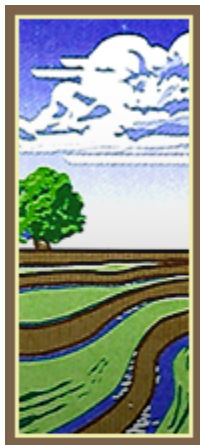




2019
Reclamation District 108
Water Measurement Report



RECLAMATION
DISTRICT
108

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Table 1A
Water Supply Overview

Year	Surface Water Supplies			Groundwater Supply	Total Water Supply
	Sacramento River Diversion	Colusa Basin Drain Diversion	Outside Drainage into District	District Groundwater Pumping	
2019	160,937	0	1,384	0	162,321
2018	160,672	0	732	0	161,404
2017	151,933	0	947	33	152,913
2016	167,033	0	630	95	167,758
2015	129,591	1,396	930	9,244	141,161
2014	133,067	0	779	8,336	142,182

Volume in Acre-feet

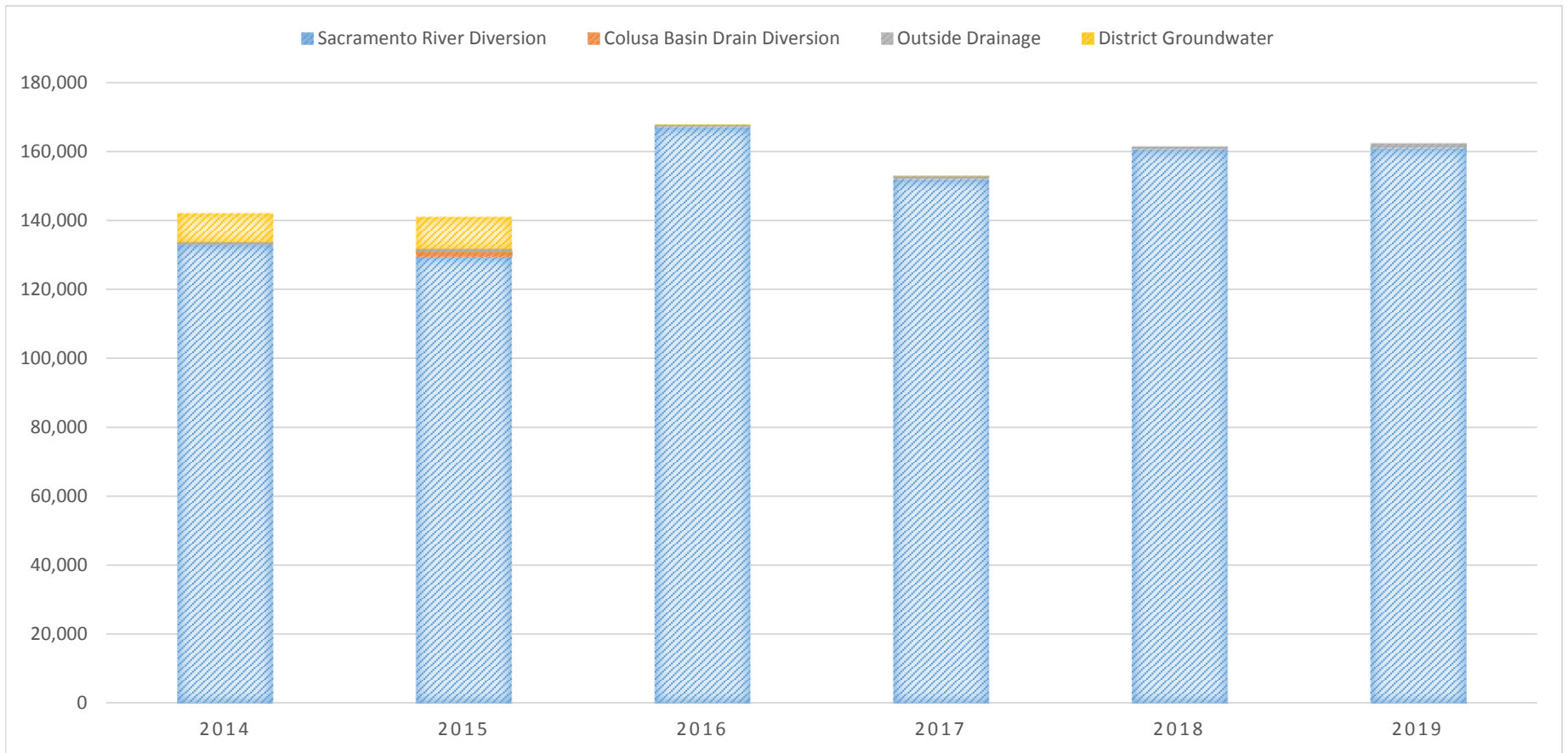


Table 1B
Sacramento River Diversion

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2019	414	619	13	1,977	25,653	32,597	41,223	30,199	5,047	3,851	15,246	4,098	160,937
2018	4	614	364	1,577	33,847	36,154	39,523	24,609	3,668	6,745	2,706	10,861	160,672
2017	661	155	1,272	521	29,310	30,835	39,238	27,324	4,579	2,139	11,777	4,122	151,933
2016	0	704	1,652	6,790	35,697	35,327	40,024	25,094	4,858	7,031	7,207	2,649	167,033
2015	198	0	5,927	7,992	28,994	26,692	26,796	16,466	4,635	1,558	6,406	3,927	129,591
2014	1,060	2,000	3,046	2,220	31,295	27,463	30,223	19,727	6,343	5,063	1,712	2,916	133,067

Volume in Acre-feet

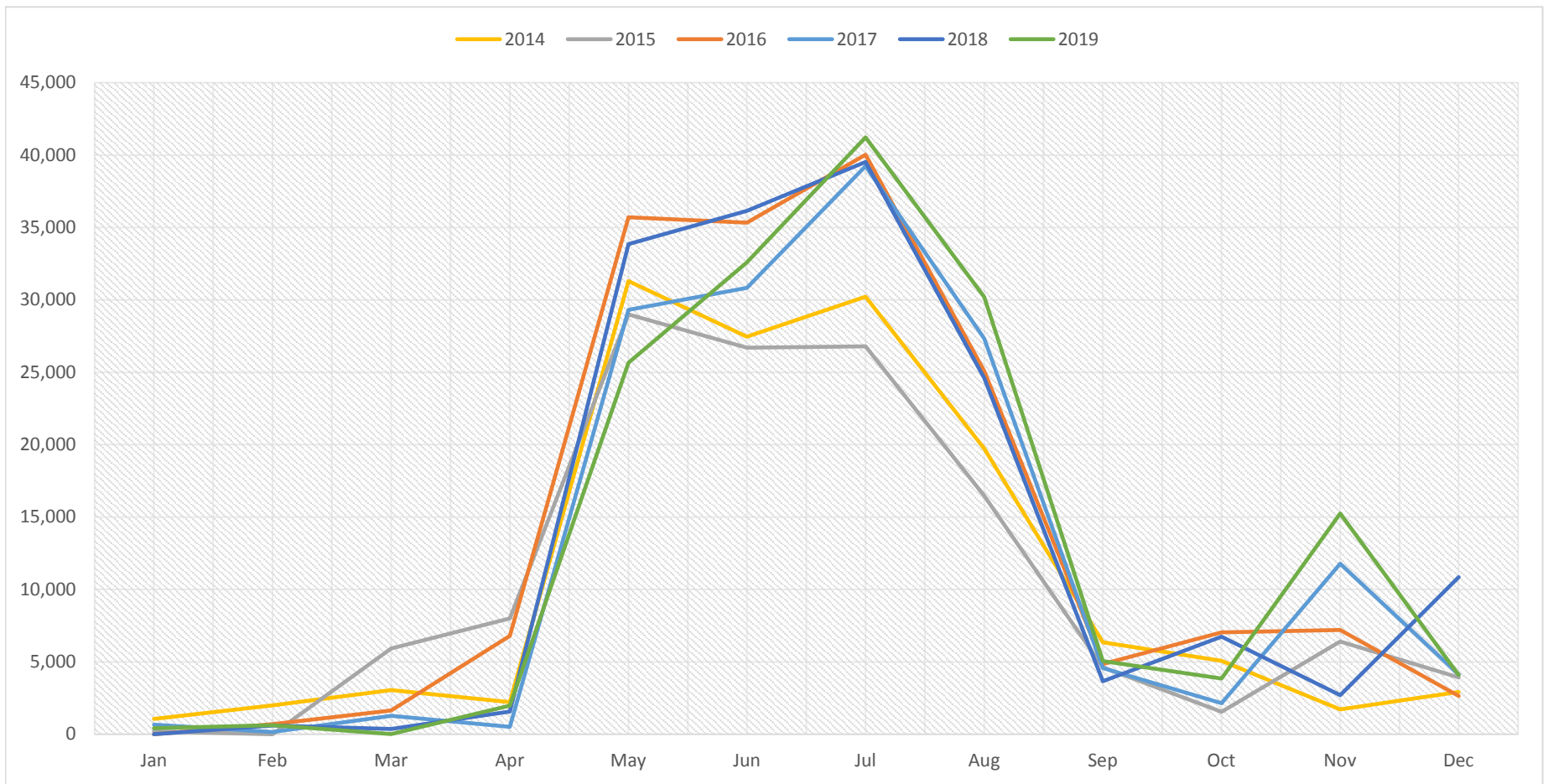


Table 1C
Sacramento River Diversions by Pumping Plant

Year	Jan	Feb	Mar	USBR Values							Nov	Dec	Total
				Apr	May	Jun	Jul	Aug	Sep	Oct			
2019													160,937
Wilkins Slough	209	0	0	1,716	21,528	23,810	31,569	22,732	2,122	3,457	13,657	3,156	123,956
El Dorado	0	0	0	22	815	1,332	958	0	0	0	251	0	3,378
North Steiner	0	0	0	0	6	79	214	226	72	0	0	0	597
N. Poundstone	0	0	0	0	105	391	463	427	14	7	0	0	1,407
S. Poundstone	205	619	13	239	3,136	6,830	7,850	6,644	2,707	375	1,338	942	30,898
Hine	0	0	0	0	63	131	153	151	132	12	0	0	642
Locvich	0	0	0	0	0	24	16	19	0	0	0	0	59
2018													160,672
Wilkins Slough	0	0	239	740	26,805	26,918	30,136	17,010	783	5,842	2,133	10,548	121,154
El Dorado	0	0	0	0	1,766	0	0	0	0	0	0	0	1,766
North Steiner	0	0	0	60	111	172	163	165	42	0	0	0	713
N. Poundstone	0	0	0	33	377	260	76	360	184	73	0	0	1,363
S. Poundstone	4	614	124	744	4,723	8,763	9,023	6,912	2,613	830	573	313	35,236
Hine	0	0	0	0	0	0	109	162	46	0	0	0	317
Locvich	0	0	1	0	65	41	16	0	0	0	0	0	123
2017													151,933
Wilkins Slough	661	0	0	468	22,247	23,464	30,804	20,522	1,762	1,749	11,420	3,903	117,000
El Dorado	0	0	0	0	2,170	811	0	0	0	0	0	0	2,981
North Steiner	0	0	0	0	0	84	159	152	11	0	0	0	406
N. Poundstone	0	0	0	0	170	280	390	40	44	11	0	0	935
S. Poundstone	0	155	1,272	53	4,723	6,106	7,701	6,510	2,664	379	357	219	30,139
Hine	0	0	0	0	0	90	184	100	98	0	0	0	472
Locvich	0	0	0	0	0	0	0	0	0	0	0	0	0
2016													167,033
Wilkins Slough	0	0	0	4,495	25,971	25,761	31,412	14,969	1,935	6,019	6,956	2,214	119,732
El Dorado	0	0	0	345	2,776	677	0	2,600	0	561	0	0	6,959
North Steiner	0	0	0	83	70	216	196	69	55	0	0	0	689
N. Poundstone	0	0	0	181	344	411	521	407	158	0	0	0	2,022
S. Poundstone	0	704	1,652	1,635	6,452	8,163	7,766	6,964	2,604	371	251	435	36,997
Hine	0	0	0	51	66	76	108	79	87	80	0	0	547
Locvich	0	0	0	0	18	23	21	6	19	0	0	0	87
2015													129,591
Wilkins Slough	0	0	1,950	4,037	16,019	17,510	17,451	9,351	1,130	508	3,173	2,751	73,880
El Dorado	0	0	0	0	2,596	0	0	0	0	0	0	0	2,596
North Steiner	0	0	0	128	330	262	252	168	40	0	0	0	1,180
N. Poundstone	0	0	0	192	381	285	444	318	87	0	0	0	1,707
S. Poundstone	198	0	3,978	3,505	9,503	8,499	8,540	6,524	3,267	1,050	3,233	1,176	49,473
Hine	0	0	0	102	106	99	106	105	111	0	0	0	629
Locvich	0	0	0	28	59	37	3	0	0	0	0	0	127
2014													133,067
Wilkins Slough	0	0	0	566	20,448	19,817	23,250	14,957	2,911	3,974	1,067	2,128	89,118
El Dorado	0	0	0	0	3,272	0	23	0	0	0	0	0	3,295
North Steiner	0	0	0	0	140	296	271	121	57	0	0	0	885
N. Poundstone	0	0	0	100	470	592	680	102	55	13	0	0	2,012
S. Poundstone	1,060	2,000	3,046	1,543	6,870	6,667	5,913	4,455	3,227	1,076	644	788	37,288
Hine	0	0	0	0	95	91	86	92	93	0	0	0	457
Locvich	0	0	0	11	0	0	0	0	0	0	0	0	11

Table 1D
Colusa Basin Drain Diversion

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2019													
Riggs Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0
2018													
Riggs Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0
2017													
Riggs Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0
2016													
Riggs Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0
2015													
Riggs Ranch	0	0	0	0	0	0	0	466	931	0	0	0	1,396
2014													
Riggs Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0

Volume in Acre-feet

Private Drainage Into District Conveyance
Measured During Non Rainy Months

Table 1E
Outside Drainage

Year	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
2019								
Grimes/Arbuckle Road	0	12	0	0	45	1	0	58
Division 3 West	0	23	9	0	145	12	1	190
Division 3 East	0	41	27	26	73	7	38	212
Erdman	0	141	169	257	256	101	0	924
2018								
Grimes/Arbuckle Road	5	1	6	7	45	4	0	68
Division 3 West	21	26	27	112	100	21	58	365
Division 3 East	0	4	22	59	20	2	5	112
Erdman	0	0	62	77	31	17	0	187
2017								
Grimes/Arbuckle Road	12	2	0	5	47	0	0	66
Division 3 West	19	89	0	16	0	0	0	124
Division 3 East	1	8	0	0	0	0	0	9
Erdman	371	263	0	34	48	32	0	748
2016								
Grimes/Arbuckle Road	6	2	2	4	3	0	0	17
Division 3 West	19	62	133	174	74	0	0	462
Division 3 East	1	15	35	57	43	0	0	151
Erdman	0	0	0	0	0	0	0	0
2015								
Grimes/Arbuckle Road	3	61	35	25	11	0	0	135
Division 3 West	91	97	58	108	104	22	0	480
Division 3 East	12	4	30	30	73	1	0	150
Erdman	6	56	10	94	0	0	0	166
2014								
Grimes/Arbuckle Road	0	0	1	0	0	0	1	2
Division 3 West	0	52	100	114	132	0	26	424
Division 3 East	0	5	25	27	28	3	0	88
Erdman	0	0	31	97	63	74	0	265

Volume in Acre-feet

Table 1F
District Groundwater Pumping

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2019													
Well #1	0	0	0	0	0	0	0	0	0	0	0	0	0
Well #4	0	0	0	0	0	0	0	0	0	0	0	0	0
Riggs Ranch Well	0	0	0	0	0	0	0	0	0	0	0	0	0
County Line Rd. Well	0	0	0	0	0	0	0	0	0	0	0	0	0
Tract 6 Well	0	0	0	0	0	0	0	0	0	0	0	0	0
2018													
Well #1	0	0	0	0	0	0	0	0	0	0	0	0	0
Well #4	0	0	0	0	0	0	0	0	0	0	0	0	0
Riggs Ranch Well	0	0	0	0	0	0	0	0	0	0	0	0	0
County Line Rd. Well	0	0	0	0	0	0	0	0	0	0	0	0	0
Tract 6 Well	0	0	0	0	0	0	0	0	0	0	0	0	0
2017													
Well #1	0	0	0	0	0	2	0	0	0	0	0	0	2
Well #4	0	0	0	0	0	1	0	0	0	0	0	0	1
Riggs Ranch Well	0	0	0	0	0	24	0	0	0	0	0	0	24
County Line Rd. Well	0	0	0	0	0	3	0	0	0	0	0	0	3
Tract 6 Well	0	0	0	0	0	3	0	0	0	0	0	0	3
2016													
Well #1	0	0	0	0	0	0	0	0	0	0	0	0	0
Well #4	0	0	0	0	0	0	0	0	0	0	0	0	0
Riggs Ranch Well	0	0	0	0	46	44	4	0	0	0	0	0	95
County Line Rd. Well	0	0	0	0	0	0	0	0	0	0	0	0	0
Tract 6 Well	0	0	0	0	0	0	0	0	0	0	0	0	0
2015													
Well #1	0	0	0	94	408	386	349	323	94	0	0	0	1,656
Well #4	0	0	0	51	173	167	157	149	42	0	0	0	738
Riggs Ranch Well	0	0	10	257	793	665	564	527	156	0	0	0	2,973
County Line Rd. Well	0	0	0	51	505	473	440	416	121	0	0	0	2,005
Tract 6 Well	0	0	0	17	483	447	419	392	114	0	0	0	1,872
2014													
Well #1	0	0	0	0	407	405	417	105	0	0	0	0	1,334
Well #4	0	0	0	0	162	157	171	72	157	16	0	0	736
Riggs Ranch Well	0	0	0	0	665	598	618	232	523	60	126	0	2,822
County Line Rd. Well	0	0	0	0	360	417	486	124	0	0	0	0	1,386
Tract 6 Well	0	0	0	0	462	456	462	209	429	38	0	0	2,058

Volume in Acre-feet

Table 2A
Drainage Reuse Overview

Year	Total Recirculation of Irrigation Drainage
2019	68,922
2018	64,308
2017	49,098
2016	46,309
2015	62,846
2014	51,717

Volume in Acre-feet

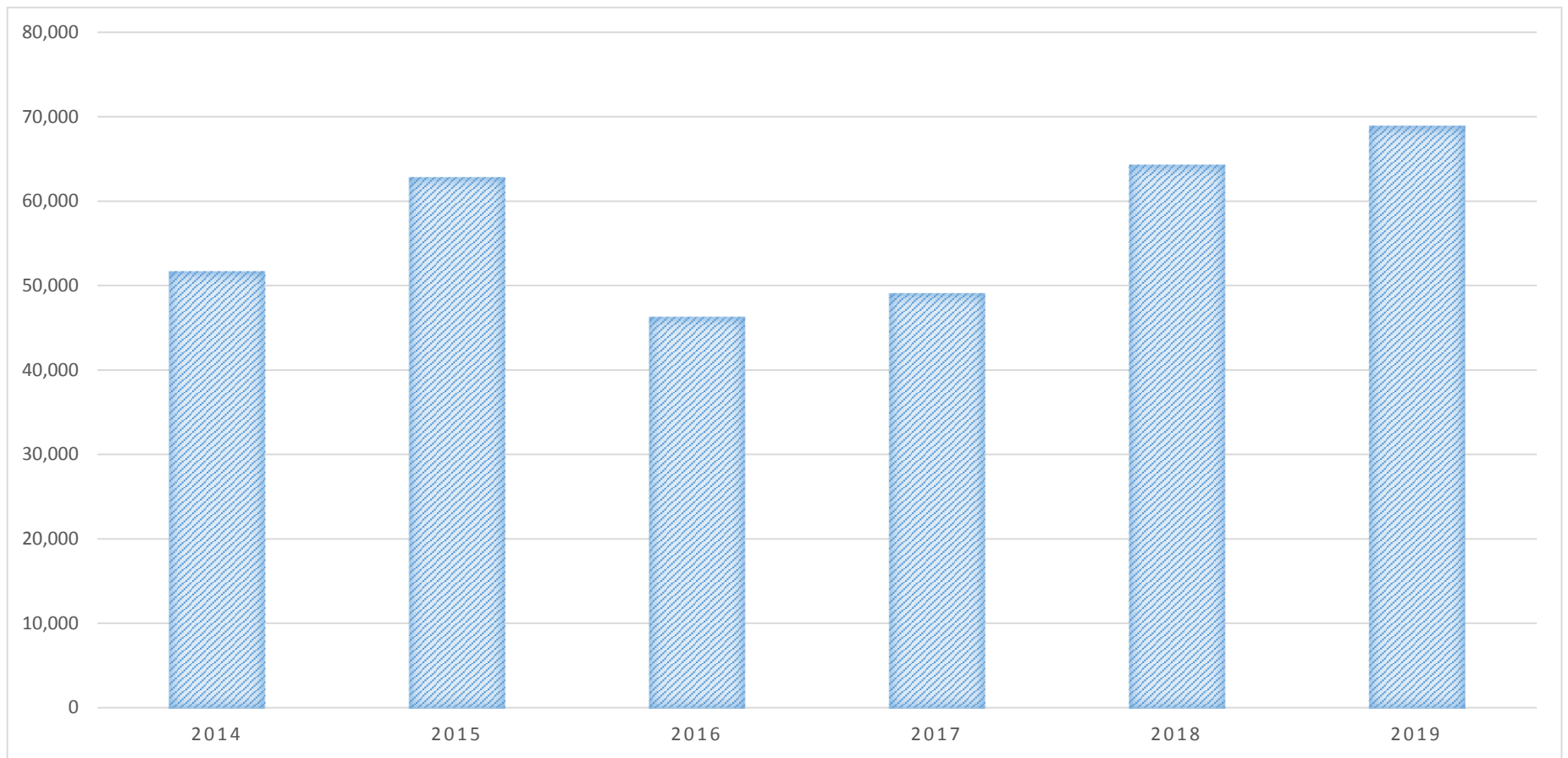


Table 2C
Drainage Reuse by Pumping Plant

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2019													
Lateral 8	0	0	0	0	205	1,652	3,558	6,136	1,678	0	0	0	13,229
Sycamore	160	344	0	1,544	3,432	9,410	10,231	9,882	5,560	131	3,786	2,976	47,455
Riggs	0	0	0	0	148	678	2,346	3,333	1,732	0	0	0	8,238
2018													
Lateral 8	0	0	0	0	0	0	4,495	8,310	4,054	0	0	0	16,859
Sycamore	0	0	430	228	5,293	9,123	11,742	8,808	2,388	522	88	4,385	43,008
Riggs	0	0	0	0	0	0	81	2,956	1,405	0	0	0	4,442
2017													
Lateral 8	0	0	0	0	0	0	3,156	7,482	5,282	0	0	0	15,920
Sycamore	1,277	1,833	0	0	3,133	5,397	7,670	7,086	2,304	23	3,501	954	33,178
Riggs	0	0	0	0	0	0	0	0	0	0	0	0	0
2016													
Lateral 8	0	0	0	0	0	0	1,504	8,272	4,937	0	0	0	14,713
Sycamore	0	0	0	473	3,707	4,583	6,862	3,291	2,185	787	1,988	737	24,613
Riggs	0	0	0	0	498	0	1,661	3,346	1,478	0	0	0	6,983
2015													
Lateral 8	0	0	0	0	5,088	5,028	5,811	4,704	0	0	0	0	20,631
Sycamore	0	29	1,086	1,059	6,353	7,312	8,717	7,147	1,772	1,065	1,266	256	36,062
Riggs	0	0	0	415	599	1,402	1,557	1,688	492	0	0	0	6,153
2014													
Lateral 8	0	0	0	0	1,045	5,275	4,246	5,553	966	0	0	0	17,085
Sycamore	0	0	148	97	4,230	7,781	7,952	5,816	1,413	638	0	13	28,088
Riggs	0	0	0	75	601	0	0	2,934	2,934	0	0	0	6,544

Volume in Acre-feet

Table 3A
Water Outflow Overview

Year	Drainage Discharge to Sacramento River	Discharge to Colusa Basin Drain	Water Wheeled to Other Users	Total Water Outflow
2019	110,172	0	4,534	114,706
2018	46,084	0	6,140	52,224
2017	112,076	9,711	5,987	127,774
2016	56,803	2,709	5,533	65,045
2015	31,904	0	203	32,107
2014	40,943	1,471	1,770	44,184

Volume in Acre-feet

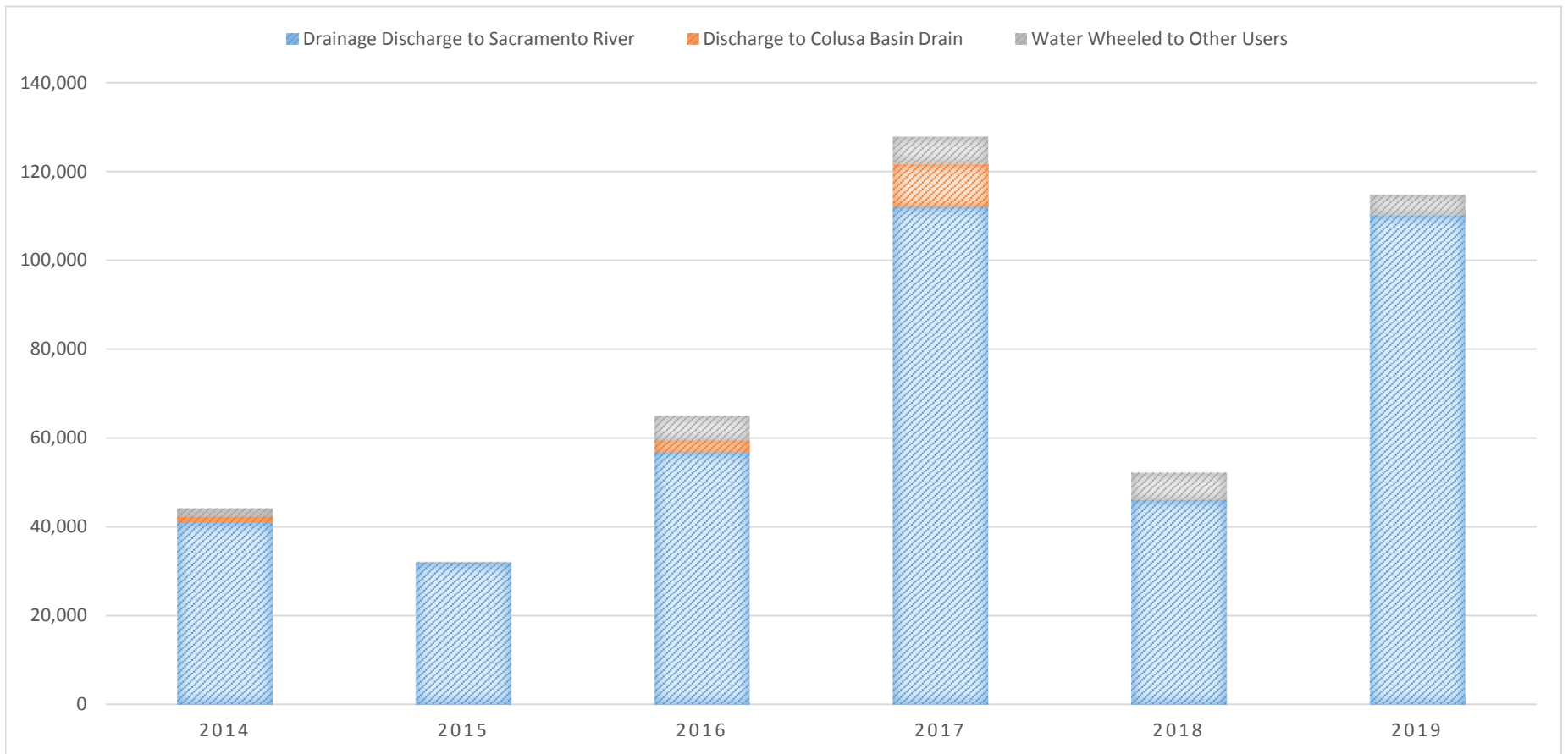


Table 3B
Sacramento River Drainage Discharge

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2019													
Rough & Ready	18,371	29,271	20,373	5,705	7,741	1,531	2,115	1,739	10,394	1,188	513	9,762	108,703
El Dorado	0	1,469	0	0	0	0	0	0	0	0	0	0	1,469
2018													
Rough & Ready	6,423	5,497	2,662	2,090	4,183	4,383	1,380	3,068	9,527	1,239	2,739	2,893	46,084
El Dorado	0	0	0	0	0	0	0	0	0	0	0	0	0
2017													
Rough & Ready	28,630	30,072	11,500	6,275	5,710	7,180	594	3,143	8,685	1,003	2,330	3,550	108,672
El Dorado	1,425	1,978	0	0	0	0	0	0	0	0	0	0	3,403
2016													
Rough & Ready	4,801	4,000	7,929	1,911	6,986	5,029	1,675	3,100	9,865	1,902	2,627	6,977	56,803
El Dorado	0	0	0	0	0	0	0	0	0	0	0	0	0
2015													
Rough & Ready	3,100	6,430	2,423	1,765	1,913	0	0	3,562	8,048	359	694	3,610	31,904
El Dorado	0	0	0	0	0	0	0	0	0	0	0	0	0
2014													
Rough & Ready	1,085	3,471	4,861	1,544	1,759	1,270	0	1,101	8,628	1,661	1,435	14,128	40,943
El Dorado	0	0	0	0	0	0	0	0	0	0	0	0	0

Volume in Acre-feet

Table 3C
Colusa Basin Drain Drainage Discharge

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2019													
Riggs Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0
2018													
Riggs Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0
2017													
Riggs Ranch	3,342	4,042	141	0	0	0	0	145	2,041	0	0	0	9,711
2016													
Riggs Ranch	2	18	0	0	131	0	746	475	1,326	0	0	11	2,709
2015													
Riggs Ranch	0	0	0	0	0	0	0	0	0	0	0	0	0
2014													
Riggs Ranch	0	0	0	0	0	0	0	0	0	0	0	1,471	1,471

Volume in Acre-feet

Table 3D
Water Delivered to Other Users

Delivery to Fair Ranch

Year	Jan	Feb	Mar	USBR Values							Nov	Dec	Total
				Apr	May	Jun	Jul	Aug	Sep	Oct			
2019													
Jacob's Point	0	0	0	0	26	1,309	1,501	1,286	411	1	0	0	4,534
2018													
Jacob's Point	0	0	0	0	1,264	1,195	1,706	1,591	384	0	0	0	6,140
2017													
Jacob's Point	0	0	0	0	969	1,041	1,535	1,694	249	0	0	499	5,987
2016													
Jacob's Point	0	0	0	115	1,381	1,154	1,300	1,272	311	0	0	0	5,533
2015													
Jacob's Point	0	0	0	25	37	48	47	46	0	0	0	0	203
2014													
Jacob's Point	0	0	0	0	670	699	131	211	59	0	0	0	1,770
2013													
Jacob's Point	0	0	0	1,003	1,850	1,668	1,769	1,121	59	0	0	0	7,470

Volume in Acre-feet

Table 4
Cropping History

Year	Alfalfa	Barley	Beans	Cotton	Corn	Market Veg	Melons	Milo	Oats	Walnuts	Persimmons	Pasture	Rice	Safflowers	Sunflowers	Tomatoes	Vine Seeds	Wheat	TOTAL IRRIGATED ACRES
2019	1,373	0	372	77	69	0	410	0	0	2,771	2	163	30,123	404	2,698	3,637	1,279	1,537	44,915
2018	1,462	0	125	55	257	0	27	0	0	3,041	2	163	30,393	70	3,372	4,039	1,002	1,258	45,266
2017	1,040	550	0	69	679	83	427	26	0	3,261	2	163	28,649	539	3,140	4,071	1,391	1,561	45,651
2016	1,470	0	242	0	123	0	305	0	0	2,504	2	163	30,167	816	2,023	3,790	1,398	757	43,760
2015	1,775	0	174	0	369	0	266	36	211	2,373	2	163	22,299	978	1,781	4,293	1,047	2,190	37,957
2014	1,900	46	107	0	334	0	602	0	0	1,820	2	163	25,470	1,295	2,259	3,402	966	2,376	40,741

Amounts in Acres

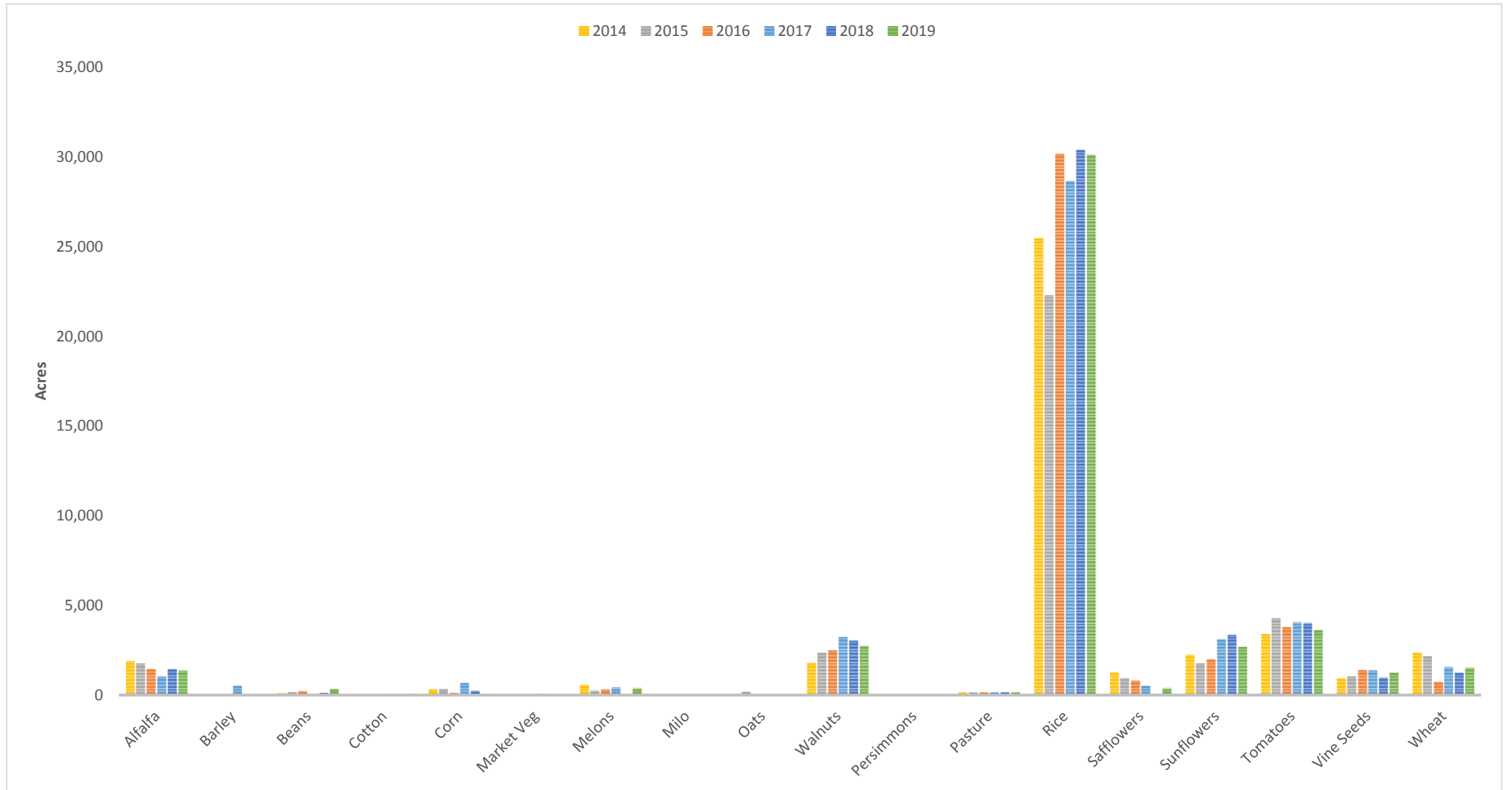


Table 5

Average Water Application Rate

Crop Water Use Summary

Year	Alfalfa	Beans	Corn	Cotton	Decomp	Grain	Melons	Orchard (Mature)	Orchard (Young)	One Time Flood	Pasture	Rice	Safflower	Sunflower	Tomatoes	Vine Seed
2018	4.49	4.97	4.15	2.25	1.6	N/A	1.04	2.23	N/A	1.4	2.92	6.07	N/A	0.74	2.56	2.57
2017	4.38	2.29	2.39	0.7	1.67	N/A	1.25	1.68	0.89	1.4	2.21	5.99	N/A	1	1.9	1.74
2016	4.24	2.25	N/A	N/A	1.94	0.67	2.4	1.71	1.02	1.29	2.48	6.01	0.39	0.79	1.89	1.85

Amounts in Acre-feet per Acre

