

TABLE 99
DISCHARGE OF MOULTON WEIR TO BUTTE BASIN - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	0	0										
2		800										
3		7700										
4		12100										
5		12700										
6		19000										
7		30000										
8	FLOW	24000										
9		15500										
10		8100										
11		2730										
12		700										
13	NO	0										
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25	4000											
26	11700											
27	11700											
28	13300	0										
29	13900											
30	6900											
31	805											
Mean	2026	4762	0	0	0	0	0	0	0	0	0	0
Ac. Ft. for Month	124600	264500	0	0	0	0	0	0	0	0	0	0

NOTE: Elevation of crest is 76.75 U.S.E.D. datum; length of crest is 500 feet.

TABLE 100

DISCHARGE OF COLUSA WEIR TO BUTTE BASIN - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	700	27000	0	0								
2	0	27000										
3		66400										
4		76000										
5		76000		1000								
6		82400		9800								
7		73000		5600								
8	0	56000		400								
9	4800	64000		0								
10	400	66000										
11	0	60000										
12		38000										
13		21000										
14		11600										
15		5600		8000								
16		2200		9800								
17		520		9800								
18		190		11600								
19		50		17000								
20		0		4000								
21				880								
22				350								
23		0		300								
24	6000			0								
25	47600											0
26	73600											1000
27	73600											0
28	76000	0										
29	77600											
30	70000			0								
31	45200		0									0
Mean	15340	26890	0	2618	0	0	0	0	0	0	0	32
Ac.Ft. for Month	943100	1493000	0	155800	0	0	0	0	0	0	0	1980

NOTE: Elevation of crest is 61.80 U.S.E.D. datum; length of crest 1650 feet.

TABLE 101

DISCHARGE OF WADSWORTH CANAL TO SUTTER BY-PASS - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	185	394	103	80	56	112	165	123	105	115	18	
2	143	514	103	80	56	112	175	143	86	86	18	39
3	122	501	95	80	61	112	163	150	86	86	33	39
4	112	1140	95	80	61	112	150	133	105	105	47	39
5	95	1220	87	112	61	112	138	128	105	115	40	39
6	87	1360	87	122	67	122	148	124	115	137	33	39
7	132	1200	87	95	80	141	147	106	115	95	33	39
8	197	1200	87	87	87	160	135	102	137	86	27	39
9	143	1050	80	80	87	160	145	97	137	69	27	39
10	122	809	87	80	87	141	144	82	126	69	27	39
11	103	394	185	80	87	160	143	66	126	69	13	39
12	95	219	122	80	95	160	153	74	126	77	87	39
13	87	342	103	80	112	160	164	92	126	69	56	39
14	87	268	280	122	95	178	179	112	126	69	56	39
15	80	219	355	103	95	215	178	120	126	69	51	39
16	80	197	231	87	87	215	161	139	95	61	51	39
17	73	174	174	87	80	215	159	161	95	61	56	39
18	73	153	153	80	87	234	170	143	105	54	67	39
19	73	143	143	80	112	197	169	152	105	61	56	39
20	73	143	132	73	122	141	168	137	137	54	51	39
21	67	132	103	73	112	141	167	136	160	40	51	39
22	67	153	103	67	122	127	154	148	160	33	51	39
23	122	132	95	67	132	129	176	148	160	22	47	43
24	501	132	95	61	132	106	176	137	148	27	47	87
25	738	122	87	61	122	94	163	126	126	40	47	87
26	611	112	87	61	132	118	162	126	115	47	47	61
27	766	112	80	56	122	146	148	115	126	54	47	56
28	542	103	80	56	132	146	147	105	148	54	47	219
29	447		80	56	122	144	146	105	160	33	43	243
30	342		80	56	112	160	145	95	126	27	39	143
31	219		80	56	112		140	105		22		103
Mean	212	451	121	79	98	149	157	120	123	65	43	61
Ac.Ft. for Month	13060	25070	7460	4720	6000	8880	9680	7400	7300	3980	2600	3770

NOTE: This is the discharge (measured at Weir #4) to the East Borrow Pit of the Sutter By-Pass at Mile 16.0 (north from Chandler). This flow is made up entirely of Feather River drainage or return flows. This flow and the flow from Butte Slough (Table 98) make up the entire Feather River contribution to the Sutter By-Pass. See footnote Table 98.

TABLE 102

DISCHARGE OF TISDALE WEIR TO SUTTER BY-PASS - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	8000	16000	0	0	1000							0
2	6100	12400			1500							
3	2200	16800			1500							
4	500	18200		0	650							
5	0	19000		1000	50							
6	0	20400		8000	0							
7	0	23000		7300								
8	1500	24700		5500								
9	7300	23700		3800								
10	7300	21800		2200								
11	5600	20000		1500								
12	3100	17000		1800								
13	1500	12400		1500								
14	800	11000		1500								
15	200	10000		6700								
16	0	8800		8000								
17		7400		8000								
18		6700		8600								
19		6100		8600								
20		5000		8600								
21		3800		8000								
22		2600		7300								
23	0	1800		6700								0
24	1000	1000		6100								1500
25	11000	500		4200								7300
26	17400	500		2600								6700
27	18200	200		1800								100
28	19400	0		1300								100
29	20400			2600								3100
30	20000			2200								1500
31	17200		0		0							655
Mean	5442	11100	0	4183	0	0	0	0	0	0	0	40260
Ac.Ft. for Month	334600	616500	0	248900	9320	0	0	0	0	0	0	40260

NOTE: Elevation of crest is 45.45 U.S.E.D. datum; length of crest is 1155 feet.

TABLE 103
DISCHARGE OF RECLAMATION DISTRICT 70 DRAIN - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	40	102	38	26	46	23	27	32	34	21	10	0
2	40	108	37	10	46	25	18	26	35	18	10	0
3	40	122	35	12	46	23	20	18	28	21	10	0
4	43	122	30	31	14	25	20	24	22	21	10	0
5	35	123	38	44	0	14	17	28	28	21	10	0
6	31	119	38	44	24	12	12	22	27	21	10	0
7	37	125	38	26	24	16	12	27	28	22	10	0
8	38	120	24	28	24	12	5	6	18	22	10	0
9	37	122	38	48	0	12	0	15	22	18	10	0
10	30	131	38	48	23	23	0	6	22	14	10	0
11	38	192	38	46	46	46	12	15	26	14	10	0
12	38	191	38	92	46	46	13	15	27	14	10	0
13	39	191	38	46	46	12	5	15	32	14	10	0
14	39	192	38	69	35	46	0	28	35	14	10	0
15	40	189	92	92	14	21	17	28	42	14	7	0
16	39	192	91	72	33	18	30	28	41	14	0	0
17	39	168	52	72	25	23	22	28	33	14	0	0
18	39	141	54	46	12	23	24	31	34	14	0	0
19	29	99	34	46	46	46	26	16	33	12	0	0
20	38	59	38	46	46	46	32	22	30	10	0	0
21	32	74	38	55	46	46	29	19	31	10	0	0
22	35	75	38	57	46	68	25	31	33	10	0	0
23	35	75	38	46	0	34	25	19	42	10	0	0
24	45	56	38	46	33	24	25	16	34	12	0	0
25	92	48	38	12	46	22	34	19	33	12	0	10
26	98	44	19	21	46	24	34	24	33	12	0	46
27	100	36	19	14	46	25	35	30	32	12	0	46
28	100	41	21	46	46	26	26	27	33	12	0	46
29	100	—	20	46	26	28	18	26	33	12	0	46
30	100	—	20	46	0	29	25	25	32	12	0	46
31	100	—	10	—	0	—	21	34	—	12	—	46
Mean	51	116	38	44	30	28	20	23	31	15	5	9
Ac. Ft. for Month	3150	6460	2310	2640	1850	1660	1210	1390	1850	910	292	567

NOTE: This is the drainage from Reclamation District 70 returned to the Sacramento River at Mile 68.8 Left. Discharge to Sacramento River both by pumping and controlled gravity flow. This is a combination irrigation and drainage plant and discharges both to the Sacramento River and to an irrigation canal.

TABLE 104

DISCHARGE OF RECLAMATION DISTRICT 108 DRAIN AT ROUGH AND READY BEND - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	289	211	94	53	46	111	202	200	225	208	139	0
2	186	280	59	71	47	190	226	216	221	196	0	0
3	144	317	64	51	77	196	225	200	231	213	0	0
4	145	459	64	55	47	235	255	202	232	354	0	0
5	97	645	69	94	47	248	242	204	251	149	0	0
6	76	740	68	0	48	265	185	195	243	174	0	116
7	84	742	68	0	48	443	200	210	335	170	0	0
8	156	732	49	0	0	200	201	208	241	192	109	0
9	148	734	51	0	49	231	247	219	248	152	0	0
10	102	740	74	89	49	249	254	195	263	196	0	0
11	138	731	160	89	50	256	200	214	269	278	0	0
12	99	461	160	90	480	260	206	213	261	128	0	0
13	61	279	145	91	87	288	158	213	380	118	0	122
14	84	209	168	89	89	527	182	211	222	93	0	0
15	77	205	777	118	94	202	166	228	219	74	0	0
16	81	142	327	117	97	216	195	220	222	64	105	0
17	72	144	330	111	98	246	196	209	224	0	0	0
18	78	145	270	88	100	237	217	218	210	65	0	0
19	81	145	210	88	0	248	222	226	192	0	0	0
20	76	144	115	88	88	260	168	231	182	0	0	174
21	68	130	93	88	103	428	212	220	165	0	0	0
22	69	89	103	90	151	197	222	219	197	0	118	0
23	205	97	89	77	149	227	231	202	190	0	0	83
24	420	97	81	72	154	227	219	193	151	0	0	87
25	579	96	78	75	178	229	200	222	198	131	0	104
26	564	102	77	64	190	210	189	206	219	0	0	0
27	552	84	65	46	185	217	186	222	188	0	0	93
28	501	97	49	46	188	322	198	220	217	0	0	89
29	371		51	72	183	179	196	236	217	0	118	88
30	275		73	73	203	203	205	219	212	0	0	80
31	293		51		166		202	198		0	0	73
Mean	199	321	133	70	113	252	207	213	228	96	20	36
Ac.Ft. for Month	12240	17850	8200	4140	6920	14980	12710	13070	13540	5870	1170	2200

NOTE: This is the drainage from Reclamation District 108 discharged to the Sacramento River at Mile 44.0 Right. Discharge through siphon and by pumping. Additional drainage from Reclamation District 108 is sometimes discharged to Back Farrow Pit at Mile 20.2 Left. See Table 105.

TABLE 105

DISCHARGE OF RECLAMATION DISTRICT 108 DRAIN ON BACK BORROW PIT - 1942

Day	Daily Discharge in Second-feet											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean												
Ac. Ft. for Month												

NOTE: This drain at Mile 20.2L supplements the main drainage plant of Reclamation District 108 on Sacramento River at Rough and Ready Bend (see Table 104).

TABLE 106

DISCHARGE OF COLUSA BASIN DRAINAGE TO SACRAMENTO RIVER AT KNIGHTS LANDING - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1						0	215	474	635	720	217	120
2							347	469	643	686	201	160
3							369	467	655	630	201	190
4							372	465	674	586	205	160
5							380	467	682	515	196	132
6							380	466	697	497	198	190
7							378	465	704	469	205	243
8							382	469	733	414	220	243
9							382	474	785	378	245	243
10							378	474	848	345	255	190
11							378	472	1390	340	258	190
12							378	472	1360	340	255	160
13	FLOW	FLOW	FLOW	FLOW	FLOW	0	371	476	980	332	234	132
14						96	371	474	940	324	208	132
15						248	373	473	929	328	214	160
16						376	373	474	920	320	186	190
17						448	374	478	920	300	220	190
18	NO	NO	NO	NO	NO	516	375	483	920	280	189	220
19						547	380	475	906	262	3	190
20						364	380	471	892	255	0	190
21						585	382	513	888	262	111	220
22						538	382	586	906	245	263	285
23						538	382	558	924	222	317	190
24						558	382	558	929	220	420	60
25						605	382	575	950	232	263	0
26						567	384	575	965	234	283	
27						576	384	566	970	252	190	
28						502	382	575	936	262	160	
29						417	380	586	900	229	132	
30						340	380	605	882	229	132	
31							424	635		222		0
Mean	0	0	0	0	0	261	374	509	882	353	206	141
Ac. Ft. for Month	0	0	0	0	0	15510	22970	31280	52490	21680	12260	8690

NOTE: This is the drainage from Colusa Basin passing down the Back Borrow Pit of Reclamation Districts 108 and 787 and entering the Sacramento River at Mile 34.15 Right, just above the Knights Landing gaging station. It does not include any drainage from Reclamation District 787 entering the Back Borrow Pit via Sycamore Slough outlet (See Table 107 for Sycamore Slough contribution). Irregularities in the flow are due to checking operations at the Knights Landing outfall gates whereby a portion of the flow of the Back Borrow Pit is diverted to the Knights Landing Ridge Cut. This diversion is shown in Table 113. Total flow to Sacramento River is sum of Tables 106 and 107.

TABLE 107
DISCHARGE OF SYCAMORE SLOUGH TO FLOW OF COLUSA BASIN DRAINAGE - 1942

Day	Daily Discharge in Second-Foot											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1												
2								0	10			
3									9			
4									9			
5									8			
6									7			
7									6			
8									6			
9									5			
10									4			
11									4			
12	OUTFLOW	OUTFLOW	OUTFLOW	OUTFLOW	OUTFLOW	OUTFLOW	OUTFLOW		4	OUTFLOW	OUTFLOW	OUTFLOW
13									3			
14	OUTFLOW	OUTFLOW	OUTFLOW	OUTFLOW	OUTFLOW	OUTFLOW	OUTFLOW	NO	3	OUTFLOW	OUTFLOW	OUTFLOW
15									3			
16									2			
17									2			
18	NO	NO	NO	NO	NO	NO	NO		2			
19									1	NO	NO	NO
20								0	1			
21								11	1			
22								19	1			
23								18	1			
24								16	1			
25								15	0			
26								14				
27								13				
28								12				
29								12				
30								11				
31								11				
Mean	0	0	0	0	0	0	0	5	3	0	0	0
Ac.Ft. for Month	0	0	0	0	0	0	0	323	184	0	0	0

NOTE: This water is discharged below outfall gates and is not included in the flow shown in Table 106.

TABLE 108

DISCHARGE OF SACRAMENTO SLOUGH TO SACRAMENTO RIVER - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1							726	785	830	662	515	
2							720	747	854	643	533	
3							795	747	901	613	497	
4							819	784	870	588	480	
5							789	750	820	579	561	
6							739	692	1090	534	550	
7							719	533	911	525	568	
8							711	537	769	515	568	
9							713	757	968	455	568	
10							717	712	769	515	506	
11							726	720	833	533	497	
12	RECORD	RECORD	RECORD	RECORD	RECORD		722	750	834	497	497	
13	RECORD	RECORD	RECORD	RECORD	RECORD		680	715	976	497	542	
14	RECORD	RECORD	RECORD	RECORD	RECORD		689	750	767	542	514	
15	RECORD	RECORD	RECORD	RECORD	RECORD		696	750	829	542	514	
16							699	807	886	542	569	
17	NO	NO	NO	NO	NO		705	715	828	542	640	
18	NO	NO	NO	NO	NO		699	782	841	561	**875	
19							754	790	841	533		
20							718	767	868	542		
21							*1130	705	736	573	542	
22							930	732	715	806	515	
23							903	732	750	771	528	
24							870	755	622	687	515	
25							843	755	634	660	542	
26							807	815	665	640	553	
27							819	767	727	763	515	
28							785	762	760	593	542	
29							778	739	798	622	532	
30							743	794	985	651	506	
31								781	794		515	
Mean								738	735	802	541	
Ac.Ft. for Month								45400	45200	47700	33300	

* Beginning of record for season following high water period.

** End of seasons record. High water period follows.

NOTE: This is the discharge to the Sacramento River via Sacramento Slough at Mile 21.2L. Discharge in this table from measurements made in slough and rating curve developed. This is the entire outflow of the Sutter By-Pass area and R.D. #1500. In former years flow of Sacramento Slough determined by combining outflow of R.D. #1500 with Sutter By-Pass flows. During high water periods the slough is entirely submerged as it lies within the By-Pass area. An annual record of the flow of Sutter By-Pass is obtained. See Tables 98, 101, 102, & 110 which when combined will give the measured flow entering the By-Pass area.

TABLE 109
SACRAMENTO SLOUGH - COMPONENT PARTS OF FLOW - 1942

Acre-feet													
	From Table No.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
:From Feather River via Butte Slough	: 98	:	:	:	:	: 52200	: 17800	: 7310	: 6600	: 3150	: 830	: 3430	: 26300
:From Sacramento R. via Moulton Weir	: 99	:	:	:	:	: 0	: 0	: 0	: 0	: 0	: 0	: 0	: 0
:From Sacramento R. via Colusa Weir	: 100	:	:	:	:	: 0	: 0	: 0	: 0	: 0	: 0	: 0	: 0
:From Sacramento R. via Butte Slough	: 98	:	:	:	:	: 0	: 0	: 0	: 0	: 0	: 0	: 0	: 0
:From Feather R. via Wadsworth Canal	: 101	: NOTE:	: Due to high water			: 6000	: 8800	: 9680	: 7400	: 7300	: 3980	: 2600	: 3770
:From Sacramento R. via Tisdale Weir	: 102	:	: conditions and levee			: 9320	: 0	: 0	: 0	: 0	: 0	: 0	: 0
:From Sacramento R. via R. D. 1500(1)	: 110	:	: construction work, no			:	:	:	:	:	:	:	:
:Sacramento Slough (2)	: 108	:	: attempt made to segregate			: 27200	: 31600	: 29400	: 32100	: 36600	: 11260	: 2250	: 4400
:Sacramento River Water	:	:	: flow other than			:	:	:	:	:	:	:	:
:Feather River Water	:	:	: for periods shown.			:	:	: 45400	: 45200	: 47700	: 33300	:	:
:Divisions East Borrow Pit	:	:	:	:	:	: 36520	: 31600	: 29400	: 32100	: 36600	: 11260	:	:
:Divisions West Borrow Pit	:	:	:	:	:	:	:	: 16000	: 13100	: 11100	:	:	:
:Total Divisions	:	:	:	:	:	: 0	: 200	: 1620	: 2700	: 1970	: 0	:	:
						: 3120	: 3640	: 3790	: 3650	: 1790	: 0	:	:
						: 3120	: 3840	: 5410	: 6350	: 3760	: 0	:	:

(1) 10% added to Reclamation District 1500 measured drainage as an estimate of Sacramento River water entering By-Pass as seepage from Reclamation District 1500.
 (2) See footnote Table 108.

TABLE 110

DISCHARGE OF RECLAMATION DISTRICT 1500 DRAIN - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	469	446	236	60	231	499	360	407	516	445	0	44
2	256	485	167	62	231	359	547	460	585	411	114	46
3	313	469	168	62	301	579	421	420	563	327	0	46
4	307	575	135	54	186	563	429	447	501	300		44
5	295	822	24	225	178	563	541	424	543	297		54
6	273	1150	44	214	243	368	421	448	862	198		44
7	203	1100	316	214	328	505	390	427	857	200	0	47
8	277	1110	109	213	366	353	409	421	521	146	49	46
9	266	1120	92	214	233	389	440	519	624	105	0	49
10	239	1130	78	221	495	657	449	424	475	211		48
11	158	1090	76	226	236	956	360	481	554	131		41
12	220	736	82	349	364	441	528	421	569	204		44
13	300	480	8	198	362	467	429	485	628	212		45
14	208	454	462	279	367	482	464	477	503	212		47
15	152	450	724	285	374	484	424	420	542	214		48
16	165	405	429	349	383	471	416	522	557	212	0	48
17	172	279	361	276	654	476	424	465	551	210	198	48
18	158	338	305	224	371	382	421	465	534	204	128	47
19	132	291	265	351	368	503	463	478	456	198	22	0
20	150	297	261	186	324	512	424	477	665	97	0	47
21	155	295	153	218	363	448	450	477	514	105	0	50
22	157	293	168	223	342	488	424	424	495	128	99	48
23	149	277	84	226	253	471	473	552	533	0	52	60
24	409	260	80	226	412	457	421	477	530	0	61	24
25	577	243	84	226	533	457	421	477	522	92	69	300
26	551	134	82	294	469	417	408	485	468	53	39	99
27	516	278	53	153	681	412	424	485	720	24	60	97
28	545	153	79	163	653	473	421	485	429	0	55	153
29	519		93	172	704	509	398	556	477	125	45	156
30	502		70	226	804	360	424	701	477	0	43	149
31	459		52		642		458	508		101		0
Mean	298	541	172	213	402	483	435	475	559	167	34	65
Ac. Ft. for Month	18350	30070	10590	12670	24700	28760	26740	29200	33260	10240	2050	4000

NOTE: This is the drainage from Reclamation District 1500 discharged to West Borrow Pit of Sutter By-Pass and thence via Sacramento Slough (in the By-Pass) to Sacramento River. (Table 108)

TABLE 112

DISCHARGE OF SUTTER BY-PASS - WEST BORROW PIT 0.4 MILE ABOVE RECLAMATION DISTRICT 1500 DRAINAGE PLANT - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean												
Ac. Ft. for Month												

This is the flow in the West Borrow Pit below the confluence
of the East Borrow Pit flow entering via Willow Slough.

Due to channel changes and construction work discharge
record at this station is no longer reliable

and station has been discontinued.

This flow was joined by the discharge through R. D. 1500

drainage plant and the combined flow discharged via
Sacramento Slough, in the By-Pass, (Table 108) to Sacramento River.

TABLE 113

DISCHARGE OF KNIGHTS LANDING RIDGE CUT - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	2450	5340	495	352	521	462	24	56	41	9	0	0
2	2450	5250	467	324	609	504	44	54	42	8		
3	2740	4940	462	320	651	529	60	52	43	6		
4	2740	4180	533	352	651	533	62	52	45	5		
5	2740	3570	517	546	557	540	68	52	46	3		
6	2360	4550	517	965	487	588	68	52	48	2		
7	1910	5250	441	860	462	609	66	52	58	1		
8	1510	8640	437	920	420	588	70	54	52	0		
9	1270	12600	433	860	412	588	70	56	59			
10	1150	13600	433	760	420	546	66	56	70			
11	980	11100	630	850	420	567	66	55	63			
12	798	9800	819	940	420	546	66	55	35			
13	690	8900	840	990	441	546	61	58	22			
14	615	8060	756	880	445	454	61	56	18			
15	545	7110	1710	420	458	289	63	56	17			
16	510	6480	2180	740	470	194	63	57	16			
17	458	5850	2180	760	491	124	64	58	16	0		
18	436	5220	2180	760	533	70	64	61	16	1		
19	405	4590	1920	710	529	42	68	57	14	26		
20	377	3750	1530	690	491	37	68	54	12	50		
21	346	3080	1120	650	441	40	70	46	12	68		
22	240	2600	798	630	462	36	70	37	14	26		
23	419	2050	651	550	491	36	70	36	16	2		0
24	1120	1610	588	480	504	46	70	36	17	0		*1000
25	1020	1170	533	510	483	50	70	36	19			*1000
26	538	848	483	540	470	47	72	36	20			*1000
27	666	624	441	590	491	39	72	36	21			*1000
28	630	540	420	588	470	34	70	36	18			*1000
29	1960		404	529	437	29	68	37	14			*1000
30	3530		384	470	462	24	68	39	11			1160
31	4550		348		525		63	41		0	0	1160
Mean	1360	5404	827	651	488	291	65	49	30	1	6	268
Ac. Ft. for Month	83610	300100	50880	38750	30020	17340	3980	3010	1760	67	343	16500

* Prior to 1942 flow was given at West Line of Yolo By-Pass and minor diversions from cut ignored.
 NOTE: This is a portion of the Colusa Basin drainage (Table 98) flowing (in the winter) or diverted (in the summer) into the Ridge Cut above the outfall gates on the Back Borrow Pit of Reclamation District 108. Summer diversion is made possible by blocking the gates. Water diverted is available for Yolo By-Pass diverters (Table 66). Station, since 1941, is operated cooperatively by Division of Water Resources and U. S. Geological Survey (Water Resources Branch).

TABLE 114
DISCHARGE OF YOLO BY-PASS*- 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	16800	62800	4440	700	2560	584	37	92	52	78	10	26
2	12600	48800	4210	660	3060	590	42	86	52	71	10	29
3	8100	46800	4000	700	2880	611	59	81	54	65	11	31
4	6100	55400	2350	800	1860	611	72	78	59	61	12	32
5	5490	99200	1510	1440	1370	578	82	78	63	57	12	30
6	5220	153000	1230	3900	1160	566	91	76	63	54	12	31
7	4100	241000	1030	15600	1030	578	92	73	64	46	11	40
8	3510	256000	910	19200	910	611	95	74	68	33	12	40
9	4700	210000	850	14500	850	590	98	79	75	25	12	38
10	3700	158000	850	11000	800	578	99	82	95	25	12	35
11	4440	113000	1300	8350	850	560	100	82	114	28	12	33
12	4320	83600	1790	6620	700	554	100	82	103	35	12	32
13	4100	62800	1720	4210	660	542	97	84	74	39	12	33
14	3700	46800	1720	5780	660	512	92	86	51	40	12	33
15	2280	37000	3800	12600	970	460	90	86	41	41	13	32
16	1860	30600	5630	20400	1510	380	88	88	32	40	12	31
17	2280	25200	6100	20400	1580	292	88	92	28	39	12	30
18	2490	21600	5780	21600	1650	226	91	95	26	37	15	28
19	1230	16800	4700	21600	1650	163	92	97	29	33	26	26
20	850	12600	4100	20400	1580	110	94	94	28	30	45	25
21	800	10300	3240	19200	1510	76	96	87	25	27	74	25
22	700	8100	2280	16800	1370	63	100	71	23	21	92	24
23	970	7000	1650	14500	1230	57	102	58	25	17	71	26
24	5350	6270	1370	11000	1160	58	102	51	31	14	52	44
25	11700	5780	1160	8350	1160	64	102	46	34	12	37	250
26	20400	5350	1030	5780	1160	68	100	46	37	11	27	700
27	68200	4960	910	3800	1160	61	103	46	40	11	24	800
28	128000	4570	850	2070	750	52	103	44	44	11	22	970
29	133000		800	1440	1030	44	102	46	54	10	19	1440
30	113000		750	1720	816	38	98	49	72	10	23	2210
31	87200		750		646		95	52		10		2630
Mean	21520	65480	2349	9837	1299	343	90	74	52	33	24	315
Ac.Ft. for Month	1323000	3636000	144400	585400	79900	20380	5560	4520	3090	2040	1440	19350

* For the period May 29 to December 26 inclusive this station is located at the end of the Sacramento By-Pass and records all flow in Yolo By-Pass, except Putah Creek, to Delta. For period January 1 to May 28 and December 27 to December 31, inclusive, the flow is given at the Woodland-Elkhorn highway crossing. To get total flow through Yolo By-Pass, below Sacramento, combine the flow in this table with that shown in Table 115 and Putah Creek. The flow in this table includes Cache Creek, Knights Landing Ridge Cut and flow over Fremont weir. To get flow into Delta, combine Tables 15, 25, 26, 26A, 34, 114, 115 and Putah Creek flow. Station, since 1941, is operated cooperatively by Division of Water Resources and U.S. Geological Survey (Water Resources Branch).

TABLE 115
DISCHARGE OF SACRAMENTO WEIR TO YOLO BY-PASS - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	226	5590		0	0							0
2	78	4190										
3	0	4810										
4		6100										
5		13300		0								
6		19600		272								
7		26500		500								
8		18000		460								
9		11400		420								
10		7760		400								
11		5780		400								
12		4510		360								
13	FLOW	3890	FLOW	360	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	FLOW	
14		3400		520								
15		420		617								
16		338		560								
17	NO	250	NO	560	NO	NO	NO	NO	NO	NO	NO	
18		178		520								
19		78		480								
20		0		480								
21				500								
22				500								
23				480								
24				420								
25	0			338	0							
26	930			294	104							
27	30300			178	154							
28	29200			130	272							
29	16700			26	272							
30	10900			0	130							
31	7960				0							52
Mean	3106	4860	0	326	30	0	0	0	0	0	0	2
Ac.Ft. for Month	191000	269900	0	19390	1850	0	0	0	0	0	0	103

TABLE 116

DISCHARGE OF RECLAMATION DISTRICT 1001 DRAIN INTO CROSS CANAL*- 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	41	120	43	37	46	50	25	2	2	8		
2	45	117	34	0	46	0	18	2	2	0		
3	29	130	35	27	31	34	12	2	2	0		
4	18	331	0	87	46	0	0	2	2	12		
5	32	545	18	131	31	49	0	2	2	18		
6	20	551	72	196	24	32	0	2	0	18		38
7	17	541	35	117	41	0	12	2		0		0
8	17	551	0	78	33	0	12	2				
9	28	566	45	44	17	51	0	2	0			
10	22	566	36	80	0	0	0	2	52			
11	0	566	0	89	67	0	12	2				
12	0	551	90	25	17	36	12	2				
13	38	261	0	94	0	0	12	2				
14	0	151	116	124	60	0	0	2				
15	38	113	328	145	26	52	12	2		0	0	
16	20	131	236	113	26	0	12	2	0	48	40	
17	0	85	32	111	0	36	11	2	46	45		
18	26	73	117	105	51	0	11	2	38	18		
19	0	81	60	86	0	18	11	2	20	12		
20	0	73	51	11	43	0	0	2	0	7		0
21	18	70	60	78	0	0	9	2			0	19
22	31	70	26	50	42	50	9	2			19	0
23	18	62	44	50	0	0	9	2			0	0
24	40	62	0	42	49	0	9	2			0	0
25	216	47	63	44	0	47	7	2				28
26	223	47	0	0	0	0	7	2				0
27	326	41	55	82	62	0	5	2				31
28	316	41	35	52	0	38	4	2				0
29	183		0	25	66	0	2	2				16
30	111		0	68	0	0	2	2	0			0
31	130		64		32		2	2	43			
Mean	65	23	55	73	28	16	8	2	7	6	2	4
Ac.Ft. for Month	3970	12980	3360	4350	1700	978	470	123	414	369	117	262

* Cross Canal, the main drain between Reclamation District 1000 and 1001, joins the Sacramento River at Mile 19.6L.

TABLE 117

DISCHARGE OF RECLAMATION DISTRICT 1000 DRAIN (#3 PLANT) - 1942.

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	180	148	159	8	82	10	11	26	29	0	0	16
2	140	172	73	34	96	56	13	26	26	0	0	16
3	113	95	37	20	84	56	11	27	26	23	6	16
4	84	140	61	40	78	30	9	25	22	92	9	16
5	70	207	70	65	68	38	8	25	22	92	12	16
6	70	207	64	68	65	38	0	22	22	92	6	15
7	71	207	61	80	60	4	0	22	22	65	6	16
8	71	207	58	68	60	56	3	18	15	68	6	16
9	71	207	58	62	57	56	2	16	14	91	9	16
10	71	178	58	62	60	30	3	15	14	60	9	16
11	71	78	52	65	60	0	5	14	15	61	6	16
12	70	64	67	65	62	0	6	15	18	61	6	16
13	70	121	58	62	62	28	7	16	22	61	3	16
14	70	144	49	74	62	56	8	15	26	46	0	16
15	70	155	107	90	65	56	8	22	29	38	0	24
16	65	138	74	76	65	45	8	22	112	38	0	20
17	60	95	74	98	65	0	13	32	90	38	0	20
18	56	69	74	68	65	23	17	31	82	38	40	20
19	54	75	62	94	58	27	16	25	68	25	59	20
20	54	66	65	85	57	0	17	24	56	25	37	20
21	48	60	68	68	57	25	17	22	41	6	22	20
22	50	75	68	76	57	52	17	17	34	6	18	20
23	54	81	68	94	56	25	17	15	29	19	19	29
24	78	69	68	104	52	50	14	15	22	19	16	48
25	130	77	62	94	42	0	11	17	43	19	16	54
26	89	61	57	85	56	21	5	14	41	6	16	54
27	146	40	52	76	56	28	4	23	58	13	18	39
28	207	34	52	74	56	0	6	26	73	18	19	39
29	190		48	82	56	42	8	22	73	16	19	39
30	140		45	82	56	0	14	28	70	16	19	39
31	80		28		56		21	30		10		39
Mean	90	117	64	70	62	28	10	22	40	37	13	25
Ac.Ft. for Month	5540	6490	3960	4140	3830	1690	593	1320	2410	2300	785	1520

NOTE: This is drainage from Reclamation District 1000 returned to Sacramento River by pumping and gravity at Mile 6.85L. Additional water returned to Sacramento River at Mile 2.1L (See Table 118).

TABLE 118

DISCHARGE OF RECLAMATION DISTRICT 1000 DRAIN (2nd BANNON SLOUGH) - 1942

Day	Daily Discharge in Second-Feet											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1	0	76	0	0								
2		237	0	0								
3		199	65	34								
4		280	0	34								
5		615		160								
6		615		86								
7	FLOW	600		149								
8		606		73								
9		610		73								
10		503	0	66								
11		292	43	80								
12		164	0	40								
13	NO	62	60	73								
14		0	57	149								
15		0	380	148								
16		55	236	130								
17		98	57	81								
18		64	73	65								
19		64	57	0								
20		64	0	66								
21		91		60								
22		0		0								
23	0	64										
24	245	42										
25	537	72										
26	268	72		0								
27	279	72		34								
28	296	28		0								
29	290			0								
30	147			0								
31	78		0									
Mean	69	202	33	53	0	0	0	0	0	6	0	0
Ac.Ft. for Month	4240	11200	2040	3180	0	0	0	0	0	341	0	0

NOTE: This is drainage from Reclamation District 1000 returned to the Sacramento River by pumping at Mile 2.1 left. Additional water returned to Sacramento River at Mile 6.85 left (See Table 117).

TABLE 119

DAILY RECORD OF PRECIPITATION (IN INCHES; AT CHICO-1942*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1		.31			.12							
2		1.78										T
3		.17		.85							.82	
4		1.44		1.01								
5		1.15		.80								
6	.02	1.17		.03								.46
7	1.77	.12										
8	.07								T		.07	.01
9				.07	.06				.15			
10			.08	.35	T							
11			.80		.11					.44		
12			.03	.44	.11							
13	.02		.03	.47								
14	.01		.86		T						.13	
15	.04		.01	.33	.30						.08	
16				.17	.26							.05
17											1.68	.04
18											T	
19		.01										
20												.23
21		.28										.02
22	.54	.40										.43
23	1.23											1.86
24	.98	.11	.08								T	.67
25	.20				1.28							.35
26	.17											.13
27	1.11			.93							T	.17
28	.01			.17							.56	.84
29				.14								.02
30	.09			.32							.01	
31	.02		.29									
Total												
for	6.28	6.94	2.18	6.08	2.24	0	0	0	.15	.44	3.35	5.28
Month												
Total												
for						32.94						
Year												

* United States Weather Bureau records.

TABLE 120

DAILY RECORD OF PRECIPITATION (IN INCHES) AT M. & T. INC. -
CHICO LANDING - 1942*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1		.10		.15	.55							
2		1.53										
3		.30		.08							.26	
4		.54		1.16								
5		.20		.35								
6		2.12		.31								
7	.60	.15				.24						.28
8	.54											
9					.02				.28		.12	
10				.43								
11			1.07		.08					.40		
12					.23							
13			.03								.08	
14			.23	.71							.18	
15			.65		.13							
16					.23							
17				.21							.93	
18				.18								
19												
20												
21												.24
22	.39											.10
23	.76											1.45
24	.93	.13										.80
25	.41				.78							.55
26	.20											
27	.78			.46							.22	.12
28	.18			.38							.05	.60
29												.05
30												
31	.15											
Total												
for	4.94	5.07	1.98	4.42	2.02	.24	0	0	.28	.40	1.84	4.19
Month												
Total												
for												
Year						25.38						

* Record kept by M. & T. Inc. at pumping plant at junction of Chico Creek and Sacramento River.

TABLE 121

DAILY RECORD OF PRECIPITATION (IN INCHES) AT LLANO SECO RANCHO - 1942*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1		.37										
2		1.42										
3				.47							.34	
4		.81		.65								
5		.87		.38								
6	.03	.84		.12								.22
7	.89											
8	.02										.08	
9				.09	.02				.11			
10			.05	.33								
11			1.21		.05					.45		
12					.02							
13				.53								
14			.94	.15							.11	
15					.21						.09	
16	.03			.19	.25						.62	
17				.08							.56	
18												
19												
20												.21
21												
22	.45											.60
23	1.15											1.46
24	.95	.05	.01									.33
25	.14				.47							.25
26	.11											.09
27	.71			.37							.24	.06
28				.03								.90
29				.02	.04							
30	.15			.43								
31			.18									
Total												
for	4.63	4.36	2.39	3.84	1.06	0	0	0	.11	.45	2.04	4.12
Month												
Total												
for					23.00							
Year												

* Record kept by ranch at headquarters six miles below Chico Landing.

TABLE 122

DAILY RECORD OF PRECIPITATION (IN INCHES) AT COLUSA - 1942*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1		T		.10	.25							
2		.75										
3		.25		.12							.49	
4		.49		.56								
5		.47		.29								
6		1.40		.21								
7	.22	.27										.30
8	.32										.16	
9									T		.10	
10				.45	T							
11			1.08		T					.30		
12												
13			.01									.01
14			.15	.52							.03	
15			1.14	.04	.22					T	.05	
16											T	
17				.16							.76	
18				.03							.04	
19												
20												
21												.20
22	.21	.28										.02
23	.71											1.39
24	.66				T							.40
25	.77				.16							.51
26	.13											
27	.74			.14							.09	.04
28	.35			.02						.05	.03	.91
29				T								.29
30	.10			T								
31	.11											
Total:												
for	4.32	3.91	2.38	2.64	0.63	0	0	0	T	.35	1.75	4.07
Month:												
Total:												
for						20.05						
Year:												

* United States Weather Bureau records.

TABLE 123

DAILY RECORD OF PRECIPITATION (IN INCHES) AT MARYSVILLE - 1942*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1		.32										
2		.45										
3		.28		.93								
4		1.62		.72								
5		1.25		.36								
6		.80										
7	.54	.10										.35
8									T			
9				.22								.02
10			.81	.20	.31							
11			.14		.12							
12												
13			.14	.88								
14			1.32	.18	.05							
15					.21							
16				.37								
17				.03								
18												
19												
20												
21	.10	.45										.18
22	.24											T
23	.83											1.38
24	.67	.20										.32
25	.29				.59							.29
26	.43											.04
27	.23			.59								
28												1.30
29												.38
30				.59								
31	T		.20									
Total												
for	3.33	5.47	2.61	5.07	1.28	0	0	0	T	0	0	4.26
Month												
Total												
for						22.02						
Year												

*United States Weather Bureau records.

TABLE 124

DAILY RECORD OF PRECIPITATION (IN INCHES) AT WILKINS SLOUGH - 1942*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1												
2		.12										
3		.42		.15							.44	
4		1.16		.65								
5		.78		.35								
6		.92		.20								
7						2.00						.37
8	.30										.17	
9				.53								
10			1.47		.08					.06		
11												
12												
13			.28	.77								
14					.36					.06	.15	
15			1.02		.06						.62	
16				.15							.06	
17				.06								
18												
19												
20												
21		.23										.22
22	.44											
23	.67											1.17
24	.59	.11			.24							.64
25	.24											.22
26	.10			.28								
27	.47			.13							.32	
28												.32
29												
30	.22		.15	.31								.25
31												
Total												
for	3.03	3.74	2.92	3.58	.74	2.00	0	0	0	.12	1.76	3.19
Month												
Total												
for												
Year						21.08						

* Near Grimes, at Reclamation District 108 pumping plant. Record kept by District.

TABLE 125

DAILY RECORD OF PRECIPITATION (IN INCHES) - RECLAMATION DISTRICT
1500 AT HINSDALE - 1942*

: Day :	: Jan.:	: Feb.:	: Mar.:	: Apr.:	: May :	: June:	: July:	: Aug.:	: Sep.:	: Oct.:	: Nov.:	: Dec.:
: 1 :	:	.50:	:	:	:	:	:	:	:	:	:	:
: 2 :	:	.10:	:	.20:	:	:	:	:	:	:	.55:	:
: 3 :	:	.63:	:	.45:	:	:	:	:	:	:	:	:
: 4 :	:	1.04:	:	.75:	:	:	:	:	:	:	:	:
: 5 :	:	1.25:	:	.18:	:	:	:	:	:	:	:	:
: 6 :	.17:	.10:	:	:	:	:	:	:	:	:	:	.43:
: 7 :	.33:	:	:	:	:	:	:	:	:	:	:	:
: 8 :	:	:	:	.05:	:	:	:	:	:	:	.13:	:
: 9 :	:	:	:	.45:	:	:	:	:	:	:	:	:
: 10 :	:	:	1.72:	:	.14:	:	:	:	:	:	:	:
: 11 :	:	:	:	:	:	:	:	:	:	:	:	:
: 12 :	:	:	.08:	:	:	:	:	:	:	:	:	:
: 13 :	:	:	.20:	.80:	:	:	:	:	:	:	.04:	:
: 14 :	:	:	1.08:	:	.37:	:	:	:	:	:	.04:	:
: 15 :	:	:	:	:	.11:	:	:	:	:	:	:	:
: 16 :	:	:	:	.22:	:	:	:	:	:	:	.73:	:
: 17 :	:	:	:	.05:	:	:	:	:	:	:	.09:	:
: 18 :	:	T	:	:	:	:	:	:	:	:	:	:
: 19 :	:	T	:	:	:	:	:	:	:	:	:	:
: 20 :	:	:	:	:	:	:	:	:	:	:	:	.15:
: 21 :	.35:	.20:	:	:	:	:	:	:	:	:	:	:
: 22 :	.45:	:	:	:	:	:	:	:	:	:	:	1.00:
: 23 :	.60:	.03:	:	:	:	:	:	:	:	:	:	.55:
: 24 :	.65:	.03:	:	:	.26:	:	:	:	:	:	:	.23:
: 25 :	.10:	:	:	:	.08:	:	:	:	:	:	:	:
: 26 :	.46:	:	:	.23:	:	:	:	:	:	:	.36:	:
: 27 :	.10:	:	:	.05:	:	:	:	:	:	T	:	.48:
: 28 :	:	:	:	:	:	:	:	:	:	:	:	:
: 29 :	.18:	:	:	:	:	:	:	:	:	:	:	:
: 30 :	.10:	:	:	.42:	:	:	:	:	:	:	:	:
: 31 :	:	:	.18:	:	:	:	:	:	:	:	:	:
:Total :	:	:	:	:	:	:	:	:	:	:	:	:
: for :	3.49:	3.88:	3.26:	3.85:	.96:	0:	0:	0:	0:	T	1.94:	2.84:
:Month :	:	:	:	:	:	:	:	:	:	:	:	:
:Total :	:	:	:	:	:	:	:	:	:	:	:	:
: for :	:	:	:	:	20.22	:	:	:	:	:	:	:
:Year :	:	:	:	:	:	:	:	:	:	:	:	:

* North end of Reclamation District 1500 - 2 miles east of Tisdale Weir.
Record kept by Reclamation District 1500.

TABLE 126

DAILY RECORD OF PRECIPITATION (IN INCHES) RECLAMATION DISTRICT 1500
AT ROBBINS - 1942*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1		.37										
2		.20		.22							.33	
3		.46		.73								
4		.75		.80								
5		1.23		.25								
6	.12	.39										
7	.36											.43
8											.06	
9				.62							.06	
10			1.49		.27					.20		
11										.08		
12			.10									.06
13			.15	1.20								
14			1.40	.01	.17					.10	T	
15											.13	
16				.13							.61	
17				.06							.29	.03
18		T										
19		T										
20												
21	.21	.19										.13
22	.41											
23	.88	.10										.96
24	.78	.06			.13							.33
25	.36				.02							.33
26	.54			.26								
27	.12			.47							.60	
28									T	T		.32
29	.18											
30	.04			.37								
31			.14									
Total												.02
for	4.00	3.75	3.28	5.12	.59	0	0	0	0	.38	2.08	2.61
Month												
Total												
for												
Year												

* South central portion of Reclamation District 1500. Record kept by Reclamation District 1500.

TABLE 127

DAILY RECORD OF PRECIPITATION (IN INCHES) AT NICOLAUS - 1942*

: Day	: Jan.:	: Feb.:	: Mar.:	: Apr.:	: May :	: June:	: July:	: Aug.:	: Sep.:	: Oct.:	: Nov.:	: Dec.:
: 1	: .07:	: .01:	: :	: .19:	: .54:	: :	: :	: :	: :	: :	: :	: :
: 2	: :	: .29:	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :
: 3	: :	: .12:	: :	: .24:	: :	: :	: :	: :	: :	: :	: .62:	: :
: 4	: :	: .62:	: :	: .71:	: :	: :	: :	: :	: :	: :	: :	: :
: 5	: :	: .75:	: :	: .66:	: :	: :	: :	: :	: :	: :	: :	: :
: 6	: :	: 1.33:	: :	: .39:	: :	: :	: :	: :	: :	: :	: :	: :
: 7	: .09:	: .19:	: :	: :	: :	: :	: :	: :	: :	: :	: :	: .40:
: 8	: .39:	: .02:	: :	: :	: :	: :	: :	: :	: :	: :	: .02:	: :
: 9	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: .08:	: .01:
: 10	: :	: :	: :	: .50:	: :	: :	: :	: :	: :	: :	: :	: :
: 11	: :	: :	: 1.01:	: :	: .62:	: :	: :	: :	: :	: .16:	: :	: :
: 12	: :	: :	: :	: :	: :	: :	: :	: :	: :	: .26:	: :	: :
: 13	: :	: :	: .24:	: :	: :	: :	: :	: :	: :	: :	: :	: .05:
: 14	: :	: :	: .04:	: .82:	: :	: :	: :	: :	: :	: :	: .03:	: :
: 15	: :	: :	: 1.14:	: .08:	: .22:	: :	: :	: :	: :	: .09:	: .30:	: :
: 16	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: .07:	: :
: 17	: :	: :	: :	: .22:	: :	: :	: :	: :	: :	: :	: .43:	: :
: 18	: :	: :	: :	: .03:	: :	: :	: :	: :	: :	: :	: .21:	: :
: 19	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :
: 20	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :
: 21	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: .22:
: 22	: .24:	: .31:	: :	: :	: :	: :	: :	: :	: :	: :	: :	: T
: 23	: .33:	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: .88:
: 24	: .52:	: :	: .05:	: :	: :	: :	: :	: :	: :	: :	: :	: .49:
: 25	: .71:	: .24:	: :	: :	: .12:	: :	: :	: :	: :	: :	: :	: .30:
: 26	: .07:	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :
: 27	: .74:	: :	: :	: .22:	: :	: :	: :	: :	: :	: :	: .71:	: :
: 28	: .17:	: :	: :	: .31:	: :	: :	: :	: :	: :	: :	: .03:	: .08:
: 29	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: .62:
: 30	: .12:	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :
: 31	: .09:	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :
: Total	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :
: for	: 3.54:	: 3.88:	: 2.48:	: 4.37:	: 1.50:	: 0:	: 0:	: 0:	: 0:	: .51:	: 2.50:	: 3.05:
: Month	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :
: Total	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :
: for	: :	: :	: :	: :	: 21.83	: :	: :	: :	: :	: :	: :	: :
: Year	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :	: :

* United States Weather Bureau records.

TABLE 128

DAILY RECORD OF PRECIPITATION (IN INCHES) RECLAMATION DISTRICT 1500
AT KARNAK - 1942*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1		.23										
2		.13		.21							.49	
3		.45		.64							T	
4		.87		.91								
5		1.15		.07								
6	.10	.16										
7	.33											.47
8												
9				.51							.08	
10			1.13		.45					.20		
11					T					.28		
12			.08									
13			.07	.85								
14			1.30	.05	.18					.13	T	
15											T	
16				.13							.60	
17				.03							.18	.07
18		T										
19		T										
20												.16
21	.14	.18										
22	.36											.85
23	.62											.44
24	.79	.20			.08							.34
25	.11				.10							
26	.77			.18							.70	
27	.30			.36								.03
28									T			.53
29	.12											
30	.13			.30								
31	.04		.16									
Total												
for	3.81	3.37	2.74	4.24	.81	0	0	0	0	.61	2.05	2.89
Month												
Total												
for												
Year												
					20.52							

* Southeast corner of Reclamation District 1500. Record kept by Reclamation District 1500.

TABLE 129

DAILY RECORD OF PRECIPITATION (IN INCHES) AT KNIGHTS LANDING - 1942*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1		T		.11	.20							
2		.30										T
3		.10		.19							.30	
4		.38		.61							T	
5		.80		.55								
6		1.26		.25								
7	.06	.18										.37
8	.34										.04	
9									T		.04	T
10			T	.55								
11			1.12		.19					.21		
12					T							
13			.12									
14			.07	.95							.02	
15			1.78	T	.14					.10	.04	
16	T				.07							
17				.09							.49	
18											.15	
19											T	
20												
21												.15
22	.11	.10										
23	.33											.98
24	.58	T			T							.38
25	.78	.13			.06							.37
26	.06				T							
27	.65			.20							.55	T
28	.10			.27						T	T	.06
29				T								.40
30	.08			T								
31	.13											
Total												
for	3.22	3.25	3.09	3.77	.66	0	0	0	T	.31	1.63	2.71
Month												
Total												
for						18.64						
Year												

* United States Weather Bureau records.

TABLE 130

DAILY RECORD OF PRECIPITATION (IN INCHES) AT SACRAMENTO - 1942*

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1		.13										
2		.20		T								
3		.14		.73							.24	
4		1.05		.63								
5		.82		.62								
6		.45										.47
7	.33	T										
8									.03		.03	T
9			T	.23								
10	.01		1.24	.23	.48					.12		
11			.23		.22					.03		T
12	T									T		.02
13	T		.14	.76							.01	
14	T		1.47	.15						.09	.03	
15	.01				.08						T	.01
16				.19	.09						.34	.01
17	.01			.01							.92	T
18											.04	
19											T	
20												.15
21	.02	.15										
22	.32											.57
23	.81				T							.54
24	1.76	.04	T								T	.74
25	.15				.20							
26	.46									T	.37	
27	.59			.74							.24	T
28	.05			.01						.03	T	.65
29											T	
30	.16			.28							T	
31	T		.23									T
Total												
for	4.68	2.98	3.31	4.58	1.07	0	0	0	.03	.27	2.22	3.16
Month												
Total												
for												
Year						22.30						

* United States Weather Bureau records.

CHAPTER V
SALINITY INVESTIGATIONS

Purpose

The purpose of the salinity investigation, as outlined in previous reports, has been to record the occurrence and extent of salinity encroachment from San Francisco Bay, and to establish the relation between movement of salinity, stream flow to the Delta, and tidal action. As reported in Bulletin 27 of the Division of Water Resources, this relation was established for the conditions which obtained during the period of the special investigation for that Bulletin and upon the basis of all data available to that time. Subsequent investigations, therefore, have been directed to the maintenance of an unbroken record of the salinity, tidal and stream flow variations, essential not only in corroboration of the relation as at present established, but as the basis for a check of possible modifications in the relation due to changes in channel and tidal conditions which may have taken place or will occur in the future. Also, during periods of low stream flow, the continuation of salinity sampling has been essential in keeping Delta irrigators advised of conditions through periodic bulletins so that damage from the use of water of too high salt content might be averted.

Scope

The general scope of this investigation each season has been such as to insure that samples of water to be tested for salinity would be taken at regular intervals at a sufficient number of stations throughout the Delta and upper bay region so that the advance and retreat of the salinity from

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES
SACRAMENTO-SAN JOAQUIN WATER SUPERVISION

SACRAMENTO-SAN JOAQUIN DELTA AND ADJACENT UPLANDS

SCALE OF MILES
0 1 2 3 4 5

LEGEND

- BOUNDARY OF AREA IRRIGATED FROM CHANNELS WITHIN MAXIMUM SEASONAL ENCROACHMENT OF SALINITY OF 50 PARTS OF CHLORINE PER 100,000 PARTS OF WATER 1931
- LIMIT OF MAXIMUM SEASONAL ENCROACHMENT OF SALINITY OF 100 PARTS OF CHLORINE PER 100,000 PARTS OF WATER
- - - BOUNDARY OF SUB-UNITS OF LARGER ISLANDS AND TRACTS
- SALINITY OBSERVATION STATIONS



early summer to late fall would be completely recorded. Plate 2 shows the limit of encroachment into the Delta of 100 parts of salinity for the years 1920 to 1942 inclusive.

Prior to 1941 twenty Bay and Delta sampling stations were maintained permanently throughout the year.

Station Maintenance and Records

Due to curtailment of appropriations by the Legislature to the 1941-1942 budget of the Division of Water Resources, sampling for salinity at all key stations in the Bay and Delta areas was stopped by the Division of Water Resources on July 15, 1941. Through cooperation of the Fontana Farms Company, the City of Antioch Water Department, the U. S. Bureau of Reclamation and the Dow Chemical Company at Pittsburg, miscellaneous samples were taken during the 1942 season and the results of the analyses are presented in Table 133.

The salinity sampling at all stations, prior to July 15, 1941, was done by local observers. Each observer was provided with a schedule showing the exact time for taking the samples, so that, throughout the Delta at four-day intervals, all samples were taken at approximately one and one-half hours after the same high tide. Table 132 gives the location and a description of each station. The observers were furnished with stamped containers for the sample bottles so that the latter could be mailed as filled, to the laboratory at Sacramento. All testing was done at the Materials and Research Laboratory of the Division of Highways.

The maximum salinity as recorded at the stations operated prior to 1942, is shown in Table 131. For comparative purposes, this table shows

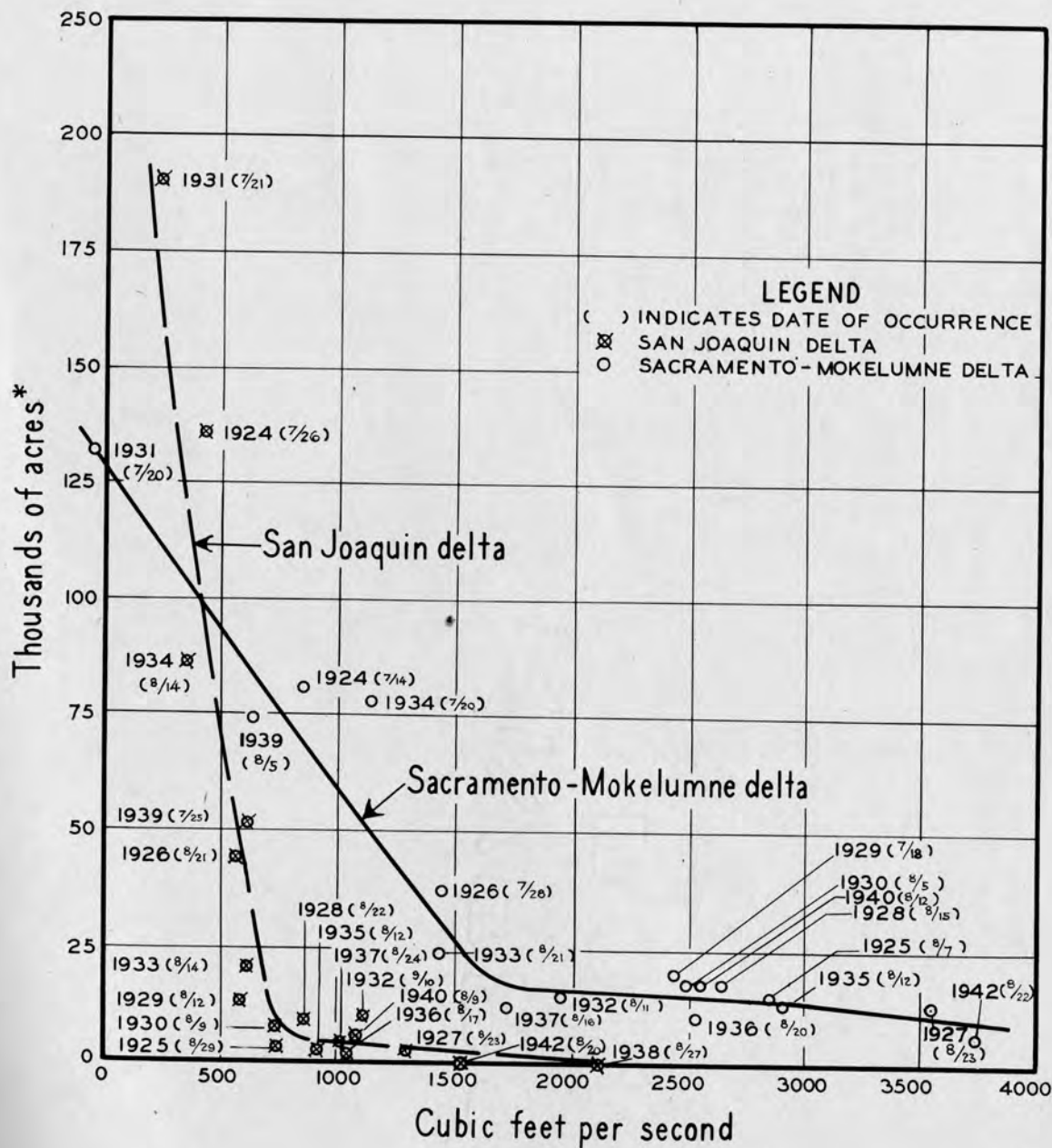
also the maximum salinity recorded at these stations in previous years beginning with 1932.

Salinity Bulletins

During 1942 the stream flow into the Sacramento-San Joaquin Delta did not reach a stage low enough to allow any great penetration of saline water into the Delta. Therefore, no salinity bulletins were mailed during the year.

Area of Salinity Encroachment

There is a definite relation between the minimum ten-day stream flow to the Deltas to the area affected by salinity encroachment. This relationship is shown in Plate 3. The relation of the flow of the Sacramento and San Joaquin rivers to the area of their respective deltas affected by salinity has been shown rather than combining the flows and treating the Delta as one area. Inspection of the plate indicates that when the flow to either delta drops below a certain point, the rate of salinity encroachment greatly accelerates. This point for the Sacramento-Mokelumne Delta is about 1750 cubic feet per second and for the San Joaquin Delta about 750 cubic feet per second. This shows that with a combined flow into the Delta, measured at Sacramento and Vernalis, of 2500 cubic feet per second, the whole Delta, with the exception of 25,000 acres in the extreme lower end, is protected from a salinity encroachment greater than 100 parts of chlorine per 100,000 parts of water. It also shows that when the flow drops below 2500 cubic feet per second the area affected increases much faster per unit of drop in flow than the area would decrease for the same unit of increase in flow. The areas shown on this plate are gross areas within the Delta



SACRAMENTO-SAN JOAQUIN WATER SUPERVISION

RELATION OF MINIMUM 10 DAY STREAM FLOW OF SACRAMENTO AND SAN JOAQUIN RIVERS TO THEIR RESPECTIVE DELTAS, TO THE AREA OF EACH AFFECTED BY A SALINITY ENCROACHMENT GREATER THAN 100 PARTS OF CHLORINE PER 100,000 PARTS OF WATER
 * AREA INCLUDES ALL LANDS, LEVEES, WATER SURFACES

boundaries and include all water surfaces, channels, levees, etc., and are not net irrigable areas. In Table 134 are shown the data from which Plate 3 has been constructed.

Salinity Observations of Stream and Return Flow Channels

No samples of water were taken from stream and return flow channels in the Sacramento-San Joaquin areas during 1942, the sampling of these channels having been discontinued at the same time as Delta sampling.

TABLE 13

MAXIMUM RECORDED SALINITY AT BAY AND DELTA STATIONS
1932-1942 INCLUSIVE*

Year	1932	1933	1934	1935	1936	1937	1938	1939	1940	(4)1941	1942
Sacramento-San Joaquin Runoff in per cent of Normal**	78	48	43	91	96	80	170	43	115	137	129
Station (1)	Maximum Recorded Salinity in parts of Chlorine per 100,000										
	San Francisco, San Pablo and Suisun Bays										
Point Orient	1720	1800	1840	1720	1740	1700	1700	1920	1840		
Point Davis	1520	1680	1800	1500	1440	1460	(2)1460	1840	1760		
Bullshead Point	1320	1380	1640	1260	1340	1270	1160	1640	1340		
Bay Point	1010	1160	1460	720	960	920	580	1480	990		
O and A Ferry	620	900	1200	540	580	660	256	1180	720		
Innisfail Ferry	680	900	1260	720	580	700	330	1360	796		
	North San Pablo Bay										
Sonoma Creek Bridge	1420	1620									
Grandview	1460	1660									
Vallejo	1300	1420									
Cuttings Wharf	1200	1320									
	Sacramento River Delta										
Collinsville	500	620	1080	390	300	490	86	1040	450	195	190
Emmaton	166	380	760	88	54	102	7	580	140		
Three Mile Slough Bridge	90	320	660	77	57	120		590			
Rio Vista Bridge	28	130	520	12	8	33		405			
Junction Point	(3) 7	74	410								
Ryer Island Ferry								375			
Liberty Ferry			230					241			
Grand Island (Steamboat Slu)			350					271			
Isleton Bridge	(3) 6	46	310					250			
Reclamation District 2068			176					82			
Howard Ferry			232					158			
Sutter Slough			50								
Little Holland Ferry			14					43			
Ryde			11					38			
Walnut Grove			10					18			
Paintersville Bridge			8								
Lisbon								8			
Sacramento	6	7	7	4	4	13	6	7	6		

* For maximum salinities recorded 1924-1930, see previous reports.
 ** Normal taken as 50-year mean (1889-1939) of natural runoff at foothill stations of major tributaries.
 (1) For location and description see Table 132.
 (2) Estimated. Samples not taken during period of maximum salinity.
 (3) Maximum salinity obtained from first sample taken in season.
 (4) Sampling by state discontinued in 1941.

TABLE 131
 MAXIMUM RECORDED SALINITY AT BAY AND DELTA STATIONS
 1932-1942 INCLUSIVE

Year	1932	1933	1934	1935	1936	1937	1938	1939	1940	(5)1941	1942
Sacramento-San Joaquin Runoff in per cent of Normal**	78	48	43	91	96	80	170	43	115	137	129
Station (1)	Maximum Recorded Salinity in parts of Chlorine per 100,000										
<u>Mokelumne River Delta</u>											
Southwest Point		17	107					86			
Camp 33, Staten Island		13									
Tyler Island Ferry			10					16			
Camp 11, Staten Island		5	25					13			
Camp 29, Staten Island			52					32			
Camp 25, Staten Island		7						31			
Camp 20, Staten Island			18					22			
<u>San Joaquin River Delta</u>											
Antioch	400	580	960	290	270	350	51	620	440	158	140
Curtis Landing	280	470	810	180							
Jersey	150	280	(2)620	86	78	102	9	500			
Opposite Jersey						136					
Webb Pump	35	122	(3)340	16	16	25	8	265	27		
Central Landing	8	25	(4)90	8	7						
Opposite Central Landing						11	10	138	15		
Dutch Slough	37	80	280	21	21	28	11	225	42		
Rock Slough West of Dam				8	11	13	9	94	15		
Camp 2, Medford Island								121			
Ward Landing			190								
Holland Pump	11										
Bacon Pump		25	160	11							
Mandeville Pump	18	29	166					104			
King Island Pump			104					79			
Rock Slough East of Dam				8	11	12	11	71	18		
Rindge Pump	16	22	94	18	20	20	15	62	29		
Orwood Bridge			107					54			
East Contra Costa I.D.			73					32			
Middle River	12	18	108	11	12	16	13	60	55		
Mansion House			90								
Victoria Island								35			
Stockton Country Club			44								
Clifton Court Ferry			40					19			
Stockton	72	66	76					32			
Garwood Bridge			38								
Brants Bridge			21								
Williams Bridge			43								
Naglee Burke Pump								14			
Whitehall			12								
Mossdale Bridge	14	13	25	12	14	12	12	16	14		

*For maximum salinities recorded 1924-1930 see previous reports.

**Normal taken as 50-year mean (1889-1939) of natural runoff at foothill stations of major tributaries.

- (1) For location and description, see Table 132.
- (2) Estimated maximum of 670 in period not covered by sampling.
- (3) Estimated maximum of 350 in period not covered by sampling.
- (4) Estimated maximum of 125 in period not covered by sampling.
- (5) Sampling by State discontinued in 1941.

TABLE 132

DESCRIPTION OF SALINITY STATIONS AT WHICH OBSERVATIONS ARE
OR HAVE BEEN TAKEN

STATION	Miles from Golden Gate (1)	Time Interval between high tide at Golden Gate and time for taking samples at Station		LOCATION
		Hours	Mins.	
<u>SAN FRANCISCO, SAN PABLO AND SUISUN BAYS</u>				
Point Orient*	12.3	2	20	North End San Francisco Bay, East Shore, one-half mile south of Point San Pablo Wharf of Standard Oil Company
Point Davis*	25.2	3	15	East End San Pablo Bay, South Shore, Oleum Wharf of Union Oil Company.
Bullshhead Point*	34.0	3	50	West End Suisun Bay, South Shore, Wharf of Mountain Copper Company.
Bay Point*	39.9	4	15	Suisun Bay, South Shore, Bay Point Wharf of Coos Bay Lumber Company.
O and A Ferry*	46.5	4	40	Upper End Suisun Bay between Mallard Station and Chipps Island at Sacramento Northern Railroad Ferry Crossing.
Innisfail Ferry*	47.3	4	50	Montezuma Slough, about one mile east of Junction with Cutoff Slough, near North End of Grizzly Island.
<u>SACRAMENTO RIVER DELTA</u>				
Collinsville*	50.8	5	25	Sacramento River, North Bank, at Junction with San Joaquin River.
Emmaton*	57.7	5	45	Sacramento River, South Bank, Lower end of Horseshoe Bend.
Three Mile Slough Bridge	60.0	5	55	At Junction of Slough and Sacramento River.
Rio Vista Bridge	63.5	6	05	At Highway Bridge near Northerly limits of Rio Vista.
Junction Point	65.2	6	10	Sacramento River, Right Bank, just below the Junction with Steamboat Slough.
Ryer Island Ferry	66.5	6	20	Lower end of Cache Slough, just above Steamboat Slough junction.
Liberty Ferry	67.6	6	25	Cache Slough at Junction with Prospect Slough.
Grand Island (Steamboat Slough)	68.2	6	30	Steamboat Slough at Grand Island Drainage Pumping Plant, three miles from Junction Point.
Isleton Bridge	68.7	6	30	Sacramento River, one mile upstream from Isleton.
Reclamation District 2068	70.7	6	45	Haas Slough, at Reclamation District 2068 pumping plant.
Howard Ferry	71.4	6	55	Steamboat Slough, $1\frac{1}{2}$ miles below junction with Sutter Slough.
Sutter Slough	72.8	7	00	At junction with Miner Slough.

* Permanent station maintained throughout the year (prior to July 1941).

(1) Mileage measured to station along main channel. For stations off the main channel, the mileage shown is the distance along the main channel to a point whereon the time of the occurrence of the tidal phase is the same as that of the observation station.

TABLE 132 (CONTINUED)

DESCRIPTION OF SALINITY STATIONS AT WHICH OBSERVATIONS ARE
OR HAVE BEEN TAKEN

STATION	Miles from Golden Gate (1)	Time Interval		LOCATION
		between high tide at Golden Gate and time for taking samples at Station		
		Hours	Mins.	
<u>SACRAMENTO RIVER DELTA (CONTINUED)</u>				
Little Holland Ferry	73.2	7	05	Back Borrow Pit of Reclamation District 999, two miles above junction with Miner Slough.
Ryde	74.4	7	15	Sacramento River, Right Bank, at town of Ryde.
Walnut Grove	77.4	7	25	Sacramento River, Highway Bridge, at Walnut Grove.
Paintersville Bridge	77.6	7	25	Sacramento River one mile below Courtland.
Lisbon	85.0	8	20	East Borrow Pit of Yolo By-pass at Lisbon.
Sacramento*	103.5	9	30	Sacramento River at Southern Pacific Railroad Bridge.
<u>MOKELUMNE RIVER DELTA</u>				
Southwest Point	78.8	7	25	Staten Island, North Fork Mokelumne River, South Bank, just above junction with South Fork.
Camp 33, Staten Island	80.2	7	30	South Fork, Mokelumne River, North Bank, two miles above North Fork Junction.
Tyler Island Ferry	81.9	7	40	On Georgiana Slough, about due east of Isleton.
Camp 11, Staten Island	83.1	7	45	North Fork, Mokelumne River, East Bank, four miles above South Fork Junction.
Camp 29, Staten Island	83.4	7	50	South Fork, Mokelumne River, North Bank, opposite Terminus.
Camp 25, Staten Island	86.4	8	05	South Fork, Mokelumne River, West Bank, one mile above Sycamore Slough Junction.
Camp 20, Staten Island	88.9	8	30	South Fork, Mokelumne River, West Bank, one-half mile below Beaver Slu Junction.
<u>SAN JOAQUIN DELTA</u>				
Antioch*	54.9	5	55	San Joaquin River, at City Water Works pumping plant.
Curtis Landing	58.9	6	10	San Joaquin River, Right Bank, about three-fourths mile above Antioch Toll Bridge.
Jersey	61.4	6	20	San Joaquin River, Left Bank, one mile below mouth of False River.
Opposite Jersey	61.4	6	20	San Joaquin River, Right Bank, opposite Jersey.
Webb Pump*	72.0	7	00	False River, two miles below Old River Junction.
Central Landing	72.0	7	00	Mokelumne River at Central Landing, Bouldin Island. (Prior to 1937)

* Permanent station maintained throughout the year. (Prior to July 1941.)

(1) Mileage measured to station along main channel. For stations off the main channel, the mileage shown is the distance along the main channel to a point whereon the time of the occurrence of the tidal phase is the same as that of the observation station.

TABLE 132 (CONTINUED)

DESCRIPTION OF SALINITY STATIONS AT WHICH OBSERVATIONS ARE OR HAVE BEEN TAKEN

STATION	Miles from Golden Gate (1)	Time Interval		LOCATION
		between high tide at Golden Gate and time for taking samples at Station	Hours : Mins.	
<u>SAN JOAQUIN DELTA (CONTINUED)</u>				
Opposite Central Landing*	72.0	7	00	Mokelumne River, on Andrus Island directly opposite Central Landing on Bouldin I.
Dutch Slough*	73.0	7	05	At Bethel Island Bridge.
Rock Slough West of Dam*	77.0	7	20	In Rock Slough, West of Dam at Junction of Sand Mound Slough and Rock Slough.
Camp 2, Medford Island	78.0	7	25	San Joaquin River (Stockton Channel) at north end of Medford Island.
Ward Landing	79.6	7	35	San Joaquin River near junction with Little Connection Slough on Southwest side of Empire Tract.
Holland Pump	80.6	7	40	Rock Slough, North Bank, 1 1/2 miles west of Old River Junction.
Bacon Pump	82.9	7	50	Old River at Bacon Island Drainage Pumping Plant, near junction with Rock Slough.
Mandeville Pump	83.0	7	50	Connection Slough, North Bank, one mile west of Middle River on South end of Mandeville Island.
King Island Pump	84.2	8	00	Honker Cut at Empire Tract - King Island Ferry.
Rock Slough East of Dam*	85.4	8	05	In Rock Slough, three-fourths of a mile East of Junction with Sand Mound Slough.
Rindge Pump*	86.1	8	10	San Joaquin River, North Bank, one mile below Fourteen Mile Slough Junction.
Orwood Bridge	86.3	8	10	Old River, at Santa Fe Railroad Crossing, Orwood.
East Contra Costa I.D.	86.7	8	20	Indian Slough, at East Contra Costa Irrigation District Pumping Plant.
Middle River P.O.	87.7	8	20	Middle River, East Bank, at Santa Fe Railroad Crossing.
Mansion House	88.4	8	30	Victoria Island, Old River, East Bank, at Junction with North Victoria Canal.
Victoria Island	89.6	8	35	Old River at Borden Highway Crossing.
Stockton Country Club	90.8	8	45	On Lindley Cutoff (San Joaquin R.), North Bank, 3/4 mi. above Burns Cutoff Junction.
Clifton Court Ferry	94.2	9	10	Old River just below Junction with Grant Line Canal.
Stockton	94.8	9	15	Near head of Stockton Channel at wharf of California Transportation Company.
Port Stockton*	94.0	9	15	At lower end of Port Stockton wharves.
Garwood Bridge	95.3	9	15	San Joaquin River. At drawbridge one mile above Santa Fe Railroad Crossing.
Brandt Bridge	100.6	9	50	San Joaquin River. At drawbridge six miles above Santa Fe Railroad Crossing.
Williams Bridge	101.6	9	55	Middle River, about four miles below Salmon Slough Junction.
Naglee Burke Pump	102.5	10	00	Old River at Naglee Burke Pumping Plant.
Whitehall	104.8	10	20	Old River West of Junction of Salmon Slu and Paradise Cut. Due north of Tracy.
Mossdale Bridge*	108.5	10	50	San Joaquin River at Lincoln Highway Crossing about 3 miles southwest of Latrop.

* Permanent station maintained throughout the year. (Prior to July 1941.)
 (1) Mileage measured to station along main channel. For stations off the main channel, the mileage shown is the distance along the main channel to a point whereon the time of the occurrence of the tidal phase is the same as that of the observation station.

TABLE 133

MISCELLANEOUS SALINITY OBSERVATIONS 1942
 SACRAMENTO-SAN JOAQUIN DELTA
 Chlorides in parts per 100,000 parts of water

Samples taken by Fontana Farms Company			
Date	Sacramento River (1)	Montezuma Slough	
		Ferry (2)	Meins Landing (3)
1942			
Jan. 14	6	15	26
23	5	18	45
Feb. 6	4	6	
12	4	9	10
24	5	15	16
Mar. 11	4	13	35
Apr. 8	5	9	14
24	5	7	8
May 16	4	6	
June 1	4	6	
29	4	6	
July 6 L.L.W.		7	
18 L.H.	4	10	
25	6	17	
Aug. 6		66	
8		72	
11		92	
21		137	
27 L.L.W.	98		
Sept. 4 L.H.	190	260	
15	171	420	
Oct. 22	85	344	
Nov. 5	39	288	
15	83	293	
18	64	278	
20	10	145	
Dec. 2	8	101	249
8	7		
15	6	179	
29		14	
31	3	14	63

NOTE: Except as noted all samples taken $1\frac{1}{2}$ hours after H.H. tide.
 (1) Samples taken at tide gate 1700' west of Collinsville gage.
 (2) Samples taken at Roaring River Ferry.
 (3) Samples taken at Meins Landing.

TABLE 133 (CONTINUED)

MISCELLANEOUS SALINITY OBSERVATIONS 1942

Samples taken by City of Antioch												
San Joaquin River at Water Works Wharf												
Chlorides in parts per 100,000 parts of water												
Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
2	3	2	3	3	2	1	2	19	100	46		4
6	3	3	3	3	2	1	2	32	85	38	21	4
10	3	2	2	3	2	1	2	40	104	45		5
14	3	2	3	2	2	1	2	76	140	22		5
18	3	3	3	2	2	1	2	116	140	22		5
22	3	3	3	2	1	1	5	85	85	34		5
26	3	3	3	2	2	1	10	104	92	29	5	4
30	2		3	2	1	1	22	174	56	15	4	3

NOTE: All samples taken 2 hours after High tide.

Samples taken by Dow Chemical Company												
San Joaquin River at Pittsburg												
Chlorides in parts per 100,000 parts of water (1)												
Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
6	10	10	9	9	8	9	9	50	175	100	47	27
12	8	8	9	9	8	8	10	68	165	87	25	17
18	10	10	10	9	8	8	10	76	150	82	21	10
24	9	9	8	8	8	7	10	100	145	82	22	5
30	9	9	8	8	8	7	35	137	132	70	30	5

(1) Analysis made weekly from composite of daily samples. Values in table taken from graph.

TABLE 133 (CONTINUED)

SALINITY OBSERVATIONS SACRAMENTO-SAN JOAQUIN DELTA - 1942

Samples taken by U. S. Bureau of Reclamation (1)

Chlorides in parts per million parts of water

Station No.	S. J. River at Garwood Br. Stockton Ship Channel at Ridge Pump Mokelumne R.	59c	59h	59n	59s	59u	70	80	81	82	83	84	85	86	87	88	58
1-5-42	22	30	7.3	7.3	15	14	6.4	11	30	36	55	60	78	87	38	5.5	19
2-4-42	16	15	5.9	1.3	10	11	0.7	5.2	24	31	57	69	96	31	41	0.7	16
3-9-42	25	31	9.0	9.1	26	17	5.3	14	23	29	39	40	59	33	32	8.3	29
4-7-42	37	36	3.9	5.0	5.6	10	4.2	9.8	22	33	36	46	48	46	43	6.1	32
5-6-42	14	15	4.5	3.7	2	8.9	4.5	9.3	13	14	16	24	23	20	15	3.6	15
6-4-42	9.1	11	3.7	4.5	6.9	6.6	3.9	7.3	9.5	9.6	10	11	12	32	11	3.4	9.1
7-3-42	17	16	11	17	3.2	12	8.3		12	13	12	11	12	18	13	7.5	13
8-17-42	100	85	32	30	70	1300	25	110	600	30	43	52	46	120	56	28	90
9-15-42	71	93	42	29		1200	24	110	820	58	78	88	88	84	91	35	68
10-14-42	58	77	23	18		370	15	37	230	56	73	80	81	81	77	17	56
11-12-42	83	76		7.4		290	7.8	25	220	43	60	67	67	92	65	7.8	80
12-7-42				7.5			8.1					82	82				38

(1) Samples not always taken at High Tide.

TABLE 134

MINIMUM TEN-DAY STREAM FLOW TO DELTAS OF SACRAMENTO AND SAN JOAQUIN RIVERS
AND AREA OF EACH AFFECTED BY SALINITY ENCROACHMENT GREATER THAN 100 PARTS OF
CHLORINE PER 100,000 PARTS OF WATER

Year	Flow for Minimum 10-day period (1)			Runoff in % of Normal*			Area Affected by Salinity							
	Sacramento River at Sacramento		San Joaquin River at Vernalis	Sacramento and San Joaquin to Delta	Sacramento and San Joaquin to Delta	At Sacramento	At Vernalis	All Deltas		Sacramento and Mokelumne		San Joaquin		
	Date	c.f.s.	Date	c.f.s.	c.f.s.			% of Total	Acres (2)	% of Total	Acres (3)	% of Total	Acres	
1920		(4) 540		(4) 450		52	48	66	15.1	65800	7.7	33500	7.4	32300
1921						118	126	95	2.1	9150	2.0	8715	0.1	435
1922						103	95	123	2.9	12600	2.4	10420	0.5	2180
1923						76	70	88	2.1	9150	2.0	8715	0.1	435
1924	7/14	858	7/26	407	1280	28	30	24	50.0	217500	18.4	80100	31.6	137400
1925	8/7	2860	8/29	743	3730	86	84	88	3.6	15630	3.1	13450	0.5	2180
1926	7/28	1460	8/21	586	2080	60	63	56	18.5	80500	8.5	37000	10.0	43500
1927	8/23	3560	8/23	1300	4850	121	127	104	2.9	12600	2.4	10420	0.5	2180
1928	8/15	2660	8/22	866	3550	84	89	70	5.7	24800	3.7	16100	2.0	8700
1929	7/18	2460	8/12	590	3090	44	44	46	7.1	30900	4.2	18300	2.9	12600
1930	8/5	2500	8/9	735	3230	65	71	53	5.4	23500	3.8	16500	1.6	7000
1931	7/20	-79	7/21	131		30	32	27	73.8	321000	30.2	131000	43.6	190000
1932	8/11	1980	9/10	1030	3030	78	69	106	5.7	24800	3.4	14800	2.3	10000
1933	8/21	1450	8/14	607	2070	48	46	54	9.8	42600	5.2	22600	4.6	20000
1934	7/20	1150	8/14	346	1530	43	45	37	37.5	163000	17.8	77500	19.7	85500
1935	8/12	2920	8/12	922	3940	91	87	103	2.9	12600	2.4	10420	0.5	2180
1936	8/20	2540	8/17	1040	3600	96	92	104	2.6	11600	2.2	9840	0.4	1760
1937	8/16	1720	8/24	1020	2820	80	70	105	3.5	15200	2.6	11280	0.9	3920
1938	8/12	5190	8/27	2130	7365	170	167	180	0	0	0	0	0	0
1939	8/5	630	7/25	610	1315	43	43	46	29.0	126000	17.0	74000	12.0	52000
1940	8/12	2550	8/9	1080	3620	115	118	105	4.2	18300	3.0	13000	1.2	5300
1941	8/24	4190	9/14	1480	5800	137	142	127	1.2	5100	1.2	5100	0	0
1942	8/22	3740	8/20	1520	5300	129	133	118	1.2	5100	1.2	5100	0	0

*Normal = 50 year mean (1889 - 1939). For comparison of 40 and 50 year means, see Tables 1, 3 and 5.

- (1) For minimum daily flow see Tables 1 and 3. For minimum 10-day flow see Tables 2 and 4.
- (2) Delta area taken at 435,000 acres which includes all lands, levees, water surfaces, etc., within delta boundary.
- (3) Sacramento and Mokelumne deltas combined as the Sacramento River contributes a large flow to Mokelumne River delta through Georgiana and Three Mile Sloughs.
- (4) No continuous record. Lowest discharge measured.

CHAPTER VI

USE OF WATER IN THE SACRAMENTO-SAN JOAQUIN DELTA AND
IN THE SACRAMENTO-SAN JOAQUIN VALLEYSSACRAMENTO-SAN JOAQUIN DELTA

As outlined in detail in preceding reports (1924-1933, inclusive) an investigation having as its objective a complete annual determination of the consumptive use of water in the entire Sacramento-San Joaquin Delta, comprised of experimental work to determine the unit consumptive use of water by the various irrigated crops and vegetation in the Delta and the general field work to obtain annually a complete census of the irrigated crops and water consuming areas. With the unit consumptive use of water determined by the experimental work and the complete census available, the former may be applied to the data of the latter to derive the consumptive use of water in the Delta as a whole or on individual tracts or islands.

Annual Census of Irrigated Crop Acreages and Water Consuming Areas

Detailed results of the census of the irrigated crop acreage in water consuming areas of the Delta as conducted by the Division of Water Resources are shown in the Reports for the years 1924 to 1932 inclusive and 1938, the detailed census being omitted for the years 1933 to 1937 and 1939 to 1942, inclusive. In the course of the Delta salinity investigations, in 1929 and 1930, it was found that in general all lands below certain elevation (5.0 U.S.G.S. datum) whether idle or cropped, receive and consume water derived by seepage from the adjacent channels. It was necessary, therefore, that all such lands be accounted for in computing the total consumptive use of water.

The cropped area is not suddenly changed from year to year, so that by making detailed surveys at intervals to determine the trend of land use it is possible to determine the total consumptive use for any particular year.

Consumptive Use of Water

In Table 135 is shown the unit consumptive use of water in the Sacramento-San Joaquin Delta. These unit figures are those developed from experimental data and with one exception are those which are used in the computation for Bulletin 27 of the Division of Water Resources. The exception is the use of water by weeds which has been increased to correspond with a total annual consumption of 2.15 acre-feet per acre. This change was based on later weed tank experiments. It is possible that a continuation of the experimental work terminated in 1932 would indicate certain other changes in these unit figures with respect to aquatic growths, weeds and open water surfaces, but other than the above mentioned change for the item of idle land with weeds, the results of the work to date would apparently afford no justification for any material revision at this time of the figures previously used.

Table 136 shows the consumptive use of water in the Sacramento-San Joaquin Delta for the period 1924-1932 inclusive and 1938.

In previous years, when the crop surveys were made, the total consumptive use of water has been segregated to show the use in each river delta. Also shown was a classification of the irrigated crops with respect to the peat and sedimentary soils on which they were produced.

SACRAMENTO-SAN JOAQUIN VALLEYS

Use of Water

When the annual crop survey was made for inclusion in the Water Supervision Report the practice in the early years was to classify the crops either as "general" or "rice" and to publish the data under these two classifications. Tables 69 to 83 of this report follow this same procedure. Gross duty of water figures for the individual stream channels in the territory under supervision are given for the Sacramento Valley in

Tables 49 to 52 and for the San Joaquin Valley in Tables 58 to 64.

For this year's report, in addition to the foregoing tables, the data obtained since 1935 as to segregation of crops is here presented in two classes as follows:

Diversions Serving 500 Acres or Over in More than One Crop
But no Rice

Table 137 gives an annual summary of data in Tables 138-145.

Tables 138-145 gives for individual diversions supplying 500 acres or more, none of which was in rice (1) the total acreage, (2) annual diversion in acre-feet, (3) duty of water, (4) acreage in each crop.

Diversions of Any Size Serving One Crop Only

Table 146 summarizes data in Tables 147-154 and gives (1) monthly distribution of water on various crops for each year beginning 1935, (2) gross diversion duty.

Tables 147-154 gives for individual tracts and for each crop and each year beginning 1935 (1) monthly distribution of use in acre-feet, (2) gross seasonal duty. In making these tables it was necessary to select only those diversions which served one crop in any particular year.

Diversions from Wells for Use on General Crops

Data has been made available relative to the use of water and pumping from about 500 irrigation wells in the vicinity of Sacramento and to the west and south thereof. Approximately 300 of these wells were used for irrigation of a single crop and Table 155 summarizes the data obtained.

In Table 156 is a summary for the 500 wells, segregated to various districts, showing the average pumping costs, capacities and pumping heads.

TABLE 135

UNIT CONSUMPTIVE USE OF WATER IN SACRAMENTO-SAN JOAQUIN DELTA**
Acre-feet per Acre

Crop or Classification	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Seasonal Use	Total Annual Use
Alfalfa	(.06)	(.08)	.10	.30	.40	.50	.65	.55	.50	.20	(.10)	(.07)	3.20	3.51
Asparagus	.05	.05	.05	.05	.08	.14	.40	.68	.55	.42	.12	.10	2.69	2.69
Beans	(.06)	(.08)	(.08)	(.16)	(.20)	.14	.24	.58	.37	(.09)	(.07)	(.05)	1.33	2.12
Beets	(.06)	(.08)	(.08)	.13	.32	.51	.61*	.53*	.20*	(.13)	(.10)	(.07)	2.30	2.82
Celery	(.04)	(.04)	(.04)	(.08)	(.10)	.10	.10	.20	.25	.30	.20	.05	1.20	1.50
Corn	(.04)	(.04)	(.04)	(.08)	(.10)	.24	.85	.84*	.40*	.10	(.10)	(.07)	2.43	2.90
Fruit	(.04)	(.04)	(.04)	.18	.32	.50	.57	.40	.23	.07	(.07)	(.05)	2.27	2.51
Grain and Hay	(.04)	(.04)	.07	.60	.83	.20	(.14)	(.23)	(.21)	(.14)	(.07)	(.05)	1.70	2.62
Onions	(.04)	(.04)	.08	.13	.27	.49	.43	.20	(.16)	(.13)	(.10)	(.07)	1.60	2.14
Pasture	.08	.10	.20	.25	.25	.25	.25	.25	.20	.15	.10	.08	2.16	2.16
Potatoes	(.06)	(.08)	(.08)	(.16)	.15	.38	.52	.30	.15	(.09)	(.07)	(.05)	1.50	2.09
Seed	(.06)	(.08)	(.08)	.10	.25	.50	.50	.50	.35	.10	(.10)	(.07)	2.30	2.69
Truck	(.06)	(.08)	.10	.10	.25	.50	.45	.45	.30	.15	.10	(.07)	2.40	2.61
Tules	.16	.09	.30	.74	1.10	1.28	1.53	1.32	1.18	.98	.59	.36	9.63	9.63
Willows	.05	.03	.09	.22	.33	.38	.46	.40	.35	.29	.18	.10	2.88	2.88
Bare Land	.04	.04	.04	.08	.10	.13	.14	.13	.11	.09	.07	.05	1.02	1.02
Idle Land with Weeds***	.07	.09	.10	.19	.24	.31	.33	.28	.19	.15	.12	.08	2.15	2.15
Open Water Surfaces	.08	.13	.23	.34	.60	.76	.84	.78	.60	.33	.14	.08	4.91	4.91

NOTE: Figures shown in Brackets () represent estimated consumptive use on cropped areas before planting and after harvest. (Evaporation from bare land, use by weeds, etc.)

* Includes estimated additional use by weeds during these months.

** These are the data as determined for and published in Bulletin No. 27 - "Variation and Control of Salinity in Sacramento-San Joaquin Delta and Upper San Francisco Bay"- Table 1, except that the figures for "Idle Land with Weeds" have been increased somewhat based upon later experimental work on the use of water by weeds.

*** Average for land below elevation 5.0 U.S.G.S. datum. Use on unirrigated lands above elevation 5.0 is considered zero.

TABLE 136

CONSUMPTIVE USE OF WATER IN THE SACRAMENTO-SAN JOAQUIN DELTA
1924 TO 1932 AND 1938

Year*	Water Consuming Area in Acres		Seasonal (2) Use of Water in Acre-feet		Seasonal Unit Consumption in Ac. Ft. per Ac.		Annual (3) Use of Water in Acre-feet		Annual Unit Consumption in Acre-feet per Ac.	
	Total (1)	Irr. Crops	Total	Irr. Crops	Total	Irr. Crops	Total	Irr. Crops	Total	Irr. Crops
1924		319800		674840		2.11				
1925		315600		660900		2.10				
1926		316200		649560		2.06				
1927		315600		649090		2.06				
1928		321500		674920		2.10				
1929	420900	321800	1100140	689550	2.62	2.14	1250180	839590	2.97	2.61
1930	446800	338000	1161000	744000	2.60	2.20	1322000	895000	2.96	2.65
1931	446310	339300	1167390	756010	2.61	2.23	1319250	907870	2.96	2.68
1932	447430	336440	1181030	746800	2.64	2.22	1334060	899830	2.98	2.67
1938	448750	335670	1226850	760850	2.73	2.27	1380120	914120	3.08	2.72

*Annual census omitted for years 1933 to 1937, inclusive.

- (1) Total includes interior and exterior water surface, bare and weed lands which consume seepage water, willow and tule areas, etc.
- (2) Includes water used by crops and vegetation during the composite growing season and by evaporation for the entire year.
- (3) Includes in addition to seasonal use, the use of water on the cropped area during the non-growing or dormant season.

NOTE: Prior to 1929 the annual census was not complete with respect to water consuming areas other than irrigated crop lands.

TABLE 137

SUMMARY (1)
 USE OF WATER, ACREAGES OF GENERAL CROPS IRRIGATED BY LARGER DIVERTERS, AND ACREAGES IN PER CENT OF TOTAL
 IN THE
 SACRAMENTO AND SAN JOAQUIN VALLEYS — 1935 - 1942

Year	Total		Diversion	Irrigated Crop Acreage in Thousands of Acres										
	All Acreages (2)	Larger Acreages (1)	Mar.-Oct. (3)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (4)	Pasture	Sudan	Truck
1935	317900	118300	290600	2.5	29.92 (25)	32.86 (28)	2.85 (2)	6.53 (6)	9.18 (8)	0.54 (-)	16.66 (14)	1.58 (1)	10.94 (9)	7.74 (7)
1936	341900	109200	277600	2.5	28.84 (26)	29.41 (27)	2.32 (2)	4.25 (4)	10.46 (10)	0.81 (1)	16.15 (15)	1.30 (1)	2.39 (2)	13.23 (12)
1937	368000	123900	292700	2.4	31.35 (25)	33.99 (28)	6.73 (5)	6.19 (5)	9.11 (7)	1.00 (1)	17.34 (14)	2.40 (2)	4.39 (4)	11.39 (9)
1938	326200	120900	260600	2.2	27.32 (23)	32.66 (27)	6.39 (5)	7.90 (6)	8.71 (7)	1.48 (1)	17.82 (15)	3.49 (3)	3.37 (3)	11.82 (10)
1939	430000	135400	378300	2.8	32.39 (24)	32.54 (24)	6.20 (4)	5.95 (4)	20.30 (15)	2.66 (2)	17.16 (13)	3.44 (2)	3.76 (3)	11.93 (9)
1940	373100	116200	263700	2.3	32.76 (28)	37.67 (32)	1.95 (2)	6.63 (6)	2.17 (2)	3.72 (3)	14.67 (13)	3.90 (3)	1.54 (1)	11.22 (10)
1941	396600	118500	240700	2.0	30.47 (26)	35.40 (30)	3.84 (3)	8.17 (7)	2.67 (2)	4.45 (4)	15.95 (13)	4.94 (4)	1.34 (1)	11.29 (10)
1942	422400	104200	241400	2.3	28.62 (27)	27.20 (26)	4.92 (5)	2.09 (2)	2.49 (2)	5.48 (5)	15.10 (14)	3.21 (3)	2.46 (2)	12.65 (12)
Average 1935- 1942	372000	118300	280700	2.4	30.21 (25)	32.72 (28)	4.40 (4)	5.85 (5)	8.14 (7)	2.46 (2)	16.36 (14)	3.03 (2)	3.77 (3)	11.41 (10)

NOTE: For detail of each year's crop, acreages and use of water see Tables 138 to 145.

- * Figure in () shows acreage of crop in per cent of total for season.
- (1) Diversions at any one point for less than 500 acres of general crops as well as those diversions which included rice acreages are not included in this tabulation.
- (2) Total of all general crop acreages both large and small includes those areas irrigated in conjunction with rice.
- (3) Diversions are those measured at point of diversion and therefore include all conveyance losses, etc. For monthly distribution of diversions see tables of detailed diversions in this and previous Water Supervision reports.

TABLE 138

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1942

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres												
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck			
SACRAMENTO RIVER																	
Riverside Mutual Water Co.	6.1L	1063	2528	2.4	315	255	104										
Elkhorn Mutual Water Co.	14.1L	1527	4443	2.9	327	397	431	110		35	44				44	266	
El Dorado Ranch	43.1R	558	993	1.8						188	39					35	
J. L. Browning	69.0R	400	655	1.6							288	270					
Meridian Farms M. W. Co. #3	74.8L	621	973	1.6	35	205	206					50	85			40	
Colusa Irrigation Co.	89.2R	564	1397	2.5	34		297					183	50				
Roberts Ditch Co.	90.7R	910	1740	1.9	185	120		26				121	458				
Holly Sugar Corporation	150.8R	856	1446	1.7	254			254									
Jacinto Irrigation District	154.8R	6318	20553	3.1	802			423		3350	599	790		354			
BY-PASS AND DRAINAGE CHANNELS																	
Back Borrow Pit																	
River Farms Co.	0.03L	715	3073	4.3													
H. Balsdon	24.6L	1040	1532	1.5		220	820	417						148	150		
Butte Creek																	
Reclamation District 833	2.9L	525	968	1.8		525											
FEATHER RIVER																	
Plumas Mutual Water Co.	17.5L	1020	4454	4.4	100	100											
Oswald Water District	21.4R	668	2661	4.0	102					200	15					605	
SAN JOAQUIN RIVER																	
Banta Carbona I. D.	67.5L	15005	37198	2.5	2879	7444	1415	4	244	165	1140	387	253	1074			
Reclamation District 2075	71.0R	700	942	1.3		40											
W. C. Blewett Estate	81.95	601	1944	3.2	259											660	
West Stanislaus I. D.	91.8L	22479	47114	2.1	3614	14780	327	60	122								
Rancho El Pescadero	98.9L	570	1578	2.8	120	265			(3)915		710	220				2073	
Patterson Water Company	104.4L	13480	33668	2.5	9900	950		120		140						45	
										80	1380		800			250	

NOTE: For footnotes see end of table.

TABLE 138 (CONTINUED)

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
 IN THE
 SACRAMENTO AND SAN JOAQUIN VALLEYS - 1942

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres										
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck	
<u>OLD SAN JOAQUIN RIVER</u>															
East Contra Costa I. D.	36.5L	12458	13006	1.4	516					506		8097			3339
Byron Bethany I. D.	40.9L	5128	13387	2.6	2248	477				245		843	220	130	965
West Side I. D.	47.65L	7657	14370	1.9	2070	1173	491	191	228	130	1104			380	1890
Naglee Burke I. D.	50.4L	2557	5390	2.1	1011			155	120	525			615	116	15
Freemont Irrigation Association	50.9L	562	1035	1.9	432	20		20							90
<u>TOM PAINE SLOUGH</u>															
Independent M. W. Co. and Corp.	0.7S	1070	1493	1.4	449	16		72							533
Pescadero Recl. Dist. #2058	2.9S	2347	6762	2.9	1882		80	72		107			34		172
<u>STANISLAUS RIVER</u>															
Reclamation District #2064	5.9R	1010	4377	4.3	280	50		8	112	545					15
McMullin R. D. #2075	5.95R	1300	5262	4.0	550	160		160							430
<u>MERCED RIVER</u>															
Stevinson Water District	3.8R	515	1436	2.8	260					20				235	
TOTAL		104200	241400	2.3	28620	27200	4920	2090	2490	5480	15100	3210	2460	12650	
TOTAL ACREAGE					27.5	26.1	4.7	2.0	2.4	5.3	14.5	3.1	2.3	12.1	
ACREAGE IN PER CENT OF TOTAL ACREAGE															

*Mile and Bank refers to mileage as given in Table of Diversions.
 (1) Diversion at any one point for less than 500 acres of general crops as well as those diversions which included rice acreages are not included in this tabulation.
 (2) Diversions are those measured at point of diversion and therefore include all conveyance losses, etc. For monthly distribution of diversions see tables of detailed diversions in this and previous Water Supervision reports.
 (3) Includes a small acreage of vines.

TABLE 139

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
 IN THE
 SACRAMENTO AND SAN JOAQUIN VALLEYS - 1941

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres											
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck		
SACRAMENTO RIVER																
Riverside Mutual Water Company	6.1L	1415	3654	2.6	619	488		51			10	49				198
Elkhorn Mutual Water Company	14.1L	1526	5126	3.4	593	396	205	154			10	24				144
El Dorado Ranch	43.1R	613	803	1.3	40							288	285			
J. L. Browning	66.4R	560	1077	1.9			560									
Faxon Ranch	69.2R	908	939	1.0		60		700				148				
Meridian Farms Mutual Water Co. #4	71.1L	875	3131	3.6	40	522	45	112								156
Meridian Farms Mutual Water Co. #3	74.8L	559	1114	2.0	27	202	156	36				49	39		2	48
Steidlmeyer Bros.	81.9R	795	1008	1.3	80	140		300					200		75	
Colusa Irrigation Co.	89.2R	640	1097	1.7	34		237	127				189			53	
Roberts Ditch Co.	90.7R	1233	1953	1.6	183	197		396				123	206		128	
A. N. Lewis	95.6L	600	1356	2.3				600								
Bridget Graham Estate	95.8L	1000	614	0.6				975				25				
Clara C. Packer	102.8R	913	752	0.8	25	65		382					424		17	
Charles W. Welch	103.7R	637	935	1.5			150	400				87				
Holly Sugar Corporation	151.0R	954	2432	2.5	163		542	100		49		200				
Jacinto Irrigation District	154.8R	6538	17127	2.6	774			955			3319	690	800			
BY-PASS AND DRAINAGE CHANNELS																
<u>Back Borrow Pit</u>																
River Farms Co.	0.03L	1065	2674	2.5				180				700				185
H. Balsdon	24.6L	1460	1742	1.2		700		600	160							
Fred Schutz	26.4L	1200	1027	0.8		400		150	650							
<u>Butte Creek</u>																
Reclamation District #833	2.9L	600	1356	2.3		600										
<u>Sutter By-Pass (West)</u>																
Butte Slough Irrig. Co. Ltd.	28.4	4660	6456	1.4		3614	670	156								20
<u>Sutter By-Pass (East)</u>																
Meyer, Platter et al.	19.1N	506	1367	2.7	8	402		90								6
FEATHER RIVER																
Bercut-Richards Co.	9.75R	618	999	1.6				260				218	85		55	
Oswald Water District	21.4R	618	2939	4.8	65							473	80			

NOTE: For footnotes see end of table.

TABLE 139 (CONTINUED)

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1941

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet Mar.-Oct. (2)	per Acre	Irrigated Crops - Acres									
					Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck
SAN JOAQUIN RIVER														
Banta Carbons Irrigation District	67.5L	16758	34224	2.0	3245	8716	215	30	514		1214	880		1944
Reclamation District #2075	71.0R	1025	1116	1.1		320			115					590
W. C. Blewett Estate	81.95L	710	2425	3.4	280				225			205		
West Stanislaus Irrig. Dist.	91.8L	20837	41499	2.0	3777	15484	44				524			1008
Patterson Water Company	104.4L	13555	31037	2.3	10100	725		205	200	15	1380		650	280
OLD SAN JOAQUIN RIVER														
East Contra Costa I. D.	36.5L	12204	16325	1.3	581				498		8189			2936
Byron Bethany Irrigation District	40.9L	5030	12600	2.5	2660	60				50	692	518	50	1000
West Side Irrigation District	47.65L	7950	15092	1.9	2118	1775	86	890	348	130	784		95	1724
Naglee Burke Irrigation District	50.4L	2720	5198	1.9	1168			103	232	250		775	178	20
Freemont Irrigation Association	50.9L	662	1190	1.8	489			93		20				60
TOM PAINE SLOUGH														
Stimson Estate Company	0.7S	348	1044	1.2	419			159	163					97
Pescadero Reclamation Dist. #2058	2.9S	2762	8054	2.9	1761	202		60	323	101		125		190
STANISLAUS RIVER														
Reclamation District #2064	5.9R	900	4185	4.6	263	56		25		541				15
McMullin Reclamation District #2075	5.95R	1540	3941	2.6	480	75						320		605
MERCED RIVER														
Adams and Silva	10.35L	506	1052	2.1	480									26
TOTAL		118500	240670	2.0										
TOTAL ACREAGE					30470	35400	3840	8170	2670	4450	15950	4940	1340	11290
ACREAGE IN PER CENT OF TOTAL ACREAGE					25.7	29.9	3.2	6.9	2.2	3.8	13.5	4.2	1.1	9.5

*Mile and Bank refers to mileage as given in Table of Diversions.
 (1) Diversion at any one point for less than 500 acres of general crops as well as those diversions which included rice acreages are not included in this tabulation.
 (2) Diversions are those measured at point of diversion and therefore include all conveyance losses, etc. For monthly distribution of diversions see table of detailed diversions in this and previous Water Supervision reports.
 (3) Includes a small acreage of vines.

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1940

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres										
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck	
SACRAMENTO RIVER															
Riverside Mutual Water Co.	6.1L	1433	4424	3.1	920	130		63				48	10		262
Elkhorn Mutual Water Co.	14.1L	1632	6918	4.2	778	557	164	46				30			57
Tisdale Irrig. and Drainage Co.	64.4L	1806	3428	1.9	30	1648		53							3
J. L. Browning	69.0R	597	1059	1.8		155	442								72
Meridian Farms Water Co. #4	71.1L	997	2336	2.3	45	701		224							
Meridian Farms Water Co. #3	74.8L	649	1156	1.8	29	347		143				25	10	33	62
Steidlmayer Bros.	81.9R	756	1262	1.7	100	180		125					351		
Colusa Irrig. Co.	89.2R	508	908	1.8				20				374			
Roberts Ditch Co.	90.7R	907	1928	2.1	300	25		242	25			119	83	113	
A. N. Lewis	95.6L	536	979	1.8				536							
Bridget Graham Estate	95.8L	965	771	0.8			137	800				28			
Clara C. Packer	102.8R	540	1297	2.4				120					400	20	
Charles W. Welch	103.7R	567	486	0.9			180	300				87			
Holly Sugar Corporation	151.0R	1048	2458	2.3	180		396	372				100			
Jacinto Irrigation District	154.8R	6320	14598	2.3	1266			814	53	2582		805	800		
BY-PASS AND DRAINAGE CHANNELS															
Back Borrow Pit															
H. Balsdon	24.6L	680	1509	2.2		680									
Fred Schutz	26.4L	590	1010	1.7		90	100	400							
Butte Creek															
Reclamation District #833	2.9L	600	1065	1.8		600									
Sutter By-Pass (West)															
Butte Slough Irrig. Co. Ltd.	28.4	4846	12488	2.6		4686		160							
Sutter By-Pass (East)															
Meyer, Platter et al.	19.1N	587	1477	2.5		587									
FEATHER RIVER															
Sutter Basin Corporation	2.6OR	1748	2404	1.4		980		326						442	
Garden Highway M. W. Co.	13.1R	929	2382	2.6	97	179		115				527			11
Plumas Mutual Water Co.	17.5L	1244	3633	2.9	24	780		120		190		130			
Oswald Water District	21.4R	618	2541	4.1	55							473	90		

NOTE: For footnotes see end of table.

TABLE 140 (CONTINUED)
 CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
 IN THE
 SACRAMENTO AND SAN JOAQUIN VALLEYS - 1940.

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres											
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck		
SAN JOAQUIN RIVER																
Banta Carbona Irrigation District	67.5L	16345	37339	2.3	3051	8251	219	356	371	85	1069	474	152	2317		
Reclamation District #2075	71.0R	1020	1710	1.7		490		90						440		
W. C. Blewett Estate	81.95L	525	2381	4.5	300									225		
West Stanislaus Irrigation District	91.8L	20719	44832	2.2	4519	13772					420	228		1780		
Patterson Water Company	104.4L	12375	31912	2.6	10500	730		120	480	25			325	195		
OLD SAN JOAQUIN RIVER																
East Contra Costa I. D.	36.5L	12865	19658	1.5	515						9053			3297		
Byron Bethany I. D.	40.9L	5695	12190	2.1	3160	245			798		586	200		707		
West Side Irrigation District	47.65L	6777	15219	2.2	1690	1527	249	470	124	182	765	228	85	1457		
Naglee Burke Irrigation District	50.4L	2568	6056	2.4	1247			71	248	230		552	210	10		
Freemont Irrigation Association	50.9L	600	1418	2.3	457			28			30		65	20		
TOM PAINE SLOUGH																
Pescadero Reclamation District #2058	2.9S	2629	8039	3.1	2159	65		98	53				254			
STANISLAUS RIVER																
Bret Harte Water Users Association	5.9R	1022	4267	4.2	236	178		125	15	430				38		
McMullin Reclamation District #2075	5.95R	1490	4511	3.0	570	90		290						540		
MERCED RIVER																
Adams and Silva	103.5L	506	1630	3.2	480									26		
TOTAL																
TOTAL ACREAGE		116240	263690	2.3	32760	37670	1950	6630	2170	3720	14670	3900	1540	11220		
ACREAGE IN PER CENT OF TOTAL ACREAGE					28.2	32.4	1.7	5.7	1.9	3.2	12.6	3.4	1.3	9.6		

(1) *Mile and Bank refers to mileage as given in Table of Diversions.
 Diversion at any one point for less than 500 acres of general crops as well as those diversions which included rice acreages are not included in this tabulation.
 (2) Diversions are those measured at point of diversion and therefore include all conveyance losses, etc. For monthly distribution of diversions see tables of detailed diversions in this and previous Water Supervision reports.
 (3) Includes a small acreage of vines.

TABLE 141

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1939

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-feet		Irrigated Crops - Acres											
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck		
SACRAMENTO RIVER																
Riverside Mutual Water Company	6.1L	1717	8050	4.7	1050:	163:	67:					67:				370:
Elkhorn Mutual Water Company	14.1L	2421	10850	4.5	1382:	314:	365:		60:			35:				265:
Fisher & Rich	22.5R	673	1750	2.6		120:	30:		523:							
River Farms Company	34.25R	1114	3552	3.2		60:			629:			425:				
John Clauss	47.3L	612	2260	3.7			262:		130:							220:
P. J. Hiatt	48.7L	670	5403	8.1		395:	275:									
Tisdale Irrig. and Drain. Dist.	67.1L	2590	7350	2.8	101:	712:	762:	28:	651:	100:		33:	50:	153:		
Ennis & Brown	67.5L	2588	5117	2.0	20:	136:			2432:							
J. L. Browning	69.0R	638	2545	4.0		50:	588:									
Faxon Ranch	69.2R	617	1751	2.8			307:	150:				151:			9:	
Houchins, et al.	70.4R	555	1985	3.6	68:		152:	280:					36:		19:	
Meridian Farms #4	71.1L	2862	12066	4.2	141:	1424:	365:		437:			11:			45:	439:
Meridian Farms #3	74.8L	774	2994	3.9	272:	21:	265:		84:			100:			15:	17:
Steidlmayer Bros.	81.9R	685	1955	2.9	80:	260:							285:		60:	
Colusa Irrig. Company	89.2R	558	1733	3.1	90:			77:	75:			314:				21:
Roberts Ditch Company	90.7R	1181	3286	2.8	445:				214:	247:		134:			141:	
A. N. Lewis	95.6L	690	2753	4.0		100:	185:	340:				65:				
Clara C. Packer	102.8R	765	2309	3.0				45:	100:					600:	20:	
Holly Sugar Corporation	151.0R	1210	4311	3.6			577:	271:	262:			100:				
Jacinto Irrig. District	154.8R	6914	21373	3.1	1200:			1025:	638:	1316:		973:	1010:	752:		
BY-PASS AND DRAINAGE CHANNELS																
Back Borrow Pit																
H. Balsdon	24.6L	550	2214	4.0			400:	100:							30:	20:
Butte Creek																
Reclamation District #833	2.9L	600	1814	3.0		600:										
Sutter By-Pass (West)																
Butte Slough Irrig. Co. Ltd.	28.4R	3834	13481	3.5		2859:	823:		152:							
Sutter By-Pass (East)																
Meyer, Platter, et al.	19.1L	591	671	1.1	70:	54:		6:	401:				50:			10:
FEATHER RIVER																
Garden Highway Mutual Water Co.	13.1R	1254	4624	3.7	45:	236:	80:	298:				580:				15:
Plumas Mutual Water Co.	17.5L	1333	4437	3.3	733:			115:			190:	195:				100:
Oswald Water District	21.4R	653	4288	6.6	95:							442:	92:	21:		3:

*For footnotes see end of table.

TABLE 141 (CONTINUED)
CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1939

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres										
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck	
SAN JOAQUIN RIVER															
Banta Carbona Irrigation District	67.5L	15476	42502	2.7	2296	8195	45	205	1682	205	799	465	137	1447	
Reclamation District #2075	71.0R	1064	2648	2.5		250		324	280					210	
W. C. Blewett Estate	81.95L	1275	2554	2.0	291				795	189					
El Solyo Ranch	82.05L	4564	13400	2.9	190	366	75	25	1046		1318	321	200	1023	
West Stanislaus Irrigation District	91.8L	21190	56718	2.7	4069	13665		100	1347		447		205	1357	
Patterson Water Company	104.4L	13050	35540	2.7	10513	533		125	1061		121		294	403	
OLD SAN JOAQUIN RIVER															
East Contra Costa Irr. District	36.5L	14931	28629	1.9	478				722		9532			4199	
Byron Bethany Irr. District	40.9L	6586	16151	2.5	2648		491	370	865		750	268	272	922	
West Side Irrigation District	47.65L	10100	17355	1.7	1761	1532	81	423	4647	25	543		703	385	
Naglee Burke Irrigation District	50.4L	2163	6938	3.2	1294			20	322	260			267		
Freemont Irrig. Association	50.9L	540	1609	3.0	313			77	50		20		80		
TOM PAINE SLOUGH															
Stimson Estate Company	0.7S	1088	1942	1.8	386			130	378				39	155	
Pescadero Reclamation District #2058	2.9S	2388	7515	3.1	1510	153		59	280			264		122	
STANISLAUS RIVER															
Bret Harte Water Users Association	5.9R	1040	4400	4.2	236	145		185		370			54	50	
McMullin Recl. District #2075	5.95R	805	3466	4.3	350	200		60						195	
MERCED RIVER															
Stevinson Water District	3.8R	500	2017	4.0	260									240	
TOTAL		1354	3783	2.8											
TOTAL ACREAGE						32390	32540	6200	5050	20300	2660	17160	3440	3760	11930
ACREAGE IN PER CENT OF TOTAL ACREAGE						23.9	24.0	4.6	3.7	15.0	2.0	12.7	2.5	2.8	8.8

*Mile and Bank refers to mileage as given in Table of Diversions.

(1) Diversion at any one point for less than 500 acres of general crops as well as those diversions which included rice acreages are not included in this tabulation.

(2) Diversions are those measured at point of diversion and therefore include all conveyance losses, etc. For monthly distribution of diversions see tables of detailed diversions in this and previous Water Supervision reports.

(3) Includes a small acreage of vines.

TABLE 142

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1938

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres									
			Mar.-Oct. (2)	per Ac re	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck
SACRAMENTO RIVER														
Riverside Mutual Water Company	6.1L	1506	5207	3.5	761:	249:		269:				67:		160:
Elkhorn Mutual Water Company	14.1L	1738	7126	4.2	1042:	373:	106:					38:		179:
Fisher & Rich	22.5R	525	1080	2.1		195:		330:						
El Dorado Ranch	43.1R	625	480	0.8	82:		150:					383:	10:	
Tisdale Irrig. & Drainage Company	64.4L	1517	4681	3.1	85:	564:	703:	22:				83:	29:	52:
Ennis and Brown	67.5L	1805	6663	3.7		1791:		14:						
Faxon Ranch	69.2R	709	1069	1.5	4:	86:	462:					151:		4:
Meridian Farms Company #3	74.8L	540	1192	2.2	194:	99:	113:	17:				82:		35:
Roberts Ditch Company	90.7R	957	1645	1.7	302:			181:	131:			238:	25:	80:
A. N. Lewis	95.6L	599	1452	2.1			464:	215:				20:		
Clara C. Packer	102.8R	600	111	0.2									600:	
Charles W. Welch	103.7R	569	712	1.3			44:	525:						
Holly Sugar Corporation	151.0R	1322	3068	2.3	230:		727:	190:	30:			100:		45:
Jacinto Irrigation District	154.8R	5330	16660	3.1	675:	32:		1454:		942:		573:	1000:	654:
BY-PASS AND DRAINAGE CHANNELS														
Back Borrow Pit														
H. Balsdon	24.6L	1250	2236	1.8				1250:						
Butte Creek														
Reclamation District #833	2.9L	600	1046	1.7		600:								
Sutter By-Pass (West)														
Butte Slough Irrig. Company	28.4R	3795	8176	2.2		2937:	858:							
Sutter By-Pass (East)														
Meyer, Platter, et al.	19.1N	591	1540	2.6	58:	478:		8:						37:
FEATHER RIVER														
Bercut-Richards Company	9.75R	700	946	1.4			500:					200:		
Plumas Mutual Water Company	17.5L	1282	1856	1.4	560:			122:				600:		
Oswald Water District	21.4R	773	2791	3.6	60:							566:	147:	
Alicia Mutual Water Company	24.0L	1319	6133	4.6	100:			493:				560:	166:	
CACHE SLOUGH														
Reclamation District 2068		2033	5908	2.9	382:		247:	1404:						

NOTE: For footnotes see end of table.

TABLE 142 (CONTINUED)

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1938

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres										
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck	
<u>SAN JOAQUIN RIVER</u>															
Banta Carbona I. D.	67.5L	15673	32180	2.1	1726	9848			127	1791		709	54		1418
W. C. Blewett	81.95L	1190	2404	2.0	250					575			365		
El Solyo Ranch	82.95L	4278	11000	2.6	200	542		99	30	859		1276	433		839
West Stanislaus Irrigation District	91.8L	22486	43191	1.9	3202	12591		340	1049	150		474		769	3911
Patterson Water Company	104.4L	13045	29700	2.3	9200	520			150	800		1625		700	50
<u>OLD SAN JOAQUIN RIVER</u>															
East Contra Costa Irr. District	36.5L	12763	17634	1.4	399					50		8831			3483
Byron Bethany Irrigation District	40.9L	6460	10329	1.6	2634	12		325	148	1693	18	710		252	668
West Side Irrigation District	47.65	6885	13706	2.0	1613	1540			482	1896		485		464	405
Naglee Burke Irrigation District	50.4L	2074	6997	3.4	1170				171	235	115		240	143	
Freemont Irrigation Association	50.9L	507	1076	2.1	307				43	40		47		70	
<u>TOM PAINE SLOUGH</u>															
Stimson Estate Company	0.7S	741	887	1.2	329	25			140	40				20	40
Pescadero Reclamation District #2058	2.9S	2053	6126	3.0	1263	141			127				402		120
<u>STANISLAUS RIVER</u>															
Bret Harte Water Users Association	5.9R	745	2080	2.8	200	40			18		400			70	17
McMullin Reclamation District #2075	5.95R	1255	1487	1.2	290				175	420					370
TOTAL		120940	260580	2.2											
TOTAL ACREAGE					27320	32660	6390	7900	8710	1480	17820	3490	3370	11820	
ACREAGE IN PER CENT OF TOTAL ACREAGE					22.6	27.0	5.3	6.5	7.2	1.2	14.7	2.9	2.8	9.8	

* Mile and Bank refers to mileage as given in Table of Diversions.
 (1) Diversion at any one point for less than 500 acres of general crops as well as those diversions which included rice acreages are not included in this tabulation.
 (2) Diversions are those measured at point of diversion and therefore include all conveyance losses, etc. For monthly distribution of diversions see tables of detailed diversions in this and previous Water Supervision reports.
 (3) Includes a small acreage of vines.

TABLE 143

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1937

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres										
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck	
<u>SACRAMENTO RIVER</u>															
Riverside Mutual Water Company	6.1L	1594	5891	3.7	1011	295	103	12			73	78			22
R. B. Coulter	33.2L	530	1293	2.4			530								
River Farms Company	34.25R	1340	3730	2.8			540					800			
El Dorado Ranch	43.1R	648	1004	1.5	82		150					383			33
J. L. Browning	66.4R	650	957	1.5			650								
Tisdale Irrigation and Drainage Co.	67.1L	1750	7004	4.0	165	466	772	22				81	51	52	141
J. L. Browning	69.2R	530	1016	1.9		150	80		300						
Meridian Farms Company #3	74.8L	635	2246	3.5	329	66	131					82		2	25
Colusa Irrig. Company	89.2R	533	1256	2.4	163			17	40			313			
Roterts Ditch Company	90.7R	1252	2736	2.2	593			263	98			178		120	
Bridget Graham Estate	95.8L	505	884	1.8	18		455					32			
Holly Sugar Corporation	151.0R	1325	3574	2.7	536		789								
Jacinto Irrigation District	154.8R	6651	16219	2.4	332			2035	218	726	973	761	1106		
<u>BY-PASS AND DRAINAGE CHANNELS</u>															
<u>Butte Creek</u>															
Reclamation District #833	2.9L	650	1271	2.0		650									
West Butte Country Club	3.85L	250	213	.9		250									
<u>Sutter By-Pass (West)</u>															
Butte Slough Irrig. Company	28.4R	4009	9008	2.2		3080	914	15							
<u>Sutter By-Pass (East)</u>															
Woodland Livestock Company	1.5N	900	637	.7										900	
State Reclamation Board	5.9N	990	541	.6				990							
Meyer, Platter, et al.	19.1N	652	1629	2.5	60	532		10						40	10
<u>FEATHER RIVER</u>															
Sutter Basin Corporation	2.6R	1675	3150	1.9		843								832	
Bercut-Richards Company	9.75R	740	1786	2.4			500					240			
Plumas Mutual Water Company	17.5L	1482	5529	3.7	610							532	240	100	
Oswald Water District	21.4R	720	3106	4.3	60	10						513	137		
<u>CACHE SLOUGH</u>															
Reclamation District #2068		2099	9126	4.3	1032		907			160					

NOTE: For footnotes see end of table.

TABLE 143 (CONTINUED)

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1937

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres										
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (2)	Pasture	Sudan	Truck	
SAN JOAQUIN RIVER															
Banta Carbona Irrigation District	67.5L	14106	36470	2.6	1451	9220	6	360	1725	17	472			855	
Reclamation District #2075	71.0R	1315	875	.7	110	255		410	65					475	
W. C. Blewett	81.95L	1081	1394	1.4	753				328						
El Solyo Ranch	82.05L	3691	12276	3.3	64	540		46	426		1374	232	23	986	
West Stanislaus Irrigation District	91.8L	20762	47372	2.3	3042	14489	110	450	560	2			400	1709	
Rancho El Pescadero	98.9L	550	488	.9		550									
Patterson Water Company	104.4L	13125	31957	2.4	9200	600		200	1050		1625			450	
OLD SAN JOAQUIN RIVER															
East Contra Costa Irrigation District	36.5L	13642	25376	1.9	511				40		8647		53	4391	
Byron Bethany Irrigation District	40.9L	7660	15965	2.1	3925	35	90	115	1545		581		217	1152	
West Side Irrigation District	47.65L	7327	15681	2.1	2510	1448		598	1852		386		263	170	
Naglee Burke Irrigation District	50.4L	2449	5633	2.3	1245	76		25	182			773	128	20	
Freemont Irrigation Association	50.9L	586	1165	2.0	360			56	60		50		60		
TOM PAINE SLOUGH															
Stimson Estate Company	0.7S	806	1279	1.6	295			141	110				35	95	
Pescadero Reclamation District #2058	2.9S	2172	7171	3.3	1651	98		258	20				145		
STANISLAUS RIVER															
Bret Harte Water Users Association	5.9R	1024	4017	3.9	492	294		5	120				28	85	
McMullin Recl. District #2075	5.95R	1460	1656	1.1	150	40		165	370					735	
TOTAL			123870	292680	2.4										
TOTAL ACREAGE						31350	33990	6730	6190	9110	980	17340	2400	4390	11390
ACREAGE IN PER CENT OF TOTAL ACREAGE						25.3	27.4	5.4	5.0	7.4	.8	14.0	1.9	3.6	9.2

* Mile and Bank refers to mileage as given in Table of Diversions.
 (1) Diversion at any one point for less than 500 acres of general crops as well as those diversions which included rice acreages are not included in this tabulation.
 (2) Diversions are those measured at point of diversion and therefore include all conveyance losses, etc. For monthly distribution of diversions see table of detailed diversions in this and previous Water Supervision reports.
 (3) Includes a small acreage of vines.

TABLE 144

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1936

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres										
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladine	Orchard (3)	Pasture	Sudan	Truck	
SACRAMENTO RIVER															
Fisher and Rich	16.27R	800	856	1.0											
River Farms Company	34.25R	1051	2793	2.7		480:	160:							130:	
Tisdale Irrig. and Drain. Co.	67.1L	1167	3610	3.1	320:	281:	70:				30:				
J. L. Browning	69.0R	500	1544	3.1		90:	615:				700:				
Steidlmeyer Bros.	81.9R	566	946	1.7	60:	500:					80:		42:	20:	
Colusa Irrigation Company	89.2R	597	1241	2.1	163:	340:		156:					10:		
Roberts Ditch Company	90.7R	1215	3228	2.7	570:			61:	60:		313:				
Holly Sugar Corporation	151.0R	1290	3731	2.9	410:	300:	580:	321:			174:		150:		
Jacinto Irrigation District	154.8R	4530	13700	3.0	773:			1267:		398:	890:	545:	607:	50:	
BY-PASS AND DRAINAGE CHANNELS															
Butte Creek															
Reclamation District #833	2.9L	675	2243	3.3		675:									
Sutter By-Pass (West)															
Butte Slough Irrig. Co. Ltd.	28.4R	3450	8174	2.4		3000:	450:								
Meyer, Platter et al.	19.1N	652	976	1.5	50:	602:									
FEATHER RIVER															
Sutter Basin Corporation	2.6R	1698	3534	2.1		1200:		200:							
George Pollock Company	9.75R	605	767	1.3	75:								298:		
Plumas Mutual Water Company	17.5L	1482	8056	5.4	770:		238:							292:	
Oswald Water Company	21.4R	686	5032	7.3	60:				14:		532:	180:			
SAN JOAQUIN RIVER															
Banta Carbona Irrigation District	67.5L	15243	39806	2.6	1360:	9081:		252:	2105:						
McMullin Reclamation Dist. #2075	71.0R	1200	1289	1.1		450:		250:		7:	420:			2018:	
W. C. Blewett	81.95L	1390	1562	1.1	445:									500:	
El Solyo Ranch	82.05L	3363	12270	3.6	212:	434:		33:	830:				115:		
West Stanislaus Irrigation District	91.8L	19648	47816	2.4	3595:	9875:	60:	250:	172:		1458:	124:		930:	
Rancho El Pescadero	98.9L	553	1024	1.9				550:		230:	190:			3623:	
Patterson Water Company	164.4L	12697	36989	2.9	9538:	369:		132:	1057:		1497:			104:	

NOTE: For footnotes see end of table.

TABLE 144 (CONTINUED)

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1936

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres												
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck			
<u>OLD SAN JOAQUIN RIVER</u>																	
East Contra Costa Irr. District	36.5L	13050	27281	2.1	620:					150:		8599:					3689:
Byron Bethany Irrigation District	40.9L	6169	12129	2.0	3600:	30:	145:			440:		479:					1097:
West Side Irrigation District	47.65L	7354	16176	2.2	2600:	1374:			416:	2155:		280:					210:
Naglee Burke Irrigation District	50.4L	1838	5266	2.9	870:	25:			20:	469:				294:			40:
Freemont Irrigation Association	50.9L	513	1474	2.9	433:				60:	10:		10:					
<u>TOM PAINE SLOUGH</u>																	
Stimson Estate Company	0.7S	933	1439	1.5	340:	36:			215:	192:				35:			115:
Pescadero Reclamation Dist. #2058	2.9S	2624	8560	3.3	1249:	142:				824:						315:	94:
<u>STANISLAUS RIVER</u>																	
Bret Harte Water Users Association	5.9R	1019	2766	2.7	223:	130:			50:	175:	176:					50:	215:
<u>MERCED RIVER</u>																	
Stevinson Water District	3.8R	600	1355	2.3	500:												100:
TOTAL		109160	277630	2.5	28840:	29410:	2320:	4250:	10460:	810:	16150:	1300:	2390:	13230:			
TOTAL ACREAGE					26.4:	26.9:	2.1:	3.9:	9.6:	.8:	14.8:	1.2:	2.2:	12.1:			
ACREAGE IN PER CENT OF TOTAL ACREAGE																	

* Mile and Bank refers to mileage as given in Table of Diversions.

- (1) Diversion at any one point for less than 500 acres of general crops as well as those diversions which included rice acreages are not included in this tabulation.
- (2) Diversions are those measured at point of diversion and therefore include all conveyance losses, etc. For monthly distribution of diversions see tables of detailed diversions in this and previous Water Supervision reports.
- (3) Includes a small acreage of vines.

TABLE 145

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1935

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres											
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck		
SACRAMENTO RIVER																
Riverside Mutual Water Company	6.10L	1893	5460	2.9	656	681	262									
California Lands Inc.	9.35R	520	1029	2.0	90							123				171
Elkhorn Mutual Water Company	14.1L	2309	7567	3.3	1050	730	292	45								
Fisher and Rich	16.27R	560	595	1.1		560						51				186
River Farms Company	34.25R	955	2972	3.1												
El Dorado Ranch	43.1R	540	1371	2.5	40							700				
Tisdale Irrig. & Drainage Company	64.4L	1494	5513	3.7	410	643	322	40				270				
J. L. Browning	66.4R	1100	2303	2.1								81				38
Ennis and Brown	67.5L	1622	6144	3.8	12	1570	40									
Houchins, Hoffman et al.	70.4R	520	762	1.5												
Meridian Farms Co. #1 and 2	80.0L	1960	9633	4.9	450	795	150	258	40			35			180	58
Colusa Irrig. Company	89.2R	658	1286	2.0	208			80	40			330				
Roberts Ditch Company	90.7R	1035	2780	2.7	570			200				175			90	
A. N. Lewis	95.6L	565	1071	1.9	10	160		150				95			150	
Holly Sugar Corporation	151.0R	1200	2792	2.3	800			400								
Jacinto Irrigation District	154.8R	5018	12538	2.5	1166			199				940	922			
BY-PASS AND DRAINAGE CHANNELS																
Butte Creek																
Reclamation District #833	2.9L	650	1139	1.8												
Reclamation District #1004	3.9R	1719	4123	2.4		650										
Reclamation District #1004	9.3R	1745	3120	1.8		60		396							1263	
Sutter By-Pass (West)															1745	
Butte Slough Irrig. Company	28.4R	3810	9122	2.4		3810										
Sutter By-Pass (East)																
State Reclamation Board	5.8N	800	1050	1.3												
Meyer, Platter et al.	19.1N	643	1172	1.8		643									800	
Yolo By-Pass																
George Swanston	0.1N	1190	1360	1.1				1190								
FEATHER RIVER																
Sutter Basin Corporation	2.60R	1833	3678	2.0												
Garden Highway Mutual Water Co.	13.1R	1160	3152	2.7		1049		29							755	
Plumas Mutual Water Company	17.5L	1195	5264	4.4		109	100	100				851				
Oswald Water District	21.4R	537	2751	5.1	760	25						435				
												470				

NOTE: For footnotes see end of table.

TABLE 145 (CONTINUED)

CROPS, ACREAGES IRRIGATED AND USE OF WATER BY LARGER DIVERTERS (1)
IN THE
SACRAMENTO AND SAN JOAQUIN VALLEYS - 1935

Water User and Diversion Source	*Mile and Bank	Total Acreage Irrigated	Diversion Acre-Feet		Irrigated Crops - Acres									
			Mar.-Oct. (2)	per Acre	Alfalfa	Beans	Beets	Corn	Grain	Ladino	Orchard (3)	Pasture	Sudan	Truck
SAN JOAQUIN RIVER														
Banta-Carbona Irrigation District	67.5L	13491	34058	2.5	1574	7401								
McMullin Recl. District #2075	71.0R	1915	2063	1.1					510	1604		421		1981
W. C. Blewett	5.25L	1800	1375	0.8	650									265
El Solyo Ranch	5.35L	3869	12523	3.2	154	814			45	328		1409	196	85
West Stanislaus Irrigation Dist.	15.1L	15705	44658	2.8	3300	8850			120	1200		350		400
Patterson Water Company	27.7L	14250	33377	2.3	9300	300			150	800		1000		2700
OLD SAN JOAQUIN RIVER														
East Contra Costa Irr. District	36.5L	12775	26979	2.1	681									
Byron Bethany Irr. District	40.9L	4595	10835	2.3	3449					100		8111		72
West Side Irrigation District	47.65L	8125	12405	1.5	2387		130		369	3266		417		104
Naglee Burke Irrigation District	50.4L	2000	4493	2.2	1000					450		371		495
Freemont Irrigation Association	50.9L	500	1365	2.7	450				20			20	400	150
TOM PAINE SLOUGH														
Tracy Clover Irrigation District	2.1S	535	1020	1.9	220					200			65	50
STANISLAUS RIVER														
Bret Harte Water Users Association	5.9R	900	2866	3.2	500									
McMullin Reclamation Dist. #2075	5.9R	597	2803	4.7	12	50			435					400
TOTAL														
TOTAL ACREAGE		118290	290570	2.5	29920	32860	2850	6530	9180	42	16660	1580	10940	7740
ACREAGE IN PER CENT OF TOTAL ACREAGE					25.3	27.8	2.4	5.5	7.8	—	14.1	1.3	9.2	6.6

- * Mile and Bank refers to mileage as given in Table of Diversions.
- (1) Diversion at any one point for less than 500 acres of general crops as well as those diversions which included rice acreages are not included in this tabulation.
- (2) Diversions are those measured at point of diversion and therefore include all conveyance losses, etc. For monthly distribution of diversions see tables of detailed diversions in this and previous Water Supervision reports.
- (3) Includes a small acreage of vines.

TABLE 146

MONTHLY DISTRIBUTION OF USE OF WATER ON VARIOUS CROPS IN PER CENT OF SEASONAL USE
SACRAMENTO-SAN JOAQUIN VALLEYS 1935-1942

Crop	Year	Acres	Per Cent of Seasonal Use							Diversion Acre-Feet	Acre- Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
Alfalfa	1942	4520			4	17	29	28	17	5	12410	2.7
	1941	4090		2	10	19	24	22	17	6	11460	2.8
	1940	3230		1	15	18	25	21	17	3	8060	2.5
	1939	3740		7	14	21	26	21	9	2	12210	3.3
	1938	2150			8	15	28	28	19	2	5920	2.8
	1937	3230		1	13	21	24	21	15	5	10650	3.3
	1936	2410		6	17	16	20	22	14	5	8200	3.4
	1935	5820		1	3	24	33	28	9	2	14380	2.5
Average 1935-1942		3650		2	10	19	27	24	14	4	10410	2.9
Asparagus	1942	1370						20	80		760	0.6
	1941	1270					37	17	46		1280	1.0
	1940	1340			2	6	47	7	38		2000	1.5
	1939	1360	15	7	16	26	14	10	12		1880	1.4
	1938	1180				40	22	30	8		960	0.8
	1937	890			9	27	29	16	4	15	1740	2.0
	1936	0									0	—
	1935	0									0	—
Average 1935-1942		1240	3	1	6	17	28	15	27	3	1440	1.2
Beans	1942	6480			15	21	28	29	7		11940	1.8
	1941	8650			8	17	39	33	3		12550	1.5
	1940	11610			2	19	36	34	9	—	24400	2.1
	1939	9700	7	11	17	22	17	20	6		24820	2.6
	1938	3080				8	26	53	13		3830	1.2
	1937	8750		3	15	20	25	28	9		14010	1.6
	1936	7210		3	13	20	21	30	13		17540	2.4
	1935	9910		1	5	25	31	28	10	—	23850	2.4
Average 1935-1942		8170	1	3	10	21	28	29	8		16610	2.0
Beets	1942	2210				25	45	26	4		3140	1.4
	1941	1200				23	40	31	6		1870	1.6
	1940	860				29	36	23	12		2200	2.6
	1939	1740	3	16	17	22	25	14	3		4900	2.8
	1938	3390			9	27	34	26	4		7120	2.1
	1937	2940			17	39	32	11	1		7400	2.5
	1936	2740			38	38	22	2			3980	1.4
	1935	2520			22	52	25	1			4140	1.6
Average 1935-1942		2200	1	2	15	33	31	15	3		4340	2.0
Corn	1942	1220				6	44	46	4	—	2330	1.9
	1941	2380			3	9	38	50			3290	1.4
	1940	3270			2	15	57	25	1		4380	1.3
	1939	960		16	21	21	23	16	2	1	1960	2.0
	1938	770				31	34	25	9	1	840	1.1
	1937	980				28	35	28	9		1740	1.8
	1936	0									0	—
	1935	0									0	—
Average 1935-1942		1600		2	4	16	42	33	3	—	2420	1.5

TABLE 146 (CONTINUED)

MONTHLY DISTRIBUTION OF USE OF WATER ON VARIOUS CROPS IN PER CENT OF SEASONAL USE
SACRAMENTO-SAN JOAQUIN VALLEYS 1935-1942

Crop	Year	Acres	Per Cent of Seasonal Use							Diversion Acre-Feet	Acre- Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sep.			Oct.
Hops	1942	540				19	70	10	1	460	0.8	
	1941	480				33	51	16		710	1.5	
	1940	500				36	52	12		740	1.5	
	1939	460		4	27	45	23	1		920	2.0	
	1938	340				22	63	15		240	0.7	
	1937	400			2	40	47	11		660	1.4	
	1936	0								0		
1935	330				9	87	4		270	0.8		
Average 1935-1942		450		1	7	34	49	9	—	570	1.3	
Orchard	1942	2840		1	2	32	48	14	3	4200	1.5	
	1941	2190			—	32	46	18	3	3350	1.5	
	1940	2840		—	5	30	40	17	5	6120	2.2	
	1939	3920	8	16	18	23	22	9	3	12380	3.2	
	1938	3640			1	20	50	22	5	6000	1.6	
	1937	4550	2	2	11	31	29	14	7	10600	2.3	
	1936	2730		—	3	30	39	15	9	5850	2.1	
1935	3060		—	3	35	37	16	6	7450	2.4		
Average 1935-1942		3220	2	4	8	28	36	15	5	6990	2.2	
Rice	1942	56230			13	21	25	24	14	3	424800	7.6
	1941	40450		—	17	17	23	23	14	6	318400	7.9
	1940	31180		1	20	22	22	20	10	5	261370	8.4
	1939	29700		13	20	20	21	20	6	—	254000	8.6
	1938	38080		1	20	22	22	23	12		313800	8.2
	1937	34790		2	20	20	24	23	11		257000	7.4
	1936	36630		6	22	20	23	21	8		278600	7.6
1935	7680			18	23	23	23	12	1	66130	8.6	
Average 1935-1942		34340		3	18	21	23	22	11	2	271800	7.9
Truck	1942	2030		—	6	16	38	21	14	5	3720	1.8
	1941	2220		1	10	17	27	28	12	5	4550	2.1
	1940	1720		1	6	20	33	27	8	5	3130	1.8
	1939	630	2	7	16	21	23	20	8	3	1250	2.0
	1938	1510		1	7	19	30	28	11	4	3070	2.0
	1937	2760	—	2	7	22	31	23	11	4	5120	1.9
	1936	2340	1	3	14	17	27	21	14	3	4980	2.1
1935	1180	—	1	14	22	24	21	13	5	2530	2.1	
Average 1935-1942		1800	—	2	10	19	29	24	12	4	3540	2.0
TOTAL General Crops		22330	1	3	10	22	30	24	9	1	46320	2.1
Rice		34340		3	18	21	23	22	11	2	271800	7.9

NOTE: This table is a summary of the data in Tables 147 to 154 in which only those areas were listed for which one point of diversion served one crop. Therefore the tabulations are a compilation of many small areas, for the most part, adjacent to the diversion source. The diversion figure is the total amount of water pumped and the area irrigated is the gross cropped area.

See Table 53 for monthly diversion percentages in Sacramento-San Joaquin Valleys.

TABLE 1.47

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1942

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre-Feet per Acre		
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.	
<u>ALFALFA AND SUDAN GRASS</u>													
SACRAMENTO RIVER	18.45R	100											
	28.2R	30											
	145.8L	20				17		54	59	9	47	169	1.7
	146.5L	10						25	5	19		66	2.2
	148.9R	70							12	11	9	32	1.6
	152.2R	30							3	5		8	0.8
	154.6R	12				20		34	40	34	27	135	1.9
	154.8R	80						25	18	17	2	82	2.7
	206.75L	36						7	7	7	3	24	2.0
	213.0R	30						89	91	99		279	3.5
							44	43				87	2.4
								48	62		37	147	4.9
TOTAL		418					81	325	297	201	125	1029	2.5
PER CENT OF TOTAL							7.9	31.5	29.0	19.5	12.1		
<u>BY PASS AND DRAINAGE CHANNELS</u>													
Yolo By-Pass	5.9N	65						49	42	42		133	2.0
TOTAL		65						49	42	42		133	2.0
PER CENT OF TOTAL								36.8	31.6	31.6			
<u>FEATHER RIVER</u>													
	7.7L	196						50	145	112	131	438	2.2
	43.7L(1.25)	78			20			67	28	38	14	167	2.1
	47.9L	60						41	75			116	1.9
	51.1L	55						54	40	57	39	193	3.5
TOTAL		389			20			171	254	282	184	914	2.4
PER CENT OF TOTAL					2.0			18.7	27.8	30.9	20.2		
<u>YUBA RIVER</u>													
	1.8R	8						13	15	12		40	5.0
TOTAL		8						13	15	12		40	5.0
PER CENT OF TOTAL								32.5	37.5	30.0			

* Mile and bank refers to mileage as given in Table of Diversions.

TABLE 147 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1942

Crops and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre- Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
AMERICAN RIVER	5.7L	145					33	77	37	16	163	1.1
	11.5L	55			10	26	30	40	20		126	2.3
	13.1R	8					8	5	4		17	2.1
TOTAL		208			10	26	71	122	61	16	306	1.5
PER CENT OF TOTAL					3.3	8.5	23.2	39.8	20.0	5.2		
SAN JOAQUIN RIVER	45.45R	90				54	60	59	45		218	2.4
	45.5R	25		2		9	10	9	1	7	38	1.5
	46.85R	160						101		113	214	1.3
	48.3R	165				66	90	52	68		276	1.7
	49.5R	60			37	55	53	41	49	19	254	4.2
	50.1R	40			12	24	27	29	22	9	123	3.1
	52.8R	25						20	8		28	1.1
	60.1R	52					11	13			24	0.5
	91.8L	65			18	13	20	74	61		186	2.9
	91.8L	90				65	85	77	11		238	2.5
	104.5R	90			85	1	161	67	57	36	407	4.5
114.35R	23		7	2		17	17	7	8	60	2.6	
TOTAL		885		7	156	289	534	559	329	192	2066	2.3
PER CENT OF TOTAL				.3	7.6	14.0	25.8	27.1	15.9	9.3		
<u>STANISLAUS, TUOLUMNE AND MERCED RIVERS</u>												
Stanislaus River	3.1R	17				6	5	4		4	19	1.1
	6.7L	70			78	49	110	128	72	53	490	6.9
	10.5L	30			14	22	16	17	18	2	89	3.0
	20.75R	275				283	298	531	229		1341	4.9
	20.9L	30			21	24	28	28	22	11	134	4.5
Tuolumne River	20.5R	52					15	19		23	57	1.1
Merced River				14	12	164	537	431	261	17	1436	2.8
	3.8R	515			6	44	65	49	29		193	2.4
	5.8L	82									723	2.1
	9.4L	340			53	210	170	162	128		1211	3.0
	10.35L	404			121	283	341	264	165	37	1211	3.0
	11.55L	4				1					1	0.2
11.6L	70			39	64	23	37	19		182	2.6	
16.5L	85				82	142	110	53	126	513	6.0	

* Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 147 (CONTINUED)
 USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1942

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre-Feet per Acre			
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.		
<u>ALFALFA AND SUDAN GRASS (Continued)</u>														
<u>Merced River (Continued)</u>														
	21.1R	30												
	22.2R	200											18	0.6
	23.8R	22				137	234	8	10				544	2.7
	24.6R	25					9	6	2				17	0.8
	27.6R	100					21	2	7				30	1.2
	29.1R	55					91	141	144				376	3.8
	29.75R	30				39	66	34	15	4			158	2.9
	29.9R	48				13	12	18	9				52	1.7
	30.2L	25					59	103					162	3.4
	30.95R	40				13	13	14	20	22			82	3.3
						36	37	15	9				97	2.4
	TOTAL	2549												
	PER CENT OF TOTAL			14	344	1470	2292	2214	1274	317	7925	3.1		
				0.2	4.3	18.5	28.9	28.0	16.1	4.0				
	ALL SOURCES	4522												
	TOTAL			21	530	2037	3538	3531	2103	653	12413	2.7		
	PER CENT OF TOTAL			0.2	4.3	16.4	28.5	28.4	16.9	5.3				
<u>ASPARAGUS</u>														
<u>SACRAMENTO RIVER</u>														
	10.75R	225												
	TOTAL	225							112	44			156	0.7
	PER CENT OF TOTAL								112	44			156	0.7
									72.0	28.0				
<u>BY-PASS AND DRAINAGE CHANNELS</u>														
<u>Yolo By-Pass</u>														
	2.4N	985												
	TOTAL	985							20	505			525	0.5
	PER CENT OF TOTAL								20	505			525	0.5
									3.8	96.2				
<u>AMERICAN RIVER</u>														
	4.2R	160												
	TOTAL	160							18	58			76	0.5
	PER CENT OF TOTAL								18	58			76	0.5
									23.6	76.4				
	ALL SOURCES	1370												
	TOTAL								150	607			757	0.6
	PER CENT OF TOTAL								20.0	80.0				

* Mile and bank refers to mileage as given in Table of Diversions

TABLE 147 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1942

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>BEANS</u>													
SACRAMENTO RIVER	13.1R	100			19	70	80	65		7		241	2.4
	26.8L	100						23				23	0.2
	29.9L	48						26				52	1.1
	30.2L	20						15		4		26	1.3
	33.75L	60										39	0.6
	38.4L	85										64	0.8
	38.8L	80										74	0.9
	39.4L	75							57			57	0.8
	39.8L	75								44		44	0.6
	44.2L	200				55	60					115	0.6
	49.7L	50				20						43	0.9
	52.0L	100				101	139					305	3.0
	61.5R	48										35	0.7
	76.2L	45				17						17	0.4
76.5R	160					59					59	0.4	
TOTAL		1246			19	263	436	465		11		1194	1.0
PER CENT OF TOTAL					1.6	22.0	36.5	39.0		0.9			
<u>BY-PASS AND DRAINAGE CHANNELS</u>													
Butte Creek	2.9L	525					410	558				968	1.8
	1.4E	180						36				88	0.5
Butte Slough	3.0E	67						35		5		48	0.7
	3.7W	30						21				38	1.3
Sutter By-Pass West	28.4	4086			1621	2145	2289	2200		794		9049	2.2
		4883			1621	2145	2791	2835		799		10191	2.1
TOTAL		4883			15.9	21.1	27.4	27.8		7.8			
PER CENT OF TOTAL													
<u>STANISLAUS, TUOLUMNE AND MERCED RIVERS</u>													
Stanislaus River	1.1R	15				19	34	13				13	0.9
	18.5R	150						78		21		152	1.0

* Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 147 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1942

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
BEANS (Continued)													
STANISLAUS, TUOLUMNE AND MERCED RIVERS (Continued)													
Merced River	11.6L	70			39	64	23	37		19		182	2.6
	12.35L	110			29	52	51	79				211	1.9
TOTAL		345			68	135	108	207		40		558	1.6
PER CENT OF TOTAL					12.2	24.2	19.4	37.1		7.1			
ALL SOURCES	TOTAL	6479			1708	2543	3335	3507		850		11943	1.8
	PER CENT OF TOTAL				14.3	21.3	27.9	29.4		7.1			
BEETS													
SACRAMENTO RIVER	1.45R	132				17	133	12				162	1.2
	5.05R	106					120	56				176	1.7
	6.0R	79				16	24					40	0.5
	7.5L	80					6	34		24		64	0.8
	9.9R	110					64	131		40		235	2.1
	29.7R	67					24	26		16		66	1.0
	29.75R	64					22	11				33	0.5
	30.6R	189					39	57				96	0.5
	30.9L	35			20		18					38	1.1
	31.5R	50					22	20				42	0.8
	34.85L	106					18	48				66	0.6
	63.65L	70					35	6				41	0.6
	64.9R	237					98	237	139			474	2.0
	65.8R	60					47	15				62	1.0
	69.0R	400					342	313				655	1.6
	72.3L	90					55					55	0.6
	115.9R	46				52	52	46		28		178	3.9
	116.9L	180				87	153	102				342	1.9
TOTAL		2101				714	1321	682		108		2825	1.3
PER CENT OF TOTAL						25.3	46.7	24.2		3.8			
FEATHER RIVER	6.44L	35					23	26		19		68	1.9
TOTAL							23	26		19		68	1.9
PER CENT OF TOTAL							33.8	38.2		28.0			

* Mile and bank refers to mileage as given in Table of Diversions.

TABLE 147 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1942

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>BEETS (Continued)</u>												
SAN JOAQUIN RIVER	45.6R	62				55	42	28			125	2.0
	91.8L	109					34	88			122	1.1
TOTAL		171				55	76	116			247	1.4
PER CENT OF TOTAL						22.2	30.8	47.0				
ALL SOURCES TOTAL		2207				769	1420	824	127		3140	1.4
PER CENT OF TOTAL						24.5	45.2	26.2	4.1			
<u>CORN</u>												
SACRAMENTO RIVER	6.6R	70					8	44	22		74	1.1
	60.4L	160				11	71				82	0.5
	95.6L	400					430	269			699	1.7
	116.7R	22				14	15				29	1.3
TOTAL		652				25	524	313	22		884	1.4
PER CENT OF TOTAL						2.8	59.3	35.4	2.5			
BY PASS AND DRAINAGE CHANNELS												
Colusa Trough	22.0R	235				99	107	146	28		380	1.6
Yolo By-Pass	1.1S	250					340	600			940	3.8
TOTAL		485				99	447	746	28		1320	2.7
PER CENT OF TOTAL						7.5	33.9	56.5	2.1			
FEATHER RIVER	52.1L	80					54	17	47	4	122	1.5
TOTAL		80					54	17	47	4	122	1.5
PER CENT OF TOTAL							44.3	13.9	38.5	3.3		
ALL SOURCES TOTAL		1217				124	1025	1076	97	4	2326	1.9
PER CENT OF TOTAL						5.3	44.1	46.2	4.2	0.2		

* Mile and Bank refers to mileage as given in Table of Diversions.

* Mile and Bank refers to mileage as given in Table of Diversions.

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1942

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre		
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.	
HOPS													
SACRAMENTO RIVER	4.65R	78					42		8			50	0.6
	5.3R	54				9	9					18	0.3
	5.5R	37				7	11					18	0.5
	5.55R	40				4	19					23	0.6
	8.5R	83				32	79		12			123	1.5
TOTAL		292				52	160		20			232	0.8
PER CENT OF TOTAL						22.4	69.0		8.6				
AMERICAN RIVER													
	6.5R	50				2	37					39	0.8
	7.5R	100				22	90					112	1.1
	7.8R	44				11	28					39	0.9
	9.35L	50					3		25	5		33	0.7
TOTAL		244				35	158		25	5		223	0.9
PER CENT OF TOTAL						15.8	70.8		11.2	2.2			
ALL SOURCES TOTAL		536				87	318		45	5		455	0.8
PER CENT OF TOTAL						19.1	70.0		9.9	1.0			
ORCHARDS													
SACRAMENTO RIVER	2.15L	38				18	37		13	19		87	2.3
	2.9L	23				9	13		11	7	2	42	1.8
	3.55R	161				257	108					365	2.3
	16.27R	28					14		25			39	1.4
	69.2R	146					196		21			217	1.5
	76.1L	65							48			48	0.7
	80.3R	45					31				7	38	0.8
	86.1R	70					51					51	0.7
	86.8L	80				7	30					37	0.5
	87.4R	35				16	44					60	1.7
	87.7R	140			80	64				36		180	1.3
	88.0R	20					8					8	0.4
	88.7L	125					83					83	0.7
	91.1L	20									20	20	1.0
	92.5L	52										37	0.7
	98.0L	40							27	10		51	1.1
	101.1R	133					20		31			51	1.1
	104.8L	150				134	131		41			306	2.3
	106.0R	150					125					125	0.8
						42	95		14			151	1.0

* Mile and bank refers to mileage as given in Table of Diversions.

TABLE 147 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1942

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-feet								Total Acre-Feet	Acre-feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
SACRAMENTO RIVER (Continued)	110.0R	145				95	76					171	1.2
	112.6R	83				35	20					55	0.7
	115.5L	26				19	10					29	1.1
	217.5L	54				27	30	1				58	1.1
	218.0L	50					38	25				63	1.3
TOTAL		1879			80	806	1077	257	72	29	2321	1.2	
PER CENT OF TOTAL					3.5	34.7	46.3	11.1	3.1	1.3			
FEATHER RIVER	18.75R	74				22	69	16	11		118	1.6	
	43.7L (1.2)	208				145	232	37	33		447	2.2	
	49.0L	55				5	88	11			104	1.9	
	51.0R	46					44	24			68	1.5	
	51.4R	105				11	140	93			244	2.3	
	57.0L	30				27	111	66			204	6.8	
	57.9R	70			2	45	32	33			112	1.6	
TOTAL		588			2	255	716	280	44		1297	2.2	
PER CENT OF TOTAL					0.2	19.5	55.2	21.7	3.4				
YUBA RIVER	4.75L	136		36		145	48	21			250	1.8	
	5.3L	50				5	52	7			64	1.3	
TOTAL		186		36		150	100	28			314	1.7	
PER CENT OF TOTAL				11.5		47.8	31.8	8.9					
AMERICAN RIVER	10.4R	17				33	17				50	2.9	
	11.7L	27				8	15				23	0.8	
	13.2R	46					41	23			64	1.4	
	13.9R	66				70	11				81	1.2	
	15.1R	33					48				48	1.4	
TOTAL		189				111	132	23			266	1.4	
PER CENT OF TOTAL						41.7	49.6	8.7					
ALL SOURCES TOTAL		2842		36	82	1322	2025	588	116	29	4198	1.5	
PER CENT OF TOTAL				0.8	2.0	31.5	48.2	14.0	2.8	0.7			

* Mile and bank refers to mileage as given in Table of Diversions.

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS -- 1942

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-feet								Total Acre- Feet	Acre-feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
RICE													
SACRAMENTO RIVER	22.5R	550			400	1057	858	785	692			3792	6.9
	36.2L	175			260	267	312	249	466		58	1612	9.2
	43.1R	4845			7564	5810	10647	10418	6446		115	41000	8.5
	51.1R	2424			1900	5719	5398	4666	4000		468	22151	9.1
	63.2R	12285			17900	16422	21700	18917	7613		112	82664	6.7
	70.4R	520			200	880	1013	800	345		49	3287	6.3
	78.8R	1926			1822	2741	1845	1739	645			8792	4.6
	103.9R	450			89	632	817	637	438			2613	5.8
	154.8R	3030			1870	3740	4440	4870	1684		250	16854	5.6
	TOTAL	26205			32005	37268	47030	43081	22329		1052	182765	7.0
	PER CENT OF TOTAL				17.5	20.4	25.9	23.6	12.4		0.6		
BY-PASS AND DRAINAGE CHANNELS													
Colusa Trough	3.0L	300			107	472	791	713	434			2517	8.4
Butte Creek	20.4R	220			164	426	703	638	374			2305	10.5
	23.0R	414			666	916	1118	985	636			4321	10.4
Back Borrow Pit	11.15R	401			140	687	423	513	201			1964	4.9
	13.75R	606			320	643	835	783	143			2724	4.5
	15.75R	387			300	490	470	441	130			1831	4.7
	18.1R	1000			455	833	665	803	369			3125	3.1
	21.35R	400			45	1095	1051	803	473			3467	8.7
	22.65L	575			400	1118	1284	1117	828			4747	8.2
	28.0R	550			349	1047	546	531	563			3036	5.5
	36.65R	550			57	518	771	802	970			3118	5.7
Knights Landing Ridge Cut	0.8R	650			1130	1550	1760	1740	1070			7250	11.1
	0.82L	220			126	575	766	710	767			2944	
	TOTAL	6273			4259	10370	11183	10579	6958			43349	6.9
	PER CENT OF TOTAL				9.8	23.9	25.8	24.4	16.1				
FEATHER RIVER													
	5.6L	50				136	52	316	255			759	15.2
	58.1R	9941			13940	24330	24260	24000	18497		6676	111703	11.3
	59.7R	13759			7555	15518	22447	23096	12937		4681	86234	6.3
	TOTAL	23750			21495	39984	46759	47412	31689		11357	198696	8.4
	PER CENT OF TOTAL				10.8	20.1	23.5	23.9	16.0		5.7		

* Mile and bank refers to mileage as given in Table of Diversions.

TABLE 147 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1942

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-feet								Total Acre- Feet	Acre-feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
RICE (Continued)												
ALL SOURCES	TOTAL	56228			57759	87622	104972	101072	60976	12409	424810	7.6
	PERCENT OF TOTAL				13.6	20.6	24.7	23.8	14.4	2.9		
SACRAMENTO RIVER												
	TRUCK											
	12.7R	30			1	14	30	7	1		53	1.8
	13.25R	45			9	30	62	18	4		129	2.9
	17.75R	80					252	117			369	4.6
	123.8R	4					1	1			2	0.5
	TOTAL	159			10	50	345	143	5		553	3.3
	PER CENT OF TOTAL				1.8	9.0	62.4	25.9	0.9			
SAN JOAQUIN RIVER												
	48.55R	47		6	16	27	33	37	27	8	154	3.3
	49.0R	23				6	17	18	9		50	2.2
	50.4R	30				13	19	9			41	1.4
	50.6R	35			3	1	18	10	8		40	1.1
	52.5R	14			3	1	7	4	2	2	19	1.4
	53.7R	50						46	26		72	1.4
	57.5R	10		3	4	8	6	6	4	1	32	3.2
	59.25R	40			9	14	9	6	18	4	60	1.5
	70.0R	100					12	27	13		52	0.5
	70.5R	150					82	25	12		119	0.8
	71.0R	700				133	314	207	256	32	942	1.3
	TOTAL	1199		9	35	203	517	395	375	47	1581	1.3
	PER CENT OF TOTAL			0.6	2.2	12.8	32.7	25.0	23.7	3.0		
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
	Tuolumne River											
	15.75R	15			5	5	8	10	10	2	40	2.7
	25.7L	5					2				2	0.4
	26.0L	40			15	12	45	8			80	2.0
	26.2L	18			9	4					13	0.7

* Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 147 (CONTINUED)

USE OF WATER ON V. RICUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1942

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre-feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
TRUCK (Continued)												
STANISLAUS, TUOLUMNE AND MERCED RIVERS (Continued)												
Merced	8.85L	70			31	30	56	25	29	9	180	2.6
	10.6R	8					1	1	1		4	0.5
	10.8R	10					2	4			6	0.6
	17.05L	17			5	7	7	7	2		28	1.6
	17.7L	5					3	4	4	3	14	2.8
	20.4L	60			4	28	40	28	2		102	1.7
	20.65R	5			1	1	1	1	1		5	1.0
	23.3R	120			70	81	79	93	42	73	438	3.6
	25. CR	10				8	3				11	1.1
	26.3R	91			13	70	184	71	47	48	433	4.8
	28.1R	20				18	9	7	3		37	1.8
	28.4R	18			11	15	9	5	4	1	45	2.5
	32.9R	35					25				25	0.7
	33.55R	126			1	58	66		1		126	1.1
TOTAL		673			165	337	540	264	146	137	1589	2.4
PER CENT OF TOTAL					10.4	21.2	34.0	16.6	9.2	8.6		
ALL SOURCES TOTAL		2031		9	210	590	1402	802	526	184	3723	1.8
PER CENT OF TOTAL				0.2	5.7	15.8	37.7	21.5	14.1	5.0		

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 148

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1941

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
ALFALFA AND SUDAN GRASS												
SACRAMENTO RIVER	11.6L	40						61			61	1.5
	18.45L	80					41	43	15		99	1.2
	30.7R	5				1					1	0.2
	32.0R	55					34	77	63	20	194	3.5
	64.3R	20						48	14		62	3.1
	70.4L	31						11	10		21	0.7
	145.8L	20				13	15	11		2	41	2.0
	146.5L	10							11		11	1.1
	148.9R	70				28	27	31		26	112	1.6
	154.6R	12				4	9	6		5	24	2.0
213.0R	20					40	17		5	62	3.1	
TOTAL		417			6	138	251	326	140	46	907	2.2
PER CENT OF TOTAL					0.7	15.2	27.6	36.0	15.4	5.1		
FEATHER RIVER	7.7L	206				40	173	131	143	63	550	2.7
	43.7L(1.25)	80			21	35	51	7	9	6	129	1.6
	TOTAL	286			21	75	224	138	152	69	679	2.4
PER CENT OF TOTAL					3.1	11.0	33.0	20.3	22.4	10.2		
AMERICAN RIVER	5.7L	110					56	79	25		160	1.5
	9.55L	13					10	10	6	9	35	2.7
	11.5L	60				19	33	24	16	10	93	1.5
	13.1R	8				6	5	2	5		18	2.3
	TOTAL	191				16	104	115	52	19	306	1.6
PER CENT OF TOTAL					5.2	34.0	37.6	17.0	6.2			
SAN JOAQUIN RIVER	45.45R	90				48	23	49	27	9	156	1.7
	45.6R	62			23	44	55	25	17	14	178	2.9
	46.85R	160				77	70	73			220	1.4
	47.2R	30					45	9			54	1.8
	48.0R	187					76	128	143	60	482	2.6
	49.5R	50			26	33	43	13	37	14	166	3.3
	52.2R	20					5	15	2		22	1.1
	59.3R	115					138	118	88		344	3.0
	60.1R	52					12	18	12		42	0.8

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 14B (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1941

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
SAN JOAQUIN RIVER (Continued)												
	98.9L	68				114	163	43	75	22	417	6.1
	104.5R	90			30	74	40	74	61	10	279	3.1
	114.35R	25						14	3		27	1.1
TOTAL		949			101	466	677	630	391	122	2387	2.5
PER CENT OF TOTAL					4.2	19.5	28.4	26.4	16.4	5.1		
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Stanislaus River												
	6.7L	78			71	95	71	74	60	12	383	4.9
	8.2L	65				36	41	42	19		138	2.1
	9.8R	289	12	87	178	237	313	279	297	96	1499	5.2
	10.0R	200		95	336	278	285	272	251	125	1642	8.2
	10.5L	30			13	19	17	16	7		72	2.4
	20.9L	15			8		20	30	15		73	4.9
Tuolumne River												
	3.1R	28						23	16		39	1.4
	8.4R	60			78	98	51	84	74	26	411	6.8
	20.3R	35				19	10				29	0.8
	26.0L	31						23			23	0.7
Merced River												
	5.8L	82			38	67	62	39	32	14	252	3.1
	9.4L	310			75	330	204	129	98	62	898	2.9
	10.35L	506			192	198	295	210	127	30	1052	2.1
	21.1R	30					7	8	7		22	0.7
	22.2R	100					61	22	46		129	1.3
	26.55R	31			4	7	12	14	8	7	52	1.7
	27.6R	95				21	15	11	54		101	1.1
	29.1R	63			30	11	14	47	43		145	2.3
	29.75R	40				9	10	6	11	1	37	0.9
	29.9R	12						18			18	1.5
	30.95R	150				15	49	18	45	40	167	1.1
TOTAL		2250	12	182	1023	1440	1537	1365	1210	413	7182	3.2
PER CENT OF TOTAL			0.2	2.5	14.3	20.0	21.4	19.0	16.8	5.8		
ALL SOURCES TOTAL		4093	12	182	1151	2135	2793	2574	1945	669	11461	2.8
PER CENT OF TOTAL			0.1	1.6	10.1	18.6	24.4	22.4	17.0	5.8		

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 148 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1941

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ASPARAGUS</u>												
SACRAMENTO RIVER	10.75R	225					45	109			154	0.7
TOTAL		225					45	109			154	0.7
PER CENT OF TOTAL							29.0	71.0				
<u>BY-PASS AND DRAINAGE CHANNELS</u>												
Yolo By-Pass	2.4N	886					430	67	555		1052	1.2
TOTAL		886					430	67	555		1052	1.2
PER CENT OF TOTAL							41.0	6.0	53.0			
AMERICAN RIVER	4.2R	160						45	25		70	0.4
TOTAL		160						45	25		70	0.4
PER CENT OF TOTAL								64.0	36.0			
ALL SOURCES		1271					475	221	580		1276	1.0
PER CENT OF TOTAL							37.2	17.3	45.5			
<u>BEANS</u>												
SACRAMENTO RIVER	26.8L	80						30			30	0.4
	29.75R	64							20		20	0.3
	29.9L	48					33	32			65	1.4
	33.5R	60					91	98			189	3.0
	33.85R	15					22	12			34	2.3
	34.85L	106					97		34		131	1.2
	36.45L	45				4	31	14			49	1.1
	38.4L	85					105	19	39		163	1.6
	38.8L	80						72			72	0.9
	39.4L	75							49		49	0.7
	42.3L	50						45	32		77	1.5
	52.0L	190					52	246	85	12	395	2.1
	52.9L)							154	31		185)	
	53.9L)	315						296	54	100	450)	2.0
	56.42R	13									10	0.8
	56.95L	160						8	2		10	0.8
							153	10	65	4	232	1.4

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 148 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1941

Crop and Diversion Source	Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
BEANS (Continued)													
SACRAMENTO RIVER (Continued)													
	57.5L	120				55	53	120				228	1.9
	65.7L	100					165	165				330	3.3
	76.2L	45					10	16				26	0.6
	76.5R	190				141	89	70				300	1.6
	79.3R	32						28				28	1.1
	TOTAL	1873											
	PER CENT OF TOTAL					405	1455	945	258			3063	<u>1.6</u>
						13.2	47.5	30.9	8.4				
BY-PASS AND DRAINAGE CHANNELS													
Butte Creek	2.9L	600					654	702				1356	2.3
Butte Slough	1.4E	120					38	57				95	0.8
Sutter By-Pass West	28.4R	466			887	1631	2278	1660				6456	1.4
Sutter By-Pass East	0.4S	400					76	308	40			424	1.1
	6.0N	300					180	120				300	1.0
Knights Landing Ridge Cut	4.9R	85						82				82	1.0
Yolo By-Pass	10.1N	200						240				240	1.2
	TOTAL	6365											
	PER CENT OF TOTAL					887	1631	3226	3169	40		8953	<u>1.4</u>
						9.9	18.2	36.1	35.4	0.4			
SAN JOAQUIN RIVER													
	53.2R	100				11	2	29				42	0.4
	56.0R	20					10	10				20	1.0
	70.0R	20					2	5				7	0.4
	TOTAL	140											
	PER CENT OF TOTAL					11	14	44				69	<u>0.5</u>
						16.0	20.0	64.0					

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 148 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1941

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>BEANS (Continued)</u>													
STANISLAUS, TUOLUMNE AND MERCED RIVERS													
Merced River	10.8R	40							4:			4	0.1
	11.6L	140			81:	68:	80:	51:				287	2.1
	12.35L	90				38:	76:		7:		1:	177	2.0
TOTAL		270			81:	106:	156:	55:	69:	1:	468	1.7	
PER CENT OF TOTAL					17.3:	22.6:	33.3:	11.8:	14.8:	0.2:			
ALL SOURCES TOTAL		8648			968:	2153:	4851:	4213:	367:	1:	12553	1.5	
PER CENT OF TOTAL					7.7:	17.1:	38.7:	33.6:	2.9:	--:			
<u>BEETS</u>													
SACRAMENTO RIVER													
	6.0R	79					23:	36:				59	0.7
	35.62L	170				31:	54:	92:	35:			212	1.2
	49.7L	75				60:	63:	32:				155	2.1
	61.5R	68					81:	63:	23:			167	2.5
	65.8R	70					29:	15:	11:			55	0.8
	66.4R	560				321:	427:	286:	43:			1077	1.9
	115.85L	175				15:	64:	65:				144	0.8
TOTAL		1197				427:	741:	589:	112:		1869	1.6	
PER CENT OF TOTAL						22.8:	39.7:	31.5:	6.0:				
ALL SOURCES TOTAL		1197				427:	741:	589:	112:		1869	1.6	
PER CENT OF TOTAL						22.8:	39.7:	31.5:	6.0:				
<u>CORN</u>													
SACRAMENTO RIVER													
	79.7L	30					31:					31	1.0
	95.6L	600					351:	1005:				1356	2.3
	95.8L	975					203:	391:				594	0.6
	161.7L	220				170:	227:					397	1.8
TOTAL		1825				170:	812:	1396:			2378	1.3	
PER CENT OF TOTAL						7.0:	34.0:	59.0:					

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 148 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1941

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>CORN (Continued)</u>													
BY-PASS AND DRAINAGE CHANNELS													
Butte Creek	14.4R	150			92	138	92					322	2.1
Yolo By-Pass	0.7S	400					352	240				592	1.5
TOTAL		550			92	138	444	240				914	1.7
PER CENT OF TOTAL					10.1	15.1	48.6	26.2					
ALL SOURCES TOTAL		2375			92	308	1256	1636				3292	1.4
PER CENT OF TOTAL					2.8	9.4	38.2	49.6					
<u>HOPS</u>													
SACRAMENTO RIVER													
	3.05R	20						36				36	1.8
	5.3R	50				19	44					63	1.3
	5.5R	37				10	13	37				60	1.6
	5.55R	40				8	14					22	0.6
	8.5R	83				74	68	19				161	1.9
TOTAL		230				111	139	92				342	1.5
PER CENT OF TOTAL						32.5	40.7	26.8					
FEATHER RIVER	25.2R	50				56	88	1				145	2.9
TOTAL		50				56	88	1				145	2.9
PER CENT OF TOTAL						39.0	60.0	1.0					
AMERICAN RIVER	7.5R	104				33	86	4				123	1.2
	7.8R	44				12	42					54	1.2
	9.35L	50				14	5	14				33	0.7
TOTAL		198				69	133	18				220	1.1
PER CENT OF TOTAL						31.4	60.3	8.3					
ALL SOURCES TOTAL		478				236	360	111				707	1.5
PER CENT OF TOTAL						33.4	51.1	15.5					

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 148 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1941

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Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
ORCHARDS													
SACRAMENTO RIVER	2.4L	38			5	14	13	15		11		58	1.5
	2.9L	25				9	13	11		7	2	42	1.7
	3.55R	161				262	64					326	2.0
	76.1L	65						41				41	0.6
	80.3R	45					36					36	0.8
	86.1R	70					48					48	0.7
	87.4R	35					58					58	1.7
	87.7R	129				39	94					133	1.0
	88.6R	20					7					7	0.4
	88.2L	35					38					38	1.1
	91.1L	15						1		10		11	0.7
	92.5L	45					32					32	0.7
	96.8R	150					21	82				103	0.7
	98.0L	10					7					7	0.7
	98.6L	20					5					5	0.2
	99.8L	30					24					24	0.8
	101.1R	133				5	137	145				287	2.2
	111.2R	27					15					15	0.6
	112.6L	25					17					17	0.7
	115.5L	26				16	14					30	1.2
	166.8R	4				1	1	2		1		5	1.2
	217.5L	54				11	39	15		2		67	1.2
	218.0L	33					33					33	1.0
	TOTAL	1195			5	357	716	312		31	2	1423	1.2
	PER CENT OF TOTAL				0.4	25.0	50.3	21.9		2.2	0.2		
FEATHER RIVER	18.75R	62				36	89	23		60		208	3.3
	43.7R	188				162	103	106				371	2.0
	49.0L	55				14	74	20				108	2.0
	51.0R	46				6	39	7				52	1.1
	51.4R	105					121	40				161	1.5
	57.0L	30				78	79	23		14		194	6.5
	57.9R	70				23	39				27	89	1.3
	TOTAL	556				319	544	219		74	27	1183	2.1
	PER CENT OF TOTAL					26.9	46.0	18.5		6.3	2.3		

* Mile and Bank refers to mileage as given in Table of Divisions.

TABLE 148 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1941

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre		
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.	
<u>ORCHARDS (Continued)</u>													
YUBA RIVER	4.75L	196				227	55	32					
	5.3L	50				77						314	2.3
TOTAL		186				304	55	32				391	2.1
PER CENT OF TOTAL						78.0	14.0	8.0					
AMERICAN RIVER	10.2R	15				9	15					24	1.6
	10.4R	17				2	49					51	3.0
	11.7L	27					13					13	0.5
	13.2R	46				15	70	24				109	2.4
	15.1R	32					20					20	0.6
TOTAL		137				26	167	24				217	1.6
PER CENT OF TOTAL						12.0	77.0	11.0					
<u>STANISLAUS, TUOLUMNE AND MERCED RIVERS</u>													
Stanislaus River	21.75R	90				66	15					81	0.9
	22.3R	7					6					6	0.9
Tuolumne River	15.25R	20					46					46	2.3
TOTAL		117				66	67					133	1.1
PER CENT OF TOTAL						50.0	50.0						
ALL SOURCES		2191			5	1072	1549	587	105	29		3347	1.5
PER CENT OF TOTAL					0.1	32.0	46.2	17.6	3.2	0.9			
<u>RICE</u>													
SACRAMENTO RIVER	19.6L	960				2215	2021	2347	1986	1272		9841	10.5
	22.5R	790				769	1550	1508	1361	1250	81	6519	8.2
	43.1R	4533			120	6118	4500	8000	8370	4330		31488	7.0
	63.2R	10158			266	16000	14300	16800	16000	5600		68966	6.8
TOTAL		16441			386	25102	22371	28655	27717	12502	81	116814	7.1
PER CENT OF TOTAL					0.3	21.5	19.2	24.5	23.7	10.7			

* Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 148 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1941

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>RICE (Continued)</u>													
BY-PASS AND DRAINAGE CHANNELS													
Colusa Trough	3.0L	140		58	301	218	170	150	145	15	1057	7.5	
	4.5L	190			20	242	390	400	343		1395	7.4	
Back Borrow Pit	1.45R	500			154	483	582	625	566		2410	4.8	
	20.0R	435			125	819	677	552	447		2620	6.0	
	27.15R	310			189	633	657	647	486		2612	8.4	
	28.0R	250			100	713	670	603	275		2361	9.8	
	33.5R	400			308	840	868	868	531		3415	8.5	
Sutter By-Pass West	24.4R	842		250	1550	1500	1550	1480	1100		7430	8.8	
Sutter By-Pass East	1.4N (1.3)	500			207	502	680	574	430		2393	4.8	
	1.4N (2.0)	300			47	328	641	423	368		1807	6.0	
	5.7N	300			18	610	695	649	563		2535	8.5	
	7.1N	300				342	628	589	441	34	2034	6.8	
Knights Landing Ridge Cut	0.8R	803			1017	1622	1393	1357	590		5979	7.5	
TOTAL		5260			308	4036	8852	9601	8917	6285	38048	7.2	
PER CENT OF TOTAL					0.8	10.6	23.3	25.2	23.5	16.5	0.1		
FEATHER RIVER	58.1R	10581			600	16270	14400	19590	19780	17300	10290	98230	9.4
	59.7R	8165			208	7843	8744	16437	15814	8624	7650	65320	8.0
TOTAL		18746			808	24113	23144	36027	35594	25924	17940	163550	8.7
PER CENT OF TOTAL					0.5	14.7	14.2	22.0	21.8	15.8	11.0		
TOTAL		40447			1502	53251	54367	74283	72228	44711	18070	318412	7.9
ALL SOURCES PER CENT OF TOTAL					0.5	16.7	17.1	23.3	22.7	14.0	5.7		
<u>TRUCK</u>													
SACRAMENTO RIVER	1.45R	132					71	57	6		134	1.0	
	4.0R	90				14	47	30			91	1.0	
	9.9R	110				5	75	70			150	1.4	

* Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 148 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1941

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>TRUCK (Continued)</u>													
SACRAMENTO RIVER (Continued)	12.7R	30				13	27	14	3			57	1.9
	13.25R	45				26	39	56	30		21	172	3.8
TOTAL		407				58	259	227	39		21	604	1.5
PER CENT OF TOTAL						9.6	42.8	37.6	6.5		3.5		
AMERICAN RIVER	11.2L	20		3	5	8	9	7	7		4	43	2.1
TOTAL		20		3	5	8	9	7	7		4	43	2.1
PER CENT OF TOTAL				7.0	12.0	19.0	21.0	16.0	16.0		9.0		
SAN JOAQUIN RIVER	48.3R	9			4	4	8	7	6		3	32	3.5
	48.5R	16		1	4	5	5	7	6		1	29	1.8
	48.6R	50				8	9	12	3			32	0.6
	50.6R	40		9	6	25	24	19	14		10	97	2.4
	50.8R	40			12	11	15	16	11		3	68	1.7
	51.8R	18				35	16	8	8		3	70	3.9
	52.5R	18			1	1	2	5	3		2	14	0.8
	52.65R	11					1	5				6	0.5
	52.8R	58					40	32	22		9	103	1.8
	53.4R	30				9	20	15	4			48	1.6
	53.7R	435			70	75	130	158	31			464	1.1
	54.9R	75				5	100	129				234	3.1
	57.0R	191			159	226	196	200	136		103	1020	5.3
	57.5R	10		5	8	7	12		2			34	3.4
	59.25R	50		1	14	14	10	21				60	1.2
TOTAL		1051			16	278	415	588	634		134	2311	2.2
PER CENT OF TOTAL					0.7	12.0	18.0	25.4	27.4		10.7		
STANISLAUS, TUOLUMNE AND MERCED RIVERS													
Tuolumne River	2.2R	25						10	9		9	28	1.1
	7.1R	200			64	80	114	179	144		31	612	3.1

* Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 148 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1941

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>TRUCK (Continued)</u>													
STANISLAUS, TUOLUMNE AND MERCED RIVERS (Continued)													
Tuolumne River (Continued)	7.2R	15				2	5	5		2		14	0.9
	9.2L	5						1		2	1	4	0.8
	15.75R	15		2	4	5	7	8		6	1	33	2.2
	25.0L	25				6	7	3				16	0.6
Merced River	8.85L	45			9	24	11	4		7	8	63	1.4
	17.05L	18			1	3	3	4		1	1	18	1.0
	17.3L	4						2		4	2	8	2.0
	18.4L	6				4	4	3		5		16	2.7
	20.4L	70			25	58	56	34				173	2.5
	24.0R	12				4	4					8	0.7
	25.0R	55			14		15	14		10		53	1.0
	25.5R	30			9	5	21	11		4	2	52	1.7
	27.5R	28			3	8	2	1				14	0.5
	28.1R	15				7	3	13		15	5	43	2.9
	28.4R	20				14	1					15	0.8
	31.5R	150			52	92	100	111		65		420	2.8
TOTAL		738		2	181	312	358	403		274	60	1590	2.2
PER CENT OF TOTAL				0.1	11.4	19.6	22.6	25.3		17.2	3.8		
ALL SOURCES TOTAL		2216		21	464	793	1214	1271		566	219	4548	2.1
PER CENT OF TOTAL				0.5	10.2	17.4	26.7	27.9		12.5	4.8		

*Mile and Bank refers to mileage as given in Table of Diversions.

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1940

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre		
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.	
<u>ALFALFA AND SUDAN GRASS</u>													
SACRAMENTO RIVER													
	7.5L	45						26	24			50	1.1
	11.6L	40						44	45			89	2.2
	16.4R	40						23		8		31	0.8
	18.45L	99					73	74	16	67	8	246	2.5
	18.7L	70						92	23	86	16	201	2.9
	31.5R	15							31			31	2.0
	57.0R	35							18	19		37	1.0
	70.4L	31					4	8	7	8		27	0.9
	71.9R	100							97	228		325	3.2
	123.8R	2						1				1	0.5
	145.8L	20						10	8			18	0.9
	140.5L	10						6	7	4		17	1.7
	148.9R	69			17		27	28	24	8	16	120	1.7
	213.0R	35					5	20				25	0.7
	213.5L	7										2	0.3
	210.4L	6										6	1.0
	241.5L	30							32	25	21	78	2.6
	TOTAL	654			17	109	364	330	452	32		1304	2.0
<u>BY-PASS AND DRAINAGE CHANNELS</u>													
Back Borrow Pit													
	29.1R	375					105	111	94			310	0.8
Butte Slough													
	5.1W	50							29			29	0.6
Yolo By-Pass													
	5.9N	123			7	94	79	54	23			257	2.1
	TOTAL	548			7	199	190	177	23			596	1.1
<u>FEATHER RIVER</u>													
	7.7L	200			44	70	184	202	208	8		716	3.6
	TOTAL	200			44	70	184	202	208	8		716	3.6
<u>YUBA RIVER</u>													
	1.8R	10						19	9	1		29	2.9
	TOTAL	10						19	9	1		29	2.9

* Mile and Bank refers to mileage as given in Table of Divisions.

TABLE 149 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1940

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
AMERICAN RIVER	5.7L	110					87	52	36		175	1.6
	13.1R	10				9	6	2	3		20	2.0
	17.1R	4				4		1			5	1.2
	TOTAL		124				13	93	55	39		200
SAN JOAQUIN RIVER	45.5R	25			8	7	7	12	5		39	1.6
	45.6R	62			3	68	38	59	29		197	3.2
	46.65R	12					7	6			13	1.1
	46.85R	120			77	50	20	22	83		252	2.1
	47.2R	44			6	7	11	10	6		40	0.9
	49.5R	40			35	31	25	25	9	27	152	3.8
	50.1R	45			34	36	44	38	39	31	222	4.9
	60.1R	52			8	26	24	16	18		92	1.8
	104.5R	85			10	31	21	31	11	20	124	1.5
TOTAL		485			181	256	197	219	200	78	1131	<u>2.3</u>
<u>STANISLAUS, TUOLUMNE AND MERCED RIVERS</u>												
Stanislaus River	6.7L	65			69	28	107	45	34	28	311	4.8
	10.5L	33			5	16	13	12	13	5	64	1.9
	20.9L	10			10	13	20	34			77	7.7
Tuolumne River	3.1R	50			17	22	28	11	14		92	1.8
	7.1R	90			219		177	36	55	59	546	6.1
	26.0L	50							23		23	0.5
Merced River	5.8L	82			81	70	57	60	31	5	304	3.7
	10.35L	506	2	53	438	367	356	242	143	29	1630	3.2
	17.7L	7				8	8	8	7	15	46	6.6
	27.6R	80					53	36	49		138	1.7
	29.1R	46			10	64	16	32	22	36	180	3.9
	29.75R	40			17	45	34	42		1	139	3.5

*Mile and Bank refers to mileage as given in Table of Diversions.

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1940

TABLE 149 (CONTINUED)

Crop and Diversion, Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
STANISLAUS, TUOLUMNE AND MERCED RIVERS (Continued)												
Merced River (Continued)	29.9R	100			69	94	87	70	43		363	3.6
	30.2L	15				20	13	5			38	2.5
	31.1L	35				58		75			133	3.8
TOTAL		1209	2	53	935	805	969	708	434	178	4084	3.4
ALL SOURCES TOTAL PER CENT OF TOTAL		3230	2	53	1184	1452	2016	1700	1356	296	8060	2.5
				0.6	14.7	18.1	25.0	21.1	16.8	3.7		
<u>ASPARAGUS</u>												
SACRAMENTO RIVER	10.75R	225					139	9	117		265	1.2
TOTAL		225					139	9	117		265	1.2
BY-PASS AND DRAINAGE CHANNELS												
Yolo By-Pass	2.4N	775			5	4	587	63	534		1193	1.5
	3.4N	171					34		36		70	0.4
TOTAL		946			5	4	621	63	570		1263	1.3
AMERICAN RIVER	5.3R	173			33	103	180	70	57	25	468	2.7
TOTAL		173			33	103	180	70	57	25	468	2.7
ALL SOURCES TOTAL PER CENT OF TOTAL		1344			38	107	940	142	744	25	1996	1.5
					1.9	5.4	47.1	7.1	37.2	1.3		

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 149 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1940

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>BEANS</u>												
SACRAMENTO RIVER	17.4R	160				172					172	1.1
	29.7R	60					65	54			119	2.0
	29.9L	45				41		24			65	1.4
	33.55L	60				25	91	70	30		216	3.6
	35.2L	185				54	139	90			283	1.5
	36.45L	45				30	50	25			105	2.3
	38.4L	85					68	52			195	2.3
	38.8L	70					69	56			192	2.7
	39.4L	82						49			49	0.6
	42.2L	40						7	10	5	22	0.6
	42.3L	50				68	25	26			119	2.4
	47.3L	175						593	108	82	783	4.5
	52.0L	200				57	261	70	58		446	2.2
	52.9L	220					174	143	91	4	412	1.9
	60.4L	80					93	76	11	43	223	2.8
	60.5L	127						9	15	65	89	0.7
	63.65L	109						19	39		58	0.5
	64.9R	240				11	206	46	31		294	1.2
	65.7L	100						141	183		324	3.2
	72.3L	54						13	14		27	0.5
	76.5R	240						95			95	0.4
TOTAL		2427				862	2090	1018	318		4288	1.8
<u>BY-PASS AND DRAINAGE CHANNELS</u>												
Back Borrow Pit	24.6L	680				65	678	540	226		1509	2.2
Butte Creek	2.9L	600				81	463	521			1065	1.8
Butte Slough	1.4E	120					63	72			135	1.1
	3.0W	55					29	7	5		41	0.7
Sutter By-Pass West	7.1L	200									74	0.4
	28.4R	4686			480	2652	3370	4369	1297		12168	2.6

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 149 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1940

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
BEANS (Continued)													
BY-PASS AND DRAINAGE CHANNELS (Continued)													
Sutter By-Pass East	0.4S	260											
	2.65N	130				1	202	368	144	7	722	2.8	
	3.85N	213					34	35			69	0.5	
	4.0N	150					355	315			670	3.1	
	19.1N	587				412	125				125	0.8	
Sacramento Slough	1.4R	325					670	395			1477	2.5	
Knights Landing Ridge Cut	6.3	270					66	96			162	0.5	
TOTAL		8276			480	3211	6147	6792	1672	7	18309	2.2	
FEATHER RIVER													
	1.55L	64											
	52.1L	100				30	7	43	13		93	1.5	
	52.5L	42				70		51			121	1.2	
	54.7R	50				5	11	8			24	0.6	
	55.1L	283					84	10	9		103	2.0	
	57.0L	30				252	320	118	27		717	2.5	
	57.9R	70			10	48	47	18	31		144	4.8	
TOTAL		639			10	465	521	265	80		1341	2.1	
YUBA RIVER													
	4.1L	65				50	25	32	30		137	2.1	
TOTAL		65				50	25	32	30		137	2.1	
STANISLAUS, TUOLUMNE AND MERCED RIVERS													
Stanislaus River	1.1R	6											
	1.6R	25						3			3	0.5	
Merced River	4.0L	15						13			13	0.5	
	10.8R	42				28	10			6	44	2.9	
	12.35L	63					14				14	0.3	
						20	34	63		14	131	2.1	

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 149 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1940

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>BEANS (Continued)</u>													
STANISLAUS, TUOLUMNE AND MERCED RIVERS (Continued)													
Merced River (Continued)	22.2R	20			8	24			36	2	21	91	4.5
	32.9R	30					24					24	0.8
TOTAL		201			8	72	82	115	2	41	320		1.6
ALL SOURCES	TOTAL PER CENT OF TOTAL	11608			498	4660	8865	8222	2102	48	24395		2.1
					2.1	19.1	36.3	33.7	8.6	0.2			
<u>BEETS</u>													
SACRAMENTO RIVER													
	4.0R	92				88	121					209	2.3
	8.95R	33				22	17					39	1.2
	30.2L	20				13	14	4				31	1.5
	32.0R	360				294	371	309	226			1200	3.3
	33.5R	73				25	91	70	30			216	3.0
	33.85R	43				29	20	13				62	1.4
	36.7L	40				30	31	3				64	1.6
	76.2L	45				27	19					46	1.0
	83.5L	80				9	13					22	0.3
	115.9R	27				45	38	68				151	5.6
	116.7R	44				64	58	40				162	3.7
TOTAL		857				646	793	507	256			2202	2.6
ALL SOURCES	TOTAL PER CENT OF TOTAL	857				646	793	507	256			2202	2.6
						29.3	36.0	23.0	11.7				
<u>CORN</u>													
SACRAMENTO RIVER													
	21.7R	125				76	19	41				136	1.1
	79.0R	405				348	279		25			652	1.6
	79.7L	14					9					9	0.6
	95.6L	536					527	452				979	1.8
	98.8L	300					200					200	0.7
TOTAL		1380				424	1034	493	25			1976	1.4

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 149 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1940

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>CORN (Continued)</u>												
BY-PASS AND DRAINAGE CHANNELS												
Back Borrow Pit	20.0R	360					293				293	0.8
Butte Creek	5.35L	240					103	103			206	0.9
	10.2R	130			102	65	90				257	2.0
	14.4R	150					175	115			290	1.9
Sutter By-Pass East	1.4N (3.3)	60				6	78				84	1.4
	4.5N	270				155		122			277	1.0
Yolo By-Pass	0.7S	270					238	216			454	1.7
	1.8S	200					170	75			245	1.2
	7.0N	210					300				300	1.4
TOTAL		1890			102	226	1447	631			2406	1.3
ALL SOURCES	TOTAL PER CENT OF TOTAL	3270			102	650	2481	1124	25		4382	1.3
					2.3	14.8	56.7	25.6	0.6			
<u>HOPS</u>												
SACRAMENTO RIVER												
	5.05R	20					32				32	1.5
	5.3R	50				27	32	5			64	1.3
	5.5R	18					12	32			44	2.4
	5.55R	35				13	16				29	0.8
	8.5R	83				69	45				114	1.4
TOTAL		206			109	137	37				283	1.4
FEATHER RIVER												
	25.2R	50					55				55	1.1
TOTAL		50					55				55	1.1

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 149 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1940

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Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre- Feet per Ac re	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>HOPS (Continued)</u>												
AMERICAN RIVER	7.5R	104			6	74	63	10			153	1.5
	7.8R	44				15	23	13			51	1.2
	9.0L	43				37	57	24			118	2.7
	9.35L	50				35	52				87	1.7
TOTAL		241				161	195	47			403	1.7
ALL SOURCES	TOTAL PER CENT OF TOTAL	497				270 30.4	387 52.2	84 11.4			741	1.5
<u>ORCHARDS</u>												
SACRAMENTO RIVER	2.4L	36			2	25	22		11		60	1.7
	2.9L	23				12	12				24	1.0
	3.55R	165				292	80				372	2.3
	76.1L	65						48			48	0.7
	79.3R	50					38				38	0.8
	83.3L	25					17	13			30	1.2
	86.1L	65					58				58	0.9
	86.1R	75				52	73	32	92		249	3.3
	86.8L	45				35	47	89			171	3.8
	87.4R	50				43	19	14			76	1.5
	88.0R	20					16				16	0.8
	88.2L	35					51	3			54	1.5
	89.25L	70					78				78	1.1
	91.1L	25					9	10	1		20	0.8
	92.5L	45					64	9			73	1.6
	93.0R	30					62				62	2.1
	93.0L	22						18			18	0.8
	96.8R	185				214	29			193	436	2.4
	98.3R	105				5	138	66			209	2.0
	101.1R	133			157	235	40	8	69		509	3.8
	111.2R	27					22	9			31	1.1
	112.6L	15					9				9	0.6
	115.5L	26				16	17				33	1.3
	117.8R	90					71	18			89	1.0

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 149 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1940

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acres	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>ORCHARDS (Continued)</u>													
SACRAMENTO RIVER (Continued)	154.8R	224					102	49				151	0.7
	166.8R	4			3	2	2	1	1	1	1	10	2.5
	217.5L	54			2	6	37	19	1			65	1.2
TOTAL		1709			164	946	1104	406	175	194		2989	1.7
FEATHER RIVER	9.75R	160				44	295	187	109			635	4.0
	18.75R	88			5	73	98	57		7		240	2.7
	43.7L(0.7)	23				19	24	4	2			49	2.1
	43.7L(1.2)	178		8	58	188	164	90	7			515	2.9
	49.0L	55				30	151	11				192	3.5
	51.0R	31				19	47	6				72	2.3
	51.4R	120				27	95	56				178	1.5
TOTAL		655		8	63	400	874	411	118	7		1881	2.9
YUBA RIVER	4.75L	86			53	122		78				253	2.9
	5.3L	50			39	76		59				168	3.4
TOTAL		136			92	192		137				421	3.1
AMERICAN RIVER	3.7L	6		3	3							6	1.0
	10.2R	35				14	49					63	1.8
	10.4R	17				31	28					59	3.5
	11.7L	27				9	33	16				58	2.1
	13.2R	46				40	49	29				118	2.6
	13.9R	77				101	226	7				334	4.3
	15.1R	15				13	23					36	2.4
TOTAL		223		3	3	208	408	52				674	2.9
STANISLAUS, TUOLUMNE AND MERCED RIVERS													
Stanislaus River	21.75R	90				61	42	23				126	1.4
	22.3R	5				9	6					15	3.0

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 149 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1940

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
STANISLAUS, TUOLUMNE AND MERCED RIVERS (Continued)												
Tuolumne River	25.0L	27				1	11	7			19	0.7
TOTAL		122				71	59	30			160	1.3
ALL SOURCES	TOTAL PER CENT OF TOTAL	2845		11	322	1817	2445	1036	293	201	6125	2.2
				0.2	5.2	29.6	40.0	16.9	4.8	3.3		
<u>RICE</u>												
SACRAMENTO RIVER	22.5R 33.75L 63.2R 154.8R	1376 235 7406 1337			1290 355 15499 2083	2552 457 11446 2459	1815 422 11380 2747	1696 353 8079 2321	2076 286 1723 764		9429 1873 49934 10374	5.8 8.0 6.7 7.8
TOTAL		10354		1807	19227	16914	16364	12449	4849		71610	6.9
BY-PASS AND DRAINAGE CHANNELS												
Back Borrow Pit	11.15R 15.75R 18.1R 21.35R	720 387 590 400			1173 412 599 414	686 556 575 694	341 454 531 670	80 442 574 640	17 2279 225		2280 1881 2279 2643	3.2 4.9 3.9 6.4
Colusa Trough	2.2L 22.0R	338 362		320	566 580	854 680	905 780	905 730	425 310	10	3655 3410	10.5 9.4
Butte Creek	23.0R	407			198	1237	1278	898	784		4395	10.8
TOTAL		3204		320	3942	5282	4959	4269	1761	10	20543	6.4
FEATHER RIVER	58.1R 59.7R	8923 8698		555 36	18590 11756	19569 14539	20188 16691	18761 15873	13765 5665	7338 5891	98766 70451	11.0 8.1
TOTAL		17621		591	30346	34108	36879	34634	19430	13229	169217	9.4
ALL SOURCES	TOTAL PER CENT OF TOTAL	31179		2718	53515	56304	58202	51352	26040	13239	261370	8.4
				1.0	20.5	21.5	22.3	19.6	10.0	5.1		

*Mile and Bank refers to mileage as given in Table of Diversions.

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 149 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1940

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>TRUCK</u>													
SACRAMENTO RIVER	1.45R	132				35	87	83				205	1.6
	5.25R	40		7	9	18	13	30	14	6		97	2.4
	6.0R	79				17	42	26				85	1.1
	9.9R	110					77	45				122	1.1
	12.5R	40					12	15				27	0.7
	12.7R	26			8	16	22	16	7	5		74	2.8
	13.25R	30			8	32	37	41	35	8		161	5.4
TOTAL		457		7	25	118	290	256	56	19		771	1.7
SAN JOAQUIN RIVER	46.3R	180			33	143	249	84	8			517	2.9
	47.3R	40				25	30	30	25			110	2.8
	48.3R	9			5	6	7	10				28	3.1
	48.5R	16		1	3	5	8	11	3	3		34	2.1
	48.6R	50				10	25	20				55	1.1
	50.4R	37			33	11	45	50		1		140	3.8
	52.5R	18		1		2	2	5	1			11	6.1
	52.65R	9					1	4				5	0.6
	53.7R	310				43	148	137	23			351	1.1
	57.5R	12		9	11	12	12	7	7	2		60	5.0
	58.4R	4			1	1	2	1				5	1.2
	58.6R	4			1	2	1	1				5	1.2
	59.25R	50	1	9	12	28	22	24	11	8		115	2.3
	91.8L	160			5	72	33	126	20	44		300	1.9
TOTAL		899	1	20	104	360	585	510	98	58		1736	1.9
STANISLAUS, TUOLUMNE AND MERCED RIVERS													
Tuolumne River	9.2L	25					11	12	1	1		25	1.0
Merced River	12.85L	100			19	114	47	2				182	1.8
	17.05L	18			6	20	19	1				46	2.5
	17.7L	7					2	1				3	4.3
	18.4L	20				2	2	2	3	1		10	0.5
	18.45L	5			2	4	5	5	4	3		23	4.6
	24.6R	100			4	6			25	5		34	0.3
	27.8R	30		13	18	6	15	14	8	4		78	2.6
	28.1R	5			4	8	4					16	3.2
	39.2L	50					38	48	48	75		209	4.2
TOTAL		360		13	53	154	143	85	89	89		626	1.7
ALL SOURCES TOTAL		1716	1	40	182	632	1018	851	243	166		3133	1.8
PER CENT OF TOTAL				1.3	5.8	20.2	32.5	27.1	7.8	5.3			

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 150

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

242

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre- Feet per Acre		
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.	
<u>ALFALFA AND SUDAN GRASS</u>													
SACRAMENTO RIVER	7.5L	75				36	20	18	50			124	1.7
	13.2R	70				16	38	29	3			94	1.3
	18.45L	100			8	16	38	29	3			478	4.5
	18.7L	65			79	60	66	140	78	55		333	5.1
	28.2R	25			26	53	60	64	6	124		73	2.9
	29.2R	85	16		5	22	8	7	8	7		186	2.2
	30.7R	8	8			21	53	45	18	41		12	1.5
	31.5R	42			3	2	3	2			2	340	8.1
	36.2L	280			38	95	67	48	78	4	10	589	2.1
	123.8R	2			130	204	4	173	78			2	1.0
	145.8L	25						15	3	8		26	1.1
	146.5L	10				2	5	4	2	2		15	1.5
	148.9R	34			3	8	28	12	18	8		77	2.3
	154.6R	10			3	1	7	8	6	5		30	3.0
	197.0L	48			78	50	67	63	62	54		374	7.8
	213.5L	7					1					1	0.1
	240.2L	142										1043	7.3
TOTAL		1034		24	494	624	509	1058	723	353	12	3797	3.7
<u>PY-PASS AND DRAINAGE CHANNELS</u>													
Butte Creek	5.35L	250				131	98	93	93			186	0.8
	14.4R	125				28	281	234	161	125	67	411	3.3
	19.3R	125										896	7.2
Sutter By-Pass East	1.4N (3.3)	100					89	126	160	38		413	4.1
	1.5N	300		70			66	93	57	34		320	1.1
Knights Landing Ridge Cut	4.7R	18					21	7	10			38	2.1
Yolo By-Pass	0.02S	156				60	13	35		33	11	152	1.0
TOTAL		1074		70	219	568	697	554	230	78		2416	2.2
<u>FEATHER RIVER</u>													
	43.7L (1.25)	65			53	49	36	43	73	14	13	281	4.3
	47.9L	110				38	142	93	157	100	3	533	4.8
	51.1L	52			35	25	65	39	42	29	7	242	4.6
TOTAL		243			88	112	254	184	279	145	23	1085	4.5

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 150 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
YUBA RIVER	1.8R	12		4	14	20	21	21	7		87	7.2
TOTAL		12		4	14	20	21	21	7		87	7.2
AMERICAN RIVER	4.1L	70		30		38	38		20		126	1.8
	7.95R	45				80	130		57	12	279	6.2
	9.2R	70			60	253	88	138	1		540	7.7
	13.1R	12			5	8	7	6	3		29	2.4
TOTAL		197		30	65	379	263	201	36		974	4.9
SAN JOAQUIN RIVER	45.5R	25		8	7	6	13	7	7		48	1.9
	45.6R	62		28	22	56	50	33	21		210	3.4
	46.65R	12				11	9	12	3		35	3.0
	46.85R	120				63	57	44			164	1.4
	47.2R	45		3	14	8	18	10			53	1.2
	49.5R	40		10	43	26	25	33	14	25	176	4.4
	50.1R	40		11	25	44	43	63	13	31	230	5.7
	54.9R	80				42	59	47	50		198	2.5
	114.35R	8		6	4	9	5	7	8		39	4.9
TOTAL		432		66	115	265	279	256	116	56	1153	2.7
OLD SAN JOAQUIN RIVER	48.7L	70		15	5	8	5	7	9		49	0.7
	51.0L	35		5	5	5	6	6	8		35	1.0
	51.2L	40		5		5	5	6	5		26	0.6
TOTAL		145		25	10	18	16	19	22		110	0.8
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Stanislaus River	6.7L	57		38	66	69	79	40	38	1	331	5.8
	20.9L	16		19	28	20	42	22			131	8.2

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 150 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
STANISLAUS, TUOLUMNE AND MERCED RIVERS (Continued)												
Merced River	5.8L	80	1	28	37	72	72	56	9	6	281	3.5
	6.1L	114			207	136	127	128	65		663	5.8
	11.4L	4			1	1	1	1			4	1.0
	17.7L	4			2		2	2			6	1.5
	27.6R	55			10	55	36	48	35		184	3.3
	29.1R	46			34	28	37	36	27	8	170	3.7
	29.9R	100			101	156	76	78	11		422	4.2
	30.2L	15			35						35	2.3
	31.1L	60			84	25	58	42			209	3.5
	39.2L	50				8	95	22	23		148	3.0
TOTAL		601	1	85	605	570	625	475	208	15	2584	4.3
ALL SOURCES	TOTAL	3738	25	862	1764	2583	3143	2528	1117	184	12206	3.3
	PER CENT OF TOTAL		0.2	7.1	14.5	21.2	25.7	20.7	9.1	1.5		
<u>SACRAMENTO RIVER ASPARAGUS</u>												
SACRAMENTO RIVER	10.75R	207	96		16	98	46	124	144		524	2.5
TOTAL		207	96		16	98	46	124	144		524	2.5
<u>BY-PASS AND DRAINAGE CHANNELS</u>												
Yolo By-Pass	2.4N	1150	179	131	285	395	225	58	79		1352	1.2
TOTAL		1150	179	131	285	395	225	58	79		1352	1.2
ALL SOURCES	TOTAL	1357	275	131	301	493	271	182	223		1876	1.4
	PER CENT OF TOTAL		14.7	7.0	16.0	26.3	14.4	9.7	11.9			
<u>SACRAMENTO RIVER BEANS</u>												
SACRAMENTO RIVER	16.3R	200			109	176	94	75			454	2.3
	29.75R	65			34						34	0.5
	29.9L	90			32	34	24	51			141	1.6
	30.2L	20				9	7	10	8		34	1.7
	31.8L	20			1	5	1	2			9	0.5

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 150 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre-Feet per Acre		
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.	
BEANS (Continued)													
SACRAMENTO RIVER (Continued)	38.4L	80											
	38.8L	70				84:	26:	74:				184	2.3
	39.4L	76				79:	35:	70:				184	2.6
	39.8L	70		19:		50:						69	0.9
	41.8L	5					68:	35:				103	1.5
	42.2L	31					3:					3	0.6
	42.3L	48		24:				24:				48	1.5
	49.7L	53		2:		58:		36:				96	2.0
	52.9L	145				27:	20:	42:				89	1.7
	53.9L	120			24:	54:	88:	115:				281	1.9
	60.5L	125	4:	225:		161:	23:	76:	9:			269	2.2
	63.65L	123				151:	32:	34:	26:			472	3.8
	65.7L	115					152:	15:				167	1.4
	66.4R	430			1:	129:	232:	241:	81:			684	5.9
	76.5R	240			731:	528:	67:	381:	150:			1857	4.3
					37:	409:	10:	104:				560	2.3
TOTAL		2126	4:	270:	969:	1954:	882:	1385:	274:			5738	2.7
BY-PASS AND DRAINAGE CHANNELS													
Butte Creek	1.5L	60											
	2.9L	600		15:	33:							48	0.8
	3.85L	400			32:	327:	684:	771:				1814	3.0
Butte Slough					21:	25:	64:	34:				144	0.4
	1.4E	120				98:	172:	118:	4:			392	3.3
	6.8W	132		11:	89:		2:					102	0.8
Sutter By-Pass West	7.1L	250			52:	100:		40:				192	0.8
	26.3L	47			33:							57	1.2
	28.4R	3834	1637:	2171:	2111:	1931:	2190:	2205:	1236:			13481	3.5
	28.6R	125		67:		26:	102:	83:	16:			294	2.3
Sutter By-Pass East	2.65N	115				48:	60:	5:				113	1.0
	4.0N	175				202:						202	1.2
	17.0R	100				149:						149	1.5
	17.8R	187		34:	79:							113	0.6
	18.5R	400		70:	87:	139:						296	0.7
	19.2R	190			76:							76	0.4
	19.97R	5		1:	1:							2	0.4

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 150 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

246

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
BEANS (Continued)												
BY-PASS AND DRAINAGE CHANNELS (Continued)												
Sacramento Slough	1.4R	400			155	489		246	56		946	2.4
TOTAL		7140	1637	2393	3168	3195	3219	3497	1312		18421	2.6
YUBA RIVER	3.4R 4.1L	30 125				23 52	10 69	38 94	22 23		93 238	3.1 1.9
TOTAL		155				75	79	132	45		331	2.1
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Stanislaus River	3.1R	18			6	11	5				22	1.2
Merced River	8.5L 11.6L 12.35L 20.4L	20 130 10 100		8	43 4 31	52 104 14 9	16				119 108 14 69	6.0 0.8 1.4 0.7
TOTAL		278		8	84	190	31	19			332	1.2
ALL SOURCES	TOTAL PER CENT OF TOTAL	9699	1641 6.6	2671 10.7	4221 17.0	5414 21.8	4211 17.0	5033 20.3	1631 6.6		24822	2.6
BEETS												
SACRAMENTO RIVER	8.95R 33.2L 36.45L 61.3L 62.3L 65.8R 76.2L 83.5L 130.75R	38 420 50 48 46 160 45 82 25		22 179 22 1 45 11 5	40 385 23 40 33 38 23 42 7	74 314 45 88 34 54 26 39 7	30 304 34 81 48 103 26 1	2 206			168 1397 124 210 115 350 84 87 25	4.4 3.3 2.5 4.4 2.5 2.2 1.9 1.1 1.0
TOTAL		914	16	292	632	681	612	318	9		2560	2.8

*Mile and Bank refers to mileage as given in Table of Diversions.

Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 150 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>BEETS (Continued)</u>												
BY-PASS AND DRAINAGE CHANNELS												
Sutter By-Pass East	0.4S 0.5N	250 297	144	152 264			182 89	132 264	28 110		638 727	2.6 2.4
Knights Landing Ridge Cut	4.7L	283		94	187	375	324				980	3.4
TOTAL		830	144	510	187	375	595	396	138		2345	2.8
ALL SOURCES TOTAL		1744	160	802	819	1056	1207	714	147		4905	2.8
PER CENT OF TOTAL			3.3	16.4	16.7	21.6	24.6	14.6	2.8			
<u>CORN</u>												
SACRAMENTO RIVER												
	21.7R	200			109	176	94	75			454	2.3
	29.7R	84		53	18	43	47	36			197	2.3
	30.6R	115		77	33	25	85	51			271	2.4
	69.9L	9				7	6				13	1.4
	71.9R	120			106	42	69	56			273	2.3
	83.05L	33			9	13	13	9			44	1.3
	196.5L	2			1	2	1	1	1		6	3.0
TOTAL		563		130	276	308	315	228	1		1258	2.2
BY-PASS AND DRAINAGE CHANNELS												
Butte Slough	6.3W	30		31			7				38	0.9
TOTAL		30		31			7				38	0.9
FEATHER RIVER												
	52.5L	84		67	31	14	33	13		14	172	2.0
TOTAL		84		67	31	14	33	13		14	172	2.0
AMERICAN RIVER												
	2.55R	10				3	1				4	0.2
TOTAL		10				3	1				4	0.2

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 150 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

248

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>CORN (Continued)</u>												
SAN JOAQUIN RIVER	53.7R	145		96	86	43	48	72	34		379	2.6
	113.85R	15			10	5	14	6		3	38	2.5
TOTAL		160		96	96	48	62	78	34	3	417	2.6
OLD SAN JOAQUIN RIVER	44.6L	65				33					33	0.5
		65				33					33	0.5
TOTAL		65				33					33	0.5
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Stanislaus River	1.6R	27					15				15	0.6
	2.9R	25					18				18	0.7
TOTAL		52					33				33	0.6
ALL SOURCES	TOTAL PER CENT OF TOTAL	964		324	403	406	451	319	35	17	1955	2.0
				16.5	20.6	20.8	23.1	16.3	1.8	0.9		
<u>HOPS</u>												
SACRAMENTO RIVER	5.3R	40			24	30					54	1.3
	5.5R	25			9	10	8				27	1.1
	5.55R	35			7	20	13				40	1.1
	8.5R	83			54	17	17				88	1.1
TOTAL		183			94	77	38				209	1.1
FEATHER RIVER	25.2R	40		35	41	156					232	5.8
		40		35	41	156					232	5.8
TOTAL		40		35	41	156					232	5.8
AMERICAN RIVER	7.5R	104			59	94	75				228	2.2
	7.8R	44			22	30	16				68	1.5

*Mile and Bank refers to mileage as given in Table of Diversions.

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 150 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
HOPS (Continued)												
AMERICAN RIVER (Continued)	9.0L	43			30	30	61	5			126	2.9
	9.35L	50			6	31	21				58	1.2
TOTAL		241			117	185	173	5			480	2.0
ALL SOURCES TOTAL PER CENT OF TOTAL		464		35	252	418	211	5			921	2.0
				3.8	27.3	45.5	22.9	0.5				
ORCHARDS												
SACRAMENTO RIVER	2.4L	38										
	2.9L	23	2	13	18	21	25	5	2		86	2.3
	3.55R	165		2		18	13				33	1.4
	62.0R	23		31	173	202	67	71			544	3.3
	76.1L	65		7	25						32	1.4
	77.9L	190	116	113	6	33	41	25			218	3.4
	79.5L	38	17	235	40	169					560	2.9
	80.3R	40		29	34						80	2.1
	83.3L	25	7	67	16	45	39				167	4.2
	86.8L	110	112	22	16		27				72	2.9
	86.9R	65		2	37	33	39		27		472	4.3
	87.4R	50		9	41	52	30		41		138	2.1
	87.6L	35		25	39	8	1				173	3.5
	88.0R	20		7	5	2	9				73	2.1
	89.25L	70	8	105	74	66	58		40		23	1.1
	89.26L	104			315	199	7				351	5.0
	91.1L	18									521	5.0
	91.6R	160			62			21			21	1.2
	93.0L	30		22		20	18				154	1.0
	93.0R	75	28	21	132		50				60	2.0
	96.8R	185		251		167	98		114		231	3.1
	98.3R	105		35	123	134	127			72	702	3.8
	101.1R	133	114	148		11	150	17	3	15	434	4.1
	104.8L	318	255	180	22	90	170				443	3.3
	111.2R	27		15	15						717	2.3
	112.6L	145		18	18	27	16			16	46	1.7
	117.8R	105		18	60	70	40	36		25	86	5.9
	166.7R	5	1	4	6	5	6	6	4	2	224	2.1
											34	6.8

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 150 (CONTINUED)

USE OF WATER ON VARIOUS CROPS. SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
ORCHARDS (Continued)												
SACRAMENTO RIVER (Continued)	166.8R	4		2	1	2	2	3	2		12	3.0
	196.6L	27		24	22	19	24	7	15	2	113	4.2
	217.5L	54		16	12	37	29	10	1		105	1.9
	218.0L	48			15	45	52				112	2.3
TOTAL		2500	660	1419	1461	1586	1329	201	249	132	7037	2.8
BY-PASS AND DRAINAGE CHANNELS												
Sutter By-Pass West	29.0R	26		18		19					37	1.4
TOTAL		26		18		19					37	1.4
FEATHER RIVER												
	9.75R	200		110	178		244	283	51		866	4.3
	43.7L(0.7)	44	2	15	18	24	29	8	1		97	2.2
	43.7L(1.2)	158	126	116	118	132	145	29	33		699	4.4
	49.0L	55			32	29	54	12			127	2.3
	51.0R	46				48	66	55	2		171	3.7
	51.4R	105				74	69	101			244	2.3
	54.7R	50		82	10	52	76	14	13	22	269	5.4
	55.1L	383		83	170	472	492	199			1416	3.7
	57.0L	30			1	62	87	11			161	5.4
	57.9R	70		33	33	45	33	7			151	2.2
TOTAL		1141	128	439	560	938	1295	719	100	22	4201	3.7
YUBA RIVER												
	4.75L	56	124	24	28	72		30			278	5.0
	5.3L	50	52	37	50	50		57			246	4.9
TOTAL		106	176	61	78	122		87			524	4.9
AMERICAN RIVER												
	10.2R	35								26	26	0.7
	10.4R	17			19	35	9				63	3.7
	11.7L	27		16	42	28	39	4		20	149	5.5

*Mile and Bank refers to mileage as given in Table of Diversions.

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Ac re
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ORCHARDS (Continued)</u>												
AMERICAN RIVER (Continued)	13.2R	55			41:	58:	104:	77:			280	5.1
	15.1R	10			22:	16:	18:	4:			60	6.0
TOTAL		144		16:	124:	137:	170:	85:		46:	578	4.0
ALL SOURCES	TOTAL PER CENT OF TOTAL	3917	96.4:	1953:	2223:	2802:	2794:	1092:	349:	200:	12377	3.2
			7.8:	15.8:	17.9:	22.7:	22.6:	8.8:	2.8:	1.6:		
<u>RICE</u>												
SACRAMENTO RIVER	19.6L	2188		4328:	3592:	3396:	3250:	3617:	990:		19173	8.7
	154.8R	489		1070:	930:	1200:	930:	856:	554:		5540	11.3
TOTAL		2677		5398:	4522:	4596:	4180:	4473:	1544:		24713	9.5
<u>BY-PASS AND DRAINAGE CHANNELS</u>												
Colusa Trough	3.0L	150			175:	587:	332:	153:	19:		1266	8.4
	8.0L	550		522:	1057:	1010:	1068:	1082:	490:		5229	9.5
	22.0R	362		335:	350:	589:	749:	757:	176:		2956	8.2
Back Borrow Pit	4.3R	1250		947:	1513:	1421:	1489:	1646:	136:		7152	5.7
	8.8R	476		430:	697:	622:	655:	475:			2879	6.0
	13.75R	407		521:	804:	673:	667:	438:			3103	7.7
	18.1R	450		513:	596:	550:	554:	337:			2550	5.7
	22.15R	360		265:	682:	503:	478:	408:			2336	6.5
	29.1R	110			88:	118:	138:	132:			476	4.3
	32.6R	300		48:	560:	540:	540:	562:	180:		2430	8.1
36.65R	640		689:	946:	782:	768:	525:			3710	5.8	
Butte Creek	20.4R	200		393:	455:	396:	403:	404:			2051	10.2
	23.0R	407		112:	1075:	1031:	839:	818:	363:		4238	10.4
Sutter By-Pass East	2.9N	570			987:	990:	1024:	1197:	163:		4361	7.7
	4.5N	230		224:	479:	536:	547:	547:	109:		2442	9.8
	6.6N	615			957:	1230:	1267:	1280:	538:		5272	8.6

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 150 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>RICE (Continued)</u>												
<u>BY-PASS AND DRAINAGE CHANNELS (Continued)</u>												
Knights Landing Ridge Cut	6.3	1019		219	1821	1304	1986	2031	273		7634	7.5
Yolo By-Pass	1.8N 7.0N	820 260		1134	1153 281	1436 518	1349 645	1393 638		300 87	6765 2698	8.2 10.4
TOTAL		9176		6352	14676	14836	15498	14823	2976	387	69548	7.6
FEATHER RIVER	58.1R 59.7R	8856 8936		11414 9412	15252 15203	17357 15048	17301 15833	15650 15876	8334 3087		85308 74459	9.7 8.3
TOTAL		17852		20826	30455	32405	33134	31526	11421		159767	8.9
ALL SOURCES TOTAL PER CENT OF TOTAL		29705		32576 12.8	49653 19.5	51837 20.4	52812 20.8	50822 20.0	15941 6.3	387 0.2	254028	8.6
<u>TRUCK</u>												
SACRAMENTO RIVER	6.0R 12.7R 13.25R 16.62R	78 100 65 55			5 30 21 5	27 25 25 35	45 37 23 25	25 38 34 10			132 154 132 81	1.7 1.5 2.0 1.5
TOTAL		298	14	46	56	112	130	107	29	5	499	1.7
AMERICAN RIVER	9.55L 10.5R 11.2L	15 15 20			12 10 4	18 10 6	24 14 6	20 7 5			74 41 34	4.9 2.7 1.7
TOTAL		50	1	4	26	34	44	32	5	3	149	3.0

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 150 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1939

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre- Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>TRUCK (Continued)</u>												
SAN JOAQUIN RIVER	48.3R	9	1:	2:	4:	8:	7:	8:	4:	2:	36	4.0
	48.5R	16		2:	7:	11:	6:	11:	10:	5:	52	3.2
	50.55R	5	1:	1:	1:	1:	4:	5:	2:	2:	17	3.4
	59.25R	22	2:	5:	24:	30:	21:	25:	11:	5:	123	5.6
TOTAL		52	4:	10:	36:	50:	38:	49:	27:	14:	228	4.4
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Tuolumne River	9.2L	30				11:	11:		2:	1:	25	0.8
Merced River	8.85L	50	6:	27:	35:	8:	9:	10:	13:		108	2.2
	17.05L	18			5:	11:	6:	3:			25	1.4
	17.3L	3				1:	3:				4	1.3
	17.7L	10		2:	9:	11:	12:	14:	6:	5:	59	5.9
	21.1R	20			15:	10:	7:	6:			38	1.9
	24.6R	80		1:	14:	8:	20:		5:		48	0.6
	28.1R	20					6:	28:	19:	12:	65	3.2
TOTAL		231	6:	30:	78:	60:	74:	61:	45:	18:	372	1.6
ALL SOURCES	TOTAL	631	25:	90:	196:	256:	286:	249:	106:	40:	1248	2.0
	PER CENT OF TOTAL		2.0:	7.2:	15.7:	20.5:	23.0:	19.9:	8.5:	3.2:		

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 151

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1938

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS</u>												
SACRAMENTO RIVER	7.5L	100					17	2	21		40	0.4
	18.7L	50					44	68	20		132	2.6
	6.3R	10						8	4		12	1.2
	146.5L	7				3	4	4	5		16	2.3
	148.9R	5						2			2	0.4
	197.0L	40			18	33	32	31	17		131	3.3
	216.4L	5						4	6		10	2.0
	241.5L	38				58	38	32	11		139	3.7
TOTAL		255			18	94	135	151	84		482	1.9
<u>BY-PASS AND DRAINAGE CHANNELS</u>												
Butte Creek	19.3R	120				142	172	190	122		626	5.2
Butte Slough	3.0W	33						11	10		21	0.6
	3.7W	9					14	8			22	2.4
Knights Landing Ridge Cut	4.7R	18				11		9	6		26	1.4
TOTAL		180				153	186	218	138		695	3.9
<u>FEATHER RIVER</u>												
	7.7L	218				27	79	140	182	69	497	2.3
	43.7L (1.5)	65				39	52	52	16		159	2.5
	47.9L	110				114	163	95	98		470	4.3
	51.1L	50			12	53	40	33	22	6	166	3.3
TOTAL		443			12	233	334	320	318	75	1292	2.9
<u>YUBA RIVER</u>												
	1.8R	12				6	14	14			34	2.8
TOTAL		12				6	14	14			34	2.8

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 151 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1938

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Ac re
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
AMERICAN RIVER	2.4R	17					18	2			20	1.2
	7.95R	50					114	76	35		225	4.5
	9.2R	76					75	169	87		331	4.4
	13.1R	12			3	4	5	5	4		21	1.8
TOTAL		155			3	4	212	252	126		597	3.9
SAN JOAQUIN RIVER	45.6R	62		6	6	11	22	17	19	4	85	1.4
	46.65R	12						8			8	0.8
	49.5R	40			22	27	36		39		124	3.1
	50.1R	35			16	19	7	26	25	4	97	2.8
	54.9R	66			31	16	46	52	29	11	185	2.8
	57.0R	47						70			70	1.5
116.05L	120			168		30	73	27	4	302	2.5	
TOTAL		382		6	243	73	141	246	139	23	871	2.3
OLD SAN JOAQUIN RIVER	51.0L	25			3	4	2	13		3	25	1.0
	51.2L	40				5	6		7		18	0.4
TOTAL		65			3	9	8	13	7	3	43	0.7
<u>STANISLAUS, TUOLUMNE AND MERCED RIVERS</u>												
Stanislaus River	5.25L	148			115	114	211	175	113	15	743	5.0
	6.7L	38			18	24	51	40	17	9	159	4.2
	20.9L	16					33	18	2		53	3.3
Tuolumne River	10.2R	82			38	49	53		31	10	181	2.2
	39.8L	52			18	13	10	6	12		59	1.1
Merced River	5.8L	56					72	47	37	1	157	2.8
	6.1L	45				80	106	75	47		308	6.8
	28.6R	75				20	31	5	16		72	1.0
	29.75R	39			4		12	15	18		49	1.3

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 151 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1938

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Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
STANISLAUS, TUOLUMNE AND MERCED RIVERS (Continued)												
Merced River (Continued)	29.9R	40							32	22	54	1.4
	30.2L	24				10		8	6		24	1.0
	31.1L	40						21	24	5	50	1.2
TOTAL		655			193	310	608	443	320	35	1909	2.9
ALL SOURCES	TOTAL	2147		6	472	882	1638	1657	1132	136	5923	2.8
	PER CENT OF TOTAL			0.1	8.0	14.9	27.6	28.0	19.1	2.3		
<u>ASPARAGUS</u>												
BY-PASS AND DRAINAGE CHANNELS												
Yolo By-Pass	2.4N	1182				377	212	288	80		957	0.8
TOTAL		1182				377	212	288	80		957	0.8
ALL SOURCES	TOTAL	1182				377	212	288	80		957	0.8
	PER CENT OF TOTAL					39.4	22.2	30.1	8.3			
<u>BEANS</u>												
SACRAMENTO RIVER	10.75L	45				15	37	28	13		93	2.0
	29.9L	90				17	25	30			72	0.8
	30.2L	19					12	8			20	1.1
	34.85L	115				85	13	23	4		125	1.1
	35.2L	140				22	121				143	1.0
	35.62L	39					19	26	33		78	2.0
	36.2L	100					123				123	1.2
	37.75L	70					3	124			127	1.8
	38.4L	90						58			58	0.6
	38.8L	65					77				77	1.2
	75.3R	120					42	109			151	1.3
	76.5R	225					75	74		24	173	0.8
	83.5L	80					11	11	7		29	0.4
TOTAL		1198				139	558	491	57	24	1269	1.1

* Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 151 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1938

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Ac re	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>BEANS (Continued)</u>													
BY-PASS AND DRAINAGE CHANNELS													
Lower Butte Creek	2.9L	600					123	763	160			1046	1.7
Butte Slough	1.4E	200						112	25			137	0.7
Sutter By-Pass East	0.4S	260						107	5			112	0.4
	4.0N	140						96				96	0.7
Sacramento Slough	1.4R	350						176				176	0.5
TOTAL		1550					123	1254	190			1567	1.0
YUBA RIVER													
	3.0L	255				123	188	194	184			689	2.7
	3.0R	30				7	36	27	6			76	2.5
	4.1L	46				18	74	63	54			209	4.6
	4.25R	5				3	6	9				18	3.6
TOTAL		336				151	304	293	244			992	2.9
ALL SOURCES TOTAL		3084				290	985	2038	491	24		3828	1.2
PER CENT OF TOTAL						7.0	25.8	53.2	12.8	0.6			
<u>BEETS</u>													
SACRAMENTO RIVER													
	33.2L	417			139	517	421	427				1504	3.6
	36.45L	47				25	23	24				72	1.5
	49.7L	50			9	26	34	4				73	1.5
	65.8R	60				4	86	47				137	2.3
	66.4R	75				74	78	24				176	2.3
	69.0R	207				152	125	17				294	1.4
	78.2R	154				72	144	60				276	1.8
	124.4R	250					139	198				337	1.3
	150.0L	140					108	119	84	1		312	2.2
	151.0R	1322			410	618	946	833	261			3068	2.3
	TOTAL		2722			558	1596	2115	1718	262			6249

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 151 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1938

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>BEEETS</u> (Continued)												
FEATHER RIVER	6.44L	148				75	116	35			226	1.5
TOTAL		148				75	116	35			226	1.5
SAN JOAQUIN RIVER	52.4R 53.2R	130 210				42 58	62 87				104 203	0.8 1.0
TOTAL		340				58	129	100			307	0.9
STANISLAUS, TRUOLUMNE AND MERCED RIVERS												
Merced River	11.6L 20.4L	80 100				40	119	75	42	6	282 53	3.5 0.5
TOTAL		180				40	119	117	53	6	335	1.9
ALL SOURCES	TOTAL PER CENT OF TOTAL	3390				656 9.2	1919 27.0	2448 34.4	1826 25.6	268 3.8	7117	2.1
<u>CORN</u>												
SACRAMENTO RIVER	89.7L 103.7R	44 525					2 260	9 200	3 107		14 612	0.3 1.2
TOTAL		569					262	209	110	34	626	1.1
BY-PASS AND DRAINAGE CHANNELS												
Yolo By-Pass	5.9N	140						63	102	39	204	1.5
TOTAL		140						63	102	39	204	1.5

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 151 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1938

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>CORN (Continued)</u>												
FEATHER RIVER	52.5L	60					13				13	0.2
TOTAL		60					13				13	0.2
ALL SOURCES	TOTAL PER CENT OF TOTAL	769				262 31.1	285 33.8	212 25.1	73 8.7	11 1.3	843	1.1
<u>HOPS</u>												
SACRAMENTO RIVER	4.65R	44					21	21			42	1.0
	5.5R	25				6	5	5			16	0.5
	5.55R	30					13				13	0.4
	8.5R	83					26				26	0.3
TOTAL		182				6	65	26			97	0.5
YUBA RIVER	4.7L	15					10	9			19	1.3
TOTAL		15					10	9			19	1.3
AMERICAN RIVER	7.5R	104				29	56				85	0.8
	7.8R	44				17	20				37	0.8
TOTAL		148				46	76				122	0.8
ALL SOURCES	TOTAL PER CENT OF TOTAL	345				52 21.8	151 63.4	35 14.8			238	0.7
<u>ORCHARDS</u>												
SACRAMENTO RIVER	2.4L	36				14	18	8	2		42	1.2
	2.45L	38				14	17		6		37	1.0
	2.9L	6					2				2	0.3
	3.55R	165				129	183				312	1.9
	80.3R	45						40			40	0.9
	86.1R	70					47				47	0.7

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 151 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1938

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
ORCHARDS (Continued)													
SACRAMENTO RIVER (Continued)	86.8L	45					39					39	0.9
	87.4R	66							51			51	0.8
	87.7R	129				23	126		5	116	31	301	2.3
	88.2L	40					10		9			19	0.5
	89.25L	35					16					16	0.5
	91.6R	100					91					91	0.9
	92.5L	45					3		41			44	1.8
	93.0R	40							23			23	0.6
	94.8R	65					38		79			117	1.8
	96.8R	185					202				57	259	1.4
	101.1R	133					137					137	1.0
	106.0R	185					60		60			120	0.6
	110.0R	188					119					119	0.6
	112.6L	25					13					13	0.5
	115.5L	30							18			18	0.6
	166.7R	5			4	7	7	6	5			29	5.8
	166.8R	4			1	1	1	2	1			6	1.5
	196.6L	27				8	10	22	8			48	1.8
	217.5L	54				5	32	18	4			59	1.1
TOTAL		1761			5	201	1171	382	142	88		1989	1.1
FEATHER RIVER													
	16.35R	156				87	337	117				541	3.5
	18.75R	69				83	144	15	16			258	3.7
	33.9R	155			33	155	229	93	18			528	3.4
	43.7L(0.7)	13				12	15	9				36	0.3
	43.7L(1.2)	148				121	108	35				264	1.8
	49.0L	20					50	6				56	2.8
	51.0R	46					30	22				52	1.1
	51.4R	105					41	91				132	1.3
	52.7L	42				17	36	16	2			71	1.7
	55.1L	383				140	392	193	70			795	2.1
	57.0L	40					34	14				48	1.2
	57.9R	70				3	43	7				53	0.8
TOTAL		1247			33	618	1459	618	106			2834	2.3

*.Mile and Bank refers to mileage as given in Table of Diversions.

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1938

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre Feet								Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>ORCHARDS (Continued)</u>													
YUBA RIVER	4.3R	5				8						8	1.6
	4.75L	56				87	33					120	2.1
	5.3L	75				98						98	1.3
TOTAL		136				193	33					226	1.7
AMERICAN RIVER	10.4R	17				20	7					27	1.6
	13.2R	55				84	95	41				220	4.0
	13.9R	77				43	59	47				149	1.9
TOTAL		149				147	161	88				396	2.7
<u>STANISLAUS, TUOLUMNE AND MERCED RIVERS</u>													
Stanislaus River	21.75R	90				54	62	43				159	1.8
Tuolumne River	5.0R	160			12		23	53	2	28		118	0.7
Merced River	33.55R	100				3	117	136	25			281	2.8
TOTAL		350			12	57	202	232	27	28		558	1.6
ALL SOURCES	TOTAL PER CENT OF TOTAL	3643			50	1216	3026	1320	275	116		6003	1.6
					0.8	20.2	50.5	22.0	4.6	1.9			
<u>RICE</u>													
SACRAMENTO RIVER	12.0R	3100			2258	3849	2953	2854	1079			12993	4.2
	19.0L	1920		1937	2636	2397	2540	3200	1851			14561	7.6
	63.2R	6238		1471	13956	13300	12900	12109	2438			56174	9.0
	112.1L	1310			2097	5263	4876	4758	4394			21388	16.3
	154.8R	996			2380	2695	2245	2120	389			9829	9.9
	154.8R	5245			12412	8189	7955	8190	4266			41012	7.9
TOTAL		18809		3408	35739	35693	33469	33231	14417			155957	8.3

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 151 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1938

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>RICE (Continued)</u>												
BY-PASS AND DRAINAGE CHANNELS												
Colusa Trough	0.35R	850			968	1146	1116	1247	557		5034	5.9
Back Borrow Pit	8.8R	350			605	839	851	784	109		3188	9.1
	11.15R	750			848	1122	1071	1018	92		4151	5.5
	21.35R	400			604	905	888	799	106		3302	8.3
	22.65L	620			1054	1002	1054	958			4068	6.6
Sutter By-Pass East	1.4N	410			884	850	836	984	536		4090	10.0
TOTAL		3380			4963	5864	5816	5790	1400		23833	7.1
FEATHER RIVER	58.1R	8181		623	13608	16950	17224	16708	13625		78738	9.6
	59.7R	7715		508	7523	8856	13900	15685	8828		55300	7.2
TOTAL		15896		1131	21131	25806	31124	32393	22453		134038	8.5
ALL SOURCES TOTAL PER CENT OF TOTAL		38085		4539	61833	67363	70409	71414	38270		313828	8.2
				1.4	19.7	21.5	22.4	22.8	12.2			
<u>TRUCK</u>												
SACRAMENTO RIVER	2.05L	90				72	72	63	32	11	250	0.3
	3.75R	50		3	9	16	19	19	20	8	94	1.9
	5.25R	38				16	7	12	17	9	73	1.9
	6.0R	40			9	9	36	37	15		102	2.5
	12.5R	136						27	50	1	78	0.6
	13.2R	75					12	29	19		60	0.8
	13.25R	75						95	72	3	170	2.3
	14.25R	10						3			3	0.3
	15.15R	90				25	106	143			274	3.0
TOTAL		604		3	34	168	400	398	73	28	1104	1.8

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 151 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1938

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>TRUCK (Continued)</u>												
FEATHER RIVER	1.55L	45					57	68	24		149	3.3
TOTAL		45					57	68	24		149	3.3
AMERICAN RIVER	10.5R	35				28	30	12		1	71	2.0
TOTAL		35				28	30	12		1	71	2.0
SAN JOAQUIN RIVER	48.0R	25				3	6	12		4	25	1.0
	48.3R	3			1	2	3	6	7	3	22	7.3
	48.5R	16			3	5	8	10	11	2	39	2.4
	48.5R	55			11	17	20	15	20	4	87	1.6
	49.0R	22			10	12	7				29	1.3
	50.55R	18		1	4	3	4	2	3	3	20	1.1
	50.8R	55		14	19	17	26	22	16	20	134	2.4
	57.5R	5			3	11	10	12	1		37	7.4
	59.25R	22	1		11	2	6	13	9	2	44	2.0
TOTAL		221	1	15	62	72	90	92	67	38	437	2.0
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Merced River	8.5L	15					41				41	2.7
	8.85L	40			2	17	3	4	4	1	31	0.8
	11.6L	70			40	119	75	42	6		282	4.0
	17.05L	15						1	1	1	3	0.2
	21.1R	18						24	7		31	1.7
	22.2R	150			66	101	180	121	56	15	539	3.6
	23.3R	30				41	55				96	3.2
	25.5R	130			3		11	47	31	5	97	0.8
	26.55R	25							8	1	9	0.4
	27.0R	7					3	10	10	5	28	4.0
	27.6R	50						40	46	24	110	2.2
	27.8R	11			2		11	7	7	3	30	2.7
	28.1R	20			8		1	1			10	0.5
	28.4R	20					5				5	0.2
TOTAL		601			121	319	344	297	176	55	1312	2.2
ALL SOURCES	TOTAL	1506	1	18	217	587	921	867	340	122	3073	2.0
	PER CENT OF TOTAL			0.6	7.1	19.1	30.0	28.2	11.0	4.0		

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 152

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1937

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Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS</u>												
SACRAMENTO RIVER	7.5L	100					42:		42:		84	0.8
	28.2R	25			27:	25:	18:	18:	11:		99	4.0
	29.2R	111			6:	54:	56:	56:	20:	9:	201	1.8
	56.65R	82			10:	89:	127:	91:	73:	69:	459	5.6
	64.3R	24				108:	44:	5:	3:		160	6.7
	81.5L	137			73:	29:	150:	83:	122:		457	3.3
	82.5L	54			17:	28:	22:	27:	25:		119	2.2
	89.7L	10				3:	3:	2:			8	0.8
	97.7R	63			19:	73:	28:	33:	13:		166	2.6
	130.75R	8			3:	4:	5:	5:	4:		21	2.6
	148.7R	17				2:	5:				7	0.4
	152.2R	24			15:	5:	12:	19:	3:		54	2.3
	184.5R	180			104:	90:	127:	105:	58:		484	2.7
	197.0L	25					42:	22:	22:		86	3.4
	241.5L	38		20:	84:	23:	31:	36:	26:		220	5.8
TOTAL		898		20:	358:	533:	712:	502:	422:	78:	2625	2.9
<u>BY-PASS AND DRAINAGE CHANNELS</u>												
Butte Slough	3.0W	38			8:	4:	21:				33	0.9
Yolo By-Pass	5.9N	135				129:	85:	5:			219	1.6
Knights Landing Ridge Cut	4.7R	18			6:	9:	11:	8:	11:		45	2.5
TOTAL		191			14:	142:	117:	13:	11:		297	1.6
<u>FEATHER RIVER</u>												
FEATHER RIVER	47.9L	122			167:	118:	199:	183:	109:	110:	886	7.3
	52.9R	30				10:	11:	5:	5:		31	1.0
TOTAL		152			167:	128:	210:	188:	114:	110:	917	6.0
<u>YUBA RIVER</u>												
YUBA RIVER	1.8R	12				1:	19:	9:			29	2.4
TOTAL		12				1:	19:	9:			29	2.4

*Mile and Bank refers to mileage as given in Table of Diversions.

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1937

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre		
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.	
<u>ALFALFA AND SUDAN GRASS (Continued)</u>													
AMERICAN RIVER	7.95R	48											
	9.2R	76				64	290	79	30	19	128	2.7	
	13.1R	3			2	2		143	138		635	8.3	
TOTAL		127			2	66	290	222	168	19	767	6.0	
SAN JOAQUIN RIVER	49.5R	100			48	42	33	47		30	200	2.0	
	50.1R	40		2	20	23	30	21	42	1	139	3.5	
	50.4R	30		2	4	3	4	2	12	2	29	1.0	
	54.9R	66			34	49	52	65	26	28	254	3.9	
	60.1R	42			13	7	20	20	10	16	86	2.0	
	114.35R	23				6	9	20	9	5	49	2.1	
	116.05L	77			16	71	57	48	29	3	224	2.9	
116.95R	50					17	23	11	24	75	1.5		
TOTAL		428		4	135	201	222	246	139	109	1056	2.5	
OLD SAN JOAQUIN RIVER	48.7L	75			17	52	21	23	17		130	1.7	
	51.2L	40			6	3	4	6	5		24	0.6	
TOTAL		115			23	55	25	29	22		154	1.3	
<u>STANISLAUS, TUOLUMNE AND MERCED RIVERS</u>													
Stanislaus River	8.2L	90			9	56		41	47	23	176	2.0	
	10.1L	345		64	201	190	274	248	240	95	1312	3.8	
	20.9L	15				43	32	20		3	98	6.5	
Tuolumne River	8.4R	80		26	52	91	66	114	74	5	428	5.4	
Merced River	5.8L	80			70	49	80	70	38	8	315	3.9	
	6.1L	90			108	129	93	130	68		534	5.9	
	9.4L	200			230	368	183	192	93	42	1108	5.5	
	24.2L	8				4	4	2	3		13	1.6	
	24.5L	17			7	10	12		12		41	2.4	
	28.6R	85			14	24	23	50	34		145	1.7	
29.1R	20						8			8	0.4		

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 152 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1937

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
STANISLAUS, TUOLUMNE AND MERCED RIVERS (Continued)												
Merced River (Continued)	29.75R	30				23	22	33	15		93	3.1
	29.9R	150				92	80	77	7		256	1.7
	30.2L	24				2	6	3	6		17	0.7
	31.1L	40				16	14	12	12		54	1.4
	39.2L	38			40	48	30	66	25		209	5.4
TOTAL		1312		90	731	1145	919	1072	674	176	4807	4.0
ALL SOURCES	TOTAL PER CENT OF TOTAL	3235		114	1430	2269	2514	2281	1550	492	10650	3.3
				1.1	13.4	21.3	23.6	21.4	14.6	4.6		
<u>ASPARAGUS</u>												
BY-PASS AND DRAINAGE CHANNELS												
Yolo By-Pass	2.4N	890			150	471	500	280	79	262	1742	2.0
TOTAL		890			150	471	500	280	79	262	1742	2.0
ALL SOURCES	TOTAL PER CENT OF TOTAL	890			150	471	500	280	79	262	1742	2.0
					8.6	27.0	28.7	16.1	4.5	15.1		
<u>BEANS</u>												
SACRAMENTO RIVER	7.8L	75				52	28	47	13		140	1.9
	7.9L	95			11	36	65	26	23	6	167	1.8
	29.75R	67				33	5	4	20		62	0.9
	30.2L	18				2	17	10	8		37	2.0
	37.75L	40				15	11	16			42	1.0
	38.4L	75					16	46			62	0.8
	39.8L	70					89	70			159	2.3
	42.3L	46					71	20	3		94	2.0
	57.5L	130				153		60			213	1.6

*Mile and Bank refers to mileage as given in Table of Diversions.

*Mile and Bank refers to mileage as given in Table of Diversions.

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1937

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>BEANS (Continued)</u>												
SACRAMENTO RIVER (Continued)	76.2L	15					5	7			12	0.8
TOTAL		631			11	291	307	306	67	6	988	1.6
<u>BY-PASS AND DRAINAGE CHANNELS</u>												
Lower Butte Creek	2.9L	650				82	502	626	61		1271	2.0
Butte Slough	1.4E 6.8W	200 20					32 10	148	61		241 10	1.2 0.5
Sutter By-Pass West	28.4	4009		347	1981	2029	1938	1864	849		9008	2.3
Sutter By-Pass East	0.4S 4.5N 5.9N	270 250 990					78 97	145	13		158 78 160	0.6 0.3 0.2
Sacramento Slough	1.4R	350					46	327			373	1.1
TOTAL		6739		347	1981	2111	2703	3173	984		11299	1.7
<u>YUBA RIVER</u>												
	3.0L	82				8	42	52	87	6	195	2.4
	3.0R	30				10	18	30	32		90	3.0
	4.2R	10				5	7	7	5		24	2.4
	5.9L	75				23	26	55	30	2	136	1.8
TOTAL		197				46	93	144	154	8	445	2.3
<u>AMERICAN RIVER</u>												
	10.5R	37					22	14	11		47	1.3
TOTAL		37					22	14	11		47	1.3
<u>SAN JOAQUIN RIVER</u>												
	98.9L	550			64	94	152	178			488	0.9
TOTAL		550			64	94	152	178			488	0.9

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 152 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1937

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>BEANS (Continued)</u>												
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Stanislaus River	1.1R	15							6	1	7	0.5
	1.6R	35							17		17	0.5
	2.9R	38								21	21	0.6
	18.5R	150		19		66	60	38	36		219	1.5
Merced River	11.6L	120		8		98	45	4			155	1.3
	16.5L	105			21	125	32				188	1.8
	17.7L	7					3				3	0.4
	20.4L	112					31	72			103	0.9
	27.8R	15			10	1	9	7			27	1.8
TOTAL		597		27	41	290	180	144	58		740	1.2
ALL SOURCES	TOTAL PER CENT OF TOTAL	8751		37.4	20.7	283.2	345.7	395.9	127.4	14	14007	1.6
				2.7	15.0	20.2	24.6	28.3	9.1	0.1		
<u>BEETS</u>												
SACRAMENTO RIVER												
	8.7R	42			16	11	15				42	1.0
	16.7R	70					67	43	20		130	1.9
	33.2L	530			68	451	457	317			1293	2.4
	33.85R	20			2	18	15	2			37	1.8
	34.85L	113			15	43	42	38			138	1.2
	41.8L	10					12	12			24	2.4
	42.2L	38				4	15	3			22	0.6
	48.7L	350			729	983	516				2228	6.4
	65.7L	110			192	301	154				647	5.9
	66.4R	650				365	325	267			957	1.5
	72.3L	100			40	100	61				201	2.0
	78.2R	308			41	230	230				501	1.6
TOTAL		2476			1200	2631	2155	739	20	2	6747	2.7

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 152 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1937

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre- Feet per Ac re	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>BEETS (Continued)</u>												
BY-PASS AND DRAINAGE CHANNELS												
Knights Landing Ridge Cut	4.7L	130				55	45	6	2		108	0.8
TOTAL		130				55	45	6	2		108	<u>0.8</u>
SAN JOAQUIN RIVER												
	52.4R	18				9	9	5	1		24	1.3
	53.2R	120				116	42				158	1.3
	91.8L	200			78	102	131	57			368	1.8
TOTAL		338			78	227	182	62	1		550	<u>1.6</u>
ALL SOURCES	TOTAL	2944			1278	2913	2382	807	23	2	7405	<u>2.5</u>
	PER CENT OF TOTAL				17.3	39.3	32.2	10.9	0.3			
<u>CORN</u>												
BY-PASS AND DRAINAGE CHANNELS												
Sutter By-Pass East	2.19N	150					32				32	2.1
	4.0N	100				378	93	230	144		845	8.4
Yolo By-Pass	0.7S	119					21	37			58	0.5
	0.3S	244					160	129			289	1.2
	5.9N	135					129	85	5		219	1.6
TOTAL		748				378	435	481	149		1443	<u>1.9</u>
AMERICAN RIVER												
	7.1L	15					24	11	9		44	2.9
TOTAL		15					24	11	9		44	<u>2.9</u>

Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 152 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1937

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>CORN (Continued)</u>												
OLD SAN JOAQUIN RIVER	47.2L	220				107	147				254	1.2
TOTAL		220				107	147				254	1.2
ALL SOURCES	TOTAL PER CENT OF TOTAL	983				485 27.9	606 34.8	492 28.2	158 9.1		1741	1.8
<u>HOPS</u>												
SACRAMENTO RIVER	5.5R 8.5R	35 83				7 96	12 79				19 178	0.5 2.2
TOTAL		118			3	103	91				197	1.7
FEATHER RIVER	25.2R	48				1	39				40	0.8
TOTAL		48				1	39				40	0.8
YUBA RIVER	4.7L	20				11	10	5			26	1.3
TOTAL		20				11	10	5			26	1.3
AMERICAN RIVER	7.5L 7.8R 9.0L 9.2L 9.35L	104 44 42 50 50					17 32 42 20 40	55 25 36 25 26	3 22 16 12 13		75 79 105 57 79	0.7 1.8 2.5 1.1 1.6
TOTAL		290			11	151	167	66			395	1.4
ALL SOURCES	TOTAL PER CENT OF TOTAL	476				14 2.1	266 40.5	307 46.6	71 10.8		658	1.4

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 152 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEY - 1937

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ORCHARDS</u>												
SACRAMENTO RIVER	2.4L	38			7	21	15	8	11	7	69	1.8
	2.45L	40			7	14	25	4	3	12	65	1.6
	2.9L	23				17					17	0.7
	3.55R	165			88	400		144			638	3.9
	62.6R	23				14	18				32	1.4
	76.1L	60				19	10	17			46	0.8
	77.9L	190				262	103				365	1.9
	79.5L	40			23	29					52	1.3
	85.8L	30					19	43			62	2.1
	86.8L	45				35	36				71	1.6
	87.4R	68			47		68				115	1.7
	87.7R	132			80	147	71	20	2	5	325	2.5
	88.0R	21				6	6				12	0.6
	88.2L	40				21	39				60	1.5
	89.2R	533			228	276	412	188	152		1256	2.4
	89.25L	80				87	10				97	1.2
	89.26L	90				126					126	1.4
	91.6R	100					50	50			100	1.0
	92.5L	75			22	26	114	3			165	2.2
	93.0R	80				86	29				115	1.5
	94.8R	70				96	71				167	2.4
	95.7R	225				179	27			230	436	1.9
	101.1R	133			139	33	97				269	2.0
	117.8R	161				21	69				90	0.6
	166.7R	15			5	9	8	10	6		38	2.5
	166.8R	4			1	2	2	1	2		8	2.0
	196.6L	28			10	29	20	10	11		80	0.3
	197.65L	38				1	10				11	0.3
	218.0L	50					45	7			52	1.0
TOTAL		2597			657	1962	1374	505	187	254	4939	1.9
FEATHER RIVER	16.35R	236				299	361	191	189		1040	4.4
	18.75R	87				44	49	38	19		150	1.7
	22.5R	46				22	67	33	25		147	3.2
	33.9R	140	207	116		138	114	73	59		707	5.0
	43.7L (0.7)	13			2	11	14	9	4		40	3.1
	43.7L (1.2)	146		10	84	110	52	98	31		385	2.6
	51.0R	46				8	58	7			73	1.6

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 152 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1937

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ORCHARDS (Continued)</u>												
FEATHER RIVER (Continued)	51.4R	105				24	112	14		60	210	2.0
	54.7R	50			47	30	38	16	14		145	2.9
	55.1L	383			31	232	353	296	176	30	1118	2.9
	57.9R	70				31	10	10	4	19	74	1.1
TOTAL		1322	207	126	164	949	1228	785	521	109	4089	3.1
YUBA RIVER	4.3R	5				8	28			1	37	7.4
	4.75L	56			5	52	37	27	1		122	2.2
	5.3L	75			60	55					115	1.5
TOTAL		136			65	115	65	27	1	1	274	2.0
AMERICAN RIVER	10.4R	17				18	36				54	3.2
	11.7L	27				12	15	13			40	1.5
	11.7L	35				15		13	4		32	0.9
	13.2R	55				61	55	42			158	2.9
	13.9R	77				30	63	39			132	1.7
	15.1R	20				12	31	1			44	2.2
TOTAL		231				148	200	108	4		460	2.0
<u>STANISLAUS, TUOLUMNE AND MERCED RIVERS</u>												
Tuolumne River	4.1R	260	41	73	290	85	186	114	16	49	854	3.3
TOTAL		260	41	73	290	85	186	114	16	49	854	3.3
ALL SOURCES	TOTAL PER CENT OF TOTAL	4546	248	199	1176	3259	3053	1539	729	413	10616	2.3
			2.3	1.9	11.1	30.7	28.7	14.5	6.9	3.9		
<u>RICE</u>												
SACRAMENTO RIVER	12.0R	4000			3945	4834	6741	5508	1357		22385	5.6
	19.6L	580			758	717	1182	1240	746		4643	8.0
	43.1R			1910	6600	2770	3930	3540	740		19490	8.0

*Mile and Bank refers to mileage as given in Table of Diversions.

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 152 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1937

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>RICE (Continued)</u>												
SACRAMENTO RIVER (Continued)	78.8R	1200		356	1579	1081	977	886	309			
	99.2L	600			1263	1286	1070	1101	993		97	5188
	154.8R	1032		208	3153	2370	2410	2211	593			5810
	154.8R	670		367	1230	1190	1230	1230	516			10945
TOTAL		10504		2841	18528	14248	17540	15716	5254	97		5763
												74224
<u>BY-PASS AND DRAINAGE CHANNELS</u>												
Colusa Trough	3.0L	200				119	1037	478	301			1935
	8.0L	830			934	1400	1360	1386	1252			6332
	10.5L	700			1410	1460	1600	1610	1210			7290
Back Borrow Pit	4.35R	1105			1232	1493	1708	1828	823			7084
	11.15R	450			859	670	709	730	61			3029
	13.75R	500			787	970	971	924	124			3776
	15.75R	378		64	669	713	577	583				2606
	20.00R	400			539	931	987	1073				3530
	22.65R	680		93	1360	930	1035	707				4125
Lower Butte Creek	19.8R	200		62	390	537	660	541	136			2326
Sutter By-Pass East	0.5N	300			205	664	559	591	386			2405
	1.4N	200			284	359	465	439	228			1775
	1.4N	320			738	825	732	854	279			3428
Yolo By-Pass	1.8N	510			144	1329	1088	972	600			4133
TOTAL		6773		219	9551	12400	13488	12716	5400			53774
<u>FEATHER RIVER</u>												
	58.1R	8419		694	12782	12761	13066	13812	10767			63882
	59.7R	9095		863	9322	12722	17926	16794	7499			65126
TOTAL		17514		1557	22104	25483	30992	30606	18266			129008
ALL SOURCES	TOTAL PER CENT OF TOTAL	34791		4617	50183	52131	62020	59038	28920	97		257006
				1.8	19.5	20.3	24.1	23.0	11.3			

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 152 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1937

274

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Ac re
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>TRUCK</u>												
SACRAMENTO RIVER	6.6R	10							6	10	16	1.6
	8.3R	372		5	62	182	197	137	108	35	726	1.9
	8.95R	37		5	27	22	29	39	28	13	163	4.4
	12.7R	90			7	22	12	39	31	10	121	1.3
	13.1R	100				39	97	86			222	2.2
	13.2R	106				37	37	17			91	0.8
	13.25R	120				54	124	73			251	2.1
	14.25R	100				23	9	2	2		36	0.4
	15.15R	220				60	175	5			240	1.1
	16.4R	40				16	36	13	1		66	1.6
	16.62R	37				40					40	1.1
	17.75R	95				9	147	52	4		212	2.2
TOTAL		1327		10	96	504	863	469	184	58	2184	1.7
FEATHER RIVER	1.55L	90				28	39	32	5		104	1.2
	52.1L	90			21	24	54	51	41	6	197	2.2
	52.5L	55					14	4			18	0.3
TOTAL		235			21	52	107	87	46	6	319	1.4
SAN JOAQUIN RIVER	46.3R	60			1	28	26	1			56	0.9
	46.85R	65					25	17			42	0.6
	47.3R	45				31	37	9			77	1.7
	48.0R	18				20	5				25	1.4
	48.3R	9			1	3	7	11	5	3	30	3.3
	48.5R	16			4	4	10	12	7	2	39	2.4
	48.6R	60	1	4	17	33	44	44	22	11	176	2.9
	49.0R	50				15	14				29	0.6
	50.4R	8		2	4	3	4	2	12	2	29	3.6
	50.8R	50	2	8	27	22	23	40	11	8	141	2.8
	52.9R	20			6	7					13	0.6
	59.25R	33		11	15	19	20	29	19		113	3.4
	75.1R	10						2			2	0.2
	75.25R	20						4	2		6	0.3
	75.45R	10						3			3	0.3
TOTAL		474	3	25	75	185	215	174	78	26	781	1.6

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 152 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1937

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
TRUCK (Continued)													
STANISLAUS, TUOLUMNE AND MERCED RIVERS													
Merced River	8.5L	100			3	45	33	7			88	0.9	
	8.85L	53			7	31	4	28	3	1	74	1.4	
	11.6L	75		8		98	45	4			155	2.1	
	12.35L	103		20	27	49	113	50	13		272	2.6	
	17.05L	15		2	3	1	1	1	1		9	0.6	
	20.65R	12				3	1	2	2		10	0.8	
	21.1R	23			5		7	15	15	15	57	2.5	
	21.5R	15			15	3	4				22	1.5	
	21.75R	20			27	27	27	14			95	4.7	
	22.2R	201		24	83	95	93	259	174	82	804	4.0	
	23.3R	67				32	84	40	37	1	194	2.9	
	28.1R	20				15	11	1	6	2	35	1.7	
	28.4R	20			4	2	5	8			19	1.0	
TOTAL		724		54	174	401	428	423	251	103	1834	2.5	
ALL SOURCES	TOTAL	2760		3	89	366	1142	1613	1153	559	193	5118	1.9
	PER CENT OF TOTAL			—	1.7	7.1	22.4	31.5	22.6	10.9	3.8		

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 153

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1936

276

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS</u>												
SACRAMENTO RIVER	28.2R	25			40	28	22	20	18	5	133	5.3
	29.2R	100				57	68	45	31	13	214	2.1
	32.0R	31							22	15	37	1.2
	51.5L	14					18	11	3		32	2.3
	56.65R	127				39	124	51	143		357	2.8
	62.3R	12			18	8		6			32	2.7
	65.1R	20					9	9	7	12	37	1.9
	89.7L	7		2	2	2	2	2			10	1.4
	97.7R	59			10	12	34	11		7	74	1.3
	101.1R	133				205					205	1.5
	110.0R	185				135	120	7		105	367	2.0
	111.2R	27				8		9		7	24	0.9
	130.75R	7				4	5	6	4		19	2.7
	148.7R	5						3			3	0.6
	152.2R	28			3	5	17	10	8	2	45	1.6
	154.6R	12				5	5	1			11	0.9
	184.5R	160			118	81	134	110	70	22	535	3.3
	216.0R	10			1	1	19				21	2.1
TOTAL		962		2	192	590	577	301	306	188	2156	2.2
<u>BY-PASS AND DRAINAGE CHANNELS</u>												
Sutter By-Pass East	4.5N	235			106	84	18	161	88	45	502	2.1
Knights Landing Ridge Cut	4.7R	19				8	12	10		5	35	1.8
TOTAL		254			106	92	30	171	88	50	537	2.1
<u>FEATHER RIVER</u>												
	7.7L	175				122	109	91	76		398	2.3
	43.7L	65		5	30	25	56	35	49	3	203	3.1
	52.9R	30				4	14	16			34	1.1
	54.7R	50					70	20			90	1.8
	57.9R	48			25	11	37	30		36	139	2.9
TOTAL		368		5	55	162	286	192	125	39	864	2.3

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 153 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1936

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
YUBA RIVER	1.8R	15				13:	15:	13:	8:	3:	52	3.5
		15				13:	15:	13:	8:	3:	52	<u>3.5</u>
AMERICAN RIVER	4.1L	61		6:	20:	26:	15:	19:	14:	3:	103	1.7
	9.2R	55					86:	74:	30:		190	3.5
	13.1R	10					4:	8:			12	1.2
TOTAL		126		6:	20:	26:	105:	101:	44:	3:	305	<u>2.4</u>
SAN JOAQUIN RIVER	45.55R	20			2:	5:	24:	6:			37	1.8
	46.65R	13			10:	12:	13:	10:	6:		51	3.9
	50.1R	40			40:	10:	32:	9:	27:		118	3.0
	54.9R	66				33:	39:	48:	32:	26:	178	2.7
	60.1R	50			6:	17:	17:	20:	7:	13:	80	1.6
	114.35R	39			1:	11:	26:	25:	8:	4:	75	1.9
	116.95R	50					27:	27:	11:	7:	72	1.4
TOTAL		278			59:	88:	178:	145:	91:	50:	611	<u>2.2</u>
OLD SAN JOAQUIN RIVER	44.6L	50			5:	29:	41:	7:	17:		99	2.0
	47.2L	100			83:						83	0.8
	48.7L	75		18:	28:		41:	40:	13:		140	1.9
	51.0L	30			8:	9:	8:	5:	3:	1:	34	1.1
TOTAL		255		18:	124:	38:	90:	52:	33:	1:	356	<u>1.4</u>
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Stanislaus River	5.25L	105		108:	135:	127:	152:	288:	166:	110:	1086	10.4
	7.4L	45					15:	5:			20	0.4
	10.1L	210		150:	145:	210:	162:	151:	139:	89:	1046	5.0
	20.9L	18					29:	36:	30:		95	5.3
Tuolumne River	7.1R	200		30:	116:	81:	112:	70:	127:		536	2.7

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 153 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1936

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
STANISLAUS, TUOLUMNE AND MERCED RIVERS (Continued)												
Merced River	5.8L	80		9	34	43	63	61	49	6	265	3.3
	6.1L	90		23	68	71	198	82	74	3	519	5.8
	6.25L	55			20	3	15	22	1		61	1.1
	9.4L	180			304	317	160	243	127	108	1259	7.0
	10.35L	412		161	307	253	240	225	165	7	1358	3.3
	11.55L	7			1	1	3	3	2		10	1.4
	17.3L	3							2		2	0.7
	24.2L	10				3	3	3	2		11	1.1
	24.5L	10				4	4		4		12	1.2
	28.6R	80			16		43	33	11		103	1.3
	29.1R	52					16	23	8		47	0.9
	29.75R	30				26	32	14	15		87	2.9
	29.9R	50					41	29	25		95	1.9
	30.2L	25			15	8		23			46	1.8
	31.1L	25						26	19		45	1.8
	39.2L	50		18	23	58	25	132	28	11	295	5.9
TOTAL		1737		499	1184	1205	1313	1469	994	334	6998	4.0
ALL SOURCES	TOTAL PER CENT OF TOTAL	2411		523	1371	1304	1659	1786	1170	391	8204	3.4
				6.4	16.7	15.9	20.2	21.8	14.2	4.8		
<u>ASPARAGUS</u>												
COULD NOT BE SEGREGATED												
<u>BEANS</u>												
SACRAMENTO RIVER	10.75L	90			2	65	68	38	27		200	2.2
	16.7R	80			48						48	0.6
	34.85L	113				49	50	36			135	1.2
	38.4L	90				19	26	48			93	1.0
	42.3L	85				60	23	27			110	1.3
	55.1L	230			155	432	124	380			1091	4.7
	57.5L	80				105		40			145	1.8
	64.9R	200					115				115	0.6

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 153 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1936

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
BEANS (Continued)												
SACRAMENTO RIVER (Continued)	69.0R	500		130	325	383	268	278	67	93	1544	3.1
	71.9R	100				165	55	42	32		294	2.9
	76.2L	16					21	6			27	1.7
	76.5R	225			12	453		123	33		621	2.8
TOTAL		1809		130	542	1731	750	1018	159	93	4423	2.4
BY-PASS AND DRAINAGE CHANNELS												
Lower Butte Creek	2.9L	675					912	925	406		2243	3.3
Butte Slough	1.4E	200					24	196	45		265	1.3
Sutter By-Pass West	28.4R	3000		322	1646	1178	1408	1648	972		7174	2.4
Sutter By-Pass East	0.4S	275			18	197			263		478	1.7
	1.4N	380				258	157	712	297		1424	3.7
Sacramento Slough	1.4R	360						376			376	1.0
TOTAL		4890		322	1664	1633	2501	3857	1983		11960	2.4
YUBA RIVER												
	1.6L	123				41	120	145	55		361	2.9
	1.9L	15					8	14	9	2	33	2.2
	3.0L	12					9	10	4		23	1.9
	3.0R	30				9		17	18		44	1.5
	4.1L	125		9	49	116	106	28			308	2.5
	5.9L	60				59	50	55			164	2.7
TOTAL		365		9	99	312	342	169	2		933	2.6
OLD SAN JOAQUIN RIVER												
	51.2L	40		4	2	3	8	3			20	0.5
TOTAL		40		4	2	3	8	3			20	0.5

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 153 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1936

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>BEANS (Continued)</u>												
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Merced River	8.5L	100			135	3	4	40			182	1.8
	11.6L	10					19	2			21	0.5
TOTAL		110			135	3	23	42			203	1.8
ALL SOURCES	TOTAL PER CENT OF TOTAL	7214		452 2.6	2354 13.4	3468 19.8	3589 20.5	5267 30.0	2314 13.2	95 0.5	17539	2.4
<u>BEEETS</u>												
SACRAMENTO RIVER												
	3.75R	27			4	16	7				27	1.0
	8.5R	80			50	43	15				108	1.3
	10.75R	185				188	106				294	1.6
	26.95R	280			146	113	101				360	1.3
	29.75R	37			23	30					53	1.4
	31.5R	165			158	67	55				280	1.7
	33.35L	35			12	8	9				29	0.8
	33.75L	50			33	34	4				71	1.4
	33.85R	200			40	76					116	0.6
	37.2L	45			19	38	26				83	1.8
	38.8L	90			33	27	11				71	0.8
	39.4L	80			26		17				43	0.5
	49.7L	50			122	51					173	3.5
	62.3L	90			34	74	42				150	1.7
	65.7L	450			148	275	277	36			736	1.6
	70.4R	277			217	177	111	5			510	1.8
	78.2R	150				67	6				73	0.5
	79.3R	72			60	55	6	26			147	2.0
	124.4R	374			385	179	89				653	1.7
TOTAL		2737			1510	1518	882	67			3977	1.4
ALL SOURCES	TOTAL PER CENT OF TOTAL	2737			1510 38.0	1518 38.1	882 22.2	67 1.7			3977	1.4
<u>CORN</u>												
COULD NOT BE SEGREGATED												

*Mile and Bank refers to mileage as given in Table of Diversions.

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1936

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
HOPS												
COULD NOT BE SEGREGATED												
ORCHARDS												
SACRAMENTO RIVER	2.4L	40			12:	14:	20:	13:	8:	11:	78	2.0
	2.45L	40			22:	14:	24:	15:	16:	3:	94	2.3
	3.55R	135			17:	345:	65:	134:			561	4.1
	76.1L	50			14:	6:	12:	1:			33	0.7
	77.9L	190				134:	165:				299	1.6
	79.5L	38				32:	16:				48	1.3
	82.5L	59				1:	15:	32:	19:		67	1.1
	86.8L	45				42:	34:				76	1.7
	87.4R	60				49:	42:			104:	195	3.3
	88.0R	21				1:	5:				6	0.3
	88.2L	110				18:	47:	7:			72	0.7
	88.7L	25					20:				20	0.8
	89.25L	85					71:				71	0.8
	89.26L	80					90:				90	1.1
	92.5L	85				45:	58:	27:		31:	161	1.9
	93.0L	35				74:	34:				108	3.1
	93.0R	90				74:	34:				108	1.2
	94.4R	30			20:	9:	12:	20:			61	2.0
	95.7R	200					168:		173:	65:	406	2.0
	112.6L	55				45:					45	0.8
	166.7R	5			3:	4:	3:	6:	7:		23	4.6
	166.8R	4			2:	1:		5:	1:	2:	11	2.8
	218.0L	22					3:	13:			16	0.7
TOTAL		1504			90:	908:	938:	273:	224:	216:	2649	1.8
FEATHER RIVER	16.35R	226				234:	327:	75:	208:		844	3.7
	18.75R	67				60:	66:	19:	27:		172	2.6
	43.7L	13				5:	5:	5:	2:		17	1.3
	51.0R	46				19:	39:	19:			77	1.7
	51.4R	105				9:	237:	139:			385	3.7
	55.1L	358			3:	351:	394:	256:			1004	2.9
TOTAL		815			3:	678:	1068:	513:	237:		2499	3.1

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 153 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1936

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ORCHARDS (Continued)</u>												
YUBA RIVER	4.3R	8			1:	1:	18:				20	2.5
	5.3L	70			40:	20:	39:				99	1.4
TOTAL		78			41:	21:	57:				119	1.5
AMERICAN RIVER	3.7L	16				30:	10:		10:		50	3.1
	10.4R	17				17:	15:		28:		60	3.5
	11.7L	27				10:	14:	8:		7:	39	1.4
	11.7L	35					17:	21:			38	1.1
	13.2R	55			10:	26:	37:	5:			78	1.4
	13.9R	77			2:	36:	45:	26:	13:	2:	124	1.6
TOTAL		227			12:	119:	138:	60:	51:	9:	389	1.7
SAN JOAQUIN RIVER	57.5R	10		8:	10:	12:	10:	6:	4:	1:	51	5.1
	58.4R	4		1:	1:	1:	2:	2:	1:		8	2.0
	58.6R	1		1:	1:		2:				4	4.0
TOTAL		15		10:	12:	13:	14:	8:	5:	1:	63	4.2
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Stanislaus River	21.75R	38			30:	38:	31:	6:		23:	128	1.5
TOTAL		88			30:	38:	31:	6:		23:	128	1.5
ALL SOURCES		2727		10:	188:	1777:	2246:	860:	517:	249:	5847	2.1
PER CENT OF TOTAL				0.2:	3.2:	30.4:	38.4:	14.7:	8.8:	4.3:		
<u>RICE</u>												
SACRAMENTO RIVER	12.0R	4300		124:	6712:	4331:	6285:	6877:	771:		25100	5.8
	19.6L	1183		1318:	1682:	1962:	2274:	2123:	247:		9606	8.1
	51.1R	3500		3620:	4514:	4275:	4548:	4244:	310:		21511	6.2
	63.2R	4206		5602:	9353:	6649:	8630:	7064:	1118:		38421	9.1
TOTAL		13189		10664:	22266:	17217:	21737:	20308:	2446:		94633	7.2

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 153 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1936

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>RICE (Continued)</u>												
BY-PASS AND DRAINAGE CHANNELS												
Colusa Trough	2.2L	1200		2460	1920	1860	1920	640			8800	7.3
	3.0L	105				164	156	250	202		772	7.3
	22.0R	300		71	741	838	697	696	440		3483	11.6
Back Borrow Pit	8.8R	560			1213	948	1037	910			4108	7.3
	11.15R	675		929	1245	1186	1226	1159	157		5902	8.8
	14.75R	110		31	148	127	129	128	13		576	5.2
	18.1R	700		212	1643	1430	1377	1346	225		6233	8.9
	21.35R	400			533	462	468	457			1920	4.8
	22.15R	350			665	590	547	470	68		2340	6.7
Sutter By-Pass West	17.5L	291			360	485	513	517	584		2459	8.5
Sutter By-Pass East	1.5N	260			124	121	353	283			881	3.4
	2.9N	750			824	1359	1335	1255	534		5307	7.1
	6.95N	850			1391	2138	2326	2150	320		8325	9.8
Yolo By-Pass	1.8N	340				1006	914	1061	477		3458	10.2
TOTAL		6891		3703	10807	12714	12998	11322	3020		54564	7.9
FEATHER RIVER	58.1R	6962		2005	11383	11135	11184	10233	7129		53069	7.6
	59.7R	9588		934	17642	13976	18149	17478	8181		76360	8.0
TOTAL		16550		2939	29025	25111	29333	27711	15310		129429	7.8
ALL SOURCES	TOTAL PER CENT OF TOTAL	36630		17306 6.2	62098 22.3	55042 19.7	64068 23.0	59341 21.3	20776 7.5		278631	7.6
<u>TRUCK</u>												
SACRAMENTO RIVER	2.05	120		7	17	34	48	90	48	23	267	2.2
	6.0R	34						13	12	1	26	0.8
	8.95R	40		7	11	18	17	24	36	21	170	4.2
	12.7R	75				20	18	28	21	24	120	1.6
	13.1R	110					16	139	57		212	1.9
	13.2R	80					54	67	8		129	1.6
	13.25R	60					20	134	59		213	3.5

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 153 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1936

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Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>TRUCK (Continued)</u>												
SACRAMENTO RIVER (Continued)	15.15R	55				53:	73:	84:			210	3.8
	16.62R	38				11:	11:	3:			25	0.7
TOTAL		612	7:	18:	55:	223:	524:	371:	120:	54:	1372	2.2
FEATHER RIVER	52.5L	40					13:	5:			18	0.4
TOTAL		40					13:	5:			18	0.4
AMERICAN RIVER	7.8R	55				23:	23:	9:	6:	1:	62	1.1
	9.0L	45			22:	10:	22:	15:	1:		70	1.6
	9.2L	50		18:	7:	9:	17:	13:	9:		73	1.5
	11.2L	20		3:	6:	7:	5:	4:	5:	4:	34	1.7
TOTAL		170		21:	35:	49:	67:	41:	21:	5:	239	1.4
SAN JOAQUIN RIVER	46.3R	61				31:	21:	16:	13:		81	1.3
	48.3R	9	1:	1:	6:	6:	8:	11:	5:	4:	42	4.7
	48.5R	18		2:	4:	6:	3:	5:	5:	3:	28	1.6
	48.5R	80	3:	3:	47:	8:	44:	46:	16:	5:	172	2.1
	48.6R	60	1:	6:	9:	10:	15:	21:	12:	5:	79	1.3
	50.4R	67	12:	21:	34:	24:	41:	37:	20:	13:	202	3.0
	52.4R	30				9:	9:	5:	1:		24	0.8
	52.9R	20		5:	11:	15:	15:	14:	5:		65	3.3
	53.2R	120				67:	2:	66:	51:	14:	200	1.7
	53.4R	30	4:			15:	7:	17:	14:	10:	69	2.3
	59.25R	33	4:	6:		33:	6:	22:	41:	29:	153	4.6
	75.25R	17						2:	7:	7:	16	0.9
	106.5R	70				15:	1:	1:			17	0.2
TOTAL		615	25:	44:	241:	125:	264:	268:	137:	44:	1148	1.9

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 153 (CONTINUED)

USE OF WATER ON VARIOUS CROPS-SACRAMENTO-SAN JOAQUIN VALLEYS - 1936

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>TRUCK (Continued)</u>												
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Stanislaus River	1.6R	30			2:		5:	3:			10	0.3
	19.9L	25					2:	28:	10:		40	1.6
	20.75R	190				96:	200:	132:	166:	27:	621	3.3
Tuolumne River	2.2R	20		5:	2:	7:	19:	20:	16:	7:	76	3.8
	7.9R	15		11:	11:	1:					23	1.5
Merced River	4.0L	51		22:	45:	32:	23:	9:	2:	1:	134	2.6
	8.85L	75		6:	32:	10:		31:	79:	8:	166	2.2
	11.6L	80			139:	184:	70:	7:			400	5.0
	17.05L	11			1:		8:	2:			11	1.0
	17.7L	4					2:	2:			7	1.7
	20.3R	4					1:	1:	2:	1:	7	1.7
	20.4L	140	4:	16:	24:	23:	29:	12:	8:		116	0.8
	20.65R	12		1:	1:	5:	2:	2:	5:	1:	17	1.4
	21.1R	23			14:	1:	8:	7:	29:	6:	65	2.8
	21.15R	14				5:	3:	4:			12	0.9
	22.2R	170	1:	5:	101:	89:	97:	78:	67:	8:	446	2.6
27.8R	33			3:	6:	2:		8:	15:	38	1.1	
28.4R	10							6:	11:	18	1.8	
TOTAL		907	5:	69:	378:	455:	469:	352:	410:	64:	2202	2.4
ALL SOURCES TOTAL PER CENT OF TOTAL		2344	37:	152:	709:	852:	1337:	1037:	688:	167:	4979	2.1
			0.7:	3.1:	14.2:	17.1:	26.9:	20.8:	13.8:	3.4:		

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 154

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1935

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS</u>												
SACRAMENTO RIVER	18.45L	75				4	143	57	86	7	297	4.0
	18.7L	40				30	36	29	13		108	2.7
	28.2R	30			23	30	24	18			95	3.1
	35.8L	15				20	22	5	8		55	3.7
	39.2R	100				30	70	40	50		190	1.9
	56.65R	92				70	80	80	70		300	3.3
	62.3R	18				27	3	6			36	2.0
	82.5L	98			10	21	35	25	8		99	1.0
	89.7L	12				5	7	3	3		18	1.5
	92.5L	120				57	128	34			219	1.8
	93.0L	35					14	11		23	48	1.4
	103.3L	24						28			28	1.2
	154.6R	30				6	6		2		14	0.5
	216.0R	10			2	3	5	8	6	2	26	2.6
	221.0R	64			12	56	48	26	12		154	2.4
TOTAL		763			47	359	621	370	258	32	1687	2.2
<u>BY-PASS AND DRAINAGE CHANNELS</u>												
Lower Butte Creek	9.3R	2045				1941	2444	2403	250		7038	3.4
Butte Slough	4.8W	110				100	138	81	21		340	3.1
Sutter By-Pass East	1.5N	375					134	38			172	0.5
	4.5N	265				50	300				350	1.3
	5.8N	800				300	300	300	150		1050	1.3
TOTAL		3613				2391	3316	2822	421		8950	2.5
<u>FEATHER RIVER</u>												
	7.7L	200				89	110	128	105	36	468	2.3
	43.7L	55			16	28	34	35	21	15	149	2.7
	52.9R	25				4	4	7	7	6	28	1.1
TOTAL		280			16	121	148	170	133	57	645	2.3

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 154 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1935

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Ac re
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>ALFALFA AND SUDAN GRASS (Continued)</u>												
SAN JOAQUIN RIVER	49.5R	50			36	27	41	31	19	30	184	3.7
	60.1R	40			9	16	21	24	11		81	2.0
	116.45R	85				67	83	83	67		300	3.5
TOTAL		175			45	110	145	138	97	30	565	3.2
OLD SAN JOAQUIN RIVER	44.6L	10				10	13	13	10		46	4.6
	48.7L	75			14	30	21	38	20		123	1.6
	51.0L	32						9	5		14	0.4
	51.2L	5					5				5	1.0
	52.4L	120	10	11	65	63	84	75	49	35	392	3.3
TOTAL		242	10	11	79	103	123	135	84	35	580	2.4
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Stanislaus River	6.7L	48			28	35	26	39	7	7	142	3.0
	7.4L	40					15				15	0.4
	10.1L	225		139	59	125	108	124	132	85	772	3.4
	18.5R	60			60	60	60	60	60	20	320	5.3
Merced River	5.8L	85		2	34	74	67	51	42	16	286	3.4
	11.6L	90				19	31	21	8		79	0.9
	24.5L	9				3		3	3	3	12	1.3
	28.6R	85			14	26	30	39	29	10	148	1.7
	29.1R	50			7	19	20	14	5		65	1.3
	29.75R	40				21	15	20	17		73	1.8
	30.2L	20			1	4	18	16			39	1.9
TOTAL		752		141	203	366	375	402	303	141	1951	2.6
ALL SOURCES TOTAL		5825	10	152	390	3470	4728	4037	1296	295	14378	2.5
PER CENT OF TOTAL			—	1.0	2.7	24.2	32.9	28.1	9.0	2.1		

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 154 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1935

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre			
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.					
<u>ASPARAGUS</u>															
COULD NOT BE SEGREGATED															
<u>BEANS</u>															
SACRAMENTO RIVER	10.75L	60				94			99			193	3.2		
	11.6L	50				12		70	30		10	122	2.4		
	16.27R	560				285		228	76		6	595	1.1		
	29.75R	14						9	14		1	24	1.7		
	29.9L	65						25	40			65	1.0		
	33.2L	300				474			722		681	1918	6.4		
	34.85L	120				94		202	43			339	2.8		
	35.2L	130						77	25			102	0.8		
	35.6L	28						27	9			36	1.2		
	36.7L	35				15		7	8			30	0.9		
	38.4L	100						43	60			103	1.0		
	38.8L	100						48	38		17	103	1.0		
	39.4L	80						74			32	106	1.3		
	42.2L	25						21	3		2	26	1.0		
	42.3L	58						100	12		19	131	2.3		
	51.5L	20						27	8		3	38	1.9		
	60.4L	30						108				108	3.6		
	62.3L	80						27	3			36	0.5		
	65.7L	60						159	25		41	225	3.8		
	67.5L	1570						1965	1781		1895	433	6074	3.9	
TOTAL		3485						3125	2875		3129	1204	41	10374	3.0
<u>BY-PASS AND DRAINAGE CHANNELS</u>															
Lower Butte Creek	2.9L	650						368	587		184		1139	1.8	
Butte Slough	1.4E	133							150		34		184	1.4	
	3.7W	45							9		7		23	0.5	
Sutter By-Pass West	28.4R	3810		270	1036	2273	2748	1947	848				9122	2.4	
	29.0R	26							8				29	1.1	
Sutter By-Pass East	0.4S	262							93		148		241	0.9	
	19.1N	643							100		602		1172	1.8	

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 154 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1935

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>BEANS (Continued)</u>													
FY-PASS AND DRAINAGE CHANNELS (Continued)													
Sacramento Slough	1.4R	325				151	168					319	1.0
TOTAL		5894		270	1036	2625	4064	3133	1101			12229	2.1
FEATHER RIVER	52.1L	50					24		12			36	0.7
TOTAL		50					24		12			36	0.7
YUBA RIVER	1.6L 4.1L	115 105		8	68	59 112	89 129	159 95	80 40			387 452	3.4 4.4
TOTAL		220		8	68	171	218	254	120			839	3.8
SAN JOAQUIN RIVER	47.3R 75.25R 104.8R	15 6 80					9	9	5 1			23 1 75	1.5 0.2 0.9
TOTAL		101				34	33	26	6			99	1.0
STANISLAUS, TUOLUMNE AND MERCED RIVERS													
Stanislaus River	1.1R 1.6R	8 7						4	3 2			7 2	0.9 0.3
Merced River	8.5L 11.6L	100 50		1	60	64 19	28 31	28 21		8		181 79	1.8 1.6
TOTAL		165		1	60	83	59	53	13			269	1.6
ALL SOURCES	TOTAL PER CENT OF TOTAL	9915		279	1164	6038	7273	6595	2456	41		23846	2.4
				1.1	4.9	25.3	30.5	27.7	10.3	0.2			

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 154 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1935

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
SACRAMENTO RIVER	<u>BEETS</u>												
	10.75R	185			145	162	15	1			323	1.7	
	11.1R	50			4	12	18	12	3		49	1.0	
	31.5R	47			16	34	25	4	1		80	1.7	
	32.0R	7			2	5	3				10	1.4	
	33.5R	371			13	284	67				364	1.0	
	33.75L	85			93		11				104	1.2	
	39.8L	60					21				111	1.8	
	39.9L	25					17				17	0.7	
	52.0L	152			135	44	508	22			709	4.7	
	52.9L	220			56	289	20				365	1.7	
	59.85R	200			88	487					575	2.9	
	61.3L	58				55	53				108	1.9	
64.9R	179				113	114				227	1.3		
70.4R	520			325	396	41				762	1.5		
71.9R	120			29	100	51				180	1.5		
TOTAL		2279			906	2088	947	39	4	0	3984	1.7	
BY-PASS AND DRAINAGE CHANNELS													
Knights Landing Ridge Cut	4.55L	240				82	76				158	0.7	
TOTAL		240				82	76				158	0.7	
ALL SOURCES	TOTAL PER CENT OF TOTAL	2519			906 21.9	2170 52.4	1023 24.7	39 0.9	4 0.1		4142	1.6	
<u>CORN</u>													
						COULD NOT BE SEGREGATED							
<u>HOPS</u>													
SACRAMENTO RIVER	5.3R	54					25				25	0.5	
	5.5R	38					6				6	0.2	
TOTAL		92					31				31	0.3	

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 154 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1935

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>HOPS (Continued)</u>													
AMERICAN RIVER	7.5R	100					134					134	1.3
	9.0L	40				25	23					48	1.2
	9.2L	60					15	12				27	0.4
	9.35L	40					32					32	0.8
TOTAL		240				25	204	12				241	1.3
ALL SOURCES	TOTAL PER CENT OF TOTAL	332				25 9.2	235 86.5	12 4.3				272	0.8
<u>ORCHARDS</u>													
SACRAMENTO RIVER	2.45L	38					23	32	15	18		88	2.3
	3.52R	160					307	209				516	3.2
	4.0R	76			63		155	54				272	3.6
	76.1L	60					21	46	22			89	1.5
	77.9L	190					30	233	34		100	397	2.1
	79.5L	38						31				31	0.8
	80.3R	40					156	80	28			264	6.6
	86.6L	120					149	222				371	3.1
	88.0R	22			4		2	4				10	0.5
	89.25L	80					93					93	1.2
	89.3L	80						89				89	1.1
	93.0R	55					28	55				83	1.5
	94.8R	80					1	174				175	2.2
	101.1R	133					445	183				628	4.7
	110.0R	180					69	53	42			164	0.9
	111.2R	27					10		11		7	28	1.0
	112.6L	70					80		17			97	1.4
	117.8R	152					130	66	20	16	62	294	1.9
	197.65L	27					3	4				7	0.3
TOTAL		1628			67	1702	1326	398	34	169		3696	2.3
FEATHER RIVER	18.75R	67					33	59	30	26	9	157	2.3
	33.9R	150					170	85	63	51		369	2.5
	43.7L	13					6	7	1	2		16	1.2

* Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 154 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1935

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Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre- Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
<u>ORCHARDS</u> (Continued)													
FEATHER RIVER (Continued)	51.0R	46				5	16	16				37	0.8
	51.4R	105					148	85	23			256	2.4
	51.6R	25				20	16					36	1.4
	55.1L	287				270	413	229	202			1114	3.9
	57.0L	40				27	64	35	17			143	3.6
	57.9R	38				20	41			28		89	2.3
TOTAL		771				551	849	459	321	37		2217	2.9
YUBA RIVER	4.9L	15					16	13				29	1.9
	5.3L	50		5	29	59	36					129	2.6
	6.35L	125				87	263	143				493	3.9
TOTAL		190		5	29	146	315	156				651	3.4
AMERICAN RIVER	3.7L	16					31		2			33	2.1
	10.4R	17				12		5	9			26	1.5
	11.7L	30				17	22	11		8		58	1.9
	11.7L	40					16	10				26	0.6
	13.2R	55			8	50	54	38				150	2.7
TOTAL		158			8	79	123	64	11	8		293	1.9
SAN JOAQUIN RIVER	57.5R	12		2	7	9	12	4	3	1		38	3.2
TOTAL		12		2	7	9	12	4	3	1		38	3.2
OLD SAN JOAQUIN RIVER	47.2L	70					25	4	13			42	0.6
TOTAL		70					25	4	13			42	0.6
STANISLAUS, TUOLUMNE AND MERCED RIVERS													
Stanislaus River	21.75R	75				49	51	25	8			133	1.8
Tuolumne River	4.1R	110		26	90	70	49	40	39	44		358	3.3

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 154 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1935

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet							Total Acre-Feet	Acre-Feet per Acre	
			Mar.	Apr.	May	June	July	Aug.	Sept.			Oct.
<u>ORCHARDS (Continued)</u>												
STANISLAUS, TUOLUMNE AND MERCED RIVERS (Continued)												
Merced River	32.9R	45							19	6	25	0.6
TOTAL		230		26	90	119	100	84	53	44	516	2.2
ALL SOURCES	TOTAL PER CENT OF TOTAL	3059		33 0.4	201 2.7	2606 35.0	2750 36.9	1169 15.7	435 5.8	259 3.5	7453	2.4
<u>RICE</u>												
SACRAMENTO RIVER	19.6L 51.1R 102.8R 154.8R	553 1100 380 1100			987 1816 747 2025	1129 2470 1179 2550	1164 2300 1138 2152	1290 2190 1288 2112	726 390 437 1930		5296 9166 4804 11146	9.6 8.3 12.6 10.1
TOTAL		3133			5575	7328	6754	6880	3483	392	30412	9.7
BY-PASS AND DRAINAGE CHANNELS												
Colusa Trough	3.0L 22.0R	125 320			175 524	200 480	200 519	200 697	180 469		955 2866	7.6 9.0
Back Borrow Pit	4.35R 11.15R 15.75R 20.0R	875 1000 378 450			1721 1486 560 658	1700 1500 536 645	1638 1441 403 673	1622 1453 405 677	847 244 234 347		7528 6124 2138 3000	8.6 6.1 5.7 6.6
Lower Butte Creek	19.8R	200			283	552	560	595	202		2192	11.0
Sutter By-Pass East	1.4N 1.4N 1.4N 2.2N	300 200 296 400			360 220 97	300 180 1070	900 540 758	900 540 601 873	720 430 474 415		3180 1910 2614 3213	10.6 9.6 8.8 8.0
TOTAL		4544		112	6084	7972	8273	8563	4562	154	35720	7.8
ALL SOURCES	TOTAL PER CENT OF TOTAL	7677		112 0.2	11659 17.6	15300 23.1	15027 22.7	15443 23.4	8045 12.2	546 0.8	66132	8.6

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 154 (CONTINUED)

USE OF WATER ON VARIOUS CROPS SACRAMENTO-SAN JOAQUIN VALLEYS - 1935

Crop and Diversion Source	*Mile and Bank	Acres	Monthly Diversion in Acre-Feet								Total Acre-Acre	Acre-Feet per Acre
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		
<u>TRUCK</u>												
SACRAMENTO RIVER	8.95R	37			24	47	53	68	44	17	253	6.8
	12.7R	65			5	11	21	19	13	6	75	1.2
	15.15R	170				82	46	29			157	0.9
	20.5L	125			14	16	60	39	29	7	165	1.3
	TOTAL		397			43	156	180	155	86	30	650
AMERICAN RIVER	6.7L	20				3	7	6	7	5	28	1.4
	9.2R	40					41				41	1.0
	10.5R	40		3	15	18	15	16	9		76	1.9
	TOTAL		100		3	15	62	22	22	16	5	145
SAN JOAQUIN RIVER	48.3R	16			7	7	12	9	11	3	49	3.1
	48.5R	17			5	6	3	4	9	5	32	1.9
	48.5R	65		1	30	23	70	55	32	15	226	3.5
	48.6R	75		2	13	27	15	28	20	2	107	1.4
	48.7R	50			5	16	9	19	3		52	1.0
	50.4R	110	5	18	33	22	25	41	22	9	175	1.6
	59.25R	40		8	27	25	21	19	14	13	127	3.2
	TOTAL		373	5	29	120	126	155	175	111	47	768
STANISLAUS, TUOLUMNE AND MERCED RIVERS												
Stanislaus River	19.9L	10							5	4	9	0.9
Tuolumne River	7.9R	25			5	10	9	7	1		32	1.3
Merced River	17.05L	18		4	4	4	4	4	4	1	25	1.4
	20.4L	50			21	24	26	22	9		102	2.0
	21.1R	18			7	17	7	12	34	13	90	5.0
	22.2R	188			131	168	197	144	54	15	709	3.8
TOTAL		309		4	168	223	243	189	107	33	967	3.1
ALL SOURCES	TOTAL PER CENT OF TOTAL	1179	0.2	36	346	567	600	541	320	115	2530	2.1

*Mile and Bank refers to mileage as given in Table of Diversions.

TABLE 155

USE OF WATER OBTAINED FROM WELLS ON VARIOUS CROPS
IN THE
SUISUN, VACAVILLE, DIXON, WOODLAND AND SACRAMENTO DISTRICTS

Crop	Number of Wells	Acreage		Acre-Feet	
		of Crop	Average per pump	Pumped	per Acre
Alfalfa	114	5280	46	15900	3.0
Asparagus	1	51	51	59	1.2
Beets	68	6180	91	15300	2.5
Berries	6	58	10	163	2.8
Grapes	19	543	28	1130	2.1
Hops	4	188	47	185	1.0
Ladino	32	1020	32	4500	4.4
Orchard	38	1480	39	3190	2.2
Tomatoes	6	434	73	950	2.2
Totals	288	15230	53	41380	2.7

TABLE 156

AVERAGE PUMPING COSTS, CAPACITIES AND PUMPING HEADS FOR WELLS
IN THE
SUISUN, VACAVILLE, DIXON, WOODLAND AND SACRAMENTO DISTRICTS

District	No. of Wells	Cap. G.P.M.	Plant Eff. %	Pump Head Ft.	K.W.H. per Ac.Ft.	Acres per Well	Ac.Ft. per Acre	Cost per Ac.Ft. \$
Suisun-Fairfield								
South of Rockville Hy	15	228	45	87	207	44	1.4	3.47
North of Rockville Hy	11	288	34	52	157	32	1.8	3.19
Vacaville								
East of Town	24	266	43	64	155	37	4.1	2.44
Dixon								
Northeast of Dixon	36	816	52	61	126	52	2.8	2.54
Northwest of Dixon	37	766	50	62	132	60	3.2	2.34
Southwest of Dixon	38	485	47	67	163	34	3.0	2.94
Woodland								
Northeast of Woodland	60	1560	53	43	86	110	2.5	1.59
Vic. of Yolo	66	1440	56	43	81	82	2.6	1.67
Southwest of Woodland	21	1230	52	47	91	78	2.6	1.98
Southeast of Woodland	17	1480	58	50	88	86	2.7	1.86
Sacramento								
Florin-Perkins-Mills	52	377	46	54	122	26	2.2	2.75
Elk Grove-Sheldon-								
Wilton	45	460	44	50	120	26	2.5	2.76
South of Sacramento	50	510	48	44	98	29	3.2	2.14
North and East of Sacramento								
Sacramento	24	930	48	52	113	95	2.9	2.20

CHAPTER VII

TIDE GAGES

In order to determine the behavior of the tides in the Sacramento-San Joaquin Delta and Upper Bay, 27 recording tide gages are being operated, 17 by the Division of Water Resources, 4 by the U. S. Army Engineers, and 6 by the U. S. Bureau of Reclamation. These gages are scattered throughout the area and the location and a description of each station are given in Table 157. The table also shows when the gage was first installed. The gages have been operated continuously since their installation, with the exception of minor breaks in the record due to stoppages, etc. Only one gage has been out of commission for any length of time, this one being at the San Joaquin end of Three Mile Slough. It was out of operation from September 1935 until July 1938.

The charts from the State-owned and operated gages are on file and the data for some of them have been tabulated.

During 1929, 1930 and 1931 gages were operated at many other points for short periods. Bulletin 27 of the Division of Water Resources gives the data obtained from these gage operations.

During the fall of 1939 the United States Coast and Geodetic Survey ran a line of first order levels between Galt-Fairfield and Stockton and ultimately all of these gages will be tied to sea level datum, thus bringing all gages in the delta area to one datum plane.

Plate 4 shows the location of all the recording gages now in operation,

TABLE 157

LOCATION AND DATE OF INSTALLATION OF RECORDING TIDE GAGES IN SACRAMENTO-SAN JOAQUIN DELTA AND SUISUN BAY

Name of Station	Operated by*	Location	Date Installed
<u>SACRAMENTO DELTA</u>			
Sacramento	D.W.R.	Left bank of Sacramento River at Southern Pacific Railroad Bridge	1920
Snodgrass Slough	D.W.R.	Left bank, Sacramento River; about 0.1 mile above Hollister landing about $\frac{1}{4}$ mile above head of Snodgrass Slough (now leveed off).	Aug. 1939
Walnut Grove	D.W.R.	Left bank of Sacramento River at head of Georgiana Slough; lower end of town of Walnut Grove.	Feb. 1929
Rio Vista	U.S.E.D.	Right bank of Sacramento River at U. S. Engineers depot below Rio Vista; about $1\frac{1}{2}$ miles below Rio Vista Bridge	Apr. 1908
Three Mile Slough (Sac.)	D.W.R.	On Brannon Island side of Slu. Pile dolphin about 0.1 mile from Three Mile Slu. Bridge.	Apr. 1929
Mayberry Slough	U.S.E.D.	Right bank of Sacramento River about four miles above Collinsville	Prior to 1929
Collinsville	D.W.R.	Right bank of Sacramento River. On pile dolphin about 0.1 mile upstream from junction of mainstreet and river.	June 1929
<u>MOKELUMNE DELTA</u>			
New Hope Bridge	D.W.R.	Right bank of the south fork of Mokelumne River; just below New Hope Bridge	Aug. 1920
Terminus	U.S.B.R.	On highway bridge over Potato Slough between Terminus Tract and Bouldin Island	July 1940
Georgiana Slough	D.W.R.	On Andrus Island near junction of Georgiana Slough and Mokelumne River. At former location of Golden State Asparagus Company Plant.	June 1929
<u>SAN JOAQUIN DELTA</u>			
Mossdale Bridge	D.W.R.	Right bank of San Joaquin River just below U.S. 40 crossing	1920
Grant Line	U.S.B.R.	Right bank of Grant Line canal at Tracy road crossing.	Oct. 1940
Brandts Bridge	U.S.B.R.	Right bank of San Joaquin River at Brandts Bridge between Roberts Island and mainland.	July 1940
Stockton	U.S.E.D.	At head of McLeod Lake; El Dorado Street.	Dec. 1927

*D.W.R. - Division of Water Resources; U.S.E.D. - United States Army Engineers; U.S.B.R. - United States Bureau of Reclamation.



LEGEND

- ▲ USBR. STATION
- ◊ USGS. STATION
- DWR. STATION

SACRAMENTO - SAN JOAQUIN WATER SUPERVISION

LOCATIONS OF RECORDING TIDE GAGE STATIONS

SACRAMENTO-SAN JOAQUIN DELTA AND SUISUN BAY

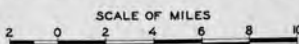


TABLE 157 (CONTINUED)

LOCATION AND DATE OF INSTALLATION OF RECORDING TIDE GAGES IN SACRAMENTO-SAN JOAQUIN DELTA AND SUISUN BAY

Name of Station	Operated by*	Location	Date Installed
<u>SAN JOAQUIN DELTA (Continued)</u>			
Burns Cut-off	U.S.B.R.	On Stockton ship canal at East Bay Municipal Utility District Crossing. Northwest corner of Rough and Ready Island.	May 1940
Rindge	D.W.R.	At southeast corner of Rindge Tract, on Fourteen Mile Slough at Junction with Ship Canal.	July 1939
Middle River (Borden)	D.W.R.	Left bank of Middle River just below Borden Highway Bridge. On Victoria Island.	July 1939
Old River (Mansion House)	D.W.R.	Right bank of Old River at Mansion House. On Victoria Island. On timber dolphin.	Aug. 1939
Mandeville	U.S.B.R.	South side of Mandeville Island. On Mandeville cut at beet dump about one mile west of Bacon-Mandeville ferry.	July 1940
Rock Slough	U.S.B.R.	North bank of Rock Slough near head of slough. About $1\frac{1}{2}$ miles east of Knightsen.	May 1936
Venice Island	U.S.E.D.	On Stockton ship canal near Venice Island headquarters of Blakes Landing.	Jan. 1928
Three Mile Slu (S.J.)	D.W.R.	On Sherman Island at R. D. 341 drainage plant. Near junction of slough with San Joaquin River. On pile dolphin.	June 1929
Antioch	D.W.R.	On wharf of Antioch Water Works.	June 1929
<u>SUISUN BAY</u>			
Benicia	D.W.R.	North side of Suisun Bay. On Benicia Arsenal wharf.	Apr. 1940(1)
<u>YOLO BY-PASS</u>			
Lisbon	D.W.R.	Left bank of Yolo By-Pass below north end of San Francisco and Sacramento Railroad trestle.	1920
Liberty Island	D.W.R.	Right bank dredger cut separating Little Holland and Liberty Island. $\frac{1}{2}$ mile north of Yolo - Solano County Line.	1930
Lindsay Slough	D.W.R.	South bank Lindsay Slough. $\frac{1}{2}$ mile west of Wright Cut. At Montezuma Ranch headquarters of California Packing Corporation.	Jan. 1942

* D.W.R. - Division of Water Resources; U.S.E.D. - United States Army Engineers; U.S.B.R. - United States Bureau of Reclamation.

(1) Gage originally installed June 1929 and operated until October 1931 by Division of Water Resources. In interim 1931 to April 1940 recorders have been operated here at intervals by U. S. Engineers and U. S. Coast and Geodetic Survey.



