers	163	1.67 2 2	T15 R6E 35A San Joaquin River	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	license APFLICATION Permit	2549 2549	2- 4-27 3-30-26 6-23-26	I. E. Saunders	172.1 77 77	1.51 0.96 0.96	TIS REE SHL Middle River	00000	All LICAT Fermit	2,35	:-::-+; :-::-; :-::-::	Geurge & Anna Sperka	31.6	0.39 7.83 7.83	T2N R5E S27E Sed Josquin River
/	[rermit	701 4271 2254	4-12-25 2-20-25 5-25-25	George & Aans Speckma	626.7	2 7.83 7.03	T2: R5E S27E San Josquin River		License APPLICATION Permit	2603	5-14-29 6-19-26 5-25-26	Hetel Masters & Bersie McGhan	75 12.4 72.4	0.94 0.9 0.9	TIN R5E 312Q Burns Culoff	011113 0111113	License APPLICAT Permit	3010		Albert Miller	626.7 281 281	1.33 1.33	T15 R6E SJOL Ola River
		APILICATION Fermit	1337 4520 2161	4-20-33 3-20-25 7-25-25	John & Pis Cerri	627 90 90	7.53 1.12 1.12	TLS R62 S5J Sen Joequin River		License APPLIC-TION Fermit	1245 5102 2016	12-26-32 7-25-26 9-14-26	Frank Pellegri	72 270 270	0.9 3 3	TIN RGE S21C Son Josquin River	00000d	License	3366 116,2 6760	15-23-21 کامند22-22 7 المدتوح-	John & Fis Cerri	281 13.32 13.3	1.33 0.45 0.2	T13 R6E S5J San Joaquin River
ile street		APPLICATION Fermit	1270 4537 2324	2-16-35 4-10-25 11-17-25	Rello & Tillie Giovan	77 nom1 220 220	0.45 2.75 2.75	TIN RSE SIZC, SIZF Burns Cutoff		Livense APPLICATION Fermit	064 5121 2646	0-14-29 1-22-26 16-13-26	Sez Giovennoni & Logis Delparto	270 377.6 377.6	3 4.7 4.7	Tim R5E SL2Q Burns Cutoff		License	3433 1011 11694 6790	:-31-52 137	Lelant & Sbigzil Ney	13.32	0.2 4.5 6.33	TLS 852 S13P Middle River
	4	License	720	5- 7-28		220	2.75			License APFLICATION Permit	1345 شرون ۲۵۵۳	5- 6-33 4-13-31 10-09-31	Etto Cutta	376 79 79	4.7 1 1	TIN RGE 521C San Joaquin River		Liceose	3677 107 11739 6831	2-25 <u>2</u> 2-20-47 6-19-47	Eddie V. Muri	427.6 130 130	4.5 1.6 2.6	TLS R6E S9D Sen Joequin River
	and Control of the second	2	•							License APPLICATION Fermit	1660 766, 4211	6-20-36 9-11-53 10-27-33	Alice G. Ratto	79 124 124	1 1.6 1.6	TIS R5E SL2C Middle River	00000	APPLICAT Permit	3673	وت- تر -د رشت در -د مرت (د- تر - د	N. Reunders	130 60 60	1.6 0.75 0.75	TLS RGE S5H San Juaquio River
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Survey and a second				a a		****				JO SZ	R 6 E			area boundary a ct boundary when				Permit	6166 CON 17567 11025	3- 7-61 4-24-57	Peter & Luci Miocevi	го. сь. 70 70	2.55 1 1	TLS RSE S25C Middle River
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PLATE 3



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<u>::</u>	Report area boundary and Reclamation District or Tract boundary when no matural boundary exists
	Oupership boundary
	Irrigation pumping plant
	Drainage pumping plant
	Gravity diversion facility
	Relift-pumping plant
	Irrigation canal
>	Combination irrigation-drainage canal
→	Brein
	Pipeline
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NOTE

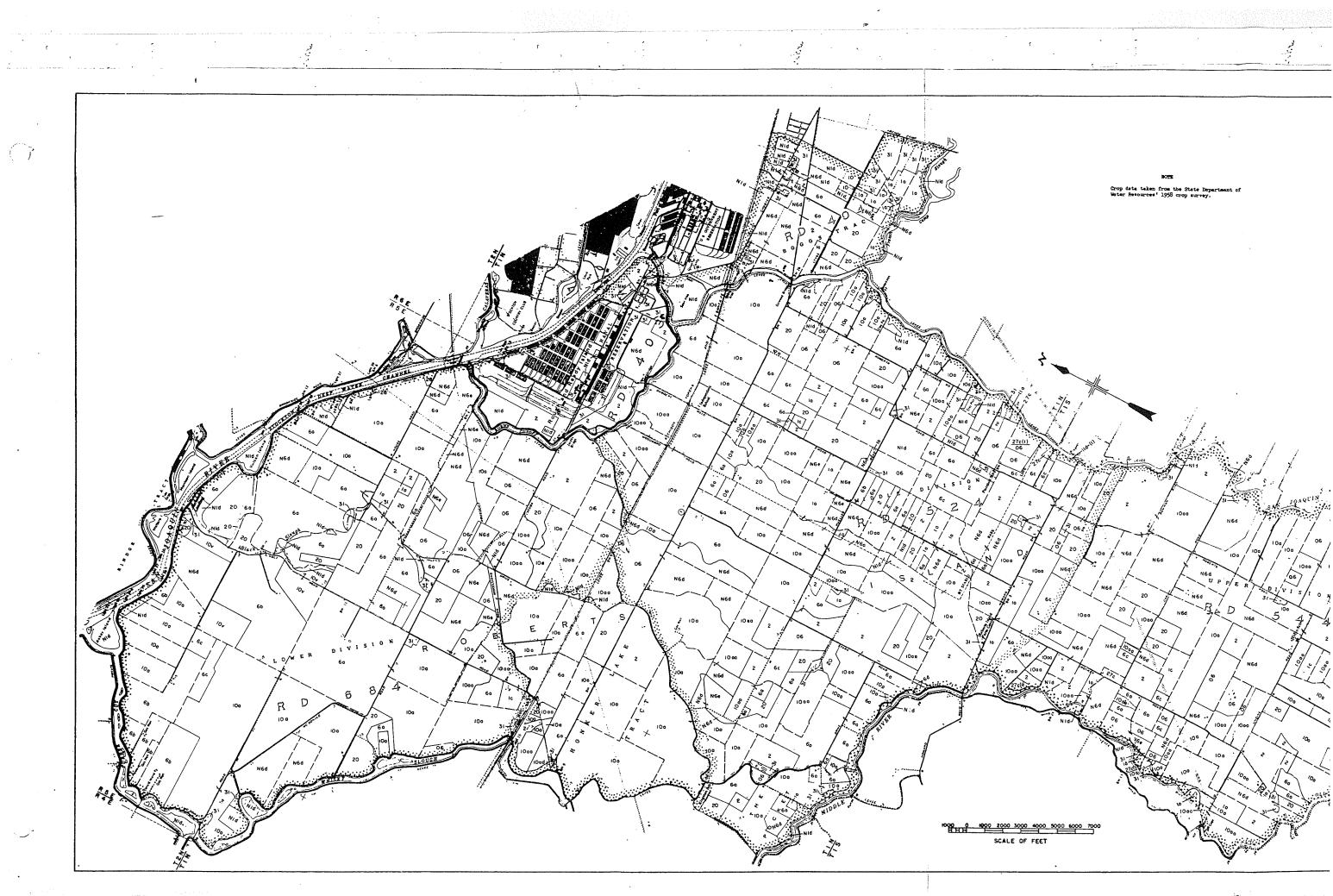
Irrigation and draimage facilities, 1963, were taken from a 1952 U.S.B.R. field survey and spot-checked in 1963 for major changes.

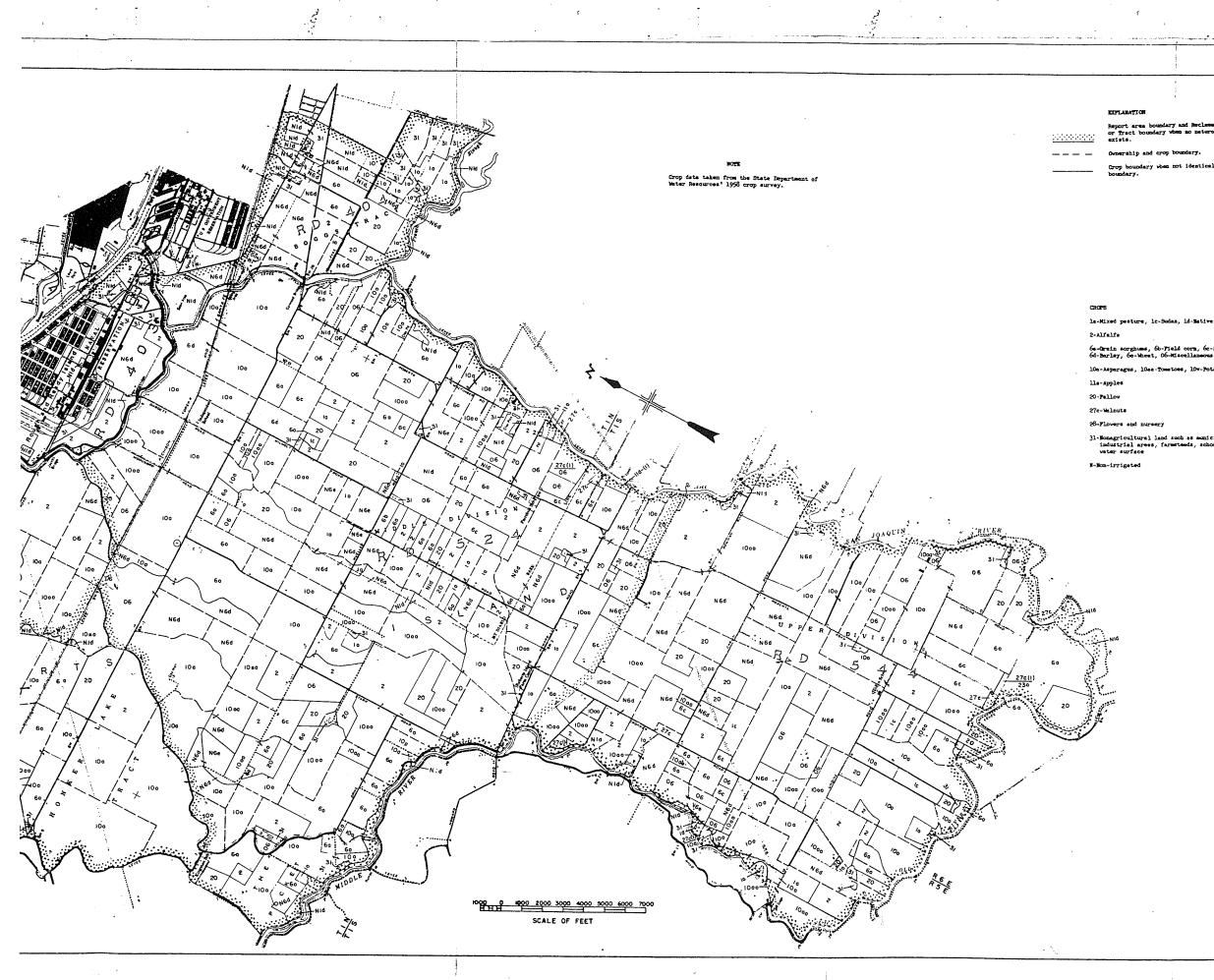
UNITED STATES DEFARTMENT OF THE INTERIOR OUFEAU OF RECLAMATION - REFION B DELTA LOWLANDS SERVICE AREA INVESTIGATIONS IRRIGATION AND DRAINAGE FACILITIES REPORT AREA DL -9 STOCKTON TO MIDOLE RIVER AND VICINITY DRAWN. G.G.W. SUBNITTED. Ladreef. Vierie TRACED TD. M.S.M. RECOMMERCIES (Method. B. S. Elela, CHECKED M.W. APPROVED DOCADON J. RECOMME

SACRAMENTO, CALIF DEC 30,1963 863-208-185

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PLATE 4





14

Report area boundary and Reclamation District or Tract boundary when no natural boundary exists.

rship and crop boundary.

not identical with ownership

la-Mixed pasture, 1c-Sudan, 1d-Hative pasture

6s-Grain sorghums, 6b-Field corn, 6c-Sugar bests, 6d-Barlay, 6c-Wheat, 06-Miscellaneous seed crops

31-Monagricultural land such as municipal and industrial areas, farmsteads, schools, and vater surface

