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STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING AND IRRIGATION

BULLETIN No. 6

IRRIGATION REQUIREMENTS
OF CALIFORNIA LANDS

BEING

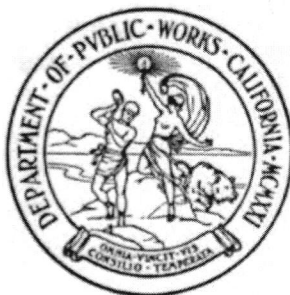
APPENDIX "B"

TO

Report to the Legislature of 1923

ON THE

Water Resources of California



CALIFORNIA STATE PRINTING OFFICE
SACRAMENTO, 1923

20273

TABLE 9—(Continued). USE OF WATER AS PROPOSED FOR VARIOUS LOCALITIES.

Section and key letter.	Locality. Duty proposed by:	Area.	Annual use in depth on land.		Estimated loss of diverted water in conveyance.	Year of proposal.	Estimated area of future crops in per cent of total.				Proposed monthly use in per cent of annual supply.												
			Gross.	Net.			Alfalfa.	Trees Vines.	Grain.	Misc.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
			Feet.	Feet.			P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.
6-E	Lindsay-Strathmore Irrigation Dist. (a) S. E. Kieffer. (b)	13,410	1.90	1.75	8.0	1916		100.0															
6-F	Terra Bella Irrigation Dist. S. E. Kieffer. (b) (d)	10,000	1.65	1.50	10.0	1915		100.0															
6-F	S. E. Kieffer. (b) (e)		1.67	1.50	10.2	1921		100.0															
6-F	Lindsay-Strathmore and Terra Bella Irrigation Dist. Areas. S. E. Kieffer. (b)		1.50	1.00	33.3	h		100.0															
7-A	Woodbridge Area, U. S. R. S. A. N. Burch. (i) (j)	51,000		2.25		1918																	
-A	Stockton Area. (k) S. T. Harding (j), and R. D. Robertson	20,000	2.50			1912	x	x	x	x													
7-B	Lone Tree Irrigation Dist. (e) A. Kempkey. (b)	2,167		2.00		1921				100.0													
7-B	Knightsen Irrigation Dist. (m) J. B. Brown. (n)	8,762	3.50	1.20 to 2.00		1920				100.0													
7-C	West Side Irrigation Dist. (e) W. G. Hunter. (o)	11,500	3.00	2.40	30.0	1915				100.0			y	y	y	y	y	y					
7-C	Byron-Bethany Irrigation Dist. F. H. Tibbetts. (b) (e)	13,090	2.50	2.00	20.0	1920	x			100.0				p									
7-C	S. C. Whipple. (m) (n)	13,090	2.50	2.00	20.0	1920				100.0													
7-C	Naglee-Burke Irrigation Dist. (m) S. C. Whipple. (n)	3,346	2.50			1920				100.0				q									
7-C	Kasson Irrigation Dist. (m) S. C. Whipple. (n)	2,107	2.50			1920				100.0				y	y	y	y	y	y				
7-C	Banta-Carbona Irrigation Dist. S. C. Whipple. (m) (n)	18,850	2.50	2.50		1920				100.0				y	y	y	y	y	y				
7-D	J. B. Brown (n) and Dist. Engr. (z) (e)	15,000	3.00	2.50	20.0	1922								t	12.0	16.0	21.0	20.0	16.0	9.0	2.0		
7-D	West Stanislaus Irrigation Dist. (e) E. N. Bryan. (u)	35,681		2.25		1921																	

REMARKS—(a) From rpt. to Bond Comm. by W. L. Huber. (b) Of San Francisco. (c) Irrigation season 175 days. (d) Prelim. rpt. on dist. (e) From rpt. to dist. (f) Irrigation season from 150 to 200 days. (g) Irrigation season from 180 to 240 days. (h) Est. of use prior to formation of dists. (i) From rpt. on secondary project to Director, U. S. R. S. (j) Of Berkeley. (k) From Rpt. of Conservation Comm. of State of California, 1912. (l) From rpt. to State Engr. (m) Of Berkeley. (n) Of Berkeley. (o) Of Stockton. (p) Irrigation season 175 days. (q) Irrigation season 180 days. (r) Report to State Engr. (t) By J. B. Brown. (u) Of Sacramento. (z) These crops to be grown; areas not estimated. (y) Water to be used; quantity not estimated.

WATER RESOURCES OF CALIFORNIA.
TABLE 9.

TABLE 8—(Continued). USE OF WATER AS MEASURED ON VARIOUS SYSTEMS.

Section and key letter.	System.	Area irrigated.		Annual use in depth on land.	Loss of diverted water in conveyance.	Year.	Area of crops in per cent of total.				Monthly use in per cent of annual use.												
		Gross.	Net.				Al-falfa.	Trees.	Grain.	Misc.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
		Acres.	Feet.	Feet.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	
6-F	Terra Bella Irrigation Dist. (a) (b).....	23,000	c1.75	c1.75	1917		x															
		2,212	1.50	1.50	1918		x				0.6	2.0	0.6	0.8	17.5	21.6	20.2	15.7	14.9	5.5	0.6
		1,934	1.63	1.63	1919			87.4	1.9	10.7				1.0	20.3	19.5	16.0	17.3	15.1	8.9	0.4	1.5
		2,901	1.54	1.54	1920		x					0.6			0.4	14.8	21.1	17.9	18.0	16.5	10.7
		1.51	1.51	1921								0.4	5.3	15.3	16.3	17.6	19.1	15.3	10.7
7-B	East Contra Costa Irrigation Co. (d) (e).....	3,733	3.52	2.65	24.8	1917						0.1	0.8	10.7	15.2	22.1	21.4	14.2	8.3	5.2	2.0	.....
		4,206	2.32	2.25	3.1	1918	44.7		23.8	31.5		11.6	7.0	7.0	18.6	18.0	17.4	17.1	3.3	.....	.....
		3,247	1.96	1.60	18.2	1919	78.0		20.0	2.0				0.6	21.4	19.8	19.1	19.6	18.0	1.2	0.2	0.1	
		5,304	2.88	2.57	11.0	1920	50.4	2.7	46.7	0.2		6.1	7.0	13.9	16.4	12.8	16.6	18.7	7.5	1.0	.....	.....
7-C	West Side Irrigation Dist. (f) (g).....	11,000	1.93	a1.54	20.0	1919	x	x	x	x	12.6			8.6	18.5	14.1	7.5	8.6	3.8	9.7	10.1	6.5	
		11,200	1.96	a1.57	20.0	1920	17.9	0.9	80.3	0.9	2.4	9.6	3.4	15.0	13.8	7.4	9.0	8.9	8.1	8.0	8.4	6.0	
		11,750	1.82	a1.46	20.0	1921	25.5	0.7	66.4	7.4	1.2		8.1	20.8	12.8	9.3	10.7	8.5	10.8	13.1	4.7	.....
7-C	Naglee-Burke Irrigation Dist. (i) (j).....	3,000		c2.50	.....	1920	100.0															
7-C	Riverview Farm and Water Co. (k) (l).....	2,400		c2.00	.....		x		x	x												
7-C	Byron-Bethany Irrigation Dist. (q).....	1,750			.....	1918					4.8	2.7	21.3	13.4	17.2	26.0	8.8	4.5	1.3	.....	.....
7-E	South San Joaquin Irrigation Dist. (m) (n).....	1,750			.....	1919								18.8	21.3	24.3	23.1	11.2	1.3	.....	.....
		15,600			.....	1914	50.6	27.6	7.4	14.4												
		23,211	4.35	c3.05	30.0	1915	49.8	24.1	10.3	15.8	2.9	0.1	3.7	10.3	16.9	23.5	20.8	7.6	6.6	4.4	2.7	0.5	
		33,524	4.05	c2.84	30.0	1916	36.3	14.0	14.3	35.4			0.5	8.7	23.3	22.5	21.2	8.5	5.4	5.4	2.5	2.0	
		37,287	4.05	c2.84	30.0	1917	37.7	11.5	11.4	39.4	1.6	2.4	8.3	17.8	18.0	17.3	16.7	6.8	5.0	4.6	1.3	0.2	
		51,100	2.62	a1.83	30.0	1918	35.8	13.5	13.3	37.4	2.0	3.6	0.7	10.8	28.8	29.6	10.3	7.7	6.5	.....	.....
		51,375	2.95	c2.00	30.0	1919	41.5	10.8	12.7	35.0													
		59,302	3.16	c2.20	30.0	1920	51.2	12.2	11.0	25.6													
		53,074	4.20	p2.31	45.0	1921	60.8	13.7	18.7	6.8													

REMARKS—(a) Water pumped from wells to irrigate in the vicinity of Terra Bella. (b) From rpt. by I. H. Althouse, Ventura, and records of Terra Bella Irrigation Dist. (c) Estimated by company (d) Water pumped from San Joaquin River, Indian Slough, to irrigate in vicinity of Brentwood. (e) From 1920 rpt. by A. Kempke, Chief Eng. (f) Water pumped from San Joaquin River to irrigate near Bethany. (g) From rpt. of W. D. Harrington, Chief Eng., and notes of R. E. Robson and T. H. Means, San Francisco. (h) From 20 per cent loss assumed by R. E. Robson. (i) Water pumped from San Joaquin River to irrigate near Tracy. (j) From Naglee-Burke Irrigation Dist. (k) Water diverted from San Joaquin River to irrigate near Tracy. (l) From Riverview Farm and Water Co. (m) Water diverted from Stanislaus River to irrigate near Manteca. Water first run in 1913. (n) From W. S. Papers, U. S. G. S. Nos. 391, 411, 441, 461 and 481. Records of South San Joaquin Irrigation Dist.; private report by R. E. Robson for T. H. Means, San Francisco. (o) Net use computed from a loss estimated at 30 per cent by R. E. Robson. (p) Net use computed from a loss estimated at 45 per cent by Burton Smith. (q) Data from Duty of Water West Side of San Joaquin Valley, California, by R. E. Robson, San Francisco. (x) These crops irrigated; area not known.

TABLE 10—(Continued). SUMMARY OF USE AND DUTY OF WATER

by the sixteen sections of the State.*

Includes average measured and proposed use, annual and monthly †; also the annual duty and desirable monthly use. Summarizes Tables 1, 2, 8 and 9.

Gross annual use and duty.			Net annual use and duty.			Section.	Use and duty.	Monthly use. Average monthly use in per cent of the annual use.														
Items in record, a	Aggregate area, b	Average depth on land	Items in record, a	Aggregate area, b	Average depth on land			Items in record, a	Aggregate area, b	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Number	Acres	Feet	Number	Acres	Feet	Number		P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.	P.ct.			
23	477,591	6.58	14	424,597	3.31	5	Measured use.	7	213,215	.....	.....	2.0	13.0	19.6	19.0	19.7	14.1	9.8	2.5	0.3	.....
3	.....	3.82	3	.....	2.67		Proposed use.	1	.....	.....	.....	.....	10.0	14.0	21.0	21.0	18.0	16.0	.....	.....	.....
					2.50		Duty. † Desirable use.						2.0	10.0	16.0	20.0	20.0	18.0	10.0	4.0	.....
22	124,317	4.36	12	47,496	1.55	6	Measured use.	21	118,088	0.2	0.5	1.4	9.1	18.9	20.4	17.5	14.0	11.2	5.7	1.0	0.1	
4	1.68	7	1.61		Proposed use.															
					1.75		Duty. † Desirable use.						1.0	3.0	10.0	16.0	18.0	16.0	11.0	6.0	1.0
290	16,314,890	2.66	120	2,754,012	2.24	7	Measured use.	263	9,303,581	1.6	2.5	7.4	16.1	23.7	22.1	13.5	5.6	2.5	2.2	1.6	1.3	
41	.....	2.59	46	.....	2.17		Proposed use.	24	.....	0.3	1.2	5.7	11.7	16.4	18.7	16.7	12.9	10.5	3.6	2.1	0.2
					2.00		Duty. † Desirable use.						2.0	5.0	11.0	17.0	18.0	15.0	10.0	4.0	.....
			4	3,325	1.14	8	Measured use.	3	1,325	4.3	5.5	7.1	7.0	7.7	10.0	12.5	11.6	7.7	8.0	13.0	5.6	
1	2.50					Proposed use.															
					1.75		Duty. † Desirable use.						2.0	5.0	11.0	17.0	18.0	15.0	10.0	4.0		

REMARKS: * See page 26 and map, Plate V.
 † Average measured use is computed, weighting each use by the area it represents.
 (a) An item in the records consists of: for measured use, the data for one year; for proposed use, one proposal for future practice.
 (b) Aggregate area is the summation of acreage for all years of record and for all systems listed in this section; includes any repetition of the same acreage for ensuing years.

WATER RESOURCES OF CALIFORNIA.
TABLE 10.

6. ALPHABETICAL INDEX TO IRRIGATION SYSTEMS LISTED IN TABLES 8 AND 9 OF USE OF WATER.

System or locality.	Data.			Page index.		Section and key letter.	System or locality.	Data.			Page index.	
	G	N	M	Measured.	Proposed.			G	N	M	Measured.	Proposed.
A												
Amador Canal.....			x	147		2-B	Banning Water Company.....		x	x	129	
Amador County Water District.....		x	x	157		7-C <i>p</i>	Banta-Carbona Irrigation District.....	x	x	x	173	
Antonia Mutual Water Company.....	x			160-162		1-H	Banta Ditch Association.....		x		122	
Arroyo Canal.....	x		x	144		1-P	Bear Valley Mutual Water Company.....	x	x	x	126	
Baugh Irrigation District.....	x	x	x	151		14-O	Bear River Water Company.....	x	x		166	
Baugh Irrigation District.....	x	x	x		176	1-K	Beardslee Water Ditch Company.....		x	x	123	
Banta Irrigation District.....	x		x	146		7-Y	Beardsley Canal.....	x	x	x	153	
Banta Loma Mutual Water Company.....		x		125		2-B	Beaumont Irrigation District.....	x	x	x	129	
Banta Mutual Water Company.....				117		1-E	Bell Water Company.....		x		120	
Barstow: Pit River Valleys near—		x		169		7-S	Beta Main Canal.....			x	147	
Berkeley Canyon Water Company.....		x		167		5-D	Big Pine Canal: Owens River and—	x			138	
Berkeley Seedless Raisin Company.....		x	x	144		16-G <i>p</i>	Big Valley, Lassen County.....		x	x	182	
Berkeley Seedless Raisin Company.....		x			174	5-C	Bishop Creek Association.....	x			138	
Berkeley Water Company.....	x	x	x	128		5-C	Bishop Creek Canal.....	x		x	138	
Bidwell Canal.....	x	x	x	152		5-C <i>p</i>	Bishop Creek Canal.....	x	x	x	172	
Bidwell-Cottonwood Irrigation District.....	x	x	x		177	7-M	Blythe Canal.....	x			145	
Blackfoot Land, Water & Power Company.....		x		137		8-C	Boston Land Company.....		x		157	
Black irrigated from Deer Creek.....	x			151		1-H	Boulevard Water Company.....			x	122	
Black irrigated from White River.....	x			151		7-L	Brown Slough.....			x	144	
Bloomington Ditch and Water Company.....		x	x	122		14-J	Browns Valley Canal.....		x		166	
Bonanza Colony.....		x			176	14-J <i>p</i>	Browns Valley Irrigation District.....		x	x	180	
Bonanza Ditch.....	x	x		118		7-Z	Buena Vista Canal.....	x	x	x	156	
Bverage of 18 mutual water companies.....		x		131		7-U	Burton Ditch.....	x			151	
Bverage of 56 mutual water companies.....		x		131		7-C	Byron-Bethany Irrigation District.....			x	140	
Buena Vista Irrigation Company.....		x	x	123		7-C <i>p</i>	Byron-Bethany Irrigation District.....	x	x		173	
B							C					
Blackcock, Soule and Martin Canal.....	x		x	168		2-B	Cabazon Water Company.....		x	x	129	
Blackwell Park Water Company.....		x		122		1-G	California Domestic Water Company.....	x	x		121	
Blackwell Irrigation Association.....		x	x	120		1-F	California-Michigan Land & Water Co.....		x		121	
Blackwell Heights Mutual Water Company.....		x	x	129		7-J <i>p</i>	California Packing Corporation.....		x		175	
						7-X	Calloway Canal.....	x	x	x	152	
						1-B	Camulos Ditch.....	x	x	x	118	
						1-M	Canyon Water Company.....		x	x	124	
						1-U	Capistrano Water Company.....		x	x	129	

x" in columns under G, N, or M indicates whether the collected data consists of Gross annual use, Net annual use, or Monthly use. (p) Indicates data on proposed use. Lines not marked with x indicate data on measured use.

F. J. Safluy

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STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

REPORTS OF THE
DIVISION OF WATER RESOURCES
EDWARD HYATT, State Engineer

BULLETIN No. 23

REPORT

OF

SACRAMENTO-SAN JOAQUIN
WATER SUPERVISOR

For the Period 1924-1928

HARLOWE M. STAFFORD,
Water Supervisor



CALIFORNIA STATE PRINTING OFFICE
SACRAMENTO, 1930

68336

TABLE 93
DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER, 1924

Water user	*Mile and bank	Number and size of pump	Monthly diversions in acre-feet								Total diversion March to October, acre-feet	Acreage irrigated	
			March	April	May	June	July	August	September	October			
East Contra Costa Irrigation Co.**-----	36.5 L	2-30, 1-18, 1-24	2,650	4,070	3,640	3,680	2,910	2,930	1,570	421	21,871	5,156, 24,056, 11,044	
Byron-Bethany Irrigation District-----	40.9 L	1-26, 1-30	2,700	1,450	3,860	3,740	4,270	3,050	2,250	429	21,749		7,500
West Side Irrigation District-----	47.65L	7-15	4,400	3,830	4,200	4,040	4,180	3,930	3,820	1,900	30,300		8,834
Naglee-Burk Irrigation District-----	50.4 L	1-16, 1-18	570	961	900	974	1,100	935	687	883	6,960		2,600
Totals-----			10,320	10,311	12,600	12,434	12,460	10,845	8,277	3,633	80,880	29,190	

*Distance along the river from its mouth $4\frac{1}{2}$ miles below Antioch. Mileage as established by War Department Survey of 1913-15.
**Water diverted and delivered by East Contra Costa Irrigation Co. to the three Irrigation Districts—Brentwood Irrigation District, Knightsen Irrigation District, Lone Tree Irrigation District.

TABLE 94
DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER, 1925

Water user	*Mile and bank	Number and size of pump	Monthly diversions in acre-feet							Total diversion April to October, acre-feet	Acreage irrigated
			April	May	June	July	August	September	October		
East Contra Costa Irrigation Company ¹ -----	36.5 L	2-30, 1-24, 1-18	127	1,174	3,642	4,962	3,965	2,247	432	16,549	212,000
Byron-Bethany Irrigation District-----	40.9 L	1-26, 1-30		1,050	3,627	4,094	3,441	1,857	118	14,187	9,000
West Side Irrigation District-----	47.65L	7-15	1,610	4,452	4,651	5,887	5,648	4,247	1,797	28,292	11,077
Naglee-Burk Irrigation District-----	50.4 L	1-16, 1-18		654	1,313	1,321	908	1,053		5,249	2,600
Totals-----			1,737	7,330	13,233	16,264	13,962	9,404	2,347	64,277	34,677

* Distance along the river from its mouth $4\frac{1}{2}$ miles below Antioch. Mileage as established by War Department Survey of 1913-15.
¹ The diversions by this company are for the Brentwood, Knightsen and Lone Tree Irrigation Districts.
* Combined area irrigated by Brentwood, Knightsen and Lone Tree Irrigation Districts.
² To junction of Old River and Indian Slough. Pumping plant is located $2\frac{1}{2}$ miles west along Indian Slough.
³ To junction of Old River and Italian Slough. Pumping plant is located $2\frac{3}{4}$ miles southwest along Italian Slough and extension cut.
⁴ To junction of Old River with intake cut. Pumping plant is located one mile south along intake cut.

11-63336

WATER SUPERVISOR'S REPORT, 1924-1928

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TABLE 95
DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER, 1926

Water user	*Mile and bank	Number and size of pump	Monthly diversions in acre-feet							Total diversion April to October, acre-feet	Acreage irrigated
			April	May	June	July	August	September	October		
East Contra Costa Irrigation District.....	36.5 L	2-30, 1-24, 1-18	493	4,233	5,422	5,223	5,039	3,823	706	24,939	14,800
Byron-Bethany Irrigation District.....	40.9 L	1-26, 1-30	1,368	4,029	4,685	4,406	3,180	2,665	243	20,576	8,976
West Side Irrigation District.....	47.65L	7-15	2,471	6,030	6,212	6,119	6,068	5,022	1,080	33,002	11,104
Nagle-Burk Irrigation District.....	50.4 L	1-18, 1-16	108	1,234	1,101	942	996	866	122	5,369	2,600
Totals.....			4,440	15,526	17,420	16,690	15,283	12,376	2,151	83,886	37,480

- * Distance along the river from its mouth $4\frac{1}{2}$ miles below Antioch. Mileage as established by War Department Survey of 1913-15.
- ¹ Formerly East Contra Costa Irrigation Company pumping water to Brentwood, Knightsen and Lone Tree Irrigation Districts, now combined into one district.
- ² To junction of Old River and Indian Slough. Pumping plant is located $2\frac{1}{2}$ miles west along Indian Slough.
- ³ To junction of Old River and Italian Slough. Pumping plant is located $2\frac{3}{4}$ miles southwest along Italian Slough and extension cut.
- ⁴ To junction of Old River with intake cut. Pumping plant is located one mile south along intake cut.

TABLE 96
DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER, 1927

Water user	*Mile and bank	Number and size of pump	Monthly diversions in acre-feet							Total diversion March to October, acre-feet	Acreage irrigated	
			March	April	May	June	July	August	September			October
East Contra Costa Irrigation District.....	36.5 L	2-30, 1-24, 1-18		343	4,972	5,424	4,628	4,477	3,015	1,507	24,366	14,000
Byron-Bethany Irrigation District.....	40.9 L	1-26, 1-30			4,492	3,235	3,850	3,014	1,989	157	16,737	9,000
West Side Irrigation District.....	47.65L	7-15	89	1,466	5,683	5,102	5,045	4,151	3,478	743	25,748	10,416
N. E. and John Welty (T. B. Silva) ²	48.7 L	1-8		6	17	12	6		25		66	79
Nagle-Burke Irrigation District.....	50.4 L	1-18, 1-16			1,148	985	723	1,009	890	97	4,852	1,856
Totals.....			80	1,815	16,312	14,758	14,252	12,651	9,398	2,504	71,769	35,351

- * Distance along the river from its mouth $4\frac{1}{2}$ miles below Antioch. Mileage as established by War Department survey of 1913-15.
- ¹ To junction of Old River and Indian Slough. Pumping plant is located $2\frac{1}{2}$ miles west along Indian Slough.
- ² Approximately. Exact area not determined by district.
- ³ To junction of Old River and Italian Slough. Pumping plant is located $2\frac{3}{4}$ miles southwest along Italian Slough and extension cut.
- ⁴ To junction of Old River with intake cut. Pumping plant is located one mile south along intake cut.
- ⁵ This plant has not been listed previously, but information was obtained to the effect that it was operated in 1926 for the same area—not operated 1924 or 1925—operated prior to 1924.

TABLE 97
DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER, 1928

Water user	*Mile and bank	Number and size of pump	Monthly diversions in acre-feet							Total diversion April to October, acre-feet	Acreage irrigated
			April	May	June	July	August	September	October		
East Contra Costa Irrigation District.....	136.5 L	2-30, 1-24, 1-18	1,519	6,827	6,350	5,830	5,003	3,128	1,291	29,948	15,160
Byron-Bethany Irrigation District.....	240.9 L	1-26, 1-30	335	4,177	3,426	3,376	3,556	1,640	264	16,774	10,500
Joe F. Costa ¹	45.2 L	1- 8	-----	15	20	4	11	6	7	63	50
E. H. Stevenson (Ray Brothers) ²	45.8 L	1-12	24	-----	55	27	52	18	7	183	70
H. Lindeman ³	47.2 L	1-12	82	172	122	144	122	107	92	841	300
West Side Irrigation District.....	47.65 L	7-15	1,298	4,370	3,464	3,544	3,392	3,073	917	20,058	10,699
N. E. and John Welty (T. B. Silva).....	48.7 L	1- 8	-----	26	24	29	29	9	-----	117	70
Naglee-Burke Irrigation District.....	50.4 L	1-18, 1-16	172	1,234	1,202	1,173	1,148	1,031	82	6,042	2,057
Freemont Irrigation Association ⁷	50.9 L	1-14	-----	74	374	313	353	137	19	1,270	900
Labrucherie, Platti and Smallpage ⁷	52.4 L	1-10	-----	-----	-----	86	35	36	-----	157	118
Totals.....	-----	-----	3,430	16,895	15,037	14,526	13,701	9,185	2,679	75,453	39,924

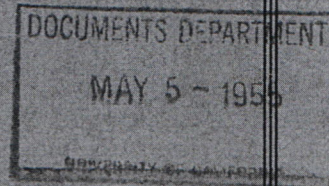
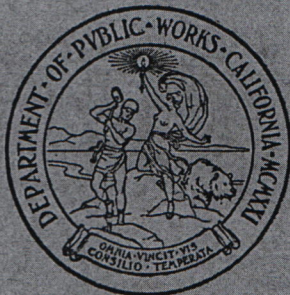
- * Distance along the river from its mouth $4\frac{1}{2}$ miles below Antioch. Mileage as established by War Department survey of 1913-15.
- ¹ To junction of Old River and Indian Slough. Pumping plant is located $2\frac{1}{2}$ miles west along Indian Slough.
- ² To junction of Old River and Italian Slough. Pumping plant is located $2\frac{3}{4}$ miles southwest along Italian Slough and extension cut.
- ³ Reported for first time in 1928. Has probably operated in previous years.
- ⁴ To junction of Old River with intake cut. Pumping plant is located one mile south along intake cut.
- ⁶ 64 acre-feet additional were diverted in March.
- ⁶ Includes 107 acres of rice.
- ⁷ New installation 1928.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

REPORTS OF THE
DIVISION OF WATER RESOURCES
EDWARD HYATT, STATE ENGINEER

SACRAMENTO-SAN JOAQUIN
WATER SUPERVISOR'S
REPORT
FOR YEAR
1929

HARLOWE M. STAFFORD
WATER SUPERVISOR



SACRAMENTO, CALIFORNIA
JUNE 1, 1930

TABLE 23

DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER

Water User	*Mile and Bank	:Number: and Size: of Pump:	Monthly Diversions in Acre-feet								Total :Diversion: :April to :October :Acre-feet:	Acreage Irrigated
			Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.			
East Contra Costa Irrigation District	36.5 (1)	L : 2-30" : 1-24" : 1-18"	4493	5417	4203	5351	4888	3522	1665	29539	14939	
Byron-Bethany Irrigation District	40.9 (2)	L : 1-26" : 1-30"	2867	3131	1619	3094	2662	2188	409	15970	9181	
Joe F. Costa	45.2	L : (3) 1-7"	15	12	12	54	48	4		145	30	
E. H. Stevenson (Ray Bros.)	45.8	L : 1-12"	43	8		12	48			111	110	
H. Lindeman	47.2	L : 1-12"	35	20	59	16	42	31	5	208	75	
Kooyman Bros. (4)	47.2	L : 1-10"	5	96	71	192	139	116	32	651	100	
West Side Irrigation District	47.65 (5)	L : 7-15"	4566	2868	2047	4054	3985	2493	839	20852	10107	
N. E. and John Welty (T. B. Silva)	48.7	L : 1-8"	17	23	34	30	17			121	80	
Naglee-Burke Irrigation District	50.4	L : 1-16" : 1-13"	596	1160	543	1470	1014	961	439	6183	2127	
Freemont Irrigation Ass'n.	50.9	L : 1-14"	318	423	243	410	269	150		1813	500	
Labrucherie, Platti and Smallpage	52.4	L : 1-10"	22	12	63	52	31			180	110	
Totals			12977	13170	8894	14735	13143	9465	3389	75773	37359	

* Distance along the river from its mouth $4\frac{1}{2}$ miles below Antioch. Mileage as established by War Department Survey of 1913-15.

- (1) To junction of Old River and Indian Slough. Pumping plant is located $2\frac{1}{2}$ miles west along Indian Slough.
- (2) To junction of Old River and Italian Slough. Pumping plant is located $2\frac{3}{4}$ miles southwest along Italian Slough and extension cut.
- (3) Formerly listed as 8".
- (4) New installation 1929.
- (5) To junction of Old River with intake cut. Pumping plant is located one mile south along intake cut.

SACRAMENTO-SAN JOAQUIN WATER SUPERVISOR'S REPORT 1929

MODESTO IRRIGATION DISTRICT

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

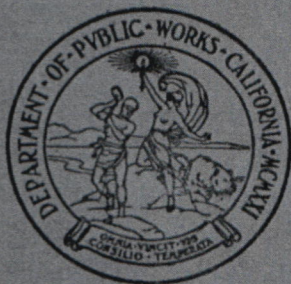
REPORTS OF THE
DIVISION OF WATER RESOURCES
EDWARD HYATT, State Engineer

SACRAMENTO-SAN JOAQUIN
WATER SUPERVISOR'S
REPORT

FOR YEAR
1930

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HARLOWE M. STAFFORD
WATER SUPERVISOR



SACRAMENTO, CALIFORNIA
AUGUST, 1931

TABLE 23

DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER

Water User	*Mile and Bank	: Number: and size of pump	Monthly Diversions in Acre-feet							Total :	
			Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	: Diversion: April to October : Acre-feet;	: Acreage Irrigated
East Contra Costa Irrigation District	36.5 (1)	L : 2-30" : 1-24"	1520	7070	5783	5481	5019	2613	1314	28800	13929
Byron-Bethany Irrigation District	40.9 (2)	L : 1-26" : 1-30"	273	3198	3387	3276	3071	2787	569	16561	9200
Joe F. Costa	45.2	L : 1-7"		88	4	1				93	50
E. H. Stevenson (Ray Bros.)	45.8	L : 1-12"									
H. Lindeman	47.2	L : 1-12"	5	49	189	156	101	12	1	513	75
A. F. Noonis (3)	47.2	L : 1-10"	3	49	33	176				261	47
West Side Irrigation District	47.65 (4)	L : 7-15"	3334	3472	3260	4364	3449	1761	653	20293	10147
M. E. and John Welty (T.B. Silva)	48.7	L : 1-8"	35		21	23	14	28		121	70
Naglee-Burke Irrigation District	50.4	L : 1-16" : 1-18"	389	926	1342	1446	1060	1007	446	6616	2157
Freemont Irrigation Ass'n.	50.9	L : 1-14"	65	265	421	353	230	304		1638	634
Labrucherie, Platti and Smallpage	52.4	L : 1-10"		35	48	13	14	23	36	169	171
Totals			5624	15152	14488	15289	12958	8535	3019	75065	36480

SACRAMENTO-SAN JOAQUIN WATER SUPERVISOR'S REPORT 1930

* Distance along the river from its mouth four and one-half miles below Antioch. Mileage as established by War Department Survey of 1913-15.

1) To junction of Old River and Indian Slough. Pumping plant is located 2 1/2 miles west along Indian Slough.

2) To junction of Old River and Italian Slough. Pumping plant is located 2 3/4 miles southwest along Italian Slough and extension cut.

3) Formerly Kooyman Brothers.

4) To junction of Old River with intake cut. Pumping plant is located one mile south along intake cut.

TABLE 23

DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER

Water User	*Mile and Bank	Number: and size of pump	Monthly Diversions in Acre-feet							Total : : Diversion: : April to : : October : : Irrigated : : Acre-feet:	Total : : Acreage : : Irrigated : : Acre-feet:
			Avr.	May	Jun.	Jul.	Aug.	Sep.	Oct.		
East Contra Costa Irrigation District	36.5 (1)	2-30"	1520	7070	5783	5481	5019	2613	1314	28800	13929
Byron-Bethany Irrigation District	40.9 (2)	1-18"	273	3198	3387	3276	3071	2787	569	16561	9200
Joe F. Costa	45.2	1-30"		88	4	1				93	50
E. H. Stevenson (Ray Bros.)	45.8	1-7"									
H. Lindeman	47.2	1-12"	5	49	189	156	101	12	1	513	75
A. F. Moonis (3)	47.2	1-10"	3	49	33	176				261	47
West Side Irrigation District	47.65 (4)	7-15"	3334	3472	3260	4364	3449	1761	653	20293	10147
W. E. and John Welty (T.B. Silva)	48.7	1-8"	35		21	23	14	28		121	70
Maglee-Burke Irrigation District	50.4	1-16"	389	926	1342	1446	1060	1007	446	6616	2157
Freemont Irrigation Ass'n.	50.9	1-18"	65	265	421	353	230	304		1638	634
Labrucharie, Platti and Smalipage	52.4	1-14"		35	48	13	14	23	36	169	171
Totals			5624	15152	14488	15289	12958	8535	3019	75065	36480

* Distance along the river from its mouth four and one-half miles below Antioch. Mileage as established by War Department Survey of 1913-15.

1) To junction of Old River and Indian Slough. Pumping plant is located 2 1/2 miles west along Indian Slough.

2) To junction of Old River and Italian Slough. Pumping plant is located 2 3/4 miles southwest along Italian Slough.

3) Formerly Kooyman Brothers.

4) To junction of Old River with intake cut. Pumping plant is located one mile south along intake cut.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

PUBLICATIONS OF THE
DIVISION OF WATER RESOURCES
EDWARD HYATT, State Engineer

Bulletin 23

SACRAMENTO-SAN JOAQUIN
WATER SUPERVISOR'S
REPORT
FOR YEAR
1931

By
HARLOWE M. STAFFORD
Water Supervisor

Under the supervision of
HAROLD CONKLING
Deputy State Engineer

AUGUST, 1932



TABLE 38

DELTA UPLANDS DIVERSIONS FROM CACHE SLOUGH

WATER USER	MILE AND BANK	NUMBER AND SIZE OF PUMP	MONTHLY DIVERSIONS IN ACRE-FEET								TOTAL DIVERSION: APRIL TO OCTOBER ACRE-FEET	ACREAGE IRRIGATED
			MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.		
RECREATION DISTRICT NO. 2068	SW 1/4 NE 1/4 SEC. 34 T 6 N. R 1 E.	1-36" 1-30"		1681	2372	2554	2097	535			9239	3690

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TABLE 39

DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER

WATER USER	*MILE AND BANK	NUMBER AND SIZE OF PUMP	MONTHLY DIVERSIONS IN ACRE-FFET								TOTAL DIVERSION: APRIL TO OCTOBER ACRE-FEET	** ACREAGE IRRIGATED
			MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.		
EAST CONTRA COSTA IRRIGATION DISTRICT	36.5 L (1)	2-30" 1-24" 1-18"	2717	6387	5423	3224	5383	3596	227	17	26974	13357
BYRON-BETHANY IRRIGATION DISTRICT (2)	40.9 L	1-18" 1-26" 1-30"	1176	3485	1888	2469	2847	2652	1139	140	15796	7853
JOE F. COSTA	(3) 44.6 L	1-7"					58				58	20
E. H. STEVENSON (RAY BROS.)	(4) 45.3 L	1-12"		80			39	63			182	111
H. LINDEMAN	47.2 L	1-12"	110	267	37	13	111	130			668	420
A. F. NOONIS	47.2 L	1-10"			42		22	81	32		177	47
WEST SIDE IRRIGATION DISTRICT	(5) 47.65 L	7-15"	1394	4900	2125	1958	3910	2808	1019	27	18141	9155
N. E. AND JOHN WELTY (T.B.SILVA)	48.7 L	1-8"		50	11	20	30		44		155	70
NAGLEE-BURKE IRRIGATION DISTRICT	50.4 L	1-16" 1-18"	257	1533	530	1183	1321	1045	913	202	6984	2421
FREMONT IRRIGATION ASSOCIATION	50.9 L	1-14"	81	372	314	279	329	371	119		1865	662
ATTILIO CASSERINI (6)	51.2 L	1-8"				20		23			43	36
LABRUCHERIE, PLATTI AND SMALLPAGE	52.4 L	1-10"		25	30	79	75	85	29	3	326	80
-- TOM PAINE SLOUGH --	MILE 54.3											
TOTALS			5735	17099	10400	9245	14125	10854	3522	389	71369	34232

* DISTANCE ALONG THE RIVER FROM ITS MOUTH FOUR AND ONE-HALF MILES BELOW ANTIOCH. MILEAGE AS ESTABLISHED BY WAR DEPARTMENT SURVEY OF 1913-15.

** ALL GENERAL CROPS. NO RICE.

- (1) TO JUNCTION OF OLD FIVER AND INDIAN SLOUGH. PUMPING PLANT IS LOCATED TWO AND ONE-HALF MILES WEST ALONG INDIAN SLOUGH.
- (2) TO JUNCTION OF OLD RIVER AND ITALIAN SLOUGH. PUMPING PLANT IS LOCATED TWO AND THREE-FOURTHS MILES SOUTHWEST ALONG ITALIAN SLOUGH AND EXTENSION CUT.
- (3) CORRECTED MILEAGE. PREVIOUSLY REPORTED AS MILE 45.2 LEFT. PLANT IS ON CUT WHICH JOINS RIVER AT MILE 44.6 LEFT.
- (4) CORRECTION. PREVIOUSLY REPORTED AS 45.8 LEFT.
- (5) TO JUNCTION OF OLD FIVER WITH INTAKE CUT. PUMPING PLANT IS LOCATED ONE MILE SOUTH ALONG INTAKE CUT.
- (6) NEW INSTALLATION 1931.



UNIVERSITY OF CALIFORNIA
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JUNE, 1933

Under the supervision of
HAROLD CONKLING
Deputy State Engineer

By
HARLOWE M. STAFFORD
Water Supervisor

1932
FOR YEAR
REPORT
WATER SUPERVISOR'S
SACRAMENTO-SAN JOAQUIN

PUBLICATIONS OF THE
DIVISION OF WATER RESOURCES
EDWARD HYATT, State Engineer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

Handwritten initials and a checkmark.

TABLE 36

DELTA UPLANDS DIVERSIONS FROM CACHE SLOUGH

WATER USER	LOCATION	NUMBER AND SIZE OF PUMP	MONTHLY DIVERSIONS IN ACRE-FEET								TOTAL DIVERSION: MARCH TO OCTOBER ACRE-FEET	** ACREAGE IRRIGATED
			MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.		
RECLAMATION DISTRICT NO. 2068	SW 1/4 NE 1/4 SEC. 34 T 6 N R 1 E	1-36" 1-30"	334	964	1655	1928	1744	1764	1400	1305	11094	3715

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TABLE 37

DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER

WATER USER	*MILE AND BANK	NUMBER AND SIZE OF PUMP	MONTHLY DIVERSIONS IN ACRE-FEET								TOTAL DIVERSION: MARCH TO OCTOBER ACRE-FEET	** ACREAGE IRRIGATED
			MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.		
EAST CONTRA COSTA IRRIGATION DISTRICT	36.5 L (1)	2-30" 1-24" 1-18"	184	968	4307	3740	3498	3032	2378	1402	19509	10615
BYRON-BETHANY IRRIGATION DIST.	40.9 L (2)	1-30" 1-26"	112	1076	2199	2114	2019	1903	1346	384	11153	8150
JOE SANTOS (3)	44.6 L (4)	1-7"				NO DIVERSION						
E. H. STEVENSON	45.3 L	1-12"			23		9	7			39	30
H. LINDEMAN	47.2 L	1-12"			39	66	74	21			200	90
A. F. NOONIS	47.2 L	1-10"				NO DIVERSION						
WEST SIDE IRRIGATION DISTRICT	(5) 47.65 L	7-15"		2477	1620	1857	2734	1966	872	318	11844	6039
N. E. AND JOHN WELTY (T.B.SILVA)	48.7 L	1-8"		28	5	29	23	27	36		148	60
NAGLEE-BURKE IRRIGATION DIST.	50.4 L	1-16" 1-18"		676	835	1078	1029	1029	838	508	5993	2170
FREMONT IRRIGATION ASSOCIATION	50.9 L	1-14"		173	257	358	384	323	211	4	1710	636
ATTILIO CASSERINI	51.2 L	1-8"		14		16		13	12		55	36
LABRUCHERIE & CORBARI (6)	52.4 L	1-10"		48	33	85	33	58	25	20	302	116
— TOM PAINE SLOUGH — MILE 54.3												
TOTALS			296	5460	9318	9343	9803	8379	5718	2636	50953	27942

* DISTANCE ALONG THE RIVER FROM ITS MOUTH FOUR AND ONE-HALF MILES BELOW ANTIOCH. MILEAGE AS ESTABLISHED BY WAR DEPARTMENT SURVEY OF 1913-15.

** ALL GENERAL CROPS. NO RICE.

- (1) TO JUNCTION OF OLD RIVER AND INDIAN SLOUGH. PUMPING PLANT IS LOCATED TWO AND ONE-HALF MILES WEST ALONG INDIAN SLOUGH.
- (2) TO JUNCTION OF OLD RIVER AND ITALIAN SLOUGH. PUMPING PLANT IS LOCATED TWO AND THREE-FOURTHS MILES SOUTHWEST ALONG ITALIAN SLOUGH AND EXTENSION CUT.
- (3) FORMERLY JOE F. COSTA.
- (4) PLANT IS ON CUT WHICH JOINS RIVER AT MILE 44.6 LEFT.
- (5) TO JUNCTION OF OLD RIVER WITH INTAKE CUT. PUMPING PLANT IS LOCATED ONE MILE SOUTH ALONG INTAKE CUT.
- (6) FORMERLY LABRUCHERIE-PLATTI AND SMALLPAGE.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

PUBLICATIONS OF THE
DIVISION OF WATER RESOURCES
EDWARD HYATT, State Engineer

SACRAMENTO-SAN JOAQUIN
WATER SUPERVISOR'S
REPORT

FOR YEARS
1933 and 1934

JUNE, 1935



TABLE 70
DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER-1933

WATER USER	*MILE AND BANK	NUMBER AND SIZE OF PUMP	MONTHLY DIVERSIONS IN ACRE-FEET								TOTAL DIVERSION: MARCH TO OCTOBER ACRE-FEET	** ACREAGE IRRIGATED
			MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.		
EAST CONTRA COSTA IRRIGATION DISTRICT	36.5 (1) L	2-30" 1-24" 1-18"	465	3809	4115	4389	4521	4349	2444	1716	25808	11896
BYRON-BETHANY IRRIGATION DISTRICT	40.9 (2) L	1-30" 1-26" 1-7"		2135	2400	2035	1798	2200	1375	748	12691	4800
JOE SANTOS	(3) 44.6 L	1-7"			23	8					31	5
E. H. STEVENSON	45.3 L	1-12"	14	46							60	100
H. LINDEMAN	47.2 L	1-12"		229	68	141	91	94	49	34	706	(4) 320
A. F. NOONIS	47.2 L	1-10"										
WEST SIDE IRRIGATION DISTRICT	(5) 47.65 L	7-15"		2826	2438	2109	3112	2174	1040	570	14269	7796
LANGEMAN AND FROESE (6)	48.7 L	1-8"	9	6	33	29	28	28	8		141	75
NAGLEE BURKE IRRIGATION DISTRICT	50.4 L	1-16" 1-18"		833	906	1025	933	1128	900	279	6004	2000
FREMONT IRRIGATION ASSOCIATION	50.9 L	1-14"		224	315	296	400	421	248	116	2020	649
ATTILIO CASSERINI	51.2 L	1-8"			10	8	8	8			34	35
EXCELSIOR RANCH (7)	52.4 L	1-10"		6	43	52	47	12	18		178	(8) 175
— TOM PAINE SLOUGH — MILE 54.3												
TOTALS			488	10114	10351	10092	10938	10414	6082	3463	61942	27851

* DISTANCE ALONG THE RIVER FROM ITS MOUTH FOUR AND ONE-HALF MILES BELOW ANTIOCH. MILEAGE AS ESTABLISHED BY WAR DEPARTMENT SURVEY OF 1913-15.

- ** ALL GENERAL CROPS. NO RICE.
- (1) TO JUNCTION OF OLD RIVER AND INDIAN SLOUGH. PUMPING PLANT IS LOCATED TWO AND ONE-HALF MILES WEST ALONG INDIAN SLOUGH.
 - (2) TO JUNCTION OF OLD RIVER AND ITALIAN SLOUGH. PUMPING PLANT IS LOCATED TWO AND THREE-FOURTHS MILES SOUTHWEST ALONG ITALIAN SLOUGH AND EXTENSION CUT.
 - (3) PLANT IS ON CUT WHICH JOINS RIVER AT MILE 44.6 LEFT.
 - (4) INCLUDES 70 ACRES FOR KIRKMAN NURSERY.
 - (5) TO JUNCTION OF OLD RIVER WITH INTAKE CUT. PUMPING PLANT IS LOCATED ONE MILE SOUTH ALONG INTAKE CUT.
 - (6) FORMERLY N. E. AND JOHN WELTY.
 - (7) FORMERLY LISTED AS LABRUCHERIE AND CORBARI.
 - (8) INCLUDES 56 ACRES ON STINSON ESTATE (SEE TOM PAINE SLOUGH, MILE 0.7 SOUTH).

SACRAMENTO-SAN JOAQUIN WATER SUPERVISOR'S REPORT 1933-1934

TABLE 71
DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER-1934

WATER USER	*MILE AND BANK	NUMBER AND SIZE OF PUMP	MONTHLY DIVERSIONS IN ACRE-FEET								TOTAL DIVERSION: MARCH TO OCTOBER ACRE-FEET	** ACREAGE IRRIGATED
			MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.		
EAST CONTRA COSTA IRRIGATION DISTRICT	36.5 (1) L	2-30" 1-24" 1-18"	896	6163	5595	3946	5700	4273	2141	742	29456	13760
BYRON-BETHANY IRRIGATION DISTRICT	40.9 (2) L	1-30" 1-26"	820	2743	1791	1502	2205	1883	1165	571	12680	4780
JOE SANTOS	(3) 44.6 L	1-7"		50	45	72	11	10	15		203	50
E. H. STEVENSON	45.3 L	1-12"		74			2				76	100
H. LINDEMAN	47.2 L	1-12"	77	48	22	22	12	23	12		216	(4) 285
A. F. NOONIS	47.2 L	1-10"			N O	D I	V E	R S:	1 O	N		
WEST SIDE IRRIGATION DISTRICT	(5) 47.65 L	7-15"	1301	4021	2020	1673	3383	2330	1272	1526	17526	8074
LANGEMAN AND FROESE	48.7 L	1-8"			13	13	20	25	20		91	75
NAGLEE-BURKE IRRIGATION DISTRICT	50.4 L	1-16" 1-18"	110	1300	565	1060	1060	1000	895	176	6166	2000
FREEMONT IRRIGATION ASSOCIATION	50.9 L	1-14"		253	224	319	340	304	271		1711	455
JOE FREITAS (6)	51.0 L	1-8"				2	7		2		11	10
ATTILIO CASSERINI	51.2 L	1-8"			8	11	10	6	2		37	25
EXCELSIOR RANCH	52.4 L	1-10"		35	38	88	77	92	22	4	356	(7) 178
— TOM PAINE SLOUGH — MILE 54.3												
TOTALS			3204	14687	10321	8708	12827	9946	5817	3019	68529	29792

* DISTANCE ALONG THE RIVER FROM ITS MOUTH FOUR AND ONE-HALF MILES BELOW ANTIOCH. MILEAGE AS ESTABLISHED BY WAR DEPARTMENT SURVEY OF 1913-15.

** ALL GENERAL CROPS. NO RICE.

- (1) TO JUNCTION OF OLD RIVER AND INDIAN SLOUGH. PUMPING PLANT IS LOCATED TWO AND ONE-HALF MILES WEST ALONG INDIAN SLOUGH.
- (2) TO JUNCTION OF OLD RIVER AND ITALIAN SLOUGH. PUMPING PLANT IS LOCATED TWO AND THREE-FOURTHS MILES SOUTHWEST ALONG ITALIAN SLOUGH AND EXTENSION CUT.
- (3) PLANT IS ON CUT WHICH JOINS RIVER AT MILE 44.6 LEFT.
- (4) INCLUDES 70 ACRES FOR KIRKMAN NURSERY.
- (5) TO JUNCTION OF OLD RIVER WITH INTAKE CUT. PUMPING PLANT IS LOCATED ONE MILE SOUTH ALONG INTAKE CUT.
- (6) NEW INSTALLATION 1934.
- (7) INCLUDES 56 ACRES ON STINSON ESTATE (SEE TOM PAINE SLOUGH MILE 0.7 S).

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

PUBLICATIONS OF THE
DIVISION OF WATER RESOURCES
EDWARD HYATT, State Engineer

SACRAMENTO-SAN JOAQUIN
WATER SUPERVISION

REPORT FOR YEAR
1935



JUNE, 1936

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

PUBLICATIONS OF THE
DIVISION OF WATER RESOURCES
EDWARD HYATT, State Engineer

A. S. F.
SACRAMENTO-SAN JOAQUIN
WATER SUPERVISION

REPORT FOR YEAR
1935



JUNE, 1936

TABLE 38
DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER

WATER USER	*MILE AND BANK	NUMBER AND SIZE OF PUMP	MONTHLY DIVERSIONS IN ACRE-FEET								TOTAL DIVERSION MARCH TO OCTOBER ACRE-FEET	** ACREAGE IRRIGATED
			MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.		
EAST CONTRA COSTA IRRIGATION DISTRICT	36.5L (1)	2-30" 1-24" 1-18"		14	5123	6760	6168	4830	3303	781	26979	12775
BYRON-BETHANY IRRIGATION DISTRICT	40.9L (2)	1-30" 1-26"			2161	2785	2160	1845	1486	398	10835	4595
JOE SANTOS	(3) 44.6L	1-7"				10	13	13	10		46	10
E. H. STEVENSON	45.3L	1-12"			N O	D I V E R S I O N						
H. LINDEMAN	47.2L	1-12"					25	4	13		42	70
A. F. NOONIS	47.2L	1-10"			N O	D I V E R S I O N						
WEST SIDE IRRIGATION DISTRICT	(4) 47.65L	7-15"			2702	2628	3203	2216	1141	515	12405	8125
LANGEMAN AND FROESE	48.7L	1-8"			14	30	21	38	20		123	75
NAGLEE BURKE IRRIGATION DISTRICT	50.4L	1-16" 1-18"		5	779	845	945	880	720	319	4493	2000
FREMONT IRRIGATION ASSOCIATION	50.9L	1-14"			183	352	349	261	186	34	1365	500
JOE FREITAS	51.0L	1-8"					5	9	5		14	32
ATTILIO CASSERINI	51.2L	1-8"									5	5
EXCELSIOR RANCH — TOM PAINE SLOUGH — MILE 54.3	52.4L	1-10"	10	11	65	63	84	75	49	35	392	(5) 120
TOTALS			10	30	11027	13473	12973	10171	6933	2082	56699	28307

* DISTANCE ALONG RIVER FROM ITS MOUTH FOUR AND ONE-HALF MILES BELOW ANTIOCH. MILEAGE AS ESTABLISHED BY WAR DEPARTMENT SURVEY OF 1913-15.

** ALL GENERAL CROPS. NO RICE.

- (1) TO JUNCTION OF OLD RIVER AND INDIAN SLOUGH. PUMPING PLANT IS LOCATED TWO AND ONE-HALF MILES WEST ALONG INDIAN SLOUGH.
- (2) TO JUNCTION OF OLD RIVER AND ITALIAN SLOUGH. PUMPING PLANT IS LOCATED TWO AND THREE-FOURTHS MILES SOUTHWEST ALONG ITALIAN SLOUGH AND EXTENSION CUT.
- (3) PLANT IS ON CUT WHICH JOINS RIVER AT MILE 44.6 LEFT.
- (4) TO JUNCTION OF OLD RIVER WITH INTAKE CUT. PUMPING PLANT IS LOCATED ONE MILE SOUTH ALONG INTAKE CUT.
- (5) INCLUDES 50 ACRES ON STINSON ESTATE (SEE TOM PAINE SLOUGH MILE 0.7 S).

SACRAMENTO-SAN JOAQUIN RIVER SUPERSTITION REGION 1925

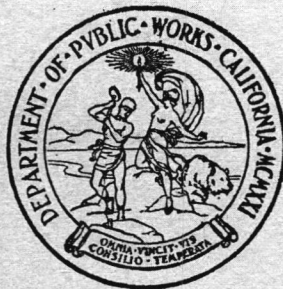
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STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

FRANK F. MERRIAM, Governor
EARL LEE KELLY, Director of Public Works

Bull. 23-36

DIVISION OF WATER RESOURCES
REPORT OF
SACRAMENTO - SAN JOAQUIN
WATER SUPERVISION
FOR YEAR
1936



MAY, 1937

TABLE 41

DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER

Water User	*Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-feet										Total	
			Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	March to October	** Acreage Irrigated		
East Contra Costa Irrigation District	36.5 (1)	L : 2-30" 1-24"	177	1528	6459	3785	6553	4241	3141	1397	27281	13058		
Byron-Bethany Irrigation District	40.9 (2)	L : 1-30" 1-26"	47	571	1870	1820	2437	2635	1343	1406	12129	6949		
Joe Santos	44.6 L(3)	1-7"			5	29	41	7	17		99	50		
E. H. Stevenson Estate	45.3 L	1-12"			N O	D I V E R S I O N					104	100		
H. Lindeman	47.2 L	1-12"								104	83	100		
A. F. Nunes (4)	47.2 L	1-10"			83						83	100		
West Side Irrigation District	47.6 L(5)	7-15"	165	2446	2735	1663	3985	1845	1433	1904	16176	7354		
Langeman and Froese	48.7 L	1-18"		18	28		41	40	13		140	75		
Naglee Burke Irrigation District	50.4 L	1-16"		635	770	974	977	808	735	367	5266	1838		
Freamont Irrigation Association	50.9 L	1-18" 1-14"	9	99	227	219	343	343	201	33	1474	513		
Joe Freitas	51.0 L	1-8"			8	9	8	5	3	1	34	30		
Attilio Casserini	51.2 L	1-8"			4	2	3	8	3		20	40		
Excelsior Ranch	52.4 L	1-10"	22	13	46	120	104	62	69	27	463	(6) 125		
-- TOM PAINE SLOUGH - MILE 54.3 --														
Totals			420	5310	12235	8621	14492	9994	6958	5239	63269	30232		

* Distance along river from its mouth $4\frac{1}{2}$ miles below Antioch. Mileage as established by War Department Survey of 1913-15.
 ** All general crops. No rice.
 (1) To junction of Old River and Indian Slough. Pumping plant is located two and one-half miles west along Indian Slough.
 (2) To junction of Old River and Italian Slough. Pumping plant is located two and three-fourths miles southwest along Italian Slough and extension out.
 (3) Plant is on cut which joins river at Mile 44.6 Left.
 (4) Formerly listed as A. F. Noonis.
 (5) To junction of Old River with Intake Cut. Pumping plant is located one mile south along Intake Cut.
 (6) Includes 50 acres on Stevinson Estate (See Tom Paine Slough Mile 0.7 S).

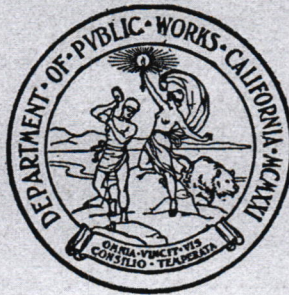
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STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

FRANK F. MERRIAM, Governor
EARL LEE KELLY, Director of Public Works
EDWARD HYATT, State Engineer

Bull. 23-37

REPORT OF
SACRAMENTO-SAN JOAQUIN
WATER SUPERVISION
FOR YEAR
1937



JULY, 1938

TABLE 41

DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER
1937

Water User	*Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-feet								Total Diversion: **	
			Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	March to October Acre-feet:	Acreeage Irrigated:
East Contra Costa Irrigation District	36.5L(1)	2-30" 1-24" 1-18"		381	5348	4784	5174	5480	2859	1350	25376	13642
Byron-Bethany Irrigation District	40.9L(2)	1-30" 1-26"		515	2865	2955	3175	2815	2225	1415	15965	7600
Joe Santos	44.6L(3)	1-7"				N O	D I V : E R S I : O N					
E. H. Stevenson Estate	45.3 L	1-12"				N O	D I V : E R S I : O N					
H. Lindeman	47.2 L	1-12"					107	147			254	220
Gus Lindeman (H. Lindeman) (4)	47.2 L	1-10"										
West Side Irrigation District	47.65L(5)	7-15"				N O	D I V : E R S I : O N					
George Froese (6)	48.7 L	1-8"		1684	3849	2035	3436	2265	838	1574	15681	7146
Naglee-Burke Irrigation District	50.4 L	1-16" 1-18"			17	52	21	23	17		130	75
Freemont Irrigation Association	50.9 L	1-14"			1037	950	1230	1066	880	470	5633	2449
Joe Freitas	51.0 L	1-8"			228	170	305	201	219	42	1165	586
Attilio Casserini	51.2 L	1-8"			7	2	8	11	4	2	34	30
Excelsior Ranch	52.4 L	1-10"			6	3	4	6	5		24	40
— TOM PAINE SLOUGH - MILE 54.3 —			3	41	61	35	90	67	53		350	(7) 125
Totals			3	2621	13418	11093	13590	11934	7100	4853	64612	31913

* Distance along river from its mouth $4\frac{1}{2}$ miles below Antioch. Mileage as established by War Department Survey of 1913-15.

** All general crops. No rice.

- (1) To junction of Old River and Indian Slough. Pumping plant is located two and one-half miles west along Indian Slough.
- (2) To junction of Old River and Italian Slough. Pumping plant is located two and three-fourths miles southwest along Italian Slough and extension cut.
- (3) Plant is on cut which joins river at Mile 44.6 Left.
- (4) Formerly A. F. Nunes.
- (5) To junction of Old River with Intake Cut. Pumping plant is located one mile south along Intake Cut.
- (6) Formerly Langeman and Froese.
- (7) Includes 50 acres on Stevinson Estate (See Tom Paine Slough, Mile 0.7 S).

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

—○—
CULBERT L. OLSON, Governor
FRANK W. CLARK, Director of Public Works
EDWARD HYATT, State Engineer

Bull. 23-38

REPORT OF
SACRAMENTO - SAN JOAQUIN
WATER SUPERVISION
FOR YEAR
1938



APRIL, 1939

TABLE 44

DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER-1938

Water User	*Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-feet								Total Diversion:	**
			Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	March to October Acre-feet:	Acreage Irrigated:
East Contra Costa Irrigation District	(1) 36.5 L	2-30"		417	2117	5684	3497	3599	2128	192	17634	12763
Byron-Bethany Irrigation District	40.9 L	1-24"									(2)	
	(3)	1-18"			1670	2297	2085	1840	1530	907	10329	7600
Joe Santos	(4) 44.6 L	1-30"										
E. H. Stevenson Estate	45.3 L	1-7"										
H. Lindeman	47.2 L	1-12"										
Gus Lindeman	47.2 L	1-12"							32	235	267	270
West Side Irrigation District	(5) 47.65 L	1-10"										
Noy Melty (Sehrt) (6)	48.7 L	7-15"	896	3172	1758	2742	1961	1262	1915	13706	6214	
Naglee Burke Irrigation District	50.4 L	1-8"			15	20	20	1	28		84	40
		1-16"										
		1-18"			1448	1809	1341	1158	933	308	6997	2074
Freemont Irrigation Association	50.9 L	1-14"			203	263	71	250	283	6	1076	507
Joe Freitas	51.0 L	1-8"			3	4	2	13		3	25	25
Attilio Casserini	51.2 L	1-8"				5	6				18	40
Excelsior Ranch	52.4 L	1-8"					6				7	40
TOM PAINE SLOUGH - MILE 54.3		1-10"				149	42	19	47		257	125
Totals			0	1313	8628	11989	9806	8841	6250	3566	50393	29658

* Distance along river from its mouth $4\frac{1}{2}$ miles below Antioch. Mileage as established by War Department Survey of 1913-15.

** All general crops. No rice.

(1) To junction of Old River and Indian Slough. Pumping plant is located two and one-half miles west along Indian Slough.

(2) An additional 3665 acre-feet pumped from wells and drains within district.

(3) To junction of Old River and Italian Slough. Pumping plant is located two and three-fourths miles southwest along Italian Slough and extension cut.

(4) Plant is on cut which joins river at Mile 44.6 Left.

(5) To junction of Old River with Intake Cut. Pumping plant is located one mile south along Intake Cut.

(6) Formerly George Froese.

JUNE, 1940



1939

FOR YEAR

WATER SUPERVISION

SACRAMENTO-SAN JOAQUIN

REPORT OF

Bull. 20-37

CILBERT L. OLSON, Governor
FRANK W. CLARK, Director of Public Works
EDWARD HYATT, State Engineer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

TABLE 64
DELTA UPLANDS DIVERSIONS FROM OLD SAN JOAQUIN RIVER-1939

Water User	*Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-feet								Total	**
			Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	March to October Acre-feet	Acres Irrigated
East Contra Costa Irr. Dist.	(1)36.5L	2-18" 1-24" 2-30"	2096	5819	4087	4749	6293	3916	1536	133	(2)28629	14931
Byron Bethany Irrigation Dist.	(3)40.9L	1-26" 1-30"	1943	2813	2245	2646	2611	2355	1345	193	16151	6586
Federal Land Bank (4)	(5)44.6L	1-7"				33					33	65
E. H. Stevenson Estate	45.3L	1-12"			NO	D I V E R S I O N						
H. Lindeman	47.2L	1-12"			105				90		195	(6) 200
Gus Lindeman	47.2L	1-10"			NO	D I V E R S I O N (7)					(7)	(7) 100
West Side Irrigation District	(8)47.65L	(8)7-15"	2930	3289	1847	2244	3037	2090	1049	869	17355	10100
Noy Walty	48.7L	1-8"		15	5	8	5	7	9		49	70
Naglee Burke Irrigation District	50.4L	1-16" 1-18"	664	681	139	2030	1138	1148	677	461	6938	(9)2157
Freemont Irrigation Association	50.9L	1-14"	90	205	283	242	293	255	228	13	1609	(10)547
Joe Freitas	51.0L	1-8"		5	5	5	6	6	8		35	35
Attilio Casserini	51.2L	1-8"		5		5	5	6	5		26	40
Excelsior Ranch #2	52.4L	1-10"	5	48	30	93	65	72	30		343	125
TOM PAINE SLOUGH - MILE 54.3-												
Totals			7728	12880	8746	12055	13453	9855	4977	1669	71363	34956
Average cubic feet per			126	216	142	203	219	160	84	27	147	
Monthly use in per cent of seasonal			10.6	18.0	12.3	16.9	18.9	13.8	7.0	2.3		

*Distance along river from its mouth $4\frac{1}{2}$ miles below Antioch. Mileage as established by War Department Survey of 1913-15.

**All general crops. No rice.

- (1) To junction of Old River and Indian Slough. Pumping plant is located two and one-half miles west along Indian Slough.
- (2) An additional 5966 acre-feet were pumped from wells and drains within district.
- (3) To junction of Old River and Italian Slough. Pumping plant is located 2 3/4 miles southwest along Italian Slough and extension cut.
- (4) Formerly Joe Santos.
- (5) Plant is on cut which joins river at Mile 44.6 Left.
- (6) An additional 100 acres served for Gus Lindeman plant - Mile 47.2L.
- (7) See H. Lindeman plant - Mile 47.2L.
- (8) To junction of Old River with Intake Cut. Pumping plant is located one mile south along Intake Cut.
- (9) An additional 7 acres served for Freemont Irrigation Association - Mile 50.9L.
- (10) Includes 7 acres served through plant at Mile 50.4L.