
BAKERSFIELD
1999
Kern River

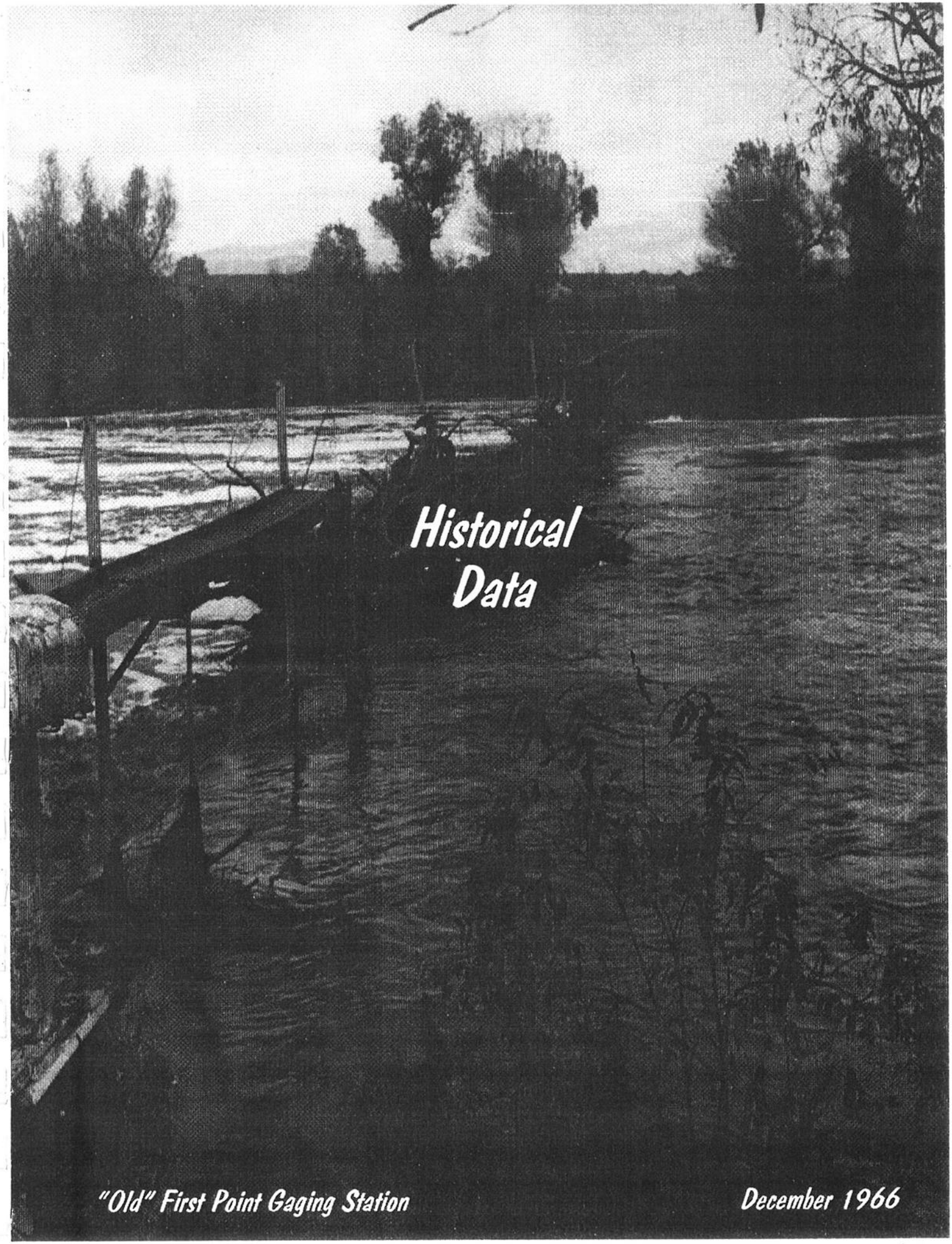


Kern River at Democrat Dam

1999
HYDROGRAPHIC ANNUAL REPORT

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Historical
Data
"Old" First Point Gaging Station
December 1966

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
		Measurements and Estimates were not made prior to September 29, 1893...															
1893	acre-feet										32,864	30,827	31,757	--	--	--	--
	mean s.f.d.										534	518	516	--	--	--	--
1894	acre-feet	40,647	39,816	61,548	88,974	98,801	64,564	43,061	20,565	14,759	17,179	14,501	28,911	533,326	--	--	--
	mean s.f.d.	661	717	1,001	1,495	1,607	1,085	700	334	248	279	244	470	--	2,208	172	737
1895	acre-feet	49,769	69,521	84,456	162,071	268,635	172,890	91,133	38,672	20,452	20,091	20,604	24,758	1,023,052	--	--	--
	mean s.f.d.	809	1,252	1,374	2,724	4,369	2,906	1,482	629	344	327	346	403	--	5,583	276	1,413
1896	acre-feet	45,951	35,510	58,494	57,864	86,174	146,124	82,760	29,885	18,061	16,401	21,108	21,360	619,692	--	--	--
	mean s.f.d.	747	617	951	972	1,401	2,456	1,346	486	304	267	355	347	--	3,611	223	854
1897	acre-feet	22,949	44,941	56,756	173,393	281,639	137,393	61,837	28,842	17,728	20,888	21,146	25,922	893,434	--	--	--
	mean s.f.d.	373	809	923	2,914	4,580	2,309	1,006	469	298	340	355	422	--	5,342	260	1,234
1898	acre-feet	22,332	24,105	23,882	42,248	45,213	32,809	15,033	7,390	6,885	9,830	9,884	12,216	251,827	--	--	--
	mean s.f.d.	363	434	388	710	735	551	244	120	116	160	166	199	--	1,342	80	348
1899	acre-feet	16,185	16,754	36,279	53,133	51,353	79,178	30,046	9,600	6,248	9,852	13,180	17,064	338,872	--	--	--
	mean s.f.d.	263	302	590	893	835	1,331	489	156	105	160	221	278	--	4,932	86	468
1900	acre-feet	22,266	15,562	25,384	28,102	68,295	76,366	24,125	8,860	9,903	9,808	20,787	22,915	332,373	--	--	--
	mean s.f.d.	362	280	413	472	1,111	1,283	392	144	166	160	349	373	--	1,969	101	459
1901	acre-feet	30,337	47,760	78,109	83,190	186,446	197,792	114,613	59,536	20,535	19,468	22,429	19,874	880,089	--	--	--
	mean s.f.d.	493	860	1,270	1,398	3,032	3,324	1,864	968	345	317	377	323	--	4,419	226	1,216
1902	acre-feet	17,407	20,582	48,546	107,403	109,904	128,853	43,436	19,172	11,695	12,242	16,739	16,560	552,539	--	--	--
	mean s.f.d.	283	371	790	1,805	1,787	2,165	706	312	197	199	281	269	--	3,758	160	763
1903	acre-feet	21,531	25,192	35,575	74,315	132,097	139,222	53,355	18,623	11,357	10,681	12,107	12,340	546,395	--	--	--
	mean s.f.d.	350	454	579	1,249	2,148	2,340	868	303	191	174	203	201	--	3,374	150	755
1904	acre-feet	11,982	19,902	40,996	59,812	113,205	103,904	39,725	28,733	15,901	26,955	17,006	14,828	492,949	--	--	--
	mean s.f.d.	195	346	667	1,005	1,841	1,746	646	467	267	438	286	241	--	3,167	156	679
1905	acre-feet	17,258	22,001	50,598	62,047	117,748	132,766	53,835	20,134	12,563	12,744	14,041	16,074	531,809	--	--	--
	mean s.f.d.	281	396	823	1,043	1,915	2,231	876	327	211	207	236	261	--	3,247	165	735
1906	acre-feet	42,623	34,750	126,844	173,143	360,234	458,418	399,841	141,384	57,925	37,464	29,931	37,983	1,900,540	--	--	--
	mean s.f.d.	693	626	2,063	2,910	5,859	7,704	6,503	2,299	973	609	503	618	--	9,684	222	2,625
1907	acre-feet	41,697	56,834	83,272	197,720	199,950	183,995	97,083	41,940	24,623	22,428	19,747	21,611	990,900	--	--	--
	mean s.f.d.	678	1,023	1,354	3,323	3,252	3,092	1,579	682	414	365	332	351	--	--	--	1,369
1908	acre-feet	27,878	32,481	65,079	79,320	79,418	60,305	41,851	32,378	21,763	21,487	18,206	18,337	498,503	--	--	--
	mean s.f.d.	453	565	1,058	1,333	1,292	1,013	681	527	366	349	306	298	--	--	--	687
1909	acre-feet	118,441	125,050	128,649	247,402	382,617	394,086	194,870	66,224	43,448	31,214	34,350	72,292	1,838,643	--	--	--
	mean s.f.d.	1,926	2,252	2,092	4,158	6,223	6,623	3,169	1,077	730	508	577	1,176	--	11,870	295	2,540
1910	acre-feet	73,523	48,904	85,085	102,883	127,733	79,464	42,046	24,216	17,201	18,976	18,881	19,999	658,911	--	--	--
	mean s.f.d.	1,196	881	1,384	1,729	2,077	1,335	684	394	289	309	317	325	--	4,847	222	910

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
1911	acre-feet	38,241	53,944	80,166	138,113	184,481	222,076	156,498	45,880	25,222	25,422	21,691	21,650	1,013,384	–	–	–
	mean s.f.d.	622	971	1,304	2,321	3,000	3,732	2,545	746	424	413	365	352	–	5,383	273	1,400
1912	acre-feet	23,320	21,302	28,090	37,246	80,471	100,925	33,170	16,653	10,899	11,780	11,772	11,804	387,432	–	–	–
	mean s.f.d.	379	370	457	626	1,309	1,696	539	271	183	192	198	192	–	3,220	147	534
1913	acre-feet	13,019	15,731	25,191	42,494	73,561	60,738	34,929	31,454	25,357	13,402	15,368	16,596	367,840	–	–	–
	mean s.f.d.	212	283	410	714	1,196	1,021	568	512	426	218	258	270	–	1,976	126	508
1914	acre-feet	116,541	62,575	102,739	144,934	210,676	201,064	128,338	55,127	25,240	24,462	20,390	21,427	1,113,513	–	–	–
	mean s.f.d.	1,895	1,127	1,671	2,436	3,426	3,379	2,087	897	424	398	343	348	–	18,287	285	1,538
1915	acre-feet	22,500	30,254	48,536	80,916	124,506	172,324	77,496	24,668	16,457	14,452	14,858	19,320	646,287	–	–	–
	mean s.f.d.	366	545	789	1,360	2,025	2,896	1,260	401	277	235	250	314	–	4,249	203	891
1916	acre-feet	172,346	202,510	378,116	481,749	472,994	391,700	225,154	56,755	33,808	41,774	30,879	32,364	2,520,149	–	–	–
	mean s.f.d.	2,803	3,521	6,149	8,096	7,693	6,583	3,662	923	568	679	519	526	–	17,962	274	3,481
1917	acre-feet	40,128	44,894	65,242	126,329	165,062	187,638	81,275	36,990	19,696	17,970	18,488	19,370	823,082	–	–	–
	mean s.f.d.	653	808	1,061	2,123	2,684	3,153	1,322	602	331	292	311	315	–	4,331	267	1,137
1918	acre-feet	18,918	18,559	48,087	74,513	78,722	136,753	44,828	20,807	17,562	32,555	22,160	25,039	538,503	–	–	–
	mean s.f.d.	308	334	782	1,252	1,280	2,298	729	338	295	529	372	407	–	3,478	227	744
1919	acre-feet	21,098	23,002	37,973	86,574	140,215	81,844	34,364	16,288	11,722	13,835	13,884	18,325	499,124	–	–	–
	mean s.f.d.	343	414	618	1,455	2,280	1,375	559	265	197	225	233	298	–	4,299	156	689
1920	acre-feet	17,220	18,044	40,397	83,370	158,904	137,840	50,699	22,431	14,949	16,596	19,490	20,703	600,643	–	–	–
	mean s.f.d.	280	314	657	1,401	2,584	2,316	825	365	251	270	328	337	–	4,456	196	827
1921	acre-feet	23,520	30,791	55,402	51,723	100,096	120,387	49,119	18,073	12,595	13,180	12,960	21,673	509,519	–	–	–
	mean s.f.d.	383	554	901	869	1,628	2,023	799	294	212	214	218	352	–	3,548	110	704
1922	acre-feet	30,682	33,846	52,468	84,407	242,259	202,395	88,649	37,061	23,772	17,770	19,835	28,282	861,426	–	–	–
	mean s.f.d.	499	609	853	1,419	3,940	3,401	1,442	603	400	289	333	460	–	5,300	196	1,190
1923	acre-feet	26,863	25,720	31,372	73,355	120,849	82,528	55,800	22,322	18,054	15,495	14,348	13,809	500,515	–	–	–
	mean s.f.d.	437	463	510	1,233	1,965	1,387	908	363	303	252	241	225	–	3,275	179	691
1924	acre-feet	13,676	13,702	15,953	28,540	41,722	14,069	8,225	5,881	5,494	7,642	14,196	18,627	187,727	–	–	–
	mean s.f.d.	222	238	259	480	679	236	134	96	92	124	239	303	–	1,073	74	259
1925	acre-feet	17,992	26,333	31,299	56,408	102,016	96,252	58,437	25,938	11,405	12,906	12,305	14,622	465,913	–	–	–
	mean s.f.d.	293	474	509	948	1,659	1,618	950	422	192	210	207	238	–	2,819	148	635
1926	acre-feet	12,022	15,667	24,739	66,079	98,598	49,530	18,575	9,522	7,029	8,358	28,493	28,094	366,706	–	–	–
	mean s.f.d.	196	282	402	1,110	1,604	832	302	155	118	136	479	457	–	6,511	74	507
1927	acre-feet	20,485	75,279	73,083	100,362	184,721	161,153	75,481	26,817	14,842	14,037	27,180	19,140	792,580	–	–	–
	mean s.f.d.	333	1,355	1,189	1,687	3,004	2,708	1,228	436	249	228	457	311	–	6,571	188	1,095
1928	acre-feet	18,452	17,818	32,668	37,757	76,885	60,344	18,716	9,189	6,583	8,732	11,974	13,710	312,828	–	–	–
	mean s.f.d.	300	310	531	635	1,250	1,014	304	149	111	142	201	223	–	2,058	101	431
1929	acre-feet	13,864	14,654	25,176	39,064	85,995	63,487	30,986	12,797	9,146	8,793	9,035	9,961	322,958	–	–	–
	mean s.f.d.	225	264	409	656	1,399	1,067	504	208	154	143	152	162	–	2,003	119	446
1930	acre-feet	12,234	20,099	34,550	53,506	67,851	82,824	28,401	11,819	7,743	9,314	11,042	10,590	349,973	–	–	–
	mean s.f.d.	199	362	562	899	1,103	1,392	462	192	130	151	186	172	–	2,423	118	483

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
1931	acre-feet	12,284	13,785	15,784	23,440	41,867	24,262	8,493	6,302	6,860	6,817	8,241	17,510	185,645	--	--	--
	mean s.f.d.	200	248	257	394	681	408	138	102	115	111	138	285	--	2,261	71	256
1932	acre-feet	22,235	39,596	68,647	111,273	154,742	166,404	94,013	28,243	13,593	13,942	12,077	12,962	737,727	--	--	--
	mean s.f.d.	362	688	1,116	1,870	2,517	2,797	1,529	459	228	227	203	211	--	3,726	180	1,016
1933	acre-feet	17,175	21,021	36,244	57,265	60,026	125,395	56,898	18,692	10,062	10,893	10,776	16,639	441,086	--	--	--
	mean s.f.d.	279	379	589	962	976	2,107	925	304	169	177	181	271	--	3,769	144	609
1934	acre-feet	20,033	16,842	27,429	39,919	43,065	21,820	11,341	6,948	7,043	8,196	11,272	13,757	227,665	--	--	--
	mean s.f.d.	326	303	446	671	700	367	184	113	118	133	189	224	--	914	82	314
1935	acre-feet	14,840	18,500	24,841	71,042	103,787	133,634	42,184	17,193	11,363	11,962	11,905	12,877	474,128	--	--	--
	mean s.f.d.	241	333	404	1,194	1,688	2,246	686	280	191	195	200	209	--	3,378	164	655
1936	acre-feet	14,737	46,808	57,374	157,290	219,404	137,028	67,902	32,987	14,372	15,423	15,828	17,294	796,447	--	--	--
	mean s.f.d.	240	814	933	2,643	3,568	2,303	1,104	536	242	251	266	281	--	4,173	194	1,097
1937	acre-feet	21,745	139,109	111,443	183,505	352,050	225,395	91,097	32,186	17,780	17,173	16,379	52,320	1,260,182	--	--	--
	mean s.f.d.	354	2,505	1,812	3,084	5,726	3,788	1,482	523	299	279	275	851	--	20,000	223	1,741
1938	acre-feet	31,265	42,456	162,121	223,928	315,044	291,880	130,917	54,155	28,693	27,475	24,748	26,003	1,358,685	--	--	--
	mean s.f.d.	508	764	2,637	3,763	5,124	4,905	2,129	881	482	447	416	423	--	14,582	356	1,877
1939	acre-feet	28,558	33,273	54,119	92,136	92,253	58,400	25,480	18,774	13,712	16,826	13,692	13,850	461,073	--	--	--
	mean s.f.d.	464	599	880	1,548	1,500	981	414	305	230	274	230	225	--	2,028	178	637
1940	acre-feet	45,082	65,032	77,810	118,175	196,465	145,503	50,471	18,926	13,234	14,670	16,007	27,723	789,098	--	--	--
	mean s.f.d.	733	1,131	1,265	1,986	3,195	2,445	821	308	222	239	269	451	--	5,454	167	1,087
1941	acre-feet	39,540	73,589	109,735	124,615	386,666	309,960	174,416	62,537	27,997	26,325	27,661	38,035	1,401,076	--	--	--
	mean s.f.d.	643	1,325	1,785	2,094	6,289	5,209	2,837	1,017	471	428	465	619	--	8,523	337	1,935
1942	acre-feet	49,438	40,834	58,487	112,586	150,036	178,754	81,529	30,284	16,500	14,648	16,130	22,740	771,966	--	--	--
	mean s.f.d.	804	735	951	1,892	2,440	3,004	1,326	493	277	238	271	370	--	4,060	141	1,066
1943	acre-feet	92,551	56,820	261,344	198,736	254,785	155,650	88,011	34,435	17,857	17,849	18,565	24,224	1,220,827	--	--	--
	mean s.f.d.	1,505	1,023	4,250	3,340	4,144	2,616	1,431	560	300	290	312	394	--	21,701	252	1,686
1944	acre-feet	27,473	32,781	69,836	80,223	150,109	115,862	59,197	20,305	12,843	12,952	21,521	22,435	625,537	--	--	--
	mean s.f.d.	447	570	1,136	1,348	2,441	1,947	963	330	216	211	362	365	--	3,071	191	862
1945	acre-feet	20,783	70,522	63,925	131,246	205,509	169,002	91,593	41,632	21,548	41,268	36,845	44,182	938,055	--	--	--
	mean s.f.d.	338	1,270	1,040	2,206	3,342	2,840	1,490	677	362	671	619	719	--	9,370	155	1,296
1946	acre-feet	45,481	34,854	60,958	109,658	155,476	85,880	39,733	20,091	13,261	16,141	31,365	37,785	650,683	--	--	--
	mean s.f.d.	740	628	991	1,843	2,529	1,443	646	327	223	263	527	615	--	3,814	192	899
1947	acre-feet	31,146	28,167	36,319	60,353	110,325	57,778	21,116	12,313	9,140	12,607	13,492	13,942	406,698	--	--	--
	mean s.f.d.	507	507	591	1,014	1,794	971	343	200	154	205	227	227	--	2,584	135	562
1948	acre-feet	13,486	13,267	16,233	43,976	86,108	78,565	31,331	9,927	6,899	8,908	9,586	11,220	329,506	--	--	--
	mean s.f.d.	219	231	264	739	1,400	1,320	510	161	116	145	161	182	--	2,206	97	454
1949	acre-feet	11,982	12,992	21,136	50,517	84,508	57,685	17,201	8,682	6,541	7,704	11,131	12,791	302,870	--	--	--
	mean s.f.d.	195	234	344	849	1,374	969	280	141	110	125	187	208	--	2,128	69	418
1950	acre-feet	17,119	39,761	37,087	76,155	98,483	90,367	34,901	12,179	10,393	9,955	96,968	77,992	601,360	--	--	--
	mean s.f.d.	278	716	603	1,280	1,602	1,519	568	198	175	162	1,630	1,268	--	37,000	128	831

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
1951	acre-feet	32,975	30,018	35,101	48,914	85,039	88,990	38,941	12,966	7,793	9,364	11,958	40,163	442,222	--	--	--
	mean s.f.d.	536	541	571	822	1,383	1,496	633	211	131	152	201	653	--	8,341	69	611
1952	acre-feet	60,367	53,673	84,726	222,633	434,769	302,557	159,856	68,200	30,670	23,417	24,871	35,260	1,500,999	--	--	--
	mean s.f.d.	982	933	1,378	3,741	7,071	5,085	2,600	1,109	515	381	418	573	--	8,530	254	2,073
1953	acre-feet	60,760	40,498	38,709	70,730	86,019	103,164	69,657	21,503	12,730	13,125	15,023	16,915	548,833	--	--	--
	mean s.f.d.	988	729	630	1,189	1,399	1,734	1,133	350	214	213	252	275	--	3,798	119	758
1954	acre-feet	22,019	30,361	44,575	101,203	139,719	73,553	39,642	19,198	12,571	12,351	15,328	17,837	528,357	--	--	--
	mean s.f.d.	358	547	725	1,701	2,272	1,236	645	312	211	201	258	290	--	2,948	150	729
1955	acre-feet	20,438	24,625	29,734	37,567	69,544	86,660	31,014	19,293	9,840	10,100	12,526	92,959	444,300	--	--	--
	mean s.f.d.	332	443	484	631	1,131	1,456	504	314	165	164	211	1,512	--	12,711	101	614
1956	acre-feet	82,943	49,993	62,767	97,553	159,683	168,876	99,529	41,141	21,370	23,397	17,042	16,568	840,862	--	--	--
	mean s.f.d.	1,349	869	1,021	1,639	2,597	2,838	1,619	669	359	381	286	269	--	5,167	207	1,158
1957	acre-feet	18,535	26,178	31,357	38,644	79,355	132,359	41,988	17,518	12,111	13,648	14,013	18,632	444,338	--	--	--
	mean s.f.d.	301	471	510	649	1,291	2,224	683	285	204	222	235	303	--	3,411	147	614
1958	acre-feet	22,088	39,453	68,140	168,105	316,974	230,866	115,724	56,190	27,515	20,815	19,835	19,025	1,104,730	--	--	--
	mean s.f.d.	359	710	1,108	2,825	5,155	3,880	1,882	914	462	339	333	309	--	6,592	236	1,526
1959	acre-feet	20,592	22,258	33,274	40,566	39,945	32,061	18,013	10,094	9,852	9,689	10,419	11,215	257,978	--	--	--
	mean s.f.d.	335	401	541	682	650	539	293	164	166	158	175	182	--	944	104	356
1960	acre-feet	13,363	30,682	31,908	46,272	58,336	47,181	16,683	9,638	8,678	10,187	14,183	12,926	300,037	--	--	--
	mean s.f.d.	217	533	519	778	949	793	271	157	146	166	238	210	--	1,690	99	413
1961	acre-feet	11,466	10,905	14,221	24,137	29,980	24,305	8,952	16,018	8,463	7,353	9,554	12,288	177,642	--	--	--
	mean s.f.d.	186	196	231	406	488	408	146	261	142	120	161	200	--	626	99	245
1962	acre-feet	13,507	53,411	37,660	147,463	135,884	157,253	74,874	25,416	13,849	14,051	12,407	11,929	697,704	--	--	--
	mean s.f.d.	220	962	612	2,478	2,210	2,643	1,218	413	233	229	209	194	--	3,604	144	964
1963	acre-feet	27,793	101,595	42,994	69,412	137,839	163,944	105,384	47,008	28,883	27,291	25,837	23,470	801,450	--	--	--
	mean s.f.d.	452	1,829	699	1,167	2,242	2,755	1,714	765	485	444	434	382	--	15,584	160	1,107
1964	acre-feet	19,943	17,119	25,146	42,946	61,521	54,658	23,803	14,097	9,025	9,150	14,939	46,919	339,266	--	--	--
	mean s.f.d.	324	298	409	722	1,001	919	387	229	152	149	251	763	--	4,693	120	467
1965	acre-feet	46,768	31,702	36,359	80,043	131,980	149,357	95,288	49,105	22,036	17,631	29,542	30,551	720,362	--	--	--
	mean s.f.d.	761	571	591	1,345	2,146	2,510	1,550	799	370	287	496	497	--	3,322	226	995
1966	acre-feet	29,272	22,439	39,108	68,779	82,336	45,431	23,347	18,141	9,608	10,822	15,501	313,811	678,595	--	--	--
	mean s.f.d.	476	404	636	1,156	1,339	763	380	295	161	176	261	5,104	--	80,029	112	937
1967	acre-feet	63,580	65,831	86,200	99,509	269,631	311,063	243,802	94,834	55,255	36,230	34,546	35,746	1,396,227	--	--	--
	mean s.f.d.	1,034	1,185	1,402	1,672	4,385	5,228	3,965	1,542	929	589	581	581	--	7,223	419	1,928
1968	acre-feet	34,052	40,354	48,803	65,584	87,991	64,054	30,690	20,600	11,466	13,599	16,982	19,585	453,760	--	--	--
	mean s.f.d.	554	702	794	1,102	1,431	1,076	499	335	193	221	285	319	--	1,923	155	625
1969	acre-feet	178,493	111,342	157,595	378,333	617,968	496,796	254,777	111,100	49,936	36,036	34,862	34,132	2,461,370	--	--	--
	mean s.f.d.	2,903	2,005	2,563	6,358	10,050	8,349	4,144	1,807	839	586	586	555	--	24,216	344	3,400
1970	acre-feet	66,480	41,419	59,917	63,513	110,057	95,700	50,138	24,224	14,392	13,301	21,519	28,814	589,474	--	--	--
	mean s.f.d.	1,081	746	974	1,067	1,790	1,608	815	394	242	216	362	469	--	6,298	171	814

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
1971	acre-feet	34,143	30,960	41,913	52,661	66,635	82,707	42,472	19,841	11,371	11,540	14,102	19,109	427,454	--	--	--
	mean s.f.d.	555	557	682	885	1,084	1,390	691	323	191	188	237	311	--	1,895	125	590
1972	acre-feet	19,864	18,827	33,213	28,288	45,965	38,531	14,936	10,927	11,334	11,431	14,703	20,408	268,427	--	--	--
	mean s.f.d.	323	327	540	475	748	648	243	178	190	186	247	332	--	951	111	370
1973	acre-feet	33,628	36,395	52,778	110,892	288,652	230,390	93,834	41,028	23,030	18,895	22,342	27,788	979,652	--	--	--
	mean s.f.d.	547	655	858	1,864	4,694	3,872	1,526	667	387	307	375	452	--	5,886	220	1,353
1974	acre-feet	50,337	29,873	74,247	114,113	183,733	167,740	69,580	39,991	23,532	21,953	19,904	23,603	818,606	--	--	--
	mean s.f.d.	819	538	1,208	1,918	2,988	2,819	1,132	650	395	357	334	384	--	4,141	220	1,130
1975	acre-feet	21,521	26,725	42,815	46,602	147,001	140,660	51,917	22,625	17,133	16,209	15,049	16,310	564,567	--	--	--
	mean s.f.d.	350	481	696	783	2,391	2,364	844	368	288	264	253	265	--	3,783	164	780
1976	acre-feet	16,308	16,994	23,074	25,924	47,151	20,930	14,749	14,573	25,097	20,523	12,954	11,191	249,468	--	--	--
	mean s.f.d.	265	295	375	436	767	352	240	237	422	334	218	182	--	1,188	142	344
1977	acre-feet	13,456	13,704	14,765	23,391	25,630	35,655	10,973	10,979	7,815	8,146	8,456	24,028	196,998	--	--	--
	mean s.f.d.	219	247	240	393	417	599	178	179	131	132	142	391	--	2,049	57	272
1978	acre-feet	46,596	116,432	175,484	181,700	363,157	354,825	194,693	74,001	61,696	29,562	26,874	28,485	1,653,505	--	--	--
	mean s.f.d.	758	2,096	2,854	3,054	5,906	5,963	3,166	1,204	1,037	481	452	463	--	10,901	350	2,284
1979	acre-feet	34,062	41,825	72,299	102,079	164,935	106,112	46,733	27,243	19,583	19,781	18,779	19,230	672,661	--	--	--
	mean s.f.d.	554	753	1,176	1,715	2,682	1,783	760	443	329	322	316	313	--	3,540	229	929
1980	acre-feet	145,545	168,887	139,620	211,608	287,825	282,877	208,715	78,143	35,068	26,955	25,006	29,708	1,639,957	--	--	--
	mean s.f.d.	2,367	2,936	2,271	3,556	4,681	4,754	3,394	1,271	589	438	420	483	--	14,171	261	2,259
1981	acre-feet	28,709	34,762	45,608	69,320	91,914	65,817	25,630	17,389	13,222	14,781	18,922	23,189	449,263	--	--	--
	mean s.f.d.	467	626	742	1,165	1,495	1,106	417	283	222	240	318	377	--	2,211	157	621
1982	acre-feet	37,682	52,996	78,724	212,963	254,985	198,748	130,098	61,956	61,716	46,306	57,116	77,849	1,271,139	--	--	--
	mean s.f.d.	613	954	1,280	3,579	4,147	3,340	2,116	1,008	1,037	753	960	1,266	--	9,075	389	1,756
1983	acre-feet	87,905	138,514	265,543	206,473	478,625	571,846	288,866	154,935	68,503	53,300	71,599	103,019	2,489,128	--	--	--
	mean s.f.d.	1,430	2,494	4,319	3,470	7,784	9,610	4,698	2,520	1,151	867	1,203	1,675	--	14,038	602	3,438
1984	acre-feet	76,054	60,926	82,738	91,359	161,613	93,114	77,046	49,698	28,306	26,428	35,020	39,495	821,797	--	--	--
	mean s.f.d.	1,237	1,059	1,346	1,535	2,628	1,565	1,253	808	476	430	589	642	--	3,305	288	1,132
1985	acre-feet	40,423	40,610	53,371	136,241	146,799	99,858	41,395	23,956	17,024	16,495	22,314	33,945	672,431	--	--	--
	mean s.f.d.	657	731	868	2,290	2,387	1,678	673	390	286	268	375	552	--	3,353	208	929
1986	acre-feet	42,668	149,966	204,775	208,147	293,335	263,794	121,398	57,160	26,567	28,330	25,341	23,458	1,444,939	--	--	--
	mean s.f.d.	694	2,700	3,330	3,498	4,771	4,433	1,974	930	446	461	426	382	--	8,296	313	1,996
1987	acre-feet	25,595	29,504	41,566	55,236	75,108	56,146	24,918	14,735	10,683	11,484	14,745	16,215	375,935	--	--	--
	mean s.f.d.	416	531	676	928	1,222	944	405	240	180	187	248	264	--	1,817	145	519
1988	acre-feet	22,677	19,815	30,210	39,584	58,350	43,140	20,969	13,454	10,733	9,283	10,955	15,515	294,685	--	--	--
	mean s.f.d.	369	344	491	665	949	725	341	219	180	151	184	252	--	1,418	118	406
1989	acre-feet	15,947	23,528	67,430	91,380	71,849	49,823	21,378	13,010	10,213	10,824	10,707	10,949	397,038	--	--	--
	mean s.f.d.	259	424	1,097	1,536	1,169	837	348	212	172	176	180	178	--	2,068	123	548
1990	acre-feet	12,916	13,127	23,048	32,019	38,600	29,345	13,380	8,386	6,428	8,834	8,340	9,148	203,571	--	--	--
	mean s.f.d.	210	236	375	538	628	493	218	136	108	144	140	149	--	845	78	281

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
1991	acre-feet	10,931	9,215	47,341	58,092	79,763	100,423	38,265	14,854	11,040	9,358	13,940	13,067	406,289	--	--	--
	mean s.f.d.	178	166	770	976	1,297	1,688	622	242	186	152	234	213	--	5,025	109	561
1992	acre-feet	14,069	22,314	26,410	55,448	74,394	32,987	16,324	11,942	7,896	9,414	11,054	14,577	296,829	--	--	--
	mean s.f.d.	229	388	430	932	1,210	554	265	194	133	153	186	237	--	1,584	104	409
1993	acre-feet	39,221	39,564	94,231	133,993	200,864	162,420	87,414	32,763	16,506	14,223	14,398	18,163	853,760	--	--	--
	mean s.f.d.	638	712	1,533	2,252	3,267	2,730	1,422	533	277	231	242	295	--	3,957	203	1,179
1994	acre-feet	18,936	23,946	38,592	46,489	67,224	56,223	21,068	11,939	8,981	14,771	12,780	15,507	336,456	--	--	--
	mean s.f.d.	308	431	628	781	1,093	945	343	194	151	240	215	252	--	1,686	121	465
1995	acre-feet	46,832	48,774	156,387	143,244	255,046	293,129	237,802	89,657	39,108	24,093	22,268	28,820	1,385,160	--	--	--
	mean s.f.d.	762	878	2,543	2,407	4,148	4,926	3,867	1,458	657	392	374	469	--	8,420	240	1,913
1996	acre-feet	40,304	98,549	108,042	147,959	225,987	154,883	70,502	32,255	16,651	15,788	40,903	86,438	1,038,261	--	--	--
	mean s.f.d.	655	1,713	1,757	2,487	3,675	2,603	1,147	525	280	257	687	1,406	--	9,024	222	1,430
1997	acre-feet	246,022	104,771	120,448	142,909	214,290	142,358	71,919	38,047	26,039	20,926	23,708	30,532	1,181,969	--	--	--
	mean s.f.d.	4,001	1,887	1,959	2,402	3,485	2,392	1,170	619	438	340	398	497	--	19,794	284	1,633
1998	acre-feet	45,927	136,340	151,329	189,663	308,440	371,835	267,435	94,510	50,959	35,008	33,302	33,219	1,717,967	--	--	--
	mean s.f.d.	747	2,455	2,461	3,187	5,016	6,249	4,349	1,537	856	569	560	540	--	8,477	436	2,373
1999	acre-feet	37,722	38,388	38,495	55,843	95,199	68,733	32,852	17,133	12,547	11,714	12,288	13,057	433,971	--	--	--
	mean s.f.d.	613	691	626	938	1,548	1,155	534	279	211	191	207	212	--	2,077	174	599

KERN RIVER AT FIRST POINT OF MEASUREMENT
HISTORICAL MONTHLY NATURAL FLOWS

YEAR: 1999

October 1893 to Date...

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Monthly Flow (acre-feet)	37,965	44,476	66,457	100,679	157,815	141,388	74,009	31,914	18,709	17,651	19,988	28,046	739,097
Mean Monthly Flow (second foot days)	617	794	1,081	1,692	2,567	2,376	1,204	519	314	287	336	456	1,020
Maximum Monthly Flow (acre-feet)	246,022	202,510	378,116	481,749	617,968	571,846	399,841	154,935	68,503	53,300	96,968	313,811	
Year of Occurrence	*1997*	*1916*	*1916*	*1916*	*1969*	*1983*	*1906*	*1983*	*1983*	*1983*	*1950*	*1966*	
Minimum Monthly Flow (acre-feet)	10,931	9,215	14,221	23,391	25,630	14,069	8,225	5,881	5,494	6,817	8,241	9,148	
Year of Occurrence	*1991*	*1991*	*1961*	*1977*	*1977*	*1924*	*1924*	*1924*	*1924*	*1931*	*1931*	*1990*	
Number Months of Record	106	106	106	106	106	106	106	106	106	107	107	107	
Cumulative Monthly Flow (All Months - acre-feet)	4,024,284	4,714,485	7,044,461	10,672,023	16,728,393	14,987,101	7,844,977	3,382,831	1,983,137	1,888,693	2,138,767	3,000,955	
Median Monthly Flow (acre-feet)	23,816	31,198	47,954	76,776	121,279	114,448	50,249	22,255	14,214	14,656	16,126	19,644	552,615
Median Monthly Flow (second foot days)	387	557	780	1,290	1,972	1,923	817	362	239	238	271	319	763

MEAN APRIL - JULY RUNOFF TO DATE = 473,891 AcFt
MEDIAN APRIL - JULY RUNOFF TO DATE = 362,752 AcFt

MEAN MARCH - OCTOBER RUNOFF TO DATE = 608,622 AcFt
MEDIAN MARCH - OCTOBER RUNOFF TO DATE = 461,831 AcFt

KERN RIVER APRIL-JULY RUNOFF
FIRST POINT OF MEASUREMENT
1894 TO DATE

In order of Magnitude

Quantities in acre-feet

YEAR	APR	MAY	JUN	JUL	TOTAL	% OF AVERAGE
1961	24,137	29,980	24,305	8,952	87,374	18%
1924	28,540	41,722	14,069	8,225	92,556	20%
1977	23,391	25,630	35,655	10,973	95,649	20%
1931	23,440	41,867	24,262	8,493	98,062	21%
1976	25,924	47,151	20,930	14,749	108,754	23%
1990	32,019	38,600	29,345	13,380	113,344	24%
1934	39,919	43,065	21,820	11,341	116,145	25%
1972	28,288	45,965	38,531	14,936	127,720	27%
1959	40,566	39,945	32,061	18,013	130,585	28%
1898	42,248	45,213	32,809	15,033	135,303	29%
1988	39,584	58,350	43,140	20,969	162,043	34%
1960	46,272	58,336	47,181	16,683	168,472	36%
1992	55,448	74,394	32,987	16,324	179,153	38%
1964	42,946	61,521	54,658	23,803	182,928	39%
1994	46,489	67,224	56,223	21,068	191,004	40%
1928	37,757	76,885	60,344	18,716	193,702	41%
1900	28,102	68,295	76,366	24,125	196,888	42%
1949	50,517	84,508	57,685	17,201	209,911	44%
1987	55,236	75,108	56,146	24,918	211,408	45%
1913	42,494	73,561	60,738	34,929	211,722	45%
1899	53,133	51,353	79,178	30,046	213,710	45%
1929	39,064	85,995	63,487	30,986	219,532	46%
1966	68,779	82,336	45,431	23,347	219,893	46%
1955	37,567	69,544	86,660	31,014	224,785	47%
1930	53,506	67,851	82,824	28,401	232,582	49%
1926	66,079	98,598	49,530	18,575	232,782	49%
1989	91,380	71,849	49,823	21,378	234,430	49%
1948	43,976	86,108	78,565	31,331	239,980	51%
1971	52,661	66,635	82,707	42,472	244,475	52%
1968	65,584	87,991	64,054	30,690	248,319	52%
1947	60,353	110,325	57,778	21,116	249,572	53%
1912	37,246	80,471	100,925	33,170	251,812	53%
1999	55,843	95,199	68,733	32,852	252,627	53%
1981	69,320	91,914	65,817	25,630	252,681	53%
1908	79,320	79,418	60,305	41,851	260,894	55%
1951	48,914	85,039	88,990	38,941	261,884	55%
1939	92,136	92,253	58,400	25,480	268,269	57%
1991	58,092	79,763	100,423	38,265	276,543	58%
1957	38,644	79,355	132,359	41,988	292,346	62%
1894	88,974	98,801	64,564	43,061	295,400	62%
1933	57,265	60,026	125,395	56,898	299,584	63%
1950	76,155	98,483	90,367	34,901	299,906	63%
1925	56,408	102,016	96,252	58,437	313,113	66%
1904	59,812	113,205	103,904	39,725	316,646	67%
1970	63,513	110,057	95,700	50,138	319,408	67%
1921	51,723	100,096	120,387	49,119	321,325	68%
1953	70,730	86,019	103,164	69,657	329,570	70%
1923	73,355	120,849	82,528	55,800	332,532	70%
1918	74,513	78,722	136,753	44,828	334,816	71%
1919	86,574	140,215	81,844	34,364	342,997	72%
1935	71,042	103,787	133,634	42,184	350,647	74%
1910	102,883	127,733	79,464	42,046	352,126	74%
1954	101,203	139,719	73,553	39,642	354,117	75%

YEAR	APR	MAY	JUN	JUL	TOTAL	% OF AVERAGE
1905	62,047	117,748	132,766	53,835	366,396	77%
1896	57,864	86,174	146,124	82,760	372,922	79%
1975	46,602	147,001	140,660	51,917	386,180	81%
1902	107,403	109,904	128,853	43,436	389,596	82%
1946	109,658	155,476	85,880	39,733	390,747	82%
1903	74,315	132,097	139,222	53,355	398,989	84%
1944	80,223	150,109	115,862	59,197	405,391	86%
1979	102,079	164,935	106,112	46,733	419,859	89%
1984	91,359	161,613	93,114	77,046	423,132	89%
1985	136,241	146,799	99,858	41,395	424,293	90%
1920	83,370	158,904	137,840	50,699	430,813	91%
1915	80,916	124,506	172,324	77,496	455,242	96%
1965	80,043	131,980	149,357	95,288	456,668	96%
1963	69,412	137,839	163,944	105,384	476,579	101%
1940	118,175	196,465	145,503	50,471	510,614	108%
1962	147,463	135,884	157,253	74,874	515,474	109%
1927	100,362	184,721	161,153	75,481	521,717	110%
1942	112,586	150,036	178,754	81,529	522,905	110%
1956	97,553	159,683	168,876	99,529	525,641	111%
1932	111,273	154,742	166,404	94,013	526,432	111%
1974	114,113	183,733	167,740	69,580	535,166	113%
1917	126,329	165,062	187,638	81,275	560,304	118%
1997	142,909	214,290	142,358	71,919	571,476	121%
1936	157,290	219,404	137,028	67,902	581,624	123%
1901	83,190	186,446	197,792	114,613	582,041	123%
1993	133,993	200,864	162,420	87,414	584,691	123%
1945	131,246	205,509	169,002	91,593	597,350	126%
1996	147,959	225,987	154,883	70,502	599,331	126%
1922	84,407	242,259	202,395	88,649	617,710	130%
1897	173,393	281,639	137,393	61,837	654,262	138%
1907	197,720	199,950	183,995	97,083	678,748	143%
1914	144,934	210,676	201,064	128,338	685,012	145%
1895	162,071	268,635	172,890	91,133	694,729	147%
1943	198,736	254,785	155,650	88,011	697,182	147%
1911	138,113	184,481	222,076	156,498	701,168	148%
1973	110,892	288,652	230,390	93,834	723,768	153%
1982	212,963	254,985	198,748	130,098	796,794	168%
1958	168,105	316,974	230,866	115,724	831,669	175%
1937	183,505	352,050	225,395	91,097	852,047	180%
1986	208,147	293,335	263,794	121,398	886,674	187%
1967	99,509	269,631	311,063	243,802	924,005	195%
1995	143,244	255,046	293,129	237,802	929,221	196%
1938	223,928	315,044	291,880	130,917	961,769	203%
1980	211,608	287,825	282,877	208,715	991,025	209%
1941	124,615	386,666	309,960	174,416	995,657	210%
1978	181,700	363,157	354,825	194,693	1,094,375	231%
1952	222,633	434,769	302,557	159,856	1,119,815	236%
1998	189,663	308,440	371,835	267,435	1,137,373	240%
1909	247,402	382,617	394,086	194,870	1,218,975	257%
1906	173,143	360,234	458,418	399,841	1,391,636	294%
1983	206,473	478,625	571,846	288,866	1,545,810	326%
1916	481,749	472,994	391,700	225,154	1,571,597	332%
1969	378,333	617,968	496,796	254,777	1,747,874	369%
MAXIMUM	481,749	617,968	571,846	399,841	1,747,874	
MINIMUM	23,391	25,630	14,069	8,225	87,374	
AVERAGE	100,679	157,815	141,388	74,009	473,891	

Kern River Mean Natural Flow at First Point of Measurement

DISCHARGE IN CUBIC FEET PER SECOND (1893 to Date) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	463	751	877	1,317	2,159	2,739	1,732	737	374	305	294	357
2	516	714	911	1,323	2,184	2,708	1,711	713	369	302	292	360
3	612	671	992	1,339	2,221	2,693	1,686	696	367	299	289	374
4	513	624	967	1,334	2,284	2,687	1,657	679	357	296	286	398
5	505	624	997	1,365	2,329	2,696	1,599	653	371	289	288	507
6	482	685	957	1,392	2,369	2,704	1,551	638	376	296	288	1,122
7	474	817	914	1,412	2,397	2,703	1,502	622	351	286	291	530
8	478	762	931	1,439	2,438	2,681	1,456	607	339	292	290	435
9	460	805	1,018	1,467	2,473	2,632	1,414	592	328	292	290	442
10	475	773	1,062	1,495	2,500	2,614	1,373	582	317	288	296	451
11	494	704	1,066	1,597	2,504	2,577	1,324	573	312	286	310	464
12	557	719	1,016	1,614	2,509	2,558	1,288	560	316	282	313	446
13	577	827	1,021	1,606	2,539	2,538	1,258	534	306	282	307	422
14	678	812	1,031	1,623	2,567	2,501	1,235	515	296	277	311	396
15	597	809	999	1,644	2,585	2,465	1,197	508	295	278	308	393
16	610	788	1,033	1,689	2,603	2,414	1,170	504	290	279	309	385
17	598	812	1,060	1,711	2,627	2,381	1,137	492	288	285	319	387
18	668	916	1,123	1,743	2,660	2,339	1,108	489	285	282	335	380
19	637	916	1,114	1,787	2,698	2,302	1,074	486	279	281	469	373
20	598	906	1,106	1,838	2,698	2,268	1,047	473	279	283	417	370
21	606	849	1,144	1,885	2,697	2,234	1,011	453	280	282	371	378
22	702	850	1,131	1,925	2,705	2,198	980	435	279	279	382	408
23	722	874	1,136	1,940	2,694	2,151	965	425	278	279	367	542
24	726	844	1,148	1,957	2,703	2,090	965	411	277	278	387	491
25	968	847	1,197	1,976	2,724	2,036	922	401	294	276	386	489
26	943	840	1,223	2,009	2,770	1,972	893	388	336	283	366	465
27	783	843	1,257	2,032	2,777	1,927	872	386	310	287	382	501
28	734	830	1,262	2,077	2,780	1,877	841	389	293	289	375	475
29	651	878	1,260	2,094	2,797	1,826	808	388	297	290	364	455
30	628	-	1,259	2,129	2,791	1,772	785	383	293	295	396	495
31	686	-	1,294	-	2,783	-	752	378	-	301	-	449
TOTAL	19,141	22,423	33,506	50,759	79,565	71,283	37,313	16,090	9,432	8,899	10,078	14,140
MAXIMUM DAY	968	916	1,294	2,129	2,797	2,739	1,732	737	376	305	469	1,122
MINIMUM DAY	460	624	877	1,317	2,159	1,772	752	378	277	276	286	357
MEAN	617	794	1,081	1,692	2,567	2,376	1,204	519	314	287	336	456
TOTAL AC. FT.	37,965	44,476	66,457	100,679	157,815	141,388	74,009	31,914	18,709	17,651	19,988	28,046

WHOLE YEAR:- TOTAL, 372,629 MAX., 2,797 MIN., 276 MEAN, 1,020 TOTAL AC.FT., 739,097

DISCHARGE IN CUBIC FEET PER SECOND

Kern River Median Natural Flow at First Point of Measurement
(1893 to Date)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	349	447	625	1,038	1,618	2,219	1,306	506	273	239	245	285
2	346	451	647	1,024	1,652	2,237	1,235	478	263	239	258	281
3	346	455	649	1,005	1,645	2,242	1,205	477	257	231	253	305
4	353	464	653	1,021	1,720	2,265	1,193	476	265	241	255	317
5	354	473	704	1,068	1,731	2,199	1,117	445	259	233	259	321
6	367	485	685	1,114	1,717	2,183	1,045	427	260	231	256	326
7	369	504	650	1,215	1,706	2,416	1,039	434	258	233	260	312
8	372	528	659	1,203	1,736	2,327	1,011	423	251	235	259	312
9	381	555	668	1,222	1,874	2,285	977	394	252	239	259	312
10	366	570	637	1,275	1,908	2,308	920	384	249	232	264	304
11	371	574	658	1,193	1,875	2,294	895	373	248	232	264	312
12	388	565	666	1,219	1,905	2,297	869	384	244	232	267	314
13	386	585	623	1,223	2,019	2,235	847	371	238	233	270	318
14	392	566	683	1,249	2,000	2,198	839	352	229	229	273	319
15	374	538	708	1,178	1,946	2,090	801	344	239	231	273	319
16	385	574	704	1,217	1,922	1,977	741	362	239	236	269	328
17	377	614	723	1,299	2,076	1,874	740	345	232	235	269	323
18	382	611	746	1,276	2,184	1,825	731	329	229	242	282	313
19	390	623	821	1,326	2,146	1,729	715	324	227	247	281	319
20	401	599	846	1,333	2,085	1,635	718	314	221	246	289	319
21	393	580	893	1,431	2,037	1,650	706	308	229	243	269	311
22	406	581	867	1,436	2,034	1,633	653	300	228	236	275	316
23	408	576	882	1,440	2,044	1,640	612	319	221	237	286	339
24	418	580	875	1,516	2,100	1,612	605	310	217	239	287	329
25	416	608	921	1,521	2,129	1,511	605	301	220	237	290	336
26	397	610	991	1,558	2,093	1,440	579	289	226	245	288	327
27	406	623	1,014	1,517	2,166	1,378	560	306	222	250	281	326
28	410	637	993	1,517	2,230	1,351	532	286	219	248	278	340
29	421	642	964	1,497	2,289	1,348	519	288	220	249	283	329
30	437	-	999	1,577	2,291	1,303	523	282	231	242	288	339
31	446	-	1,023	-	2,267	-	496	289	-	247	-	353
TOTAL	12,007	15,729	24,177	38,708	61,145	57,701	25,334	11,220	7,166	7,389	8,130	9,904
MAXIMUM DAY	446	642	1,023	1,577	2,291	2,416	1,306	506	273	250	290	353
MINIMUM DAY	346	447	623	1,005	1,618	1,303	496	282	217	229	245	281
MEAN	387	557	780	1,290	1,972	1,923	817	362	239	238	271	319
TOTAL AC. FT.	23,816	31,198	47,954	76,776	121,279	114,448	50,249	22,255	14,214	14,656	16,126	19,644

WHOLE YEAR:- TOTAL, 278,610 MAX., 2,416 MIN., 217 MEAN, 763 TOTAL AC.FT., 552,615

KERN RIVER REGULATED FLOW AT FIRST POINT OF MEASUREMENT (1954 to Date)

RECAPITULATION IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1954	22,019	30,361	44,575	79,089	80,539	81,189	61,059	39,830	22,114	14,450	17,500	17,595	510,320
1955	19,795	22,058	34,671	38,874	48,188	72,196	43,259	25,065	12,936	10,399	13,599	26,743	367,783
1956	41,377	40,326	62,779	49,291	94,887	115,428	124,007	99,489	52,098	42,294	16,990	16,534	755,500
1957	17,958	22,425	34,935	39,677	52,885	96,466	70,175	39,943	22,471	17,282	13,795	17,847	445,859
1958	19,137	28,175	42,125	78,472	131,421	181,305	187,890	143,722	61,519	49,825	25,095	18,825	967,511
1959	20,811	20,991	37,767	29,936	27,463	94,028	59,817	22,699	10,524	8,700	9,786	10,643	353,165
1960	12,516	17,405	24,044	25,041	47,986	81,481	38,991	26,386	13,154	10,483	13,803	12,798	324,088
1961	11,280	10,736	14,017	16,318	16,780	19,321	25,222	21,316	13,404	7,267	9,281	12,121	177,063
1962	13,121	27,435	44,838	95,445	87,187	112,437	113,318	40,778	26,164	22,623	12,448	12,054	607,848
1963	12,067	24,175	32,959	38,914	54,756	80,063	127,710	118,179	68,368	64,828	31,174	23,044	676,237
1964	20,356	21,152	28,532	27,485	28,451	76,268	71,078	31,323	10,989	8,852	14,259	22,879	361,624
1965	35,784	35,907	41,383	39,399	61,313	85,934	96,236	75,497	52,397	47,220	34,356	28,877	634,303
1966	29,978	22,752	50,933	44,634	37,289	67,486	68,338	51,110	19,535	14,739	15,265	82,447	504,506
1967	**146,180**	40,516	57,923	82,732	190,249	200,743	183,566	**240,154**	146,509	85,002	56,799	35,482	1,465,855
1968	33,088	36,284	44,904	45,035	52,156	88,046	82,937	56,584	13,656	13,886	16,365	14,085	497,026
1969	50,499	106,247	**237,265**	**378,817**	332,015	374,787	263,903	221,738	121,359	102,494	90,523	34,122	2,313,769
1970	42,299	32,206	52,489	60,101	53,698	86,904	94,112	88,421	35,667	21,285	18,228	15,844	601,254
1971	25,978	35,520	48,589	30,809	31,950	57,322	82,128	64,643	23,520	12,184	12,839	17,169	442,651
1972	19,527	22,094	32,130	29,760	32,410	44,965	47,996	31,579	11,560	10,286	12,460	16,524	311,291
1973	21,356	26,214	38,878	66,541	97,172	143,554	161,028	102,660	47,883	29,457	24,811	25,579	785,133
1974	35,447	45,969	49,248	47,151	57,477	96,807	120,476	109,093	69,648	54,365	37,085	23,137	745,903
1975	21,221	34,844	45,041	38,444	57,142	95,197	108,932	89,738	34,139	17,072	15,108	15,213	572,091
1976	14,690	19,008	31,789	23,609	28,901	52,300	54,190	30,742	21,828	19,440	12,946	11,341	320,784
1977	14,051	14,380	15,925	18,778	17,431	25,813	32,951	21,888	8,765	7,660	8,287	14,773	200,702
1978	26,132	50,285	49,222	149,450	266,073	236,549	198,587	146,660	73,234	93,098	70,927	30,458	1,390,675
1979	32,549	31,793	45,903	46,508	62,557	109,987	126,343	107,605	32,267	22,792	18,855	18,909	656,068
1980	55,976	81,590	157,503	185,089	167,415	194,134	238,716	200,338	106,516	82,893	61,644	28,838	1,560,652
1981	25,482	27,013	40,594	41,768	46,348	78,405	80,906	51,310	14,315	14,324	18,426	21,578	460,469
1982	30,363	43,374	49,110	57,060	86,469	155,508	166,492	156,341	88,411	104,122	**101,403**	82,435	1,121,088
1983	57,566	71,165	152,862	286,605	**370,706**	**419,760**	**387,505**	176,194	**153,814**	**117,233**	97,616	**90,549**	**2,381,575**
1984	84,280	96,998	68,614	49,793	67,327	89,409	110,785	96,734	43,180	41,726	37,420	47,770	834,036
1985	40,133	48,686	53,821	56,358	72,506	98,757	111,385	77,728	34,973	25,305	20,333	28,986	668,971
1986	31,277	39,039	95,946	172,221	205,204	233,197	193,767	141,114	67,569	82,792	45,227	24,208	1,331,561
1987	24,117	28,919	43,408	44,894	43,609	68,424	73,047	42,545	18,589	15,824	14,269	14,664	432,309
1988	20,793	26,906	35,036	33,769	31,815	50,995	60,458	28,346	13,529	9,025	10,318	14,483	335,473
1989	16,869	21,568	32,092	38,575	39,632	56,527	55,765	36,204	14,241	12,773	10,788	13,739	348,773
1990	12,926	16,124	25,071	24,422	25,454	30,030	31,129	21,519	6,885	8,979	8,037	8,925	219,501
1991	10,627	9,112	27,814	28,937	30,539	62,997	63,654	48,196	12,490	11,353	13,381	14,394	333,494
1992	13,593	20,711	25,451	25,777	33,548	38,600	40,967	31,928	10,195	7,789	10,383	13,880	272,822
1993	22,062	25,426	52,479	45,489	63,322	107,357	118,677	88,671	51,846	34,725	14,021	18,264	642,339
1994	19,622	28,720	41,819	41,256	35,411	69,470	75,175	53,484	16,072	13,745	12,060	15,527	422,361
1995	19,839	20,858	57,225	113,865	138,034	186,960	195,546	205,924	102,593	71,157	57,106	27,993	1,197,100
1996	28,994	34,576	47,226	59,046	148,419	153,050	147,913	113,232	64,770	43,593	45,201	82,016	968,036
1997	63,352	**142,831**	158,678	95,933	120,789	133,315	133,724	108,452	55,240	42,278	46,977	31,894	1,133,463
1998	45,636	93,987	97,468	132,317	239,423	284,408	239,607	200,713	114,224	89,980	93,054	31,739	1,662,556
1999	32,523	40,907	29,209	29,480	38,071	64,411	78,924	64,167	36,405	20,473	10,848	16,203	461,621
MAXIMUM	**146,180**	**142,831**	**237,265**	**378,817**	**370,706**	**419,760**	**387,505**	**240,154**	**153,814**	**117,233**	**101,403**	**90,549**	**2,381,575**
MINIMUM	**10,627**	**9,112**	**14,017**	**16,318**	**16,780**	**19,321**	**25,222**	**21,316**	**6,885**	**7,267**	**8,037**	**8,925**	**177,063**
AcFt TOTAL	**1,415,246**	**1,737,768**	**2,534,290**	**3,182,964**	**4,052,417**	**5,352,290**	**5,248,391**	**3,989,982**	**2,051,565**	**1,658,072**	**1,351,096**	**1,203,128**	**33,777,209**
AcFt AVERAGE	**30,766**	**37,778**	**55,093**	**69,195**	**88,096**	**116,354**	**114,095**	**86,739**	**44,599**	**36,045**	**29,372**	**26,155**	**734,287**
S.F.D. AVERAGE	**500**	**674**	**896**	**1,163**	**1,433**	**1,955**	**1,856**	**1,411**	**750**	**586**	**494**	**425**	**1,014**
% OF TOTAL	**4.19%**	**5.15%**	**7.50%**	**9.42%**	**12.00%**	**15.85%**	**15.54%**	**11.81%**	**6.07%**	**4.91%**	**4.00%**	**3.56%**	**100.00%**

DISCHARGE IN CUBIC FEET PER SECOND

Kern River Mean Regulated Flow at First Point of Measurement
(1893 to Date)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	467	555	837	990	1,331	1,597	1,970	1,607	955	683	491	454
2	479	571	827	1,012	1,349	1,645	1,921	1,586	932	694	483	421
3	469	592	832	1,016	1,344	1,699	1,925	1,596	911	679	484	406
4	464	594	847	1,011	1,375	1,753	1,888	1,590	896	666	489	409
5	463	592	845	1,017	1,376	1,790	1,913	1,607	867	660	494	421
6	464	603	840	1,014	1,375	1,814	1,932	1,617	839	684	499	504
7	468	604	849	1,039	1,371	1,854	1,944	1,592	820	654	493	426
8	465	609	846	1,079	1,399	1,881	1,966	1,572	805	639	493	414
9	456	712	842	1,117	1,407	1,904	1,971	1,591	787	638	496	411
10	446	688	869	1,138	1,404	1,922	1,957	1,596	772	627	501	407
11	443	647	900	1,150	1,389	1,939	1,935	1,585	760	606	513	404
12	448	640	872	1,156	1,405	1,959	1,929	1,552	744	575	508	409
13	459	652	882	1,159	1,406	1,976	1,916	1,526	734	575	510	404
14	466	674	872	1,167	1,400	2,003	1,923	1,497	731	572	497	400
15	469	672	890	1,184	1,383	2,008	1,926	1,480	723	563	494	407
16	494	663	896	1,193	1,387	2,031	1,911	1,475	721	552	498	399
17	495	661	904	1,198	1,387	2,087	1,879	1,450	716	537	503	408
18	505	670	893	1,200	1,405	2,103	1,840	1,458	698	546	494	427
19	512	684	892	1,214	1,426	2,103	1,825	1,423	684	549	497	426
20	507	729	908	1,210	1,465	2,075	1,791	1,383	678	556	499	422
21	504	726	924	1,212	1,485	2,086	1,826	1,344	675	560	500	421
22	504	739	927	1,220	1,494	2,102	1,812	1,288	676	552	494	424
23	513	777	938	1,234	1,499	2,087	1,805	1,268	680	549	483	422
24	553	770	946	1,253	1,497	2,106	1,783	1,250	678	545	467	428
25	578	751	947	1,260	1,495	2,096	1,760	1,219	675	549	482	429
26	603	756	952	1,267	1,485	2,073	1,752	1,180	669	543	489	429
27	586	767	960	1,283	1,493	2,005	1,741	1,152	665	536	489	444
28	561	783	960	1,282	1,498	1,980	1,721	1,123	663	528	493	450
29	547	638	942	1,293	1,519	2,001	1,709	1,084	676	529	487	447
30	556	-	961	1,318	1,559	1,983	1,696	1,041	656	523	489	451
31	567	-	976	-	1,607	-	1,656	999	-	503	-	462
TOTAL	15,511	19,047	27,776	34,886	44,415	58,662	57,523	43,731	22,486	18,172	14,809	13,186
MAXIMUM INSTANT.	603	783	976	1,318	1,607	2,106	1,971	1,617	955	694	513	504
MINIMUM INSTANT.	443	555	827	990	1,331	1,597	1,656	999	656	503	467	399
MEAN	500	674	896	1,163	1,433	1,955	1,856	1,411	750	586	494	425
TOTAL AC. FT.	30,766	37,778	55,093	69,195	88,096	116,354	114,095	86,739	44,599	36,045	29,372	26,155

WHOLE YEAR:- TOTAL, 370,204 MAX., 2,106 MIN., 399 MEAN, 1,014 TOTAL AC.FT., 734,287

ACCRETIONS TO KERN RIVER BELOW ISABELLA DAM

APRIL 1954 TO DATE

Quantities in acre-feet except where noted... **Year: 1999**

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1954				4,038	2,977	1,479	3,897	2,559	514	626	966	1,870	
1955	2,358	1,921	1,821	2,386	1,390	3,298	1,929	402	(314)	551	1,065	2,524	19,331
1956	5,828	1,732	2,448	2,860	2,366	1,406	2,347	3,061	1,119	5,799	1,356	1,452	31,774
1957	2,114	886	1,097	169	1,251	397	918	1,114	(369)	48	743	1,057	9,425
1958	1,494	2,918	6,644	14,550	4,681	(801)	(4,348)	5,125	1,735	222	1,168	1,289	34,677
1959	1,299	1,068	1,544	1,073	540	(936)	3,318	119	(383)	(880)	438	797	7,997
1960	1,071	2,739	1,633	1,581	92	1,601	1,311	1,559	149	502	1,060	1,099	14,397
1961	815	757	914	971	787	126	264	814	734	257	673	1,196	8,308
1962	1,085	6,284	5,125	7,050	4,778	2,709	2,271	1,753	633	1,041	835	816	34,380
1963	1,005	2,190	1,900	1,827	3,826	1,339	2,855	4,520	2,424	2,710	2,045	1,936	28,577
1964	1,692	472	2,378	3,237	1,275	2,408	1,793	577	346	432	926	2,729	18,265
1965	3,172	1,460	2,608	4,776	811	(367)	151	(2,100)	(46)	1,941	1,036	2,285	15,727
1966	2,286	997	1,303	2,095	803	(63)	1,229	1,932	(58)	1,214	1,740	**14,810**	28,288
1967	3,856	3,320	3,094	3,945	1,998	7,531	5,736	10,549	1,517	1,296	2,619	2,688	48,149
1968	1,870	1,300	1,400	1,224	1,383	1,757	2,220	1,993	418	936	1,687	2,428	18,616
1969	**19,079**	17,945	23,687	**40,391**	20,384	11,064	**18,659**	**17,163**	5,750	2,480	2,457	3,381	182,440
1970	4,742	2,450	3,028	1,168	186	2,916	869	1,434	739	655	2,794	1,814	22,795
1971	2,309	1,547	1,202	1,459	2,154	1,500	808	707	211	156	785	1,833	14,671
1972	1,634	1,204	975	1,003	501	844	180	42	16	777	222	1,075	8,473
1973	3,146	4,182	7,686	7,394	6,123	3,811	1,882	3,879	4,168	1,982	1,890	2,699	48,842
1974	4,393	2,003	5,145	6054	1,704	1,011	817	2,357	3,055	2,717	2,303	2,894	34,453
1975	704	1,299	2,925	2641	4,023	2,265	1,565	55	699	497	189	746	17,608
1976	1,646	1,503	1,373	1,562	386	1,675	833	821	1,914	1,679	1,172	1,120	15,684
1977	1,174	1,652	1,844	954	1,124	1,087	622	1,001	683	184	260	2,130	12,715
1978	4,577	26,353	12,041	11,512	11,745	4,945	7,597	736	2,682	1,438	2,039	1,656	87,321
1979	1,724	3,158	5,330	2,675	1,718	494	(415)	234	516	1,428	476	1,544	18,882
1980	6,814	9,429	8,860	7,525	3,543	7,595	9,802	8,239	(86)	2	(58)	1,426	63,091
1981	2,861	1,313	2,041	1,858	1,129	140	148	1,786	958	764	459	1,798	15,255
1982	3,805	3,501	7,352	10,277	1,973	3,885	5,471	3,876	1,128	1,256	1,897	4,141	48,562
1983	6,887	17,322	**37,912**	24,107	12,710	4,711	3,097	2,414	**7,454**	**6,473**	**5,718**	9,390	138,195
1984	7,549	5,329	5,418	3,381	2,701	2,213	4,495	3,970	1,434	328	1,460	3,897	42,175
1985	3,759	3,640	3,865	2,714	(625)	(593)	2,697	517	279	1,497	2,264	3,501	23,515
1986	3,734	6,350	8,619	9,540	9,416	13,375	13,999	11,019	2,280	2,850	2,957	2,192	86,331
1987	3,123	2,239	3,822	738	2,535	1,611	1,486	1,149	696	901	418	669	19,387
1988	713	764	1,228	(51)	(15)	495	(485)	100	534	415	1,042	870	5,610
1989	551	962	3,415	1,188	2,049	1,464	(716)	671	(3)	376	150	973	11,080
1990	1,471	1,278	1,669	42	298	59	(1,580)	228	170	571	763	1,300	6,269
1991	1,351	683	3,099	2,983	849	(236)	376	662	(66)	(26)	1,205	1,429	12,309
1992	1,384	2,297	1,800	1,196	(294)	(288)	16	267	352	(222)	(433)	1,183	7,258
1993	3,131	3,757	4,177	2,110	(1,854)	(1,528)	(638)	(1,789)	366	903	308	1,019	9,962
1994	604	1,351	446	226	(1,152)	(367)	258	746	(89)	208	537	1,435	4,203
1995	4,978	2,805	10,025	5,664	10,025	11,210	10,055	11,347	1,380	2,463	1,784	3,132	74,868
1996	3,627	10,773	8,346	4,362	7,908	3,906	2,628	2,405	531	716	1,360	5,573	52,135
1997	14,168	9,981	7,447	911	2,616	4,619	809	(1,658)	2,448	(1,509)	(1,397)	4,441	42,876
1998	5,482	**34,907**	24,539	25,855	**30,900**	**25,533**	16,059	12,476	4,730	(121)	155	3,425	**183,940**
1999	3,772	4,820	3,236	3,148	1,092	1,033	1,516	2,094	624	1,088	122	690	23,235
Total	154,837	214,841	246,461	236,369	164,810	132,333	128,801	122,925	53,972	49,621	53,655	112,352	1,670,977
Maximum	19,079	34,907	37,912	40,391	30,900	25,533	18,659	17,163	7,454	6,473	5,718	14,810	183,940
Minimum	551	472	446	(51)	(1,854)	(1,528)	(4,348)	(2,100)	(383)	(1,509)	(1,397)	669	
Mean	3,441	4,774	5,477	5,138	3,583	2,877	2,800	2,672	1,173	1,079	1,166	2,442	36,623
Mean CFS	*56*	*85*	*89*	*86*	*58*	*48*	*46*	*43*	*20*	*18*	*20*	*40*	*51*

MIDNIGHT STORAGE IN ACRE-FEET

Isabella Reservoir Daily Mean Storage (1954-1999)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	153,881	166,457	177,383	190,613	219,346	287,311	306,159	262,592	206,855	180,213	160,071	150,294
2	154,146	166,877	177,792	191,408	220,950	289,486	305,621	260,848	205,677	179,374	159,631	150,178
3	154,874	166,999	178,134	192,117	222,549	291,521	305,012	259,003	204,512	178,358	159,199	150,233
4	155,210	167,083	178,605	192,771	224,242	293,369	304,406	257,122	203,390	177,776	158,752	150,199
5	155,476	167,190	179,197	193,389	225,888	295,165	303,633	255,156	202,418	176,981	158,276	150,712
6	155,634	167,335	179,560	194,028	227,650	296,850	302,765	253,128	201,512	176,150	157,825	153,882
7	155,777	167,535	179,824	194,622	229,370	298,522	301,777	251,138	200,555	175,378	157,367	154,528
8	155,922	167,860	180,158	195,148	231,090	300,026	300,641	249,213	199,588	174,599	156,933	154,704
9	156,028	168,370	180,452	195,732	232,938	301,388	299,431	247,162	198,618	173,827	156,481	154,799
10	156,155	168,849	180,843	196,315	234,926	302,670	298,173	245,108	197,642	173,061	156,050	154,923
11	156,346	169,092	181,335	197,268	236,885	303,784	296,849	243,108	196,697	172,337	155,643	155,152
12	156,840	169,293	181,704	198,263	238,830	304,801	295,439	241,129	195,816	171,690	155,212	155,261
13	157,474	169,797	181,985	199,192	240,879	305,600	294,035	239,123	194,901	171,009	154,813	155,323
14	158,111	170,272	182,315	200,080	242,932	306,339	292,621	237,158	193,971	170,342	154,422	155,341
15	158,473	170,718	182,545	200,962	245,083	306,938	291,096	235,198	193,044	169,692	154,053	155,338
16	158,998	171,150	182,783	201,821	247,286	307,443	289,592	233,282	192,114	169,082	153,654	155,329
17	159,431	171,571	183,091	202,736	249,520	307,779	288,060	231,349	191,209	168,523	153,313	155,297
18	159,658	172,492	183,366	203,665	251,857	307,977	286,569	229,402	190,332	167,931	153,052	155,247
19	160,019	173,295	183,672	204,608	254,372	308,216	285,018	227,547	189,468	167,331	152,745	155,093
20	160,340	174,133	183,947	205,628	256,899	308,473	283,412	225,734	188,609	166,745	152,414	155,085
21	160,691	174,659	184,333	206,712	259,401	308,623	281,719	223,925	187,789	166,097	152,140	155,013
22	161,014	175,117	184,782	207,855	261,972	308,684	280,066	222,209	186,947	165,482	151,963	155,085
23	161,318	175,569	185,231	208,965	264,550	308,696	278,379	220,487	186,094	164,880	151,737	155,750
24	161,776	175,900	185,708	210,027	267,103	308,536	276,697	218,797	185,268	164,293	151,569	156,128
25	163,132	176,287	186,196	211,121	269,574	308,323	274,974	217,120	184,510	163,675	151,448	156,455
26	164,010	176,778	186,700	212,223	272,110	308,083	273,198	215,488	183,946	163,096	151,233	156,725
27	164,541	176,843	187,271	213,434	274,664	307,886	271,454	213,892	183,271	162,572	150,949	157,106
28	164,878	177,063	187,921	214,760	277,222	307,621	269,691	212,362	182,507	162,047	150,699	157,352
29	165,099	-	188,515	216,178	279,833	307,207	267,884	210,881	181,745	161,742	150,489	157,457
30	165,264	-	189,105	217,731	282,345	306,715	266,099	209,471	180,989	161,040	150,428	157,520
31	165,716	-	189,837	-	284,871	-	264,310	208,115	-	160,595	-	157,543
MAXIMUM DAY	165,716	177,063	189,837	217,731	284,871	308,696	306,159	262,592	206,855	180,213	160,071	157,543
MINIMUM DAY	153,881	166,457	177,383	190,613	219,346	287,311	264,310	208,115	180,989	160,595	150,428	150,178

HISTORICAL INFLOWS TO LAKE ISABELLA

Runoff in 1,000 acre-feet

WATER YEAR ENDING	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL TOTAL
1955	11.8	14.4	16.0	18.1	22.7	28.1	35.1	67.9	83.4	29.1	18.9	10.3	355.8
1956	9.5	11.5	90.4	77.1	48.2	59.9	94.5	156.3	167.4	97.2	38.1	20.3	870.4
1957	17.6	15.7	15.1	16.4	25.3	30.3	38.5	78.1	131.8	41.0	16.4	12.5	438.7
1958	13.6	13.3	17.6	20.6	36.5	61.5	153.6	312.3	231.7	120.1	51.1	25.8	1057.7
1959	20.6	18.7	17.8	19.3	21.2	31.7	39.5	39.4	33.0	15.8	9.9	9.6	276.5
1960	9.6	9.7	10.3	12.2	27.9	30.2	44.5	58.0	45.5	15.1	7.9	8.4	279.3
1961	9.5	13.0	11.7	10.6	10.0	13.1	23.0	29.1	23.8	8.5	15.1	7.6	175.0
1962	7.1	8.8	11.0	12.4	47.1	32.4	140.5	130.8	154.7	72.1	23.7	13.1	653.7
1963	12.9	11.6	11.1	26.5	99.6	41.0	67.6	134.0	162.3	102.6	42.2	26.5	737.9
1964	24.5	23.8	21.5	18.2	16.6	22.7	39.6	60.0	52.3	22.0	13.3	8.6	323.1
1965	8.7	13.9	44.2	43.5	30.2	33.2	74.5	131.0	149.9	94.9	50.7	22.0	696.7
1966	15.6	28.4	28.3	27.0	21.4	37.8	66.7	81.5	45.4	21.9	16.1	9.6	399.7
1967	9.5	13.7	299.0	59.6	62.5	83.2	95.5	268.1	302.9	238.1	90.5	53.5	1576.1
1968	34.9	31.9	33.0	32.2	38.9	47.1	64.4	86.7	62.1	28.4	18.4	11.3	489.3
1969	12.6	15.3	17.1	159.4	93.4	133.9	337.4	597.5	485.6	236.0	93.8	44.3	2226.3
1970	33.3	32.4	30.9	61.8	39.0	56.9	62.1	109.8	92.7	49.2	22.7	13.4	604.2
1971	12.7	18.8	26.8	31.5	29.4	40.6	51.1	64.4	81.1	41.6	18.9	11.1	428.0
1972	11.4	13.4	17.2	18.2	17.6	32.3	27.3	45.4	37.7	14.6	10.7	11.2	257.0
1973	10.6	14.5	19.3	30.5	32.2	45.0	103.9	282.5	226.5	91.8	36.9	18.8	912.5
1974	16.8	20.4	25.1	45.6	28.1	68.8	108.1	182.2	166.7	68.6	37.6	20.4	788.4
1975	19.1	17.6	20.6	21.1	25.3	39.9	43.9	142.8	138.8	50.3	22.4	16.2	558.0
1976	15.1	14.7	15.6	14.6	15.3	21.8	24.2	47.0	18.9	13.9	13.7	23.1	237.9
1977	18.7	11.7	10.0	12.2	12.0	12.6	22.4	24.3	34.5	10.3	9.8	7.0	185.5
1978	7.9	8.1	21.8	42.0	90.0	163.4	170.2	352.2	351.9	188.1	73.1	58.9	1527.6
1979	28.1	24.3	27.2	32.2	38.7	66.9	99.4	164.0	105.5	47.0	26.9	19.1	679.3
1980	18.2	18.2	17.7	138.7	159.4	130.7	204.1	284.4	274.9	198.9	69.9	35.1	1550.2
1981	27.1	24.9	28.0	25.9	33.4	43.6	67.5	90.8	65.7	25.5	15.6	12.2	460.2
1982	14.0	18.5	21.4	33.9	49.5	71.4	202.9	253.0	194.9	124.6	58.1	60.6	1102.8
1983	45.1	55.2	73.7	81.0	121.2	227.6	182.2	465.9	567.1	285.8	152.5	61.0	2318.3
1984	46.9	65.9	93.6	69.1	55.0	77.3	88.0	159.4	90.7	72.4	45.6	26.9	890.8
1985	26.2	33.6	35.6	36.7	37.0	49.5	133.6	147.4	100.4	38.7	23.4	16.7	678.8
1986	15.1	20.0	30.4	38.9	143.6	196.2	198.6	283.9	250.4	107.4	46.1	24.3	1354.9
1987	25.5	22.4	21.3	22.5	27.3	37.7	54.5	72.6	54.5	23.4	13.6	10.0	385.3
1988	10.6	14.3	15.5	22.0	19.1	29.0	39.6	58.4	42.6	21.5	13.4	10.2	296.2
1989	8.9	9.9	14.6	15.4	22.6	64.0	90.2	69.8	48.4	22.1	12.3	10.2	388.4
1990	10.4	10.5	10.0	11.4	11.8	21.4	32.0	38.5	29.1	14.9	8.2	6.3	204.5
1991	8.3	7.6	7.8	9.6	8.5	44.2	55.2	78.9	100.7	37.9	14.1	11.1	383.9
1992	9.4	12.7	11.6	12.7	20.0	24.6	54.2	74.7	33.3	16.3	11.7	7.5	288.7
1993	9.6	11.5	13.4	36.1	35.8	90.1	131.9	202.9	163.9	88.0	34.6	16.1	833.9
1994	13.4	14.1	17.1	18.3	22.6	38.1	46.3	68.4	56.6	20.8	11.2	9.1	336.0
1995	14.6	12.2	14.1	41.9	45.9	146.4	137.6	245.0	281.9	227.7	78.3	37.7	1283.3
1996	21.7	20.4	25.7	36.7	87.8	99.7	143.7	218.1	150.6	67.9	29.9	16.0	918.2
1997	15.1	39.5	80.9	231.9	94.8	113.0	142.0	211.7	137.7	71.1	39.7	23.6	1201.0
1998	22.5	25.1	26.1	40.4	101.4	126.8	163.9	277.5	346.3	251.4	82.0	46.2	1509.6
1999	35.2	33.1	29.8	33.9	33.6	35.3	52.7	94.1	67.7	31.3	15.0	12.0	473.8
MEAN	17.5	19.8	32.2	40.4	45.8	64.5	94.4	156.5	143.2	77.0	34.5	20.8	746.5

PRECIPITATION DATA -- ISABELLA DAM & RESERVOIR

OCTOBER 1949 TO DATE

(In Inches)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1949-50	0.05	0.65	1.32	1.37	2.60	1.02	0.44	0.00	0.00	0.23	0.11	0.21	8.00
1950-51	0.08	3.16	0.98	1.12	0.18	0.11	0.93	0.03	0.00	0.00	0.00	0.00	6.59
1951-52	0.35	0.47	4.77	5.52	0.37	3.26	0.12	0.00	0.00	0.00	0.00	0.11	14.97
1952-53	0.00	1.98	3.09	2.39	0.04	0.67	1.20	0.20	0.00	0.00	0.09	0.00	9.66
1953-54	0.13	0.90	0.78	1.88	2.26	2.13	0.06	0.07	0.00	0.00	0.00	0.02	8.23
1954-55	0.00	0.80	1.30	2.47	1.05	0.00	0.67	0.78	0.00	0.00	0.00	0.00	7.07
1955-56	0.00	1.34	4.01	4.25	0.26	0.03	1.51	0.43	0.00	0.20	0.00	0.00	12.03
1956-57	0.42	0.00	0.17	1.88	0.96	0.84	0.72	1.03	0.01	0.02	0.00	0.00	6.05
1957-58	0.19	0.33	1.63	3.09	4.45	3.63	**2.77**	0.24	0.00	0.00	0.05	0.20	16.58
1958-59	0.17	0.48	0.02	0.64	1.54	0.08	0.45	0.07	0.00	0.00	0.00	0.34	3.79
1959-60	0.00	0.00	0.97	1.77	6.48	0.43	1.28	0.34	0.00	0.00	0.00	0.07	11.34
1960-61	0.12	1.26	0.12	0.50	0.01	1.59	0.51	0.16	0.11	0.02	**1.20**	0.00	5.60
1961-62	0.00	2.15	0.79	2.55	5.35	1.26	0.00	0.08	0.00	0.00	0.00	0.00	12.18
1962-63	0.03	0.00	0.00	1.52	3.06	2.06	1.07	0.13	0.72	0.00	1.16	1.16	10.91
1963-64	2.02	1.20	0.46	0.97	0.07	1.93	0.84	0.10	0.03	0.00	0.01	0.00	7.63
1964-65	0.47	1.82	3.99	1.75	0.27	1.21	2.58	0.18	0.13	0.39	0.50	0.20	13.49
1965-66	0.00	2.76	2.37	0.66	0.75	0.22	0.00	0.00	0.00	0.00	0.80	0.00	7.56
1966-67	0.00	1.09	**11.53**	2.49	0.02	0.63	2.75	0.18	0.24	0.30	0.23	1.63	21.09
1967-68	0.00	1.41	1.85	0.82	0.85	1.55	0.77	0.01	0.00	0.01	0.11	0.00	7.38
1968-69	0.35	1.28	1.65	**9.56**	6.12	1.14	0.95	0.35	0.34	0.27	0.00	0.10	22.11
1969-70	0.07	0.56	0.24	3.91	0.54	1.89	0.43	0.00	0.00	0.02	0.01	0.00	7.67
1970-71	0.04	3.47	2.20	0.54	0.37	0.45	0.66	0.89	0.00	0.06	0.54	0.00	9.22
1971-72	0.05	0.47	3.04	0.00	0.39	0.00	0.37	0.05	**0.80**	0.00	0.34	0.03	5.54
1972-73	0.66	3.13	2.48	3.96	2.57	2.65	0.25	0.25	0.00	0.00	0.00	0.00	15.95
1973-74	0.11	1.26	1.25	2.75	0.09	2.00	1.95	0.39	0.00	0.78	0.00	0.00	10.58
1974-75	**2.30**	0.10	2.41	0.65	1.82	2.77	0.49	0.04	0.00	0.00	0.03	1.85	12.46
1975-76	0.41	0.22	0.07	0.02	1.25	1.61	0.86	0.05	0.00	0.41	0.00	**5.20**	10.10
1976-77	0.23	0.07	0.62	1.50	1.04	0.75	0.00	0.91	0.39	0.00	0.87	0.00	6.38
1977-78	0.02	0.17	5.02	4.51	6.96	3.46	0.87	0.00	0.00	0.03	0.00	1.33	22.37
1978-79	0.02	0.39	0.74	3.24	3.22	2.54	0.00	0.19	0.00	0.03	0.14	0.93	11.44
1979-80	0.95	0.33	0.34	7.71	4.32	1.85	0.51	0.55	0.00	0.00	0.00	0.00	16.56
1980-81	0.09	0.01	0.63	2.65	1.49	3.05	0.23	0.34	0.00	0.00	0.00	0.04	8.53
1981-82	1.05	1.17	1.16	4.04	1.15	4.27	1.59	0.01	0.04	0.00	0.13	0.71	15.32
1982-83	0.78	3.14	3.78	4.31	4.36	5.96	0.58	0.09	0.00	0.00	1.14	0.20	**24.34**
1983-84	0.63	**3.49**	3.56	0.00	1.13	0.27	0.51	0.00	0.02	**2.01**	0.63	0.00	12.25
1984-85	0.62	2.90	1.93	0.68	1.16	1.71	0.03	0.00	0.00	0.00	0.00	0.15	9.18
1985-86	0.10	2.27	1.43	2.94	3.58	3.58	0.10	0.00	0.00	0.38	0.00	0.27	14.65
1986-87	0.24	0.54	0.27	2.65	2.03	1.88	0.10	0.42	0.48	0.00	0.00	0.04	8.65
1987-88	0.62	0.87	1.36	1.80	0.40	0.24	1.41	0.50	0.05	0.51	0.00	0.00	7.76
1988-89	0.00	1.75	3.15	0.29	2.24	2.28	0.09	0.04	0.00	0.00	0.00	0.62	10.46
1989-90	0.11	0.30	0.00	1.33	1.00	0.67	0.44	0.26	0.02	0.00	0.00	0.35	4.48
1990-91	0.01	0.61	0.74	0.99	1.17	**6.43**	0.03	0.09	0.00	0.00	0.01	0.19	10.27
1991-92	0.53	1.30	1.45	1.02	3.10	1.82	0.00	0.12	0.00	0.00	0.00	0.00	9.34
1992-93	0.94	0.00	2.80	4.09	4.15	0.79	0.00	0.00	0.64	0.00	0.00	0.00	13.41
1993-94	0.12	1.52	1.60	0.66	3.10	0.76	0.87	0.19	0.00	0.00	0.00	0.25	9.07
1994-95	0.31	1.45	0.71	7.26	1.35	3.83	0.38	0.55	0.40	0.00	0.51	0.00	16.75
1995-96	0.00	0.00	1.79	4.36	5.03	1.47	0.53	0.00	0.00	0.00	0.00	0.00	13.18
1996-97	0.66	2.38	4.29	3.90	0.13	0.00	0.00	0.00	0.00	0.08	0.00	1.02	12.46
1997-98	0.40	1.76	1.74	2.72	**10.60**	2.87	0.52	**1.74**	0.09	0.00	0.00	0.09	22.53
1998-99	0.12	1.03	0.60	3.82	0.51	0.57	1.65	0.98	0.00	0.04	0.00	0.39	9.71
AVERAGE	0.33	1.19	1.86	2.51	2.14	1.72	0.70	0.26	0.09	0.12	0.17	0.35	11.46
MAXIMUM	2.30	3.49	11.53	9.56	10.60	6.43	2.77	1.74	0.80	2.01	1.20	5.20	24.34
DAILY MAXIMUM	0.96	2.85	5.20	2.40	3.40	1.72	1.45	0.75	0.50	0.88	1.01	3.09	
DATE OF OCCURRENCE	10/17/63	11/20/50	12/05/66	01/16/96	02/01/60	03/04/91	04/02/74	05/26/99	06/08/72	07/16/84	08/08/63	09/30/76	

ISABELLA, CALIFORNIA
AVERAGE MONTHLY TEMPERATURES (°F)
1956 to Date

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1956	46.6	43.7	52.5	55.6	65.0	74.0	79.8	76.2	74.7	59.1	53.7	46.8	60.6
1957	40.6	52.5	52.0	58.1	62.8	77.3	81.9	78.4	73.5	59.3	49.8	46.9	61.1
1958	46.3	49.3	47.6	56.1	68.7	72.2	79.7	82.8	74.9	67.3	52.1	50.8	62.3
1959	47.6	46.1	56.5	64.1	62.8	77.2	86.4	79.9	70.7	65.4	55.6	47.3	63.3
1960	41.7	45.8	55.6	57.2	63.6	79.8	83.0	80.0	76.0	61.6	50.9	45.3	61.7
1961	48.0	50.0	50.7	59.5	62.0	79.4	84.5	81.3	71.2	62.3	49.6	44.7	61.9
1962	44.7	46.4	48.0	61.3	60.9	73.4	79.6	79.0	74.4	63.2	53.0	47.8	61.0
1963	44.0	52.7	48.6	50.2	63.5	68.2	76.7	76.1	74.3	62.7	51.0	46.1	59.5
1964	43.3	44.8	47.2	53.6	60.6	70.5	79.4	78.8	70.1	66.8	48.6	47.2	59.2
1965	46.1	47.9	49.6	54.1	60.7	67.1	77.3	76.8	66.5	64.4	51.8	43.6	58.8
1966	41.9	43.8	52.4	60.7	68.0	73.3	77.8	79.5	72.4	62.2	51.2	44.4	60.6
1967	44.4	47.9	50.9	45.4	62.6	69.2	80.9	82.1	72.3	63.9	56.4	39.7	59.6
1968	42.8	52.2	53.0	55.7	63.6	74.4	80.6	74.8	71.9	61.0	50.8	40.7	60.1
1969	44.0	42.4	48.1	54.3	65.9	69.6	78.9	79.4	73.1	57.6	53.3	45.0	59.3
1970	45.6	50.4	49.9	51.0	65.8	72.7	81.6	80.1	69.6	60.1	52.4	41.3	60.0
1971	43.4	44.8	50.6	52.5	58.3	70.7	79.7	79.7	70.9	56.4	48.6	38.8	57.9
1972	42.0	49.1	56.1	56.1	65.6	73.5	80.5	76.1	68.2	56.8	45.7	39.6	59.1
1973	40.3	45.7	42.8	53.0	64.9	73.1	76.9	74.8	68.5	59.1	46.9	44.9	57.6
1974	41.3	44.6	49.4	51.2	62.2	72.5	76.6	76.2	74.2	61.4	50.0	41.0	58.4
1975	43.1	43.6	45.7	45.7	60.7	71.2	75.9	73.6	72.4	57.6	48.7	45.1	56.9
1976	44.2	45.7	47.4	50.6	65.7	71.2	77.5	70.5	68.3	60.3	53.6	44.5	58.3
1977	42.8	48.4	43.8	57.5	55.4	74.0	77.6	77.2	70.0	62.3	51.1	47.3	59.0
1978	44.3	46.1	53.1	50.9	60.4	71.7	76.7	76.8	67.6	65.3	47.2	39.7	58.3
1979	40.7	41.7	48.5	60.6	63.2	71.4	75.9	72.6	74.0	61.8	50.0	48.4	59.1
1980	47.5	49.1	46.5	54.8	57.7	66.8	77.8	75.3	69.2	63.2	52.4	49.0	59.1
1981	48.3	49.5	47.7	57.0	63.6	76.0	79.1	79.7	73.2	56.9	52.9	47.1	60.9
1982	41.8	47.8	47.4	52.5	63.6	68.6	75.6	77.1	68.5	59.2	48.6	43.2	57.8
1983	45.2	47.2	48.5	49.9	61.4	69.2	73.0	75.7	74.0	61.3	50.2	46.1	58.5
1984	47.0	46.6	51.4	52.6	67.3	70.6	80.9	78.2	74.6	55.7	48.3	41.9	59.6
1985	43.2	45.7	46.5	59.3	62.9	75.1	79.9	75.3	65.1	59.0	47.0	44.5	58.6
1986	49.7	49.0	53.5	54.9	63.5	73.7	75.7	78.6	64.1	58.2	51.0	43.0	59.6
1987	38.9	45.9	47.5	59.0	63.2	73.8	72.6	76.5	69.6	64.4	48.6	38.8	58.2
1988	42.3	48.5	50.8	55.1	59.6	70.3	80.2	77.9	72.5	66.1	50.3	43.1	59.7
1989	41.8	43.4	52.7	61.7	63.0	72.1	78.4	74.3	68.4	58.6	51.8	44.2	59.2
1990	42.5	42.6	50.7	57.9	61.7	71.9	80.1	74.9	69.6	62.7	49.4	37.4	58.5
1991	42.7	50.8	43.6	51.2	56.7	71.0	82.1	77.8	77.2	67.6	53.4	45.2	59.9
1992	43.4	49.2	52.4	62.5	71.7	73.3	79.1	81.3	74.5	64.8	51.3	42.0	62.1
1993	42.5	45.5	54.9	56.8	65.3	70.5	76.7	77.0	72.5	62.7	50.9	43.2	59.9
1994	46.5	45.6	54.7	58.1	66.8	79.6	86.8	85.5	76.7	64.8	48.0	46.1	63.3
1995	45.2	56.1	53.8	56.2	61.4	71.4	81.0	81.7	76.9	68.5	60.8	48.5	63.5
1996	47.1	48.8	52.7	58.8	64.7	74.1	82.3	82.0	73.4	61.2	52.7	48.1	62.2
1997	46.4	48.1	57.1	58.3	71.2	72.4	78.8	80.0	74.6	61.4	52.6	44.2	62.1
1998	46.7	44.3	52.7	53.2	56.1	67.8	80.5	82.5	71.2	59.3	50.8	43.9	59.1
1999	47.9	48.1	49.1	52.2	63.8	72.3	78.9	77.5	75.9	68.0	56.4	47.8	61.5
Normal	44.2	47.2	50.3	55.4	63.1	72.5	79.2	78.0	71.9	61.9	51.1	44.4	59.9
Maximum	49.7	56.1	57.1	64.1	71.7	79.8	86.8	85.5	77.2	68.5	60.8	50.8	63.5
Minimum	38.9	41.7	42.8	45.4	55.4	66.8	72.6	70.5	64.1	55.7	45.7	37.4	56.9

PAN EVAPORATION AT ISABELLA DAM & RESERVOIR

OCTOBER 1953 TO DATE

(In Inches)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1953-54	5.98	3.42	1.92	1.77	1.93	3.19	6.93	10.60	11.82	14.48	11.94	9.21	83.19
1954-55	6.57	3.03	2.02	1.24	2.52	5.05	5.94	8.93	11.76	13.92	13.67	9.66	84.31
1955-56	6.67	3.24	1.58	1.52	2.60	5.30	5.70	8.87	11.91	12.37	11.84	9.57	81.17
1956-57	4.93	3.99	2.29	1.83	2.46	4.40	6.60	7.53	12.51	13.76	12.90	9.18	82.38
1957-58	4.74	3.27	2.14	2.08	1.93	2.73	5.97	9.46	10.68	12.56	11.87	8.64	76.07
1958-59	6.54	3.03	2.60	2.36	2.13	5.95	7.98	9.73	13.56	15.53	13.76	9.03	92.20
1959-60	6.57	4.05	2.67	1.49	2.10	5.08	6.39	8.46	13.11	13.14	12.99	9.54	85.59
1960-61	5.43	2.34	2.02	2.60	3.05	4.28	7.20	8.99	13.65	15.41	10.39	9.06	84.42
1961-62	6.42	3.18	1.80	2.28	1.65	3.47	7.29	8.49	12.03	13.33	12.56	9.30	81.80
1962-63	5.55	3.00	2.70	2.82	2.74	4.46	4.38	8.31	10.74	14.32	12.03	7.89	78.94
1963-64	4.59	2.40	2.08	2.26	3.11	4.37	6.51	8.93	11.88	13.95	12.68	9.30	82.06
1964-65	6.54	2.58	2.02	1.83	2.97	3.94	4.74	8.90	10.32	11.87	10.48	8.19	74.38
1965-66	6.26	2.25	1.40	2.11	2.41	4.84	7.86	11.10	12.75	14.07	14.04	9.51	88.60
1966-67	6.20	2.55	1.58	1.89	2.52	4.43	3.72	8.22	10.20	12.71	11.63	7.41	73.06
1967-68	6.32	2.94	1.49	1.83	2.35	3.72	6.54	10.23	12.60	12.77	11.04	9.09	80.92
1968-69	5.24	2.58	1.24	1.40	1.57	4.03	5.76	9.30	9.78	12.28	12.56	8.70	74.44
1969-70	5.43	3.27	1.83	1.95	2.97	4.56	6.09	10.85	11.85	13.49	13.36	10.23	85.88
1970-71	6.63	3.51	1.36	1.74	2.77	5.61	6.63	8.49	12.51	14.38	13.30	9.93	86.86
1971-72	6.32	3.39	1.46	2.33	3.47	6.94	7.89	11.28	12.03	16.09	12.93	9.33	93.46
1972-73	5.24	2.43	1.71	2.20	2.55	3.69	7.17	10.20	13.83	15.78	13.14	10.56	88.50
1973-74	6.79	3.69	1.89	1.83	3.42	4.28	7.02	12.06	14.82	15.13	14.32	11.82	97.07
1974-75	5.64	3.24	2.20	2.51	2.52	3.97	5.70	11.53	15.72	16.93	15.53	10.68	96.17
1975-76	6.39	3.87	2.45	3.69	3.61	6.11	8.04	13.86	15.68	15.93	13.27	8.88	101.78
1976-77	6.17	3.72	2.76	2.14	3.75	5.49	10.05	9.36	15.03	18.45	15.41	11.52	103.85
1977-78	7.56	4.47	2.70	1.77	2.55	4.34	6.15	12.21	15.36	16.34	14.82	8.76	97.03
1978-79	7.56	3.24	1.67	2.14	2.18	4.37	7.83	11.87	15.08	15.97	13.36	10.98	96.25
1979-80	6.14	3.42	2.39	2.05	2.63	4.22	7.23	8.46	12.39	14.23	14.14	9.78	87.08
1980-81	6.96	4.05	2.82	2.39	3.11	3.94	7.98	11.56	17.16	17.92	15.69	11.34	104.92
1981-82	5.55	3.66	2.36	2.08	3.06	3.66	6.84	11.19	12.15	15.28	13.36	8.28	87.47
1982-83	5.77	2.70	1.80	2.11	2.10	3.78	5.67	10.91	13.32	14.32	10.11	9.81	82.40
1983-84	5.30	2.43	1.86	2.82	3.22	5.83	7.71	13.61	14.22	13.14	12.06	10.20	92.40
1984-85	5.95	2.73	1.92	2.26	3.00	4.56	8.76	12.43	15.18	16.03	14.76	8.79	96.37
1985-86	6.42	3.09	1.74	2.51	2.60	4.56	8.31	12.28	14.82	15.56	15.25	9.60	96.74
1986-87	5.98	3.81	2.11	1.83	3.30	4.46	8.52	10.45	14.19	15.59	15.31	10.74	96.29
1987-88	6.85	3.18	1.77	2.29	3.67	6.94	7.56	10.45	12.38	15.25	12.74	9.84	92.92
1988-89	6.73	3.24	1.95	2.23	2.74	6.01	9.90	12.43	14.94	18.07	14.88	9.93	103.05
1989-90	6.54	4.38	2.98	2.60	2.97	5.80	8.73	12.25	15.36	17.48	14.85	10.95	104.89
1990-91	8.40	4.02	2.54	2.48	3.84	3.75	7.98	10.35	12.96	14.07	12.65	9.60	92.64
1991-92	7.44	5.61	4.71	4.25	4.37	5.86	9.45	11.56	12.36	14.14	14.20	10.53	104.48
1992-93	6.48	4.32	4.37	3.64	4.34	4.99	7.92	10.79	12.15	14.57	13.18	9.66	96.41
1993-94	6.12	3.83	1.98	2.33	2.51	5.44	7.35	9.99	14.93	15.80	14.96	9.75	94.99
1994-95	6.06	2.95	1.94	1.34	3.09	3.59	5.83	6.64	11.12	14.96	14.20	11.02	82.74
1995-96	7.75	4.31	2.43	2.65	1.96	5.20	9.14	12.78	14.88	15.78	14.03	10.50	101.41
1996-97	6.51	3.36	1.94	1.45	3.23	6.22	8.33	12.51	12.59	13.66	13.33	9.30	92.43
1997-98	6.64	2.61	2.07	1.51	0.91	3.91	5.44	6.21	10.42	13.95	13.83	8.59	76.09
1998-99	6.18	3.09	2.55	2.75	2.88	4.71	5.58	10.74	13.18	14.56	12.93	10.54	89.69
MEAN	6.26	3.34	2.17	2.20	2.77	4.70	7.09	10.33	13.09	14.77	13.31	9.67	89.70

ISABELLA RESERVOIR EVAPORATION

April 1954 to Date

Quantities in acre-feet

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1954				181	1,662	2,554	2,599	1,563	833	436	192	109	10,129
1955	72	117	236	141	526	1,547	1,705	1,375	847	542	258	190	7,556
1956	407	788	1,444	1,797	3,330	5,496	6,084	5,484	4,183	2,056	1,650	897	33,616
1957	628	724	1,258	1,823	2,210	4,588	5,173	4,512	3,068	1,588	1,107	700	27,379
1958	593	494	734	2,043	4,470	6,462	7,720	6,843	4,729	3,521	1,603	1,307	40,519
1959	1,021	811	2,148	2,880	3,711	4,983	4,439	3,503	2,263	1,728	1,087	684	29,258
1960	323	466	1,099	1,505	2,287	3,372	2,720	2,128	1,379	783	341	280	16,683
1961	315	319	419	780	1,158	2,178	2,204	1,200	930	647	329	168	10,647
1962	188	182	446	1,105	2,307	4,128	4,840	4,084	2,880	1,684	916	770	23,530
1963	694	930	1,523	1,577	3,503	5,534	8,202	6,696	4,136	2,289	1,172	962	37,218
1964	916	1,105	1,418	2,162	3,221	4,584	4,842	3,915	2,836	2,057	849	635	28,540
1965	595	857	1,053	1,368	3,251	4,757	5,986	5,397	4,169	3,098	1,103	656	32,290
1966	843	833	1,555	2,624	4,159	5,117	5,246	4,576	2,821	1,819	767	928	31,288
1967	970	1,071	1,874	1,700	3,931	5,960	8,805	8,051	4,574	3,578	1,597	744	42,855
1968	801	930	1,380	2,511	4,243	5,574	5,258	4,048	3,239	1,954	991	476	31,405
1969	494	668	1,511	1,886	4,334	6,486	8,916	9,046	5,911	3,560	1,968	980	45,760
1970	885	1,289	1,935	2,593	4,954	6,051	6,959	6,376	4,597	3,010	1,623	619	40,891
1971	700	990	1,836	2,277	3,181	5,337	6,227	5,233	3,678	2,370	1,304	545	33,678
1972	729	1,000	1,807	2,045	3,096	3,512	4,154	2,703	1,816	1,059	524	355	22,800
1973	434	496	760	1,738	4,009	7,698	9,126	7,109	5,530	3,564	1,981	966	43,411
1974	825	1,347	1,622	3,023	6,119	9,055	9,630	8,904	7,073	3,308	1,864	1,166	53,936
1975	1,174	1,002	1,476	2,162	4,911	8,206	8,936	7,488	4,887	2,957	1,845	1,125	46,169
1976	1,468	1,291	1,952	2,537	4,552	5,226	4,560	3,261	2,108	1,609	984	702	30,250
1977	466	700	968	1,761	1,765	3,289	3,757	2,495	1,795	1,216	726	428	19,366
1978	343	621	1,597	2,698	5,891	9,253	10,969	9,945	6,020	5,115	2,049	996	55,497
1979	1,069	954	1,896	3,701	6,337	9,080	9,535	7,242	5,710	3,306	1,866	1,246	51,942
1980	1,047	1,375	2,229	3,715	4,943	8,289	10,374	10,171	6,637	4,544	2,446	1,565	57,335
1981	1,154	1,317	1,619	3,386	5,371	8,644	8,660	6,966	5,028	2,582	1,747	1,067	47,541
1982	827	1,093	1,333	3,172	6,563	8,180	10,967	9,418	5,732	4,086	1,769	1,053	54,193
1983	1,097	1,057	2,182	3,235	5,905	9,255	10,645	7,630	7,337	3,814	1,656	1,188	55,001
1984	1,624	1,547	2,545	3,594	7,055	8,327	7,914	7,142	6,085	3,642	1,642	1,103	52,220
1985	1,139	1,287	1,749	3,894	6,375	8,622	9,025	7,650	4,441	3,287	1,577	885	49,931
1986	1,119	1,150	2,323	4,740	7,436	10,088	10,933	10,276	6,361	3,866	2,329	1,206	61,827
1987	916	1,428	1,833	3,537	4,596	6,682	7,115	6,454	4,469	2,906	1,361	732	42,029
1988	823	1,178	1,962	2,132	3,148	4,141	4,667	3,318	2,493	1,777	865	500	27,004
1989	502	540	1,339	2,828	4,292	5,572	6,458	4,653	3,027	2,029	1,380	877	33,497
1990	667	649	1,148	1,755	2,705	3,713	3,993	2,872	2,035	1,609	797	480	22,423
1991	409	547	635	1,587	2,674	4,568	5,171	4,026	2,951	2,315	1,789	1,434	28,106
1992	1,137	1,016	1,295	2,218	3,459	4,132	4,542	4,024	2,910	1,862	1,285	1,238	29,118
1993	970	1,081	1,365	2,888	5,185	7,057	9,080	8,063	5,808	3,652	2,291	1,139	48,579
1994	1,170	1,063	2,212	2,945	4,253	6,827	6,833	5,585	3,431	2,221	1,099	704	38,343
1995	462	1,016	1,444	2,614	3,447	6,952	10,701	10,151	7,525	5,177	2,698	1,402	53,589
1996	1,341	914	2,646	5,072	7,928	9,967	10,681	9,076	6,587	4,019	2,053	1,139	61,423
1997	918	1,862	3,183	4,350	7,260	8,057	8,941	8,428	5,790	4,219	1,611	1,196	55,815
1998	768	415	1,817	2,807	3,586	6,714	10,102	10,163	6,050	4,296	1,981	1,472	50,171
1999	1,384	1,252	1,983	2,430	5,092	6,956	7,761	6,480	5,113	3,802	2,045	1,569	45,867
Average	809	928	1,573	2,468	4,226	6,147	7,025	5,994	4,170	2,708	1,416	882	38,346

ISABELLA RESERVOIR

HISTORICAL QUANTITIES OF MAXIMUM & MINIMUM STORAGE WITH DATE OF OCCURRENCE & CARRYOVER STORAGE

Units in Acre-Feet

Year	Maximum Annual Storage	Date of Occurrence	Minimum Annual Storage	Date of Occurrence	December 31 Carryover Storage
1954	85,380	June 9, 1954	0	April 16, 1954	8,670
1955	78,567	December 31	4,330	April 21	78,567
1956	283,033	June 30	79,823	January 1	130,313
1957	183,979	June 20	101,074	December 14	101,413
1958	455,162	June 28	100,947	January 23	198,112
1959	207,674	May 21	71,344	December 19	71,608
1960	119,253	May 19	29,119	December 31	29,119
1961	53,096	June 17	17,410	November 19	17,524
1962	173,675	June 29	17,448	January 11	82,849
1963	369,990	June 28	82,190	January 28	170,043
1964	203,628	June 7	94,497	December 18	118,303
1965	288,937	July 9	117,117	March 23	171,193
1966	337,369	December 21	81,941	November 27	313,258
1967	538,698	July 20	199,282	December 14	199,937
1968	261,193	June 6	119,349	December 7	124,480
1969	578,116	July 14	124,283	January 12	225,535
1970	327,771	June 10	156,517	November 24	172,038
1971	240,996	June 22	120,161	November 25	122,040
1972	126,754	June 11	50,030	October 16	55,589
1973	399,448	June 29	55,449	January 7	205,948
1974	475,881	June 23	201,710	March 1	223,930
1975	348,695	June 17	169,893	December 17	170,190
1976	171,617	January 26	67,668	December 29	67,701
1977	82,347	June 16	34,504	December 16	43,820
1978	491,451	July 16	44,060	January 1	244,904
1979	442,035	June 11	208,632	December 30	208,768
1980	585,381	July 3	208,224	January 7	229,813
1981	312,456	June 7	166,907	December 27	168,210
1982	560,083	June 29	168,984	January 1	261,558
1983	630,825	July 6	260,010	January 9	311,944
1984	407,745	June 7	244,755	December 15	244,979
1985	388,621	June 13	189,823	November 23	195,516
1986	562,134	June 16	195,579	January 1	244,085
1987	276,266	June 7	142,661	December 1	143,410
1988	158,189	June 6	72,638	December 9	73,545
1989	184,801	June 1	71,111	February 18	85,978
1990	97,420	June 12	45,895	December 18	46,014
1991	175,558	June 19	45,300	February 27	89,654
1992	153,942	June 5	82,080	December 28	82,262
1993	416,982	June 29	82,189	January 1	242,525
1994	262,332	June 6	115,492	December 24	115,585
1995	551,921	July 19	115,492	January 3	246,474
1996	546,849	June 11	244,979	December 4	252,811
1997	491,994	June 6	242,450	December 30	242,525
1998	562,474	July 24	242,005	January 31	244,904
1999	334,267	June 8	169,341	December 31	169,341

DANGER
SWIMMERS

Kern River Operations 1999

This river is extremely dangerous between June and September. Every year there have been numerous swimmers drowned.

For your own safety, we recommend you--

Do Not Swim in this river!

CHARLES H. DODGE, SHERIFF
COUNTY OF KERN

SFIELD PRINTING CO.

KERN RIVER IN REVIEW
1999

Introduction

High Kern River stream flows attributed to the strong El Niño condition of the 1997-98 winter persisted well into the fall of 1998. Fed by large patches of snow at high elevations of the watershed still evident in late August, the Kern River maintained above average flow levels until the end of December, 1998. As the 1999 water year began, a major basin-wide cooling of the Tropical Pacific was underway, signaling the end of the El Niño climatic pattern and the beginning of a La Niña event. (La Niña is characterized by the unusually cold sea surface temperatures in the eastern equatorial Pacific.) Historically, La Niña conditions tilt towards dry precipitation patterns in California. This relationship held true for the southern Sierra region of California as the Kern River Basin yielded only 53% of its average First Point April-July runoff during 1999.



City Water office on Buena Vista Rd.



Mt. Whitney

While El Niño is known for its wet, unsettled weather patterns, La Niña conditions can also result in dramatic and unusual weather events. This was the case on January 25, 1999 when a cold storm front swept through southern California, dropping an unprecedented 4-5 inches of heavy wet snow in Bakersfield (photo above left). The overall storm characteristics, including temperature profiles, wind directions, cloud behavior and precipitation types, were some of the most unusual recorded in several decades over the southern Sierra and adjacent Valley areas. The last snowfall event of this magnitude in the southern San Joaquin Valley occurred on January 22, 1962.

Precipitation

Monthly precipitation amounts in inches as recorded at selected Kern County stations during the 1998-99 Water Year were as follows:

	Bakersfield-Meadows Field (Elev. 494 ft.)			Isabella Dam (Elev. 2660 ft.)			Glennville (Elev. 3140 ft.)		
	98-99	Ave.	% of Ave.	98-99	Ave.	% of Ave.	98-99	Ave.	% of Ave.
Oct	0.24	0.29	83%	0.12	0.33	36%	0.57	0.72	79%
Nov	0.46	0.70	66%	1.03	1.19	87%	2.04	2.12	96%
Dec	0.55	0.63	87%	0.60	1.86	32%	1.36	2.77	49%
Jan	3.90	0.86	453%	3.82	2.51	152%	6.50	3.79	172%
Feb	0.46	1.06	43%	0.51	2.14	24%	1.66	3.14	53%
Mar	0.21	1.04	20%	0.57	1.72	33%	1.26	3.34	38%
Apr	0.83	0.57	146%	1.65	0.70	236%	2.00	1.83	109%
May	0.00	0.20	0%	0.98	0.26	377%	0.03	0.76	4%
Jun	0.00	0.10	0%	0.00	0.09	0%	0.01	0.16	6%
Jul	0.00	0.01	0%	0.04	0.12	33%	0.20	0.04	500%
Aug	0.00	0.09	0%	0.00	0.17	0%	0.00	0.14	0%
Sep	0.08	0.17	47%	0.39	0.35	111%	0.04	0.44	9%
TOTAL	**6.73**	**5.72**	**118%**	**9.71**	**11.46**	**85%**	**15.67**	**19.26**	**81%**

The first quarter of the 1998-1999 water year typified a La Niña effect with much below normal precipitation. The dry winter pattern continued until the last half of January 1999 when a series of Pacific storm events increased the meager snowpack three-fold in the Kern River watershed. February and March were extremely dry, eliminating any real chance of an abundant Kern River runoff. Late season April storms dumped 1.65" at Isabella Dam, the fifth highest April rainfall total over the past 50 years, helping to boost the expected low yield of the Kern River.

Temperature

Isabella, California 1999, mean air temperatures (°F) with comparative averages were as follows:

	1999 Actual	Normal	Variance from Norm		1999 Actual	Normal	Variance from Norm
Jan	47.9	44.2	+3.7	Jul	78.9	79.2	- 0.3
Feb	48.1	47.2	+0.9	Aug	77.5	78.0	- 0.5
Mar	49.1	50.3	- 1.2	Sep	75.9	71.9	+4.0
Apr	52.2	55.4	- 3.2	Oct	68.0	61.9	+6.1
May	63.8	63.1	+0.7	Nov	56.4	51.1	+5.3
Jun	72.3	72.5	- 0.2	Dec	47.8	44.4	+3.4

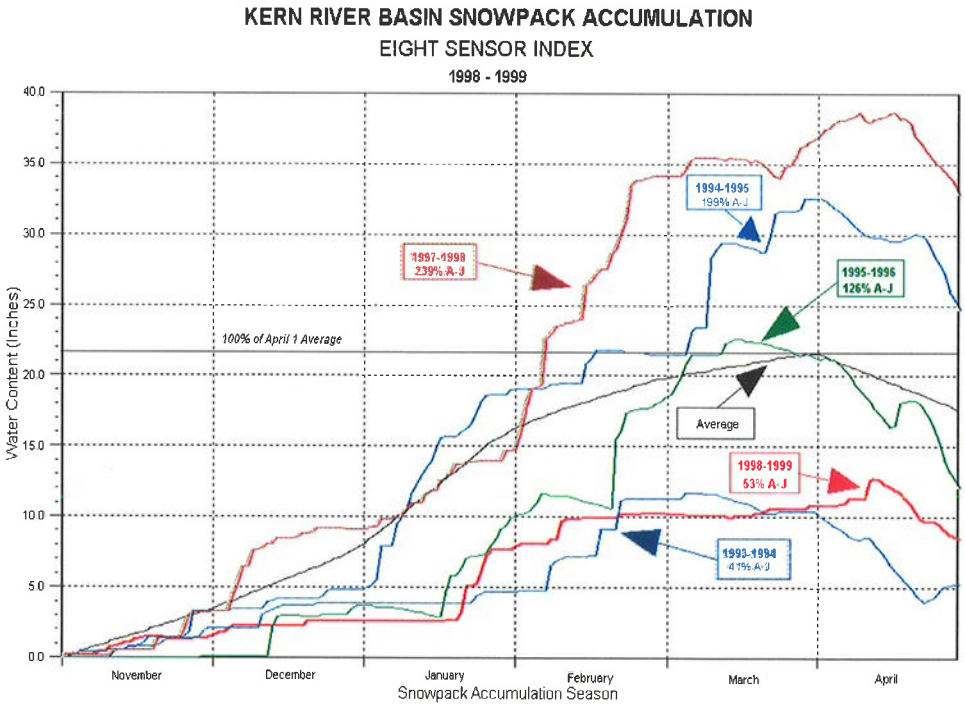
The mean annual temperature for 1999 was 61.5° Fahrenheit, 1.6° above the long-term average. Temperature extremes reached 101°F during a three day period at the end of August, with the low of 29°F occurring on January 28th and April 1st, 1999. Temperatures over the last four months of 1999 were all well above normal, making it the 2nd warmest for this period on record.

Snowpack

Listed below are readings, in inches of water content, for the eight remote snow sensor sites located within the Kern River basin on April 1, 1999, with April 1st historical average water contents of same shown for comparison:

	Upper Tyndall Creek	Crabtree Meadow	Chagoopa Plateau	Pascoe	Wet Meadow	Tunnel Guard	Casa Vieja Meadow	Beach Meadows
April 1, 1999	12.8	7.7	13.5	22.3	13.7	1.6	11.1	0.6
April 1 Average	27.7	19.8	21.8	24.9	30.3	15.6	20.9	11.0

As graphed at right, snowpack accumulation within the Kern River Basin maintained an average track through the first half of November. The snowpack curve showed little positive change during December 1998 and first half of January 1999 due to lack of precipitation. Intense storm activity during the remainder of January made up for much of the preceding early winter dry spell. A brief interval of storm activity during February was slightly negated by above normal temperatures in early March which depleted the lower elevation snowpack, resulting in an April 1st snowpack of only 50% of the basin average. April storms brought about the most significant rainfall for the month since April of 1974, extending the snowpack season two weeks past the normal April 1st maximum accumulation date.

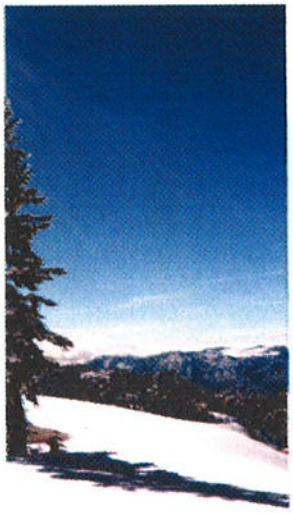


CITY OF BAKERSFIELD WATER RESOURCES DEPARTMENT

Forecast

The State of California, Department of Water Resources, issued the following forecasts of Kern River runoff into Isabella Reservoir for the 1999 April-July snowmelt period:

February 1, 1999:	75% of average (330,000 acre-feet)
March 1, 1999:	70% of average (310,000 acre-feet)
April 1, 1999:	59% of average (260,000 acre-feet)
May 1, 1999:	61% of average (270,000 acre-feet)



Looking southwest from Sherman Pass Road

Runoff



Kern River above Kernville

Actual 1999 April-July Kern River inflow to Isabella Reservoir was **245,860** acre-feet (**56%** of average). April-July runoff at First Point during 1999 was **252,627** acre-feet, **53%** of the long-term average. Peak inflow to Isabella Reservoir occurred on May 27, 1999 with 2,047 cfs. Calendar year runoff at First Point of Measurement, bolstered by the beneficial antecedent conditions existing in the watershed at the end of 1998, equaled **433,971** acre-feet, **59%** of the long-term average (739,097 acre-feet) and **79%** of the historical median (552,615 acre-feet).

By early October of 1999, the natural flow of Kern River had receded to 174 cfs, its minimum flow rate for the 1999 calendar year and lowest point of river flow since September of 1994. During the October-December period of 1999, the Kern River watershed received only 5% of its normal precipitation amount, providing for little recovery to the low runoff condition.

Storage

Reservoir storage for 1999 began at **244,904** acre-feet. Isabella Reservoir year end storage was **169,341** acre-feet, constituting **30%** of the lake capacity and **107%** of the average December 31st carryover storage figure of **157,543** acre-feet.

ISABELLA RESERVOIR
Peak Storage Levels in Acre-Feet
Preceding Ten Years

1999	334,267
1998	562,474
1997	491,994
1996	546,849
1995	551,921
1994	262,332
1993	416,982
1992	153,942
1991	175,558
1990	97,420

- MAXIMUM 1999 STORAGE = 334,267 Acre-Feet (June 8, 1999)
- MINIMUM 1999 STORAGE = 169,341 Acre-Feet (December 31, 1999)

Operations

Kern River regulated flow during the 1999 calendar year amounted to **461,621** acre-feet, **63%** of the 1954-1999 average regulated flow at First Point of Measurement of **734,287** acre-feet. Peak regulated flow during 1999 occurred on June 18th, with a mean daily discharge of 1,532 cubic feet per second.

The total water yield of the Kern River drainage basin and its surface storage reservoir in acre-feet during 1999 is summarized as follows:

+ Kern River Computed Natural Flow	433,971
+ Isabella Reservoir Storage	75,563
- Isabella Reservoir Evaporation	45,867
- Kern River Diversion Above First Point	2,480
+ Rio Bravo Well	434
= Kern River Regulated Flow at First Point	461,621



Houghton Inlet off Rosedale Channel



Calloway River Weir during the 1952 flood

The delivery of ***Kern River*** water to canal and conveyance facilities located below First Point of Measurement during 1999 was as follows:

Delivery Point	Flow in Acre-Feet
Beardsley Canal	154,569
Calloway Canal (net of river loss)	43,074
Kern Island Canal	122,381
Eastside Canal	17,214
Stine Canal	12,861
Truxtun Lakes	719
Arvin-Edison Turnout	36,502
Buena Vista Canal	16,762
James Canal	599
Rosedale Channel	8,948
Pioneer Property	684
2800 Acre Recharge Facility	2,953
Second Point of Measurement	12,353
Seepage Loss (River & Carrier)	32,002



Vehicle in the Beardsley Canal just upstream of 7th Standard Road

Unseasonable warmth during the fall of 1999 resulted in above normal demands for irrigation water throughout the Kern River Service Area. Storage withdrawals from Isabella Reservoir continued without interruption through the 29th of October at which time a natural flow operation at Isabella was declared. During November 1999, a Y2K power flow storage program was entered into between Southern California Edison Company and the Kern River Watermaster enabling KR#1 power generation entitlement to be temporarily stored in Lake Isabella for subsequent release into the Borel Canal beginning December 31, 1999, providing energy reserves for the Kern River Valley in the event of a Y2K emergency.

DISCHARGE IN CUBIC FEET PER SECOND — Kern River at First Point of Measurement "Computed Natural" — Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	497	630	645	650	1,033	1,613	707	317	205	203	191	189
2	492	619	659	622	978	1,521	768	304	206	192	201	204
3	495	617	694	614	953	1,361	709	319	218	188	208	211
4	472	616	715	607	943	1,226	691	346	231	174	217	210
5	469	604	708	609	987	1,086	648	359	224	179	210	192
6	473	573	675	623	1,077	1,015	628	332	228	179	202	188
7	485	683	641	624	1,203	975	580	310	219	179	193	195
8	477	1,008	629	654	1,338	987	560	284	217	177	195	198
9	467	881	611	683	1,404	1,077	607	269	192	178	199	213
10	445	1,129	592	735	1,459	1,160	654	254	189	182	210	207
11	453	721	588	749	1,527	1,250	728	270	188	193	222	216
12	460	699	565	766	1,613	1,263	727	294	198	190	219	223
13	470	708	576	805	1,980	1,314	735	311	208	186	218	237
14	476	707	575	889	1,753	1,363	681	280	199	185	206	242
15	451	696	577	969	1,623	1,387	652	260	197	194	209	226
16	459	687	563	1,079	1,503	1,381	585	271	192	187	199	214
17	474	667	561	1,124	1,471	1,343	569	289	198	178	202	207
18	505	683	571	1,175	1,587	1,337	527	305	203	189	196	223
19	676	677	573	1,188	1,683	1,323	496	291	194	202	204	226
20	1,285	690	568	1,249	1,739	1,272	448	295	197	215	214	242
21	1,116	664	583	1,330	1,743	1,190	431	283	211	203	227	238
22	643	646	620	1,356	1,717	1,106	403	280	228	205	222	241
23	628	626	622	1,305	1,725	1,028	384	267	242	198	204	227
24	779	625	632	1,208	1,737	992	356	266	237	196	194	208
25	1,160	618	638	1,107	1,851	963	332	264	224	188	192	198
26	1,002	620	663	1,105	1,916	938	323	259	217	186	203	198
27	690	629	665	1,106	2,077	866	322	237	209	186	215	208
28	601	631	675	1,105	1,959	800	326	208	216	197	218	211
29	622	-	669	1,069	1,898	771	330	202	218	210	211	205
30	643	-	676	1,049	1,838	745	329	202	221	198	194	197
31	653	-	679	-	1,681	-	327	210	-	189	-	189
TOTAL	19,018	19,354	19,408	28,154	47,996	34,653	16,563	8,638	6,326	5,906	6,195	6,583
MAXIMUM DAY	1,285	1,129	715	1,356	2,077	1,613	768	359	242	215	227	242
MINIMUM DAY	445	573	561	607	943	745	322	202	188	174	191	188
MEAN	613	691	626	938	1,548	1,155	534	279	211	191	207	212
TOTAL AC. FT.	37,722	38,388	38,495	55,843	95,199	68,733	32,852	17,133	12,547	11,714	12,288	13,057

WHOLE YEAR:- TOTAL, 218,794 MAX., 2,077 MIN., 174 MEAN, 599 TOTAL AC.FT., 433,971

DISCHARGE IN CUBIC FEET PER SECOND

Kern River North Fork Flow at Kernville
(As reported by U.S. Army Corps of Engineers)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	354	421	429	429	787	1,632	641	213	190	157	167	190
2	352	415	461	423	814	1,589	673	206	200	157	166	181
3	350	426	479	462	832	1,368	648	200	215	155	165	191
4	337	454	485	420	773	1,160	566	193	210	152	165	171
5	342	426	487	453	785	1,013	522	195	197	151	165	183
6	346	411	462	447	915	955	489	188	189	155	167	182
7	322	454	441	434	1,091	1,036	466	188	184	159	168	182
8	332	660	408	422	1,264	1,092	471	181	181	159	177	182
9	329	666	411	437	1,386	1,121	494	164	178	154	199	166
10	325	627	387	461	1,334	1,135	555	159	177	151	190	186
11	331	521	394	477	1,337	1,169	638	185	179	148	185	173
12	268	557	375	454	1,552	1,193	640	208	178	145	185	169
13	320	522	384	477	1,874	1,229	546	202	178	144	183	199
14	385	496	413	561	1,709	1,287	653	192	174	143	180	202
15	342	493	384	592	1,449	1,355	557	188	171	145	180	180
16	350	457	391	703	1,326	1,275	482	183	171	145	181	184
17	349	457	397	864	1,297	1,181	427	180	169	147	184	188
18	345	492	398	809	1,460	1,165	378	176	168	152	179	182
19	347	492	447	883	1,599	1,208	358	172	184	173	178	183
20	782	481	443	992	1,607	1,187	334	171	196	165	227	180
21	682	447	425	1,093	1,643	1,135	313	172	181	163	228	179
22	500	420	404	1,170	1,601	1,005	295	173	183	162	202	173
23	496	414	428	1,054	1,579	956	283	177	210	162	186	172
24	522	420	457	892	1,615	984	272	177	233	164	182	172
25	637	437	484	824	1,678	964	263	177	209	164	181	170
26	530	422	487	843	1,856	853	257	195	192	166	189	169
27	454	415	498	920	2,011	744	246	212	181	168	195	173
28	441	451	499	930	1,982	706	210	214	171	171	195	167
29	458	-	508	859	2,005	665	205	208	163	175	187	157
30	460	-	486	824	1,803	675	211	203	161	171	195	161
31	467	-	484	-	1,617	-	212	196	-	170	-	167
TOTAL	12,855	13,354	13,636	20,609	44,581	33,037	13,305	5,848	5,573	4,893	5,531	5,514
MAXIMUM DAY	782	666	508	1,170	2,011	1,632	673	214	233	175	228	202
MINIMUM DAY	268	411	375	420	773	665	205	159	161	143	165	157
MEAN	415	477	440	687	1,438	1,101	429	189	186	158	184	178
TOTAL AC. FT.	25,498	26,487	27,047	40,877	88,425	65,528	26,390	11,599	11,054	9,705	10,971	10,937

WHOLE YEAR:- TOTAL, 178,736 MAX., 2,011 MIN., 143 MEAN, 490 TOTAL AC.FT., 354,518

DISCHARGE IN CUBIC FEET PER SECOND | Kern River at First Point of Measurement "Regulated" | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	497	699	554	473	509	772	1,344	1,203	733	459	180	242
2	491	748	573	437	576	812	1,392	1,385	739	450	174	267
3	470	887	643	398	615	797	1,375	1,427	726	442	165	272
4	464	888	638	416	581	695	1,409	1,457	598	460	166	263
5	455	891	589	355	558	600	1,426	1,439	500	488	172	216
6	457	884	463	457	558	521	1,307	1,307	537	430	179	211
7	452	907	481	432	606	611	1,333	1,131	657	417	168	223
8	449	929	502	459	617	790	1,345	1,109	660	366	149	241
9	441	954	483	457	633	1,147	1,398	1,180	677	280	143	280
10	437	930	484	464	641	1,262	1,381	1,220	702	261	142	289
11	437	902	522	461	618	1,280	1,290	1,202	745	331	163	246
12	436	897	500	457	664	1,206	1,320	1,121	681	407	158	243
13	424	829	437	481	721	1,250	1,296	996	673	451	154	256
14	422	667	427	488	694	1,345	1,351	826	631	431	156	261
15	409	604	433	490	592	1,480	1,483	914	576	342	156	267
16	417	600	431	463	543	1,452	1,522	1,263	600	225	168	224
17	418	563	435	465	579	1,447	1,483	1,202	689	186	213	226
18	420	576	418	460	609	1,532	1,325	1,039	602	320	208	249
19	416	590	429	469	592	1,153	1,228	887	592	325	221	273
20	489	566	447	465	607	935	1,201	791	587	319	245	295
21	651	612	440	528	600	970	1,226	749	592	308	183	356
22	651	623	432	536	537	1,105	1,204	752	629	300	177	374
23	646	661	441	557	535	1,240	1,009	855	562	250	177	300
24	656	663	446	581	640	1,220	892	901	532	226	209	216
25	777	650	476	589	657	1,165	879	925	469	296	205	192
26	733	637	417	656	658	1,044	954	851	432	303	210	204
27	681	612	405	643	708	1,067	1,086	695	523	305	208	266
28	660	655	436	574	675	1,119	1,330	704	565	297	211	280
29	673	-	419	575	652	1,191	1,417	920	603	265	205	278
30	682	-	468	577	675	1,266	1,396	1,019	542	199	204	265
31	686	-	457	-	744	-	1,189	881	-	183	-	394
TOTAL	16,397	20,624	14,726	14,863	19,194	32,474	39,791	32,351	18,354	10,322	5,469	8,169
MAXIMUM INSTANT.	870	1,001	747	821	826	1,707	1,571	1,480	926	550	344	660
MINIMUM INSTANT.	186	471	358	86	416	484	789	615	211	171	128	186
MEAN	529	737	475	495	619	1,082	1,284	1,044	612	333	182	264
TOTAL AC. FT.	32,523	40,907	29,209	29,480	38,071	64,411	78,924	64,167	36,405	20,473	10,848	16,203

WHOLE YEAR:- TOTAL, 232,734 MAX., 1,707 MIN., 86 MEAN, 638 TOTAL AC.FT., 461,621

DISCHARGE IN CUBIC FEET PER SECOND | Kern River Conduit at Alternate Second Point (Total Flow) | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	180	22	0	0	0	52	82	0	0	0	0
2	0	248	0	0	0	0	98	71	0	0	0	0
3	0	265	0	0	0	0	191	76	0	0	0	0
4	0	272	0	0	0	0	193	69	0	0	0	0
5	0	264	0	0	0	0	94	63	0	0	0	0
6	0	266	0	38	0	0	0	78	0	0	0	0
7	0	266	0	4	0	0	13	86	0	0	0	0
8	0	268	0	3	0	23	25	94	0	0	0	0
9	0	243	0	0	0	76	21	92	0	0	0	0
10	0	189	0	0	0	127	24	86	0	0	0	0
11	0	123	0	0	0	161	23	57	0	0	0	0
12	0	73	0	0	0	143	93	37	0	0	0	0
13	0	45	0	0	0	149	109	44	0	0	0	0
14	0	20	0	0	0	108	124	51	0	0	0	0
15	0	0	0	0	0	79	154	48	0	0	0	0
16	0	0	0	0	0	115	155	45	0	0	0	0
17	0	32	0	0	0	140	154	49	0	0	0	0
18	0	103	20	0	0	225	155	44	0	0	0	0
19	0	177	27	0	0	141	84	51	0	0	0	0
20	0	196	38	0	0	80	66	53	0	0	0	0
21	0	196	19	0	0	47	61	53	0	0	0	0
22	0	196	7	0	0	39	87	57	0	0	0	0
23	0	196	0	0	0	41	78	41	0	0	0	0
24	0	196	0	0	0	27	62	49	0	0	0	0
25	0	195	0	0	0	40	51	42	0	0	0	0
26	0	158	0	0	0	50	57	24	0	0	0	0
27	0	147	0	0	0	57	51	0	0	0	0	0
28	83	73	19	0	0	58	47	0	0	0	0	0
29	182	-	22	0	0	41	36	0	0	0	0	0
30	181	-	0	0	0	45	50	0	0	0	0	0
31	173	-	0	-	0	-	47	0	-	0	-	0
TOTAL	619	4,587	174	45	0	2,012	2,455	1,542	0	0	0	0
MAXIMUM DAY	182	272	38	38	0	225	193	94	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	20	164	6	2	0	67	79	50	0	0	0	0
TOTAL AC. FT.	1,228	9,098	345	89	0	3,991	4,869	3,059	0	0	0	0

WHOLE YEAR:- TOTAL, 11,434 MAX., 272 MIN., 0 MEAN, 31 TOTAL AC.FT., 22,679

DISCHARGE IN CUBIC FEET PER SECOND | Kern River Channel at Second Point of Measurement (Total Flow) | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	30	0	0	0	0	0	0	0	0	0	0	0
2	39	0	0	0	0	0	0	0	0	0	0	0
3	44	34	0	0	0	0	0	0	0	0	0	0
4	57	161	0	0	0	0	0	0	0	0	0	0
5	62	207	0	0	0	0	0	0	0	0	0	0
6	49	204	0	0	0	0	0	0	0	0	0	0
7	44	206	0	0	0	0	0	0	0	0	0	0
8	30	207	0	0	0	0	0	0	0	0	0	0
9	0	145	0	0	0	0	0	0	0	0	0	0
10	0	51	0	0	0	0	0	0	0	0	0	0
11	0	12	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	355	1,227	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	62	207	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	11	44	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	704	2,434	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 1,582 MAX., 207 MIN., 0 MEAN, 4 TOTAL AC.FT., 3,138

DISCHARGE IN CUBIC FEET PER SECOND — Friant-Kern Inflow to Kern River Channel (Total Flow) — Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	210	558	0	0	50	0	0	0	0	0	0	140
2	282	593	0	0	50	0	0	0	0	0	0	140
3	282	665	0	0	50	0	0	0	0	0	0	140
4	360	687	0	0	50	0	0	0	0	0	0	100
5	385	686	0	0	78	0	0	0	0	0	0	80
6	370	686	0	0	90	0	0	0	0	0	0	80
7	370	686	0	0	90	0	0	0	0	0	0	100
8	208	686	0	0	90	0	0	0	0	0	0	110
9	0	500	0	0	55	0	0	0	0	0	0	0
10	0	374	0	0	15	0	0	0	0	0	0	2
11	0	304	0	0	0	0	0	0	0	0	0	4
12	0	244	0	0	0	0	0	0	0	0	0	4
13	0	221	0	0	0	0	0	0	0	0	0	10
14	0	306	0	0	0	0	0	0	0	0	0	10
15	0	377	0	0	0	0	0	0	0	0	0	8
16	0	390	0	0	0	0	0	0	0	0	0	4
17	0	383	0	0	0	0	0	0	0	0	0	0
18	0	487	0	0	0	0	0	0	0	0	0	0
19	0	607	0	0	0	0	0	0	0	0	0	0
20	0	656	0	0	0	0	0	0	0	0	0	0
21	0	665	0	0	0	0	0	0	0	0	0	0
22	0	615	0	0	0	0	0	0	0	0	0	0
23	0	628	0	0	0	0	0	0	0	0	0	0
24	0	675	0	27	0	0	0	0	0	0	0	0
25	0	675	0	50	0	0	0	0	0	0	0	0
26	0	642	0	50	0	0	0	0	0	0	0	0
27	73	625	0	50	0	0	0	0	0	0	0	0
28	232	396	0	50	0	0	0	0	0	0	0	0
29	455	-	0	50	0	0	0	0	0	0	0	0
30	557	-	0	50	0	0	0	0	0	0	17	0
31	570	-	0	-	0	-	0	0	-	0	-	0
TOTAL	4,354	15,017	0	327	618	0	0	0	0	0	17	932
MAXIMUM DAY	570	687	0	50	90	0	0	0	0	0	17	140
MINIMUM DAY	0	221	0	0	0	0	0	0	0	0	0	0
MEAN	140	536	0	11	20	0	0	0	0	0	1	30
TOTAL AC. FT.	8,636	29,785	0	648	1,227	0	0	0	0	0	35	1,848

WHOLE YEAR:- TOTAL, 21,265 MAX., 687 MIN., 0 MEAN, 58 TOTAL AC.FT., 42,179

DISCHARGE IN CUBIC FEET PER SECOND — Friant-Kern Inflow to Poso Creek Channel (Total Flow) — Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	50	0	0	0	0	0	0	0
2	0	0	0	0	21	0	0	0	0	0	0	0
3	0	0	0	0	21	0	0	0	0	0	0	0
4	0	0	0	0	42	0	0	0	0	0	0	0
5	0	0	0	0	51	0	0	0	0	0	0	0
6	0	0	0	0	50	0	0	0	0	0	0	0
7	0	0	0	0	50	0	0	0	0	0	0	0
8	0	0	0	0	21	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	30	0	0	0	0	0	0	0
11	0	0	0	0	50	0	0	0	0	0	0	0
12	0	0	0	0	50	0	0	0	0	0	0	0
13	0	0	0	0	50	0	0	0	0	0	0	0
14	0	0	0	0	50	53	0	0	0	0	0	0
15	0	0	0	0	48	81	0	0	0	0	0	0
16	0	0	0	0	50	93	0	0	0	0	0	0
17	0	0	0	0	48	90	0	0	0	0	0	0
18	0	0	0	0	87	83	0	0	0	0	0	0
19	0	0	0	0	87	85	0	0	0	0	0	0
20	0	0	0	0	79	29	0	0	0	0	0	0
21	0	0	0	0	79	0	0	0	0	0	0	0
22	0	0	0	0	79	0	0	0	0	0	0	0
23	0	0	0	0	79	57	0	0	0	0	0	0
24	0	0	0	0	79	80	0	0	0	0	0	0
25	0	0	0	0	67	76	0	0	0	0	0	0
26	0	0	0	0	70	75	0	0	0	0	0	0
27	0	0	0	0	79	75	0	0	0	0	0	0
28	0	0	0	29	79	31	0	0	0	0	0	0
29	0	-	0	48	28	0	0	0	0	0	0	0
30	0	-	0	50	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	127	1,574	908	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	50	87	93	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	4	51	30	0	0	0	0	0	0
TOTAL AC. FT.	0	0	0	253	3,122	1,800	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 2,609 MAX., 93 MIN., 0 MEAN, 7 TOTAL AC.FT., 5,175

CITY OF BAKERSFIELD
SUMMARY OF KERN RIVER ENTITLEMENTS

Quantities in acre-feet

Year: 1999

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Buena Vista W.S.D. Entitlement	0	0	6,377	12,085	24,424	16,189	4,584	127	0	0	0	0	63,786
Hacienda W.D. Entitlement	0	0	0	0	0	0	0						0
K.C.L. Entitlement @ 2nd Point	0	0	127	579	1,172	777	210	4	0	0	0	0	2,869
Kern Island (1-st)	18,446	16,661	18,032	17,851	18,446	17,851	18,446	16,205	11,892	11,038	11,633	12,381	188,882
Eastside													
Kern River Conduit			13,283	16,225	20,099	17,807	8,866	121					76,401
Castro	307	278		60	111	93	0						849
KCC & W Co.	869	783		141	347	244	2						2,386
South Fork	615	555		105	238	179	2						1,694
Buena Vista (1-st)	4,683	4,312		795	1,851	1,333	12						12,986
James (1-st)	5,102	6,470		1,196	2,781	1,999	18						17,566
Anderson (1-st)	500	1,061		200	458	337	2						2,558
Stine	2,926	5,796		1,489	3,467	2,507	26						16,211
Meacham	296	250		297	694	502	4						2,043
Farmers	1,267	878		1,462	3,467	2,459	4						9,537
Plunket	311	155		373	926	635							2,400
Joyce	311	155		369	920	629							2,384
Johnson	311	155		359	875	585							2,285
Pioneer (1-st)	740	268		1,002	2,706	1,619							6,335
Beardsley (1-st)	179			266	1,216	650							2,311
Lerdo (NKWSD)													
Anderson (2-nd)	20			32	198	101							351
James & Dixon	79			113	794	383							1,369
Wilson	12			16	97	52							177
KCC & W Co.	8			10	95	50							163
McCaffrey	52			54	514	210							830
McCord: Lerdo 30%	4			34	585	173							796
Beardsley 70%	8			75	1,365	403							1,851
Calloway: Central 20%					1,335	63							1,398
NKWSD 80%					5,342	248							5,590
Railroad: KCC & W Co. 20%													0
NKWSD 80%													0
Buena Vista (2-nd)													0
James (2-nd)													0
Pioneer (2-nd)													0
Beardsley (3-rd)													0
Kern Island (2-nd)													0
Computed Loss	676	611	676	655	676	655	676	676	655	676	655	676	7,963
Total 1st Point Group Entitlement	37,722	38,388	32,118	43,758	70,775	52,544	28,268	17,006	12,547	11,714	12,288	13,057	370,185

CITY OF BAKERSFIELD
SUMMARY OF KERN RIVER FIRST POINT GROUP
KERN RIVER DIVERSIONS

Year: 1999

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FIRST POINT REGULATED FLOW	**32,523**	**40,907**	**29,209**	**29,480**	**38,071**	**64,411**	**78,924**	**64,167**	**36,405**	**20,473**	**10,848**	**16,203**	**461,621**
BEARDSLEY CANAL	6,738	12,121	11,512	11,998	15,860	21,965	29,466	20,624	11,205	5,730	1,719	5,631	154,569
CALLOWAY CANAL (Net of River Loss)	8,928	6,494	1,895	2,081	3,035	3,206	4,042	3,548	3,029	2,872	2,047	1,897	43,074
KERN ISLAND CANAL	4,052	4,106	11,187	10,481	10,885	16,532	21,007	16,243	11,421	6,865	4,261	5,341	122,381
EASTSIDE CANAL	315	579	1,135	1,779	2,606	2,807	2,567	1,975	1,628	1,353	470	0	17,214
STINE CANAL	1,521	1,601	664	0	0	58	932	5,486	1,732	867	0	0	12,861
TRUXTUN LAKES	103	109	0	0	85	73	14	75	14	0	6	240	719
ARVIN-EDISON TURNOUT	1,349	153	0	0	2,555	8,894	10,697	7,854	4,040	960	0	0	36,502
BUENA VISTA CANAL	1,603	2,362	1,101	1,269	724	3,447	2,105	1,515	1,000	313	480	843	16,762
RIVER CANAL BOOSTERS	0	0	0	0	0	0	0	0	0	0	0	0	0
JAMES CANAL	0	599	0	0	0	0	0	0	0	0	0	0	599
ROSEDALE CHANNEL	3,295	5,653	0	0	0	0	0	0	0	0	0	0	8,948
PIONEER CANAL	0	0	0	0	0	0	0	0	0	0	0	0	0
BERRENDA MESA PIPELINE	0	0	0	0	0	0	0	0	0	0	0	0	0
PIONEER PROPERTY	0	684	0	0	0	0	0	0	0	0	0	0	684
BOSWELL TURNOUT	0	0	0	0	0	0	0	0	0	0	0	0	0
2800 ACRE RECHARGE FACILITY	650	2,093	0	210	0	0	0	0	0	0	0	0	2,953
CARRIER CANAL LOSS/REFILL	270	399	204	367	722	845	944	926	688	216	674	837	7,092
RIVER LOSS & SPREADING	3,699	3,954	1,166	1,206	1,599	2,593	2,281	2,862	1,648	1,297	1,191	1,414	24,910
FIRST POINT CANALS TOTAL FLOW	**32,523**	**40,907**	**28,864**	**29,391**	**38,071**	**60,420**	**74,055**	**61,108**	**36,405**	**20,473**	**10,848**	**16,203**	**449,268**
TOTAL FLOW AT SECOND POINT	**0**	**0**	**345**	**89**	**0**	**3,991**	**4,869**	**3,059**	**0**	**0**	**0**	**0**	**12,353**
BUENA VISTA WSD	0	0	345	89	0	3,991	4,869	3,059	0	0	0	0	12,353
KERN WATER BANK	0	0	0	0	0	0	0	0	0	0	0	0	0
KERN DELTA WD	0	0	0	0	0	0	0	0	0	0	0	0	0

1999 Summary of Kern River Water Diversions by Entity

(Acre-Feet)

Area of Use	*Diverted*
Above First Point	
California Water Service Co.	151
Kern Valley Golf Course	186
La Hacienda, Inc.	45
Lake Ming	790
Olcese WD	1,308
Sub-total	2,480
Below First Point	
Arvin-Edison WSD	35,000
Buena Vista WSD	12,563
Cawelo WD	55,021
City of Bakersfield, Irrigation and Spreading	43,294
Improvement District #4	30,590
Kern County Water Agency	4,060
Kern Delta WD	169,824
North Kern WSD	95,625
Rosedale Ranch Improvement District	5,800
Rosedale-Rio Bravo WSD	8,948
South Fork	896
Sub-total	461,621
Grand Total	464,101

UTILIZATION OF STORAGE - ISABELLA RESERVOIR
KERN RIVER FIRST POINT GROUP

Year: 1999

Quantities in acre-feet

End of Month Unit Storage

STORAGE UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern Island	2,500	9,698	10,229	12,331	16,389	14,000	7,000	2,215	2,500	2,500	2,500	2,500	84,362
Buena Vista	1,500	3,338	3,306	3,624	4,757	2,973	1,502	332	619	1,500	1,500	1,500	26,451
Stine	1,500	4,629	4,586	5,411	7,619	7,442	4,381	561	0	0	0	0	36,129
Farmers	1,500	2,247	2,225	3,046	5,207	5,103	2,725	1,044	437	10	10	0	23,554
Kern Delta	56	0	0	0	0	0	0	0	0	0	0	0	56
KERN DELTA WD TOTAL	**7,056**	**19,912**	**20,346**	**24,412**	**33,972**	**29,518**	**15,608**	**4,152**	**3,556**	**4,010**	**4,010**	**4,000**	**170,552**
City of Bakersfield	13,400	17,195	22,458	30,133	40,771	39,567	30,370	8,097	4,268	5,151	7,457	6,621	225,488
Kern River Canal & Irr. Co.	27,486	16,588	15,364	14,039	14,263	13,307	11,522	9,935	8,602	7,290	6,753	6,190	151,339
South Fork	600	906	906	967	1,136	1,198	1,089	982	1,144	1,731	600	600	11,859
CITY OF BAKERSFIELD TOTAL	**41,486**	**34,689**	**38,728**	**45,139**	**56,170**	**54,072**	**42,981**	**19,014**	**14,014**	**14,172**	**14,810**	**13,411**	**388,686**
NORTH KERN WSD	**61,553**	**54,601**	**55,638**	**60,940**	**75,251**	**81,068**	**70,211**	**70,230**	**58,879**	**54,547**	**56,711**	**55,368**	**754,997**
TOTAL 1ST POINT STORAGE	**110,095**	**109,202**	**114,712**	**130,491**	**165,393**	**164,658**	**128,800**	**93,396**	**76,449**	**72,729**	**75,531**	**72,779**	**1,314,235**


Kern Delta
Water District
Kern Island Headgate
Fall 1997

KERN DELTA WATER DISTRICT

Monthly Summary of Kern River Entitlements, Diversions, Deliveries and Storage ... All Canals

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+	27,322	27,647	18,032	21,597	27,231	24,150	18,488	16,205	11,892	11,038	11,633	12,381	227,616
Release	+ or -	(18,787)	(7,847)	(5,775)	(4,720)	(2,479)	(122)	(224)	0	(787)	(3,679)	(6,286)	(5,530)	(56,236)
Entitlement + or - Releases	=	**8,535**	**19,800**	**12,257**	**16,877**	**24,752**	**24,028**	**18,264**	**16,205**	**11,105**	**7,359**	**5,347**	**6,851**	**171,380**
Into Isabella Storage	-	46	13,133	624	4,361	10,117	1,851	169	171	1,378	982	60	48	32,940
From Isabella Storage	+	0	119	0	56	0	5,536	13,408	11,322	1,855	422	0	10	32,728
From City of Bakersfield	+	0	0	0	0	0	0	0	0	0	0	0	0	0
From Buena Vista WSD	+	0	0	0	0	0	0	0	0	0	0	0	0	0
To City of Bakersfield	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Transfer/Exch.	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal Loss/Refill	-	170	195	0	0	0	0	0	0	112	65	668	738	1,948
Via North Kern WSD	-	0	0	0	0	0	962	230	0	0	0	0	0	1,192
Via Cawelo Water District	-	0	0	0	0	2,150	5,885	7,158	5,041	0	0	0	0	20,234
For Improvement District No.4	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted at Heads of Canals	=	**8,319**	**6,591**	**11,633**	**12,572**	**12,485**	**20,866**	**24,115**	**22,315**	**11,470**	**6,734**	**4,619**	**6,075**	**147,794**
From North Kern WSD	+	0	0	0	0	0	962	230	0	0	0	0	0	1,192
From Cawelo Water District	+	0	0	0	0	2,150	5,885	7,158	5,041	0	0	0	0	20,234
From Improvement District No.4	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Utility Supply	=	**8,319**	**6,591**	**11,633**	**12,572**	**14,635**	**27,713**	**31,503**	**27,356**	**11,470**	**6,734**	**4,619**	**6,075**	**169,220**
Utility Deliveries		4,950	4,110	6,559	7,692	9,458	20,996	23,279	19,323	6,168	2,636	1,546	3,212	109,929
Contract Deliveries		138	59	1,104	670	631	762	713	538	633	325	82	0	5,655
Total Irrigation Deliveries	-	**5,088**	**4,169**	**7,663**	**8,362**	**10,089**	**21,758**	**23,992**	**19,861**	**6,801**	**2,961**	**1,628**	**3,212**	**115,584**
Canal Conveyance Losses	=	3,231	2,422	3,970	4,210	4,546	5,955	7,511	7,495	4,669	3,773	2,991	2,863	53,636
Delivery Percentage		61%	63%	66%	67%	69%	79%	76%	73%	59%	44%	35%	53%	68%

Reservoir Evaporation Loss	46	102	190	239	557	769	671	305	119	106	60	48	3,212
End of Month Reservoir Storage	**7,000**	**19,912**	**20,346**	**24,412**	**33,972**	**29,518**	**15,608**	**4,152**	**3,556**	**4,010**	**4,010**	**4,000**	

DISCHARGE IN CUBIC FEET PER SECOND

Total Flow via the Kern Island Canal Headgate

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	26	0	169	216	193	163	334	304	190	153	91	95
2	34	0	243	223	201	219	346	343	212	147	93	123
3	74	0	280	165	222	236	292	342	229	125	86	114
4	143	0	236	152	208	188	269	354	198	121	84	109
5	158	4	243	155	202	165	321	348	193	123	96	61
6	164	36	227	160	238	148	296	320	233	118	93	48
7	153	68	229	138	279	167	300	302	314	107	68	64
8	156	101	258	111	259	189	328	302	305	100	62	79
9	156	72	258	111	228	212	396	304	276	102	63	134
10	148	83	220	110	234	251	379	296	246	93	62	125
11	146	81	198	97	207	306	342	266	208	106	57	114
12	149	87	176	90	220	346	398	232	171	122	54	119
13	150	85	143	99	203	342	400	183	182	126	56	144
14	149	81	130	119	171	377	424	137	178	128	59	145
15	148	89	144	153	143	372	445	175	173	127	62	135
16	89	110	135	157	138	366	445	306	160	100	70	79
17	0	118	131	154	173	355	422	293	141	77	119	87
18	0	109	134	138	184	367	295	281	127	133	118	91
19	0	84	127	169	154	383	273	263	138	136	118	94
20	0	87	113	186	152	350	321	276	156	121	106	94
21	0	68	114	221	189	339	411	283	157	100	51	93
22	0	58	128	245	145	351	419	267	171	90	51	94
23	0	81	127	262	144	315	298	282	182	85	52	51
24	0	108	141	277	161	259	266	273	181	80	59	38
25	0	115	210	258	137	258	289	242	147	104	55	35
26	0	117	214	277	118	251	295	213	139	112	55	39
27	0	104	191	240	104	245	286	192	175	117	61	50
28	0	124	190	203	113	249	295	200	200	117	55	58
29	0	-	144	200	119	277	340	227	197	110	42	61
30	0	-	175	198	117	289	349	200	179	102	50	59
31	0	-	212	-	132	-	317	183	-	79	-	61
TOTAL	2,043	2,070	5,640	5,284	5,488	8,335	10,591	8,189	5,758	3,461	2,148	2,693
MAXIMUM DAY	164	124	280	277	279	383	445	354	314	153	119	145
MINIMUM DAY	0	0	113	90	104	148	266	137	127	77	42	35
MEAN	66	74	182	176	177	278	342	264	192	112	72	87
TOTAL AC. FT.	4,052	4,106	11,187	10,481	10,885	16,532	21,007	16,243	11,421	6,865	4,261	5,341

WHOLE YEAR:- TOTAL, 61,700 MAX., 445 MIN., 0 MEAN, 169 TOTAL AC.FT., 122,381

DISCHARGE IN CUBIC FEET PER SECOND

Kern Island Water Diverted via Arvin-Edison Turnout

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	6	0	0	0	0	0	0	0	0	0	0
4	0	23	0	0	0	0	0	0	0	0	0	0
5	0	26	0	0	0	0	0	0	0	0	0	0
6	0	22	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	13	0	0	0	0	0	0	0	0	0	0	0
16	70	0	0	0	0	0	0	0	0	0	0	0
17	119	0	0	0	0	0	0	0	0	0	0	0
18	101	0	0	0	0	0	0	0	0	0	0	0
19	76	0	0	0	0	0	0	0	0	0	0	0
20	71	0	0	0	0	0	0	0	0	0	0	0
21	65	0	0	0	0	0	0	0	0	0	0	0
22	65	0	0	0	0	0	0	0	0	0	0	0
23	62	0	0	0	0	0	0	0	0	0	0	0
24	38	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	680	77	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	119	26	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	22	3	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	1,349	153	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 757 MAX., 119 MIN., 0 MEAN, 2 TOTAL AC.FT., 1,502

KERN DELTA WATER DISTRICT
KERN ISLAND CANAL SERVICE AREA

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+	18,446	16,661	18,032	17,851	18,446	17,851	18,446	16,205	11,892	11,038	11,633	12,381	188,882
Release	-	12,407	4,537	6,543	4,872	896	140	383	0	1,789	4,972	7,456	7,129	51,124
Entitlement + or - Releases	=	**6,039**	**12,124**	**11,489**	**12,979**	**17,550**	**17,711**	**18,063**	**16,205**	**10,103**	**6,066**	**4,177**	**5,252**	**137,758**
Into Storage	-	16	7,246	624	2,223	4,334	686	18	171	775	67	38	30	16,228
From Storage	+	0	0	0	0	0	2,714	6,693	4,833	417	0	0	0	14,657
From City of Bakersfield	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal Loss/Refill	-	37	0	0	0	0	0	0	0	24	0	0	0	61
Other	+/-	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer in Storage	+/-	0	0	0	0	0	0	0	0	0	0	0	0	0
Eastside Canal Entitlement	-	0	0	573	1,188	1,958	2,150	2,124	854	0	0	0	0	8,847
To City of Bakersfield	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Via Cawelo Water District	-	0	0	0	0	2,150	3,223	3,735	4,377	0	0	0	0	13,485
Via North Kern WSD	-	0	0	0	0	0	0	131	0	0	0	0	0	131
For Improvement District No.4	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted at Head of Canal	=	**5,986**	**4,878**	**10,292**	**9,568**	**9,108**	**14,366**	**18,748**	**15,636**	**9,721**	**5,999**	**4,139**	**5,222**	**113,663**
From Cawelo Water District	+	0	0	0	0	2,150	3,223	3,735	4,377	0	0	0	0	13,485
From North Kern WSD	+	0	0	0	0	0	0	131	0	0	0	0	0	131
From Improvement District No.4	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Utility Supply	=	**5,986**	**4,878**	**10,292**	**9,568**	**11,258**	**17,589**	**22,614**	**20,013**	**9,721**	**5,999**	**4,139**	**5,222**	**127,279**
Utility Deliveries		4,110	2,776	5,786	6,002	7,080	13,557	17,014	15,175	5,488	2,354	1,546	2,925	83,813
Contract Deliveries		138	59	1,062	623	585	753	705	529	633	325	82	0	5,494
Total Irrigation Deliveries	-	**4,248**	**2,835**	**6,848**	**6,625**	**7,665**	**14,310**	**17,719**	**15,704**	**6,121**	**2,679**	**1,628**	**2,925**	**89,307**
Canal Conveyance Losses	=	1,738	2,043	3,444	2,943	3,593	3,279	4,895	4,309	3,600	3,320	2,511	2,297	37,972
Delivery Percentage		71%	58%	67%	69%	68%	81%	78%	78%	63%	45%	39%	56%	70%

Into Reservoir Storage		16	7,246	624	2,223	4,334	686	18	171	775	67	38	30	16,228
Reservoir Evaporation Loss		16	48	93	121	276	361	325	123	73	67	38	30	1,571
From Reservoir Storage		0	0	0	0	0	2,714	6,693	4,833	417	0	0	0	14,657
End of Month Reservoir Storage		**2,500**	**9,698**	**10,229**	**12,331**	**16,389**	**14,000**	**7,000**	**2,215**	**2,500**	**2,500**	**2,500**	**2,500**	

State Exchange Diverted		133	228	397	296	768	551	736	892	432	293	70	109	4,905
State Exchange Delivered		133	228	397	296	768	551	736	892	432	293	70	109	4,905
State "Supplemental" Water Diverted		0	0	0	139	234	0	0	0	0	0	0	0	373
State "Supplemental" Water Delivered		0	0	0	65	119	0	0	0	0	0	0	0	184
Mandatory Release Diverted		0	0	0	0	0	0	0	0	0	0	0	0	0
Mandatory Release Delivered		0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison Payback Diverted		0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison Payback Delivered		0	0	0	0	0	0	0	0	0	0	0	0	0

KERN ISLAND CANAL
ENTITLEMENT AND DIVERSION OF CONTRACT WATER

BALFOUR - GUTHRIE CONTRACT

Quantities in acre-feet
except where noted.....

Year: 1999

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
KERN ISLAND CANAL ENTITLEMENT:													
Maximum	18,446	16,661	18,424	17,851	18,446	17,851	18,446	18,446	17,851	18,446	17,851	18,446	217,165
Actual	18,446	16,661	18,032	17,851	18,446	17,851	18,446	16,205	11,892	11,038	11,633	12,381	188,882
Maximum Percentage	100.00%	100.00%	97.87%	100.00%	100.00%	100.00%	100.00%	87.85%	66.62%	59.84%	65.17%	67.12%	
CONTRACT ENTITLEMENT:													
Maximum	269	242	269	260	269	260	269	269	260	269	260	--	2,896
Actual	269	242	263	260	269	260	269	236	173	161	169	--	2,571
Sum to Date	269	511	774	1,034	1,303	1,563	1,832	2,068	2,241	2,402	2,571	2,571	
CONTRACT DIVERTED:													
For Month	64	16	463	379	304	541	526	69	0	0	0	0	2,362
To Date	64	80	543	922	1,226	1,767	2,293	2,362	2,362	2,362	2,362	2,362	
UNUSED ENTITLEMENT:													
For Month	205	226	(200)	(119)	(35)	(281)	(257)	167	173	161	169	0	209
Sum to Date	205	431	231	112	77	(204)	(461)	(294)	(121)	40	209	209	

KERN ISLAND CANAL

ENTITLEMENT AND DIVERSION OF CONTRACT WATER

BLOOMFIELD CONTRACT

Quantities in acre-feet
except where noted.....

Year: 1999

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
KERN ISLAND CANAL ENTITLEMENT:													
Maximum	18,446	16,661	18,424	17,851	18,446	17,851	18,446	18,446	17,851	18,446	17,851	18,446	217,165
Actual	18,446	16,661	18,032	17,851	18,446	17,851	18,446	16,205	11,892	11,038	11,633	12,381	188,882
Maximum Percentage	100.00%	100.00%	97.87%	100.00%	100.00%	100.00%	100.00%	87.85%	66.62%	59.84%	65.17%	67.12%	
CONTRACT ENTITLEMENT:													
Maximum	336	303	336	325	336	325	336	336	325	336	325	--	3,619
Actual	336	303	329	325	336	325	336	295	217	201	212	--	3,215
Sum to Date	336	639	968	1,293	1,629	1,954	2,290	2,585	2,802	3,003	3,215	3,215	
CONTRACT DIVERTED:													
For Month	74	43	599	244	281	212	179	460	633	325	82	0	3,132
To Date	74	117	716	960	1,241	1,453	1,632	2,092	2,725	3,050	3,132	3,132	
UNUSED ENTITLEMENT:													
For Month	262	260	(270)	81	55	113	157	(165)	(416)	(124)	130	0	83
Sum to Date	262	522	252	333	388	501	658	493	77	(47)	83	83	

DISCHARGE IN CUBIC FEET PER SECOND | Total Flow via the Eastside Canal Headgate | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5	0	11	31	28	48	62	34	26	15	12	0
2	5	0	14	20	29	45	52	38	28	13	10	0
3	5	0	14	14	29	38	43	39	28	12	12	0
4	5	0	15	20	34	35	42	44	22	12	15	0
5	0	1	18	22	36	34	44	45	17	19	16	0
6	0	5	14	19	36	44	49	36	22	21	18	0
7	0	15	14	10	41	45	43	29	33	25	20	0
8	1	11	14	12	41	47	39	24	36	25	20	0
9	4	6	10	12	41	50	40	27	35	21	14	0
10	8	10	12	8	39	56	39	30	28	16	13	0
11	11	10	13	12	38	56	37	30	31	22	12	0
12	11	17	12	13	41	44	42	29	37	29	11	0
13	11	16	12	18	43	41	39	39	33	25	6	0
14	11	11	15	23	38	39	38	45	38	23	3	0
15	11	10	17	23	38	42	36	36	34	19	3	0
16	10	10	18	27	46	47	37	29	33	17	3	0
17	9	10	20	31	49	48	39	23	25	13	6	0
18	11	10	21	37	52	45	40	26	20	16	6	0
19	7	10	18	44	46	39	45	32	22	22	0	0
20	4	10	17	44	46	34	52	24	34	33	0	0
21	15	11	26	46	41	41	55	20	36	25	4	0
22	13	14	28	49	35	45	47	23	33	23	5	0
23	2	21	28	51	41	54	39	30	32	21	8	0
24	0	20	27	47	53	57	38	36	27	21	7	0
25	0	19	28	47	54	58	45	40	18	35	6	0
26	0	18	19	50	54	58	45	41	16	36	3	0
27	0	14	12	52	50	55	43	40	21	33	3	0
28	0	13	18	48	49	52	42	29	21	34	1	0
29	0	-	26	37	48	57	30	28	19	32	0	0
30	0	-	29	30	48	61	25	26	16	13	0	0
31	0	-	32	-	50	-	27	24	-	11	-	0
TOTAL	159	292	572	897	1,314	1,415	1,294	996	821	682	237	0
MAXIMUM DAY	15	21	32	52	54	61	62	45	38	36	20	0
MINIMUM DAY	0	0	10	8	28	34	25	20	16	11	0	0
MEAN	5	10	18	30	42	47	42	32	27	22	8	0
TOTAL AC. FT.	315	579	1,135	1,779	2,606	2,807	2,567	1,975	1,628	1,353	470	0

WHOLE YEAR:- TOTAL, 8,679 MAX., 62 MIN., 0 MEAN, 24 TOTAL AC.FT., 17,214

KERN DELTA WATER DISTRICT
EASTSIDE CANAL SERVICE AREA

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+	0	0	573	1,188	1,958	2,150	2,124	854	0	0	0	0	8,847
Mandatory Release Diverted	+	0	0	0	0	0	0	0	0	0	0	0	0	0
State Exchange Diverted	+	315	579	544	542	585	641	409	1,121	1,628	1,353	470	0	8,187
City Miscellaneous Diverted	+	0	0	18	49	63	16	34	0	0	0	0	0	180
Friant-Kern Floodwater Diverted	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison Payback Diverted	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Eastside Canal at Head	=	**315**	**579**	**1,135**	**1,779**	**2,606**	**2,807**	**2,567**	**1,975**	**1,628**	**1,353**	**470**	**0**	**17,214**
Utility Deliveries	+	0	0	400	991	1,676	1,802	1,810	699	0	0	0	0	7,378
Contract Deliveries	+	0	0	42	47	46	9	8	9	0	0	0	0	161
Subtotal Utility Deliveries	=	0	0	442	1,038	1,722	1,811	1,818	708	0	0	0	0	7,539
Mandatory Release Delivered	+	0	0	0	0	0	0	0	0	0	0	0	0	0
State Exchange Delivered	+	239	475	449	542	585	641	409	1,000	1,373	1,151	501	0	7,365
City Miscellaneous Delivered	+	0	0	18	49	63	16	34	0	0	0	0	0	180
Friant-Kern Floodwater Delivered	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison Payback Delivered	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal State/Other Deliveries	=	239	475	467	591	648	657	443	1,000	1,373	1,151	501	0	7,545
Total Irrigation Deliveries		**239**	**475**	**909**	**1,629**	**2,370**	**2,468**	**2,261**	**1,708**	**1,373**	**1,151**	**501**	**0**	**15,084**
Canal Loss (Utility)	+	0	0	131	150	236	339	306	146	0	0	0	0	1,308
Canal Loss (State)	+	76	104	95	0	0	0	0	121	255	202	(31)	0	822
Canal Loss (Other)	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Canal Loss	=	**76**	**104**	**226**	**150**	**236**	**339**	**306**	**267**	**255**	**202**	**(31)**	**0**	**2,130**
Delivery Percentage		76%	82%	80%	92%	91%	88%	88%	86%	84%	85%	107%	0%	88%

DISCHARGE IN CUBIC FEET PER SECOND

Total Flow via the Buena Vista Canal Headgate

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	36	44	0	11	42	65	82	37	13	0	11
2	0	35	46	0	10	56	75	96	35	15	0	11
3	0	28	52	0	10	60	87	103	27	21	0	11
4	4	32	45	0	10	60	92	106	0	25	0	12
5	18	46	25	0	13	50	97	111	0	29	0	12
6	20	47	0	22	15	50	99	90	4	25	0	12
7	20	48	0	28	16	63	97	71	0	18	0	12
8	20	46	0	31	18	67	97	59	0	12	0	12
9	12	47	0	26	27	98	94	67	0	0	0	13
10	23	46	0	23	35	103	83	72	5	0	0	14
11	31	46	0	21	33	112	87	66	15	0	0	0
12	32	48	0	21	29	117	83	63	23	0	12	0
13	31	51	0	20	25	125	82	59	18	0	15	0
14	32	52	0	18	20	130	92	54	15	0	12	0
15	33	52	0	11	22	131	104	53	20	0	13	8
16	27	52	0	10	18	122	102	64	15	0	12	27
17	31	46	0	15	0	111	94	61	14	0	14	23
18	38	45	0	21	10	94	71	43	13	0	14	22
19	44	34	15	23	10	99	56	43	18	0	15	20
20	41	28	21	43	7	92	60	41	17	0	15	21
21	33	24	30	43	0	85	64	49	21	0	15	22
22	41	37	38	44	0	77	64	56	22	0	13	16
23	46	44	46	44	0	68	60	62	27	0	14	9
24	37	45	41	37	0	82	67	54	27	0	15	10
25	17	45	0	23	0	85	81	57	28	0	13	10
26	17	44	0	24	0	91	79	57	25	0	13	12
27	25	42	37	24	0	87	76	39	26	0	10	23
28	26	45	43	25	0	79	76	35	20	0	10	24
29	35	-	39	25	0	79	81	33	18	0	11	25
30	38	-	33	18	0	78	91	47	14	0	6	22
31	36	-	0	-	26	-	87	44	-	0	-	11
TOTAL	808	1,191	555	640	365	2,593	2,543	1,937	504	158	242	425
MAXIMUM DAY	46	52	52	44	35	131	104	111	37	29	15	27
MINIMUM DAY	0	24	0	0	0	42	56	33	0	0	0	0
MEAN	26	43	18	21	12	86	82	62	17	5	8	14
TOTAL AC. FT.	1,603	2,362	1,101	1,269	724	5,143	5,044	3,842	1,000	313	480	843

WHOLE YEAR:- TOTAL, 11,961 MAX., 131 MIN., 0 MEAN, 33 TOTAL AC.FT., 23,724

KERN DELTA WATER DISTRICT
BUENA VISTA CANAL SERVICE AREA

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+	4,683	4,312	0	795	1,851	1,333	12	0	0	0	0	0	12,986
Release	+ or -	(3,570)	(790)	768	477	(250)	102	159	0	1,002	1,293	1,170	1,599	1,960
Entitlement + or - Releases	=	**1,113**	**3,522**	**768**	**1,272**	**1,601**	**1,435**	**171**	**0**	**1,002**	**1,293**	**1,170**	**1,599**	**14,946**
Into Storage	-	10	1,856	0	412	1,212	0	151	0	603	915	22	18	5,199
From Storage	+	0	0	0	56	0	1,693	1,564	1,132	306	0	0	0	4,751
Via Cawelo Water District	-	0	0	0	0	0	734	1,390	664	0	0	0	0	2,788
Via North Kern WSD	-	0	0	0	0	0	962	99	0	0	0	0	0	1,061
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer in Storage	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal Loss	-	115	169	0	0	0	0	0	0	70	65	668	738	1,825
Diverted at Head of Canal	=	**988**	**1,497**	**768**	**916**	**389**	**1,432**	**95**	**468**	**635**	**313**	**480**	**843**	**8,824**
From Cawelo Water District	+	0	0	0	0	0	734	1,390	664	0	0	0	0	2,788
From North Kern WSD	+	0	0	0	0	0	962	99	0	0	0	0	0	1,061
Total Utility Supply	=	**988**	**1,497**	**768**	**916**	**389**	**3,128**	**1,584**	**1,132**	**635**	**313**	**480**	**843**	**12,673**
Utility Deliveries		461	1,261	373	246	79	2,268	1,176	645	193	144	0	279	7,125
Contract Deliveries		0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Deliveries	-	**461**	**1,261**	**373**	**246**	**79**	**2,268**	**1,176**	**645**	**193**	**144**	**0**	**279**	**7,125**
Canal Conveyance Losses	=	527	236	395	670	310	860	408	487	442	169	480	564	5,548
Delivery Percentage		47%	84%	49%	27%	20%	73%	74%	57%	30%	46%	0%	33%	56%

Into Reservoir Storage	10	1,856	0	412	1,212	0	151	0	603	915	22	18	5,199
Reservoir Evaporation Loss	10	18	32	38	79	91	58	38	10	34	22	18	448
From Reservoir Storage	0	0	0	56	0	1,693	1,564	1,132	306	0	0	0	4,751
End of Month Reservoir Storage	**1,500**	**3,338**	**3,306**	**3,624**	**4,757**	**2,973**	**1,502**	**332**	**619**	**1,500**	**1,500**	**1,500**	

State Exchange Diverted (Includes Carrier Loss)	0	0	333	0	0	623	1,466	1,819	359	0	0	0	4,600
State Exchange Delivered	0	0	253	0	0	507	1,177	1,480	131	0	0	0	3,548
State "Supplemental" Water Diverted	0	0	0	309	159	0	0	0	0	0	0	0	468
State "Supplemental" Water Delivered	0	0	0	258	58	0	0	0	0	0	0	0	316
Friant-Kern Floodwater Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0
Friant-Kern Floodwater Delivered	0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison Payback Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison Payback Delivered	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Bakersfield via Buena Vista	0	0	0	0	0	0	0	0	0	0	0	0	0

KERN DELTA WATER DISTRICT
BUENA VISTA CANAL
DISTRIBUTION OF WATER

Quantities in acre-feet

Year: 1999

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Buena Vista Canal at Headworks	1,603	2,362	1,101	1,269	724	5,143	5,044	3,842	1,000	313	480	843	23,724
Buena Vista Canal from Maples Canal	0	0	0	140	73	0	0	0	89	0	0	0	302
TOTAL BUENA VISTA CANAL SUPPLY	**1,603**	**2,362**	**1,101**	**1,409**	**797**	**5,143**	**5,044**	**3,842**	**1,089**	**313**	**480**	**843**	**24,026**
Deliveries: Head to Section 17													
Buena Vista Utility	24	208	190	246	79	1,276	399	645	193	144	0	22	3,426
Buena Vista State Exchange	0	0	178	0	0	71	573	603	131	0	0	0	1,556
Buena Vista State "Supplemental"	0	0	0	125	58	0	0	0	0	0	0	0	183
Stine Utility	0	0	0	0	0	73	125	0	0	0	0	0	198
Sub-Total	**24**	**208**	**368**	**371**	**137**	**1,420**	**1,097**	**1,248**	**324**	**144**	**0**	**22**	**5,363**
Deliveries: At or Below Section 17													
Buena Vista Utility	437	1,053	183	0	0	992	777	0	0	0	0	257	3,699
Buena Vista State Exchange	0	0	75	0	0	436	604	877	0	0	0	0	1,992
Buena Vista State Interruptible	0	0	0	140	0	0	0	0	0	0	0	0	140
Buena Vista State "Supplemental"	0	0	0	133	69	0	0	0	85	0	0	0	287
Stine Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Stine State Exchange	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern Island Utility	560	785	0	40	0	1,162	1,609	748	77	0	0	0	4,981
Kern Island State "Supplemental"	0	0	0	0	119	0	0	0	0	0	0	0	119
Arvin-Edison Payback	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	**997**	**1,838**	**258**	**313**	**188**	**2,590**	**2,990**	**1,625**	**162**	**0**	**0**	**257**	**11,218**
TOTAL DELIVERED	**1,021**	**2,046**	**626**	**684**	**325**	**4,010**	**4,087**	**2,873**	**486**	**144**	**0**	**279**	**16,581**
Canal Conveyance Losses	582	316	475	725	472	1,133	957	969	603	169	480	564	7,445
Delivery Percentage	64%	87%	57%	49%	41%	78%	81%	75%	45%	46%	0%	33%	69%
DISTRIBUTION:													
Buena Vista Utility	988	1,497	768	916	389	3,128	1,584	1,132	635	313	480	843	12,673
Buena Vista State Exchange	0	0	333	0	0	623	1,466	1,819	284	0	0	0	4,525
Buena Vista State "Supplemental"	0	0	0	309	159	0	0	0	0	0	0	0	468
Stine Utility	0	0	0	0	0	87	145	0	0	0	0	0	232
Stine State Exchange	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern Island Utility	615	865	0	44	0	1,305	1,849	891	81	0	0	0	5,650
Kern Island State	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern Island State "Supplemental"	0	0	0	0	176	0	0	0	0	0	0	0	176
Kern River Floodwater	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	**1,603**	**2,362**	**1,101**	**1,269**	**724**	**5,143**	**5,044**	**3,842**	**1,000**	**313**	**480**	**843**	**23,724**

DISCHARGE IN CUBIC FEET PER SECOND | Total Flow via the Stine Canal Headgate | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7	29	61	0	0	0	0	49	73	26	0	0
2	20	35	80	0	0	0	0	63	49	26	0	0
3	20	34	75	0	0	0	0	69	0	30	0	0
4	19	31	69	0	0	0	0	72	0	32	0	0
5	21	20	50	0	0	0	0	78	0	37	0	0
6	17	0	0	0	0	0	0	86	9	40	0	0
7	17	0	0	0	0	0	0	75	30	41	0	0
8	16	0	0	0	0	9	0	77	28	33	0	0
9	16	0	0	0	0	20	0	90	28	18	0	0
10	18	0	0	0	0	0	0	106	32	13	0	0
11	20	0	0	0	0	0	0	112	31	20	0	0
12	20	0	0	0	0	0	0	109	37	24	0	0
13	27	0	0	0	0	0	0	91	34	37	0	0
14	35	0	0	0	0	0	0	76	40	33	0	0
15	30	0	0	0	0	0	0	85	40	27	0	0
16	27	5	0	0	0	0	0	118	39	0	0	0
17	32	50	0	0	0	0	0	105	34	0	0	0
18	31	50	0	0	0	0	0	98	25	0	0	0
19	32	54	0	0	0	0	0	90	16	0	0	0
20	40	65	0	0	0	0	0	71	25	0	0	0
21	41	62	0	0	0	0	0	67	26	0	0	0
22	42	62	0	0	0	0	14	74	34	0	0	0
23	40	65	0	0	0	0	42	96	34	0	0	0
24	32	60	0	0	0	0	49	104	29	0	0	0
25	0	51	0	0	0	0	51	110	29	0	0	0
26	3	52	0	0	0	0	55	114	30	0	0	0
27	25	44	0	0	0	0	56	103	29	0	0	0
28	32	38	0	0	0	0	54	101	33	0	0	0
29	32	-	0	0	0	0	53	110	34	0	0	0
30	30	-	0	0	0	0	49	95	25	0	0	0
31	25	-	0	-	0	-	47	72	-	0	-	0
TOTAL	767	807	335	0	0	29	470	2,766	873	437	0	0
MAXIMUM DAY	42	65	80	0	0	20	56	118	73	41	0	0
MINIMUM DAY	0	0	0	0	0	0	0	49	0	0	0	0
MEAN	25	29	11	0	0	1	15	89	29	14	0	0
TOTAL AC. FT.	1,521	1,601	664	0	0	58	932	5,486	1,732	867	0	0

WHOLE YEAR:- TOTAL, 6,484 MAX., 118 MIN., 0 MEAN, 18 TOTAL AC.FT., 12,861

KERN DELTA WATER DISTRICT

STINE CANAL SERVICE AREA

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+	2,926	5,796	0	1,489	3,467	2,507	26	0	0	0	0	0	16,211
Release	+ or -	(1,968)	(2,520)	0	(184)	(803)	(84)	0	0	0	0	0	0	(5,559)
Entitlement + or - Releases	=	**958**	**3,276**	**0**	**1,305**	**2,664**	**2,423**	**26**	**0**	**0**	**0**	**0**	**0**	**10,652**
Into Storage	-	10	3,153	0	877	2,333	640	0	0	0	0	0	0	7,013
From Storage	+	0	0	0	0	0	629	2,882	3,741	553	0	0	0	7,805
Via North Kern WSD	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Via Cawelo Water District	-	0	0	0	0	0	1,928	2,033	0	0	0	0	0	3,961
Transfer in Storage	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal Loss	-	18	26	0	0	0	0	0	0	18	0	0	0	62
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted at Head of Canal	=	**930**	**97**	**0**	**428**	**331**	**484**	**875**	**3,741**	**535**	**0**	**0**	**0**	**7,421**
From Cawelo Water District	+	0	0	0	0	0	1,928	2,033	0	0	0	0	0	3,961
Total Utility Supply	=	**930**	**97**	**0**	**428**	**331**	**2,412**	**2,908**	**3,741**	**535**	**0**	**0**	**0**	**11,382**
Utility Deliveries		279	28	0	195	142	1,507	1,603	1,837	266	0	0	0	5,857
Contract Deliveries		0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Deliveries	-	**279**	**28**	**0**	**195**	**142**	**1,507**	**1,603**	**1,837**	**266**	**0**	**0**	**0**	**5,857**
Canal Conveyance Losses	=	651	69	0	233	189	905	1,305	1,904	269	0	0	0	5,525
Delivery Percentage		30%	29%	0%	46%	43%	62%	55%	49%	50%	0%	0%	0%	51%

Into Reservoir Storage	10	3,153	0	877	2,333	640	0	0	0	0	0	0	0	7,013
Reservoir Evaporation Loss	10	24	43	52	125	188	179	79	8	0	0	0		708
From Reservoir Storage	0	0	0	0	0	629	2,882	3,741	553	0	0	0		7,805
End of Month Reservoir Storage	**1,500**	**4,629**	**4,586**	**5,411**	**7,619**	**7,442**	**4,381**	**561**	**0**	**0**	**0**	**0**		

State Exchange Diverted	0	986	394	0	40	16	248	0	1,494	1,006	0	0	4,184
State Exchange Delivered	0	388	251	0	22	13	243	0	417	345	0	0	1,679
State "Supplemental" Water Diverted	0	0	0	389	603	0	0	0	0	0	0	0	992
State "Supplemental" Water Delivered	0	0	0	147	336	0	0	0	0	0	0	0	483
Arvin-Edison Payback Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison Payback Delivered	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Bakersfield via Stine	0	0	0	0	0	0	0	0	0	0	0	0	0

KERN DELTA WATER DISTRICT
FARMERS CANAL SERVICE AREA

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+	1,267	878	0	1,462	3,467	2,459	4	0	0	0	0	0	9,537
Release	+ or -	(842)	0	0	(141)	(530)	0	0	0	0	0	0	0	(1,513)
Entitlement + or - Releases	=	**425**	**878**	**0**	**1,321**	**2,937**	**2,459**	**4**	**0**	**0**	**0**	**0**	**0**	**8,024**
Into Storage	-	10	878	0	849	2,238	525	0	0	0	0	0	0	4,500
From Storage	+	0	119	0	0	0	500	2,269	1,616	579	422	0	10	5,515
Transfer in Storage	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal Loss	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted at Head of Canal	=	**415**	**119**	**0**	**472**	**699**	**2,434**	**2,273**	**1,616**	**579**	**422**	**0**	**10**	**9,039**
Utility Deliveries		100	45	0	258	481	1,862	1,676	967	221	138	0	8	5,756
Contract Deliveries		0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Deliveries	-	**100**	**45**	**0**	**258**	**481**	**1,862**	**1,676**	**967**	**221**	**138**	**0**	**8**	**5,756**
Canal Conveyance Losses	=	315	74	0	214	218	572	597	649	358	284	0	2	3,283
Delivery Percentage		24%	38%	0%	55%	69%	76%	74%	60%	38%	33%	0%	80%	64%

Into Reservoir Storage		10	878	0	849	2,238	525	0	0	0	0	0	0	4,500
Reservoir Evaporation Loss		10	12	22	28	77	129	109	65	28	5	0	0	485
From Reservoir Storage		0	119	0	0	0	500	2,269	1,616	579	422	0	10	5,515
End of Month Reservoir Storage		**1,500**	**2,247**	**2,225**	**3,046**	**5,207**	**5,103**	**2,725**	**1,044**	**437**	**10**	**10**	**0**	

State Exchange Diverted		0	417	752	6	121	0	567	448	423	0	0	0	2,734
State Exchange Delivered		0	151	667	5	67	0	434	270	244	0	0	0	1,838
State "Supplemental" Water Diverted		0	0	0	0	42	0	0	0	0	0	0	0	42
State "Supplemental" Water Delivered		0	0	0	0	24	0	0	0	0	0	0	0	24

Kern Delta Water District Diverted via Arvin-Edison WSD

DISCHARGE IN CUBIC FEET PER SECOND (Pursuant to terms of KDWD/A-EWSD Exchange Agreement dated 9-10-99) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	100	0	0
2	0	0	0	0	0	0	0	0	0	101	0	0
3	0	0	0	0	0	0	0	0	0	97	0	0
4	0	0	0	0	0	0	0	0	0	98	0	0
5	0	0	0	0	0	0	0	0	0	88	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	14	0	0	0
11	0	0	0	0	0	0	0	0	101	0	0	0
12	0	0	0	0	0	0	0	0	101	0	0	0
13	0	0	0	0	0	0	0	0	103	0	0	0
14	0	0	0	0	0	0	0	0	98	0	0	0
15	0	0	0	0	0	0	0	0	103	0	0	0
16	0	0	0	0	0	0	0	0	99	0	0	0
17	0	0	0	0	0	0	0	0	102	0	0	0
18	0	0	0	0	0	0	0	0	103	0	0	0
19	0	0	0	0	0	0	0	0	98	0	0	0
20	0	0	0	0	0	0	0	0	100	0	0	0
21	0	0	0	0	0	0	0	0	104	0	0	0
22	0	0	0	0	0	0	0	0	100	0	0	0
23	0	0	0	0	0	0	0	0	104	0	0	0
24	0	0	0	0	0	0	0	0	105	0	0	0
25	0	0	0	0	0	0	0	0	104	0	0	0
26	0	0	0	0	0	0	0	0	103	0	0	0
27	0	0	0	0	0	0	0	0	98	0	0	0
28	0	0	0	0	0	0	0	0	100	0	0	0
29	0	-	0	0	0	0	0	0	98	0	0	0
30	0	-	0	0	0	0	0	0	99	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	0	0	0	2,037	484	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	105	101	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	68	16	0	0
TOTAL AC. FT.	0	0	0	0	0	0	0	0	4,040	960	0	0

WHOLE YEAR:- TOTAL, 2,521 MAX., 105 MIN., 0 MEAN, 7 TOTAL AC.FT., 5,000

DISCHARGE IN CUBIC FEET PER SECOND

Kern Delta Water District Diverted via Cawelo Water District
(1999 Kern River/State Water Project Exchange)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	64	141	129	0	0	0	0
2	0	0	0	0	0	90	150	131	0	0	0	0
3	0	0	0	0	0	92	159	142	0	0	0	0
4	0	0	0	0	0	93	129	132	0	0	0	0
5	0	0	0	0	0	94	140	130	0	0	0	0
6	0	0	0	0	0	73	150	123	0	0	0	0
7	0	0	0	0	0	72	143	113	0	0	0	0
8	0	0	0	0	0	92	132	109	0	0	0	0
9	0	0	0	0	0	91	134	128	0	0	0	0
10	0	0	0	0	0	98	131	118	0	0	0	0
11	0	0	0	0	0	118	133	129	0	0	0	0
12	0	0	0	0	0	142	144	130	0	0	0	0
13	0	0	0	0	0	133	134	125	0	0	0	0
14	0	0	0	0	0	136	129	124	0	0	0	0
15	0	0	0	0	0	96	125	115	0	0	0	0
16	0	0	0	0	0	129	140	121	0	0	0	0
17	0	0	0	0	49	132	147	121	0	0	0	0
18	0	0	0	0	50	148	136	112	0	0	0	0
19	0	0	0	0	90	68	127	121	0	0	0	0
20	0	0	0	0	93	47	147	108	0	0	0	0
21	0	0	0	0	90	100	138	103	0	0	0	0
22	0	0	0	0	87	101	145	101	0	0	0	0
23	0	0	0	0	60	95	141	105	0	0	0	0
24	0	0	0	0	61	96	130	101	0	0	0	0
25	0	0	0	0	66	99	113	111	0	0	0	0
26	0	0	0	0	90	91	95	100	0	0	0	0
27	0	0	0	0	90	91	91	100	0	0	0	0
28	0	0	0	0	57	95	90	97	0	0	0	0
29	0	-	0	0	65	99	83	11	0	0	0	0
30	0	-	0	0	66	92	85	0	0	0	0	0
31	0	-	0	-	70	-	89	0	-	0	-	0
TOTAL	0	0	0	0	1,084	2,967	3,971	3,290	0	0	0	0
MAXIMUM DAY	0	0	0	0	93	148	159	142	0	0	0	0
MINIMUM DAY	0	0	0	0	0	47	83	0	0	0	0	0
MEAN	0	0	0	0	35	99	128	106	0	0	0	0
TOTAL AC. FT.	0	0	0	0	2,150	5,885	7,875	6,524	0	0	0	0

WHOLE YEAR:- TOTAL, 11,312 MAX., 159 MIN., 0 MEAN, 31 TOTAL AC.FT., 22,434

Kern Delta Water District Diverted via North Kern Water Storage District

DISCHARGE IN CUBIC FEET PER SECOND (1999 Kern River/State Water Project Exchange) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	30	0	0	0	0	0	0
20	0	0	0	0	0	46	0	0	0	0	0	0
21	0	0	0	0	0	30	0	0	0	0	0	0
22	0	0	0	0	0	30	0	0	0	0	0	0
23	0	0	0	0	0	48	0	0	0	0	0	0
24	0	0	0	0	0	47	0	0	0	0	0	0
25	0	0	0	0	0	46	24	0	0	0	0	0
26	0	0	0	0	0	38	41	0	0	0	0	0
27	0	0	0	0	0	38	44	0	0	0	0	0
28	0	0	0	0	0	43	57	0	0	0	0	0
29	0	-	0	0	0	40	43	0	0	0	0	0
30	0	-	0	0	0	49	51	0	0	0	0	0
31	0	-	0	-	0	-	47	0	-	0	-	0
TOTAL	0	0	0	0	0	485	307	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	49	57	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	16	10	0	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	962	610	0	0	0	0	0

WHOLE YEAR:- TOTAL, 792 MAX., 57 MIN., 0 MEAN, 2 TOTAL AC.FT., 1,572

KERN DELTA WATER DISTRICT

State Aqueduct Exchange Diversion and Storage Recapitulation

Quantities in acre-feet

Year: 1999

		Kern Island	Eastside	East of Kern Island	Buena Vista	Stine	Farmers	Pioneer Project	For ID4	Via A-EWSD	Carrier Loss	Reservoir Loss	Total	Storage Balance
														8,795
	November	0	381	14	0	0	0	0	0	0	0	20	415	8,380
	December	43	157	6	0	0	0	0	435	0	0	16	657	7,723
	January	0	315	133	0	0	0	0	1,214	0	0	5	1,667	6,056
1998	February	115	579	113	0	986	417	0	0	0	0	0	2,210	3,846
Carry	March	157	544	240	333	394	752	0	0	0	0	8	2,428	1,418
Over	April	52	542	244	0	0	6	0	0	0	0	10	854	564
	May	56	169	224	0	28	85	0	0	0	0	2	564	0
	Total	**367**	**2,518**	**750**	**333**	**1,380**	**1,175**	**0**	**1,649**	**0**	**0**	**59**	**8,231**	
														25,500
	March	0	0	0	0	0	0	0	0	0	0	0	0	25,500
	April	0	0	0	0	0	0	0	0	0	0	0	0	25,500
	May	266	416	222	0	12	36	0	0	0	0	0	952	24,548
	June	375	641	176	623	16	0	0	0	0	0	0	1,831	22,717
1999	July	381	409	355	1,466	248	567	0	0	0	0	0	3,426	19,291
Contract	August	462	1,121	430	1,819	0	448	0	0	0	0	0	4,280	15,011
	September	150	1,628	282	359	1,494	423	0	0	4,040	442	0	8,818	6,193
	October	107	1,353	186	0	960	0	0	0	960	151	0	3,717	2,476
	November	0	0	0	0	0	0	0	0	0	0	0	0	2,476
	Total	**1,741**	**5,568**	**1,651**	**4,267**	**2,730**	**1,474**	**0**	**0**	**5,000**	**593**	**0**	**23,024**	
														2,476
1999	November	24	470	46	0	0	0	0	0	0	0	0	540	1,936
Carry	December	93	0	16	0	0	0	0	0	0	0	0	109	1,827
Over	**Total**	**117**	**470**	**62**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	649	

KERN DELTA WATER DISTRICT

1990 State Pool Payback Diversion Recapitulation

Quantities in acre-feet

Year:1999

	Kern Island	Eastside	East of Kern Island	Buena Vista	Stine	Farmers	Total	Payback Balance 6,571
January	0	0	0	0	0	0	0	6,571
February	0	0	0	0	0	0	0	6,571
March	0	0	0	0	0	0	0	6,571
April	0	0	0	0	0	0	0	6,571
May	0	0	0	0	0	0	0	6,571
June	0	0	0	0	0	0	0	6,571
July	0	0	0	0	0	0	0	6,571
August	0	0	0	0	0	0	0	6,571
September	0	0	0	0	0	0	0	6,571
October	0	0	0	0	0	0	0	6,571
November	0	0	0	0	0	0	0	6,571
December	0	0	0	0	0	0	0	6,571
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	

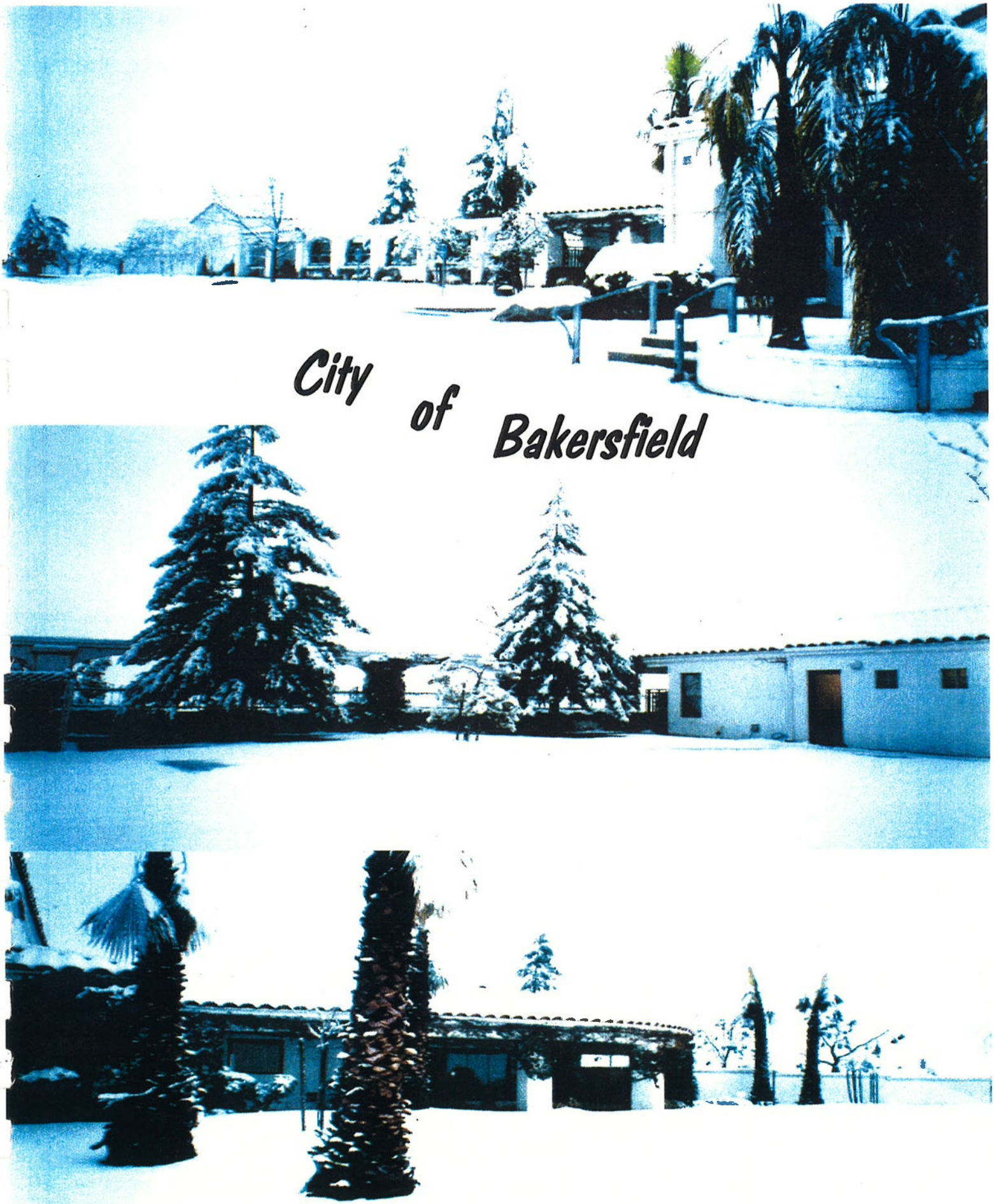
KERN DELTA WATER DISTRICT

Arvin-Edison WSD Water Exchange Recapitulation

Quantities in acre-feet

Year: 1999

	Kern Island	Eastside	East of Kern Island	Buena Vista	Stine	Farmers	Transportation Loss	Total	Payback Balance 3,503
January	0	0	0	0	0	0	67	67	3,436
February	0	0	0	0	0	0	8	8	3,428
March	0	0	0	0	0	0	0	0	3,428
April	0	0	0	0	0	0	42	42	3,386
May	0	0	0	0	0	0	160	160	3,226
June	0	0	0	0	0	0	258	258	2,968
July	0	0	0	0	0	0	277	277	2,691
August	0	0	0	0	0	0	210	210	2,481
September	0	0	0	0	0	0	0	0	2,481
October	0	0	0	0	0	0	0	0	2,481
November	0	0	0	0	0	0	0	0	2,481
December	0	0	0	0	0	0	0	0	2,481
Total	**0**	**0**	**0**	**0**	**0**	**0**	**1,022**	**1,022**	



City of Bakersfield

Water Resources Office

Storm of the Century - January 25, 1999

KERN RIVER CHANNEL OPERATIONS

CITY OF BAKERSFIELD

Quantities in acre-feet

Year: 1999

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
+ Kern River at First Point of Measurement	**32,523**	**40,907**	**29,209**	**29,480**	**38,071**	**64,411**	**78,924**	**64,167**	**36,405**	**20,473**	**10,848**	**16,203**	**461,621**
- Computed Loss	676	611	676	655	676	655	676	676	655	676	655	676	7,963
- Beardsley Canal at Head	6,738	12,121	11,512	11,998	15,860	21,965	29,466	20,624	11,205	5,730	1,719	5,631	154,569
- Carrier Canal at Head	5,006	6,766	13,125	13,363	15,661	25,611	30,117	25,805	14,390	9,193	5,181	5,871	170,089
= Rocky Point Weir	**20,103**	**21,409**	**3,896**	**3,464**	**5,874**	**16,180**	**18,665**	**17,062**	**10,155**	**4,874**	**3,293**	**4,025**	**129,000**
+ Carrier Waste Gate	14	0	0	0	0	0	0	0	0	0	0	0	14
+ Farmers-Stine-Anderson: to River	0	0	212	83	73	69	58	0	61	315	175	24	1,070
- Farmers-Stine-Anderson: from River	5,124	4,209	1,830	1,038	2,064	8,588	9,053	8,439	6,194	1,696	885	1,424	50,544
- Calloway Canal at Head	8,928	6,494	1,895	2,081	3,035	3,206	4,042	3,582	3,029	2,872	2,047	1,897	43,108
- River Loss: Rocky Point to Calloway Weir	506	424	383	428	562	709	784	665	680	557	536	470	6,704
= Calloway River Weir	**5,559**	**10,282**	**0**	**0**	**286**	**3,746**	**4,844**	**4,376**	**313**	**64**	**0**	**258**	**29,728**
+ CVC T.O. #4 to River	694	369	2,424	1,188	3,449	2,043	2,676	1,814	2,854	2,253	1,246	0	21,010
+ CVC T.O. #3 to River	565	81	2,031	1,990	2,321	4,887	5,762	4,917	3,372	3,786	1,529	0	31,241
+ Friant-Kern Inflow	8,636	29,785	0	648	1,227	0	0	0	0	0	35	1,848	42,179
- River Canal from River	3,300	14,350	0	0	0	4,239	6,974	5,216	0	0	0	0	34,079
- River Loss: Cally. Weir to River Canal Weir	3,078	2,535	3,911	2,670	4,848	4,883	5,889	5,167	4,871	4,619	2,205	1,412	46,088
= River Canal Weir	**9,076**	**23,632**	**544**	**1,156**	**2,435**	**1,554**	**419**	**724**	**1,668**	**1,484**	**605**	**694**	**43,991**
+ Pioneer Turnout	1,323	1,370	107	333	75	26	12	0	0	0	0	10	3,256
+ CVC T.O. #2 to River	119	0	361	0	575	805	301	557	278	393	898	0	4,287
- Rosedale Channel at Head	3,360	9,485	0	0	0	0	0	188	0	0	0	0	13,033
- Pioneer Canal at Head	0	0	0	0	0	0	0	0	0	0	0	0	0
- Berrenda Mesa Pipeline Turnout	395	0	0	0	473	180	0	0	0	60	309	0	1,417
- River Loss: River Canal to Bellevue Weir	1,168	1,237	1,012	1,279	2,275	1,914	732	1,079	1,888	1,728	855	704	15,871
= Flow at Bellevue Weir	**5,595**	**14,280**	**0**	**210**	**337**	**291**	**0**	**14**	**58**	**89**	**339**	**0**	**21,213**
- River Loss: Bellevue Weir to ID#4 Boundary	149	198	0	0	337	291	0	14	58	89	339	0	1,475
- River Loss: ID#4 Boundary to 2800 Acres	123	198	0	0	0	0	0	0	0	0	0	0	321
+ Outflow from Berrenda Mesa Spdg. Grounds	0	0	0	0	0	0	0	0	0	0	0	0	0
+ CVC T.O. #1 to River	0	0	0	0	0	0	0	0	0	2,073	1,495	0	3,568
+ River Canal Turnout to 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
- Central Pioneer from 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
- North Pioneer from 2800 Acres	2,656	6,718	0	0	0	0	0	0	0	0	0	0	9,374
- River Loss: 2800 Acres to Second Point	0	0	0	0	0	0	0	0	0	0	0	0	0
- 2800 Acre Recharge Facility	1,963	4,732	0	210	0	0	0	0	0	2,073	1,495	0	10,473
= Second Point via Kern River Channel	**704**	**2,434**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3,138**

CARRIER CANAL OPERATIONS

CITY OF BAKERSFIELD

Quantities in acre-feet

Year: 1999

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
+	**Carrier Canal at Head**	**5,006**	**6,766**	**13,125**	**13,363**	**15,661**	**25,611**	**30,117**	**25,805**	**14,390**	**9,193**	**5,181**	**5,871**	**170,089**
-	Carrier Waste Gate	14	0	0	0	0	0	0	0	0	0	0	0	14
+	Oilfield Discharge (Texaco Inc.)	0	0	0	0	0	0	0	0	0	0	0	0	0
-	Canal Refill	0	0	0	0	0	0	0	0	0	0	0	0	0
=	**Carrier Reclamation Weir**	**4,992**	**6,766**	**13,125**	**13,363**	**15,661**	**25,611**	**30,117**	**25,805**	**14,390**	**9,193**	**5,181**	**5,871**	**170,075**
+	Oilfield Discharge (Arco Oil)	13	0	0	0	0	0	0	0	0	0	0	0	13
+	Storm Drain Inflow	181	16	0	0	0	0	0	0	0	0	0	0	197
-	Eastside Canal at Head	315	579	1,135	1,779	2,606	2,807	2,567	1,975	1,628	1,353	470	0	17,214
-	Kern Island Canal at Head	4,052	4,106	11,187	10,481	10,885	16,532	21,007	16,243	11,421	6,865	4,261	5,341	122,381
=	**Levee No. 1**	**819**	**2,097**	**803**	**1,103**	**2,170**	**6,272**	**6,543**	**7,587**	**1,341**	**975**	**450**	**530**	**30,690**
-	Farmers-Stine-Anderson: to River	0	0	212	83	73	69	58	0	61	315	175	24	1,070
+	Farmers-Stine-Anderson: from River	5,124	4,209	1,830	1,038	2,064	8,588	9,053	8,439	6,194	1,696	885	1,424	50,544
=	**Carrier Canal at Oak Street**	**5,943**	**6,306**	**2,421**	**2,058**	**4,161**	**14,791**	**15,538**	**16,026**	**7,474**	**2,356**	**1,160**	**1,930**	**80,164**
-	Stine Canal at Head	1,521	1,601	664	0	0	58	932	5,486	1,732	867	0	0	12,861
-	Carrier to Truxtun Lakes	256	422	0	0	531	888	1,152	1,079	52	0	6	240	4,626
+	Truxtun Lakes to Carrier	153	311	0	0	446	815	1,138	1,004	38	0	0	0	3,905
-	Arvin-Edison Turnout	1,349	153	0	0	2,555	8,894	10,697	7,854	4,040	960	0	0	36,502
-	Total Carrier Canal Loss	380	413	204	367	722	845	944	926	688	216	674	837	7,216
+	River Canal from River	3,300	14,350	0	0	0	4,239	6,974	5,216	0	0	0	0	34,079
=	**River Canal at Stockdale Highway**	**5,890**	**18,378**	**1,553**	**1,691**	**799**	**9,160**	**9,925**	**6,901**	**1,000**	**313**	**480**	**853**	**56,943**
-	Buena Vista Canal at Head	1,603	2,362	1,101	1,269	724	5,143	5,044	3,842	1,000	313	480	843	23,724
-	Pioneer Turnout	1,323	1,370	107	333	75	26	12	0	0	0	0	10	3,256
-	James Canal at Head	1,736	5,548	0	0	0	0	0	0	0	0	0	0	7,284
-	River Canal Boosters	0	0	0	0	0	0	0	0	0	0	0	0	0
=	**River Canal at Alternate Second Point**	**1,228**	**9,098**	**345**	**89**	**0**	**3,991**	**4,869**	**3,059**	**0**	**0**	**0**	**0**	**22,679**
+	2800 Acre Well Water Production	0	0	0	0	0	0	0	0	0	0	0	0	0
-	River Canal Turnout	0	0	0	0	0	0	0	0	0	0	0	0	0
-	Boswell Turnout	0	508	0	0	0	0	0	0	0	0	0	0	508
-	Kern Delta WD via River Canal	0	0	0	0	0	0	0	0	0	0	0	0	0
-	Rosedale RBWSD via River Canal	0	0	0	0	0	0	0	0	0	0	0	0	0
-	Henry Miller WD via River Canal	0	0	0	0	0	0	0	0	0	0	0	0	0
-	County of Kern	0	0	0	0	0	0	0	0	0	0	0	0	0
=	**Second Point Group Flow via River Canal**	**1,228**	**8,590**	**345**	**89**	**0**	**3,991**	**4,869**	**3,059**	**0**	**0**	**0**	**0**	**22,171**

MONTHLY SUMMARY OF ENTITLEMENT, EXCHANGES, DIVERSIONS, DELIVERIES, LOSSES & SALES
CITY OF BAKERSFIELD

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+	1,196	5,534	13,283	16,452	22,084	18,309	8,868	121	0	0	0	0	85,847
Release	+	8,501	1,105	1,211	884	759	108	40	0	516	1,230	1,190	1,230	16,774
ENTITLEMENT + OR - RELEASES	=	**9,697**	**6,639**	**14,494**	**17,336**	**22,843**	**18,417**	**8,908**	**121**	**516**	**1,230**	**1,190**	**1,230**	**102,621**
NKWSD to City	+	0	0	162	428	0	0	0	0	0	0	0	0	590
From Reservoir Storage	+	0	6,723	0	0	0	6,581	9,643	21,768	3,610	0	0	789	49,114
Into Reservoir Storage	-	1,960	10,631	5,457	7,968	11,333	6,294	1,497	0	0	1,046	2,417	42	48,645
Other	+ or -	0	10,633	0	0	0	0	0	0	0	0	1,628	6	12,267
TOTAL SUPPLY	=	**7,737**	**13,364**	**9,199**	**9,796**	**11,510**	**18,704**	**17,054**	**21,889**	**4,126**	**184**	**401**	**1,983**	**115,947**
Lake Ming		16	16	44	60	77	105	127	121	91	65	42	26	790
Kern Valley Golf Course		2	2	7	10	22	28	30	29	25	16	10	5	186
California Water Service Company		0	0	0	0	0	0	0	0	0	58	59	34	151
Olcese Water District		0	0	0	0	0	0	0	0	0	45	30	30	105
Glen Grundeis		0	0	0	0	0	0	0	0	0	0	0	0	0
North Kern WSD (Basic Contract)		0	0	0	0	0	5,000	5,000	10,000	0	0	0	0	20,000
North Kern WSD (Miscellaneous)		0	369	0	0	0	0	0	0	0	0	0	0	369
North Kern WSD (Borrow/Payback)		0	0	4,467	2,985	573	1,975	0	0	0	0	0	0	10,000
Cawelo WD (Basic Contract)		0	0	2,122	3,691	6,343	5,810	5,810	5,276	0	0	0	0	29,052
Cawelo WD (Miscellaneous)		0	258	0	0	0	0	0	0	0	0	260	1,889	2,407
Kern-Tulare WD (Basic Contract)		0	0	1,941	2,182	3,347	4,067	4,045	4,630	3,488	0	0	0	23,700
Kern-Tulare WD (Miscellaneous)		0	0	0	0	0	0	0	0	0	0	0	0	0
Rag Gulch WD (Basic Contract)		0	0	291	327	501	609	606	693	523	0	0	0	3,550
Rag Gulch WD (Miscellaneous)		0	0	0	0	0	0	0	0	0	0	0	0	0
Rosedale RBWSD (Basic Contract)		4,017	5,983	0	0	0	0	0	0	0	0	0	0	10,000
Rosedale RBWSD (Miscellaneous)		0	200	0	0	0	0	0	0	0	0	0	0	200
Rosedale Ranch ID		0	0	0	0	0	0	0	0	0	0	0	0	0
Bolthouse Farms, Inc.		0	.115	0	0	0	0	0	0	0	0	0	0	115
Kern County Water Agency		829	3,376	0	0	0	0	0	0	0	0	0	0	4,205
Improvement District No.4		1,339	311	0	0	0	0	0	0	0	0	0	0	1,650
Kern Delta Water District (Miscellaneous)		0	0	18	49	63	16	34	0	0	0	0	0	180
Kern River Canal & Irrigating Co.		0	0	0	0	0	0	0	0	0	0	0	0	0
Truxtun Lakes		0	99	0	0	0	0	0	0	0	0	0	0	99
First Point Passing Second Point		0	0	0	0	0	0	0	0	0	0	0	0	0
2800 Acre Banking		0	0	0	0	0	0	0	0	0	0	0	0	0
River and Carrier Canal Loss		1,534	2,635	309	492	584	1,094	1,402	1,140	(1)	0	0	(1)	9,188
TOTAL DIVERTED	=	**7,737**	**13,364**	**9,199**	**9,796**	**11,510**	**18,704**	**17,054**	**21,889**	**4,126**	**184**	**401**	**1,983**	**115,947**
Into Reservoir Storage		1,960	10,631	5,457	7,968	11,333	6,294	1,497	0	0	1,046	2,417	42	48,645
Reservoir Evaporation Loss		85	113	194	293	695	917	1,051	505	219	163	111	89	4,435
From Reservoir Storage		0	6,723	0	0	0	6,581	9,643	21,768	3,610	0	0	789	49,114
End of Month Reservoir Storage		**13,400**	**17,195**	**22,458**	**30,133**	**40,771**	**39,567**	**30,370**	**8,097**	**4,268**	**5,151**	**7,457**	**6,621**	

CITY OF BAKERSFIELD

STATUS OF LONG TERM CONTRACTS

Quantities in acre-feet

NORTH KERN WATER STORAGE DISTRICT

Year	Basic Contract Amount	Cumulative Contract Amount	Basic Contract Delivered	Cumulative Contract Delivery	Basic Contract Balance
1977	20,000	20,000	20,000	20,000	0
1978	20,000	40,000	20,000	40,000	0
1979	20,000	60,000	20,000	60,000	0
1980	20,000	80,000	20,000	80,000	0
1981	20,000	100,000	20,000	100,000	0
1982	20,000	120,000	20,000	120,000	0
1983	20,000	140,000	20,000	140,000	0
1984	20,000	160,000	20,000	160,000	0
1985	20,000	180,000	20,000	180,000	0
1986	20,000	200,000	20,000	200,000	0
1987	20,000	220,000	20,000	220,000	0
1988	20,000	240,000	20,000	240,000	0
1989	20,000	260,000	20,000	260,000	0
1990	20,000	280,000	20,000	280,000	0
1991	20,000	300,000	20,000	300,000	0
1992	20,000	320,000	14,381	314,381	(5,619)
1993	20,000	340,000	23,700	338,081	(1,919)
1994	20,000	360,000	20,000	358,081	(1,919)
1995	20,000	380,000	21,919	380,000	0
1996	20,000	400,000	20,000	400,000	0
1997	20,000	420,000	20,000	420,000	0
1998	20,000	440,000	20,000	440,000	0
1999	20,000	460,000	20,000	460,000	0

CAWELO WATER DISTRICT

Year	Basic Contract Amount	Cumulative Contract Amount	Basic Contract Delivered	Cumulative Contract Delivery	Basic Contract Balance
1977	27,000	27,000	5,024	5,024	(21,976)
1978	27,000	54,000	35,404	40,428	(13,572)
1979	27,000	81,000	36,780	77,208	(3,792)
1980	27,000	108,000	30,792	108,000	0
1981	27,000	135,000	27,000	135,000	0
1982	27,000	162,000	27,000	162,000	0
1983	27,000	189,000	27,000	189,000	0
1984	27,000	216,000	27,000	216,000	0
1985	27,000	243,000	27,000	243,000	0
1986	27,000	270,000	27,000	270,000	0
1987	27,000	297,000	27,000	297,000	0
1988	27,000	324,000	12,821	309,821	(14,179)
1989	27,000	351,000	22,460	332,281	(18,719)
1990	27,000	378,000	17,723	350,004	(27,996)
1991	27,000	405,000	29,316	379,320	(25,680)
1992	27,000	432,000	28,868	408,188	(23,812)
1993	27,000	459,000	32,000	440,188	(18,812)
1994	27,000	486,000	23,760	463,948	(22,052)
1995	27,000	513,000	32,000	495,948	(17,052)
1996	27,000	540,000	32,000	527,948	(12,052)
1997	27,000	567,000	32,000	559,948	(7,052)
1998	27,000	594,000	32,000	591,948	(2,052)
1999	27,000	621,000	29,052	621,000	0

KERN-TULARE WATER DISTRICT

Year	Basic Contract Amount	Cumulative Contract Amount	Basic Contract Delivered	Cumulative Contract Delivery	Basic Contract Balance
1977	20,000	20,000	4,673	4,673	(15,327)
1978	20,000	40,000	23,690	28,363	(11,637)
1979	20,000	60,000	24,122	52,485	(7,515)
1980	20,000	80,000	23,403	75,888	(4,112)
1981	20,000	100,000	23,700	99,588	(412)
1982	20,000	120,000	20,412	120,000	0
1983	20,000	140,000	4,587	124,587	(15,413)
1984	20,000	160,000	20,000	144,587	(15,413)
1985	20,000	180,000	20,000	164,587	(15,413)
1986	20,000	200,000	20,000	184,587	(15,413)
1987	20,000	220,000	20,000	204,587	(15,413)
1988	20,000	240,000	11,763	216,350	(23,650)
1989	20,000	260,000	16,635	232,985	(27,015)
1990	20,000	280,000	0	232,985	(47,015)
1991	20,000	300,000	20,000	252,985	(47,015)
1992	20,000	320,000	9,089	262,074	(57,926)
1993	20,000	340,000	29,332	291,406	(48,594)
1994	20,000	360,000	18,348	309,754	(50,246)
1995	20,000	380,000	32,733	342,487	(37,513)
1996	20,000	400,000	23,700	366,187	(33,813)
1997	20,000	420,000	23,700	389,887	(30,113)
1998	20,000	440,000	23,700	413,587	(26,413)
1999	20,000	460,000	23,700	437,287	(22,713)

RAG GULCH WATER DISTRICT

Year	Basic Contract Amount	Cumulative Contract Amount	Basic Contract Delivered	Cumulative Contract Delivery	Basic Contract Balance
1977	3,000	3,000	449	449	(2,551)
1978	3,000	6,000	3,550	3,999	(2,001)
1979	3,000	9,000	3,550	7,549	(1,451)
1980	3,000	12,000	3,550	11,099	(901)
1981	3,000	15,000	3,550	14,649	(351)
1982	3,000	18,000	3,351	18,000	0
1983	3,000	21,000	600	18,600	(2,400)
1984	3,000	24,000	3,000	21,600	(2,400)
1985	3,000	27,000	3,000	24,600	(2,400)
1986	3,000	30,000	3,000	27,600	(2,400)
1987	3,000	33,000	3,000	30,600	(2,400)
1988	3,000	36,000	1,764	32,364	(3,636)
1989	3,000	39,000	2,495	34,859	(4,141)
1990	3,000	42,000	0	34,859	(7,141)
1991	3,000	45,000	3,000	37,859	(7,141)
1992	3,000	48,000	1,363	39,222	(8,778)
1993	3,000	51,000	4,394	43,616	(7,384)
1994	3,000	54,000	2,753	46,369	(7,631)
1995	3,000	57,000	4,993	51,362	(5,638)
1996	3,000	60,000	3,550	54,912	(5,088)
1997	3,000	63,000	3,550	58,462	(4,538)
1998	3,000	66,000	3,550	62,012	(3,988)
1999	3,000	69,000	3,550	65,562	(3,438)

CITY OF BAKERSFIELD

Deliveries to Long Term Contractors

Basic Contract

Quantities in acre-feet

Year: 1999

	NORTH KERN WSD		CAWELO WD		KERN-TULARE WD		RAG GULCH WD		MONTH TOTALS	
	Basic	Accum.	Basic	Accum.	Basic	Accum.	Basic	Accum.	Basic	Accum.
January	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0
March	0	0	2,122	2,122	1,941	1,941	291	291	4,354	4,354
April	0	0	3,691	5,813	2,182	4,123	327	618	6,200	10,554
May	0	0	6,343	12,156	3,347	7,470	501	1,119	10,191	20,745
June	5,000	5,000	5,810	17,966	4,067	11,537	609	1,728	15,486	36,231
July	5,000	10,000	5,810	23,776	4,045	15,582	606	2,334	15,461	51,692
August	10,000	20,000	5,276	29,052	4,630	20,212	693	3,027	20,599	72,291
September	0	20,000	0	29,052	3,488	23,700	523	3,550	4,011	76,302
October	0	20,000	0	29,052	0	23,700	0	3,550	0	76,302
November	0	20,000	0	29,052	0	23,700	0	3,550	0	76,302
December	0	20,000	0	29,052	0	23,700	0	3,550	0	76,302
Year Total	**20,000**		**29,052**		**23,700**		**3,550**		**76,302**	

City of Bakersfield Diverted to North Kern WSD

DISCHARGE IN CUBIC FEET PER SECOND (Basic Contract) Year: 1999

(Does not include deliveries into Isabella Reservoir storage)

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 0 MAX., 0 MIN., 0 MEAN, 0 TOTAL AC.FT., 0

City of Bakersfield Diverted to North Kern WSD

DISCHARGE IN CUBIC FEET PER SECOND (Miscellaneous) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	14	0	0	0	0	0	0	0	0	0	0
18	0	15	0	0	0	0	0	0	0	0	0	0
19	0	15	0	0	0	0	0	0	0	0	0	0
20	0	12	0	0	0	0	0	0	0	0	0	0
21	0	16	0	0	0	0	0	0	0	0	0	0
22	0	16	0	0	0	0	0	0	0	0	0	0
23	0	14	0	0	0	0	0	0	0	0	0	0
24	0	17	0	0	0	0	0	0	0	0	0	0
25	0	16	0	0	0	0	0	0	0	0	0	0
26	0	15	0	0	0	0	0	0	0	0	0	0
27	0	17	0	0	0	0	0	0	0	0	0	0
28	0	19	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	186	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	19	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	7	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	369	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 186 MAX., 19 MIN., 0 MEAN, 1 TOTAL AC.FT., 369

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted to North Kern WSD
(2800 Acre Banked Water Purchase Agreement)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	50	0	0	0	0	0	0	0
2	0	0	0	0	21	0	0	0	0	0	0	0
3	0	0	0	0	21	0	0	0	0	0	0	0
4	0	0	0	0	42	0	0	0	0	0	0	0
5	0	0	0	0	51	0	0	0	0	0	0	0
6	0	0	0	0	50	0	0	0	0	0	0	0
7	0	0	0	0	50	0	0	0	0	0	0	0
8	0	0	0	0	21	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	30	0	0	0	0	0	0	0
11	0	0	0	0	50	0	0	0	0	0	0	0
12	0	0	0	0	50	0	0	0	0	0	0	0
13	0	0	0	0	50	0	0	0	0	0	0	0
14	0	0	0	0	50	0	0	0	0	0	0	0
15	0	0	0	0	48	0	0	0	0	0	0	0
16	0	0	0	0	50	0	0	0	0	0	0	0
17	0	0	0	0	48	0	0	0	0	0	0	0
18	0	0	0	0	87	0	0	0	0	0	0	0
19	0	0	0	0	87	0	0	0	0	0	0	0
20	0	0	0	0	79	0	0	0	0	0	0	0
21	0	0	0	0	79	0	0	0	0	0	0	0
22	0	0	0	0	79	0	0	0	0	0	0	0
23	0	0	0	0	79	0	0	0	0	0	0	0
24	0	0	0	0	79	0	0	0	0	0	0	0
25	0	0	0	0	67	0	0	0	0	0	0	0
26	0	0	0	0	70	0	0	0	0	0	0	0
27	0	0	0	0	79	0	0	0	0	0	0	0
28	0	0	0	29	79	0	0	0	0	0	0	0
29	0	-	0	48	28	0	0	0	0	0	0	0
30	0	-	0	50	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	127	1,574	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	50	87	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	4	51	0	0	0	0	0	0	0
TOTAL AC. FT.	0	0	0	253	3,122	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 1,701 MAX., 87 MIN., 0 MEAN, 5 TOTAL AC.FT., 3,375

CAWELO WATER DISTRICT OPERATIONS

Quantities in acre-feet

Year: 1999

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
+ Cawelo WD via Pump Station "B"		**180**	**349**	**1,866**	**3,310**	**7,730**	**10,889**	**12,704**	**10,998**	**7,640**	**5,165**	**1,827**	**1,759**	**64,417**
Lerdo Delivery Gate No. 8-0-1	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Lerdo Delivery Gate No. 8-0-2	+	0	0	32	31	31	29	0	0	0	0	0	0	123
Lerdo Delivery Gate No. 8-0-10	+	0	0	0	0	0	0	0	0	0	0	10	38	48
Lerdo Delivery Gate No. 8-0-15	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Lerdo Delivery Gate No. 8-0-22	+	0	0	55	81	129	156	160	113	30	218	6	0	948
Lerdo Delivery Gate No. 8-0-25	+	0	2	22	12	30	60	67	69	40	28	30	0	360
Lerdo Delivery Gate No. 8-0-100	+	0	0	0	2	10	12	8	8	6	4	0	0	50
Lerdo Delivery Gate No. 8-0-288	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Lerdo Delivery Gate No. 8-0-289	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Lerdo Delivery Gate No. 8-0-290	+	0	16	30	71	141	149	202	181	69	81	6	14	960
Lerdo Delivery Gate No. 8-0-291	+	0	4	44	79	121	131	192	196	109	93	25	18	1,012
Lerdo Delivery Gate No. 8-0-292	+	6	0	8	0	2	2	0	2	2	2	0	0	24
Lerdo Delivery Gate No. 8-23-006	+	0	0	14	38	180	127	206	109	30	0	0	0	704
+ Total Lerdo Gate Deliveries	**=**	**6**	**22**	**205**	**314**	**644**	**666**	**835**	**678**	**286**	**426**	**77**	**70**	4,229
Beardsley Canal Loss	+	10	28	61	60	61	60	61	61	60	61	60	61	644
Lerdo Loss	+	2	2	24	39	90	122	145	123	83	60	20	18	728
+ Total Loss	=	12	30	85	99	151	182	206	184	143	121	80	79	1,372
= Total Diverted for Cawelo WD		**198**	**401**	**2,156**	**3,723**	**8,525**	**11,737**	**13,745**	**11,860**	**8,069**	**5,712**	**1,984**	**1,908**	**70,018**

Cawelo Water District Source of Supply:

+ City of Bakersfield Basic Contract		0	0	2,122	3,691	6,343	5,810	5,810	5,276	0	0	0	0	29,052
+ City of Bakersfield Miscellaneous		0	258	0	0	0	0	0	0	0	0	161	1,246	1,665
+ City of Bakersfield Non-Kern River		0	0	0	0	0	12	60	60	95	60	274	258	819
+ Kern River Canal & Irrigating Company		0	0	34	32	32	30	0	0	0	0	0	0	128
+ Buena Vista WSD Exchange		198	143	0	0	0	0	0	0	809	0	0	0	1,150
+ Buena Vista WSD Purchase		0	0	0	0	0	0	0	0	0	0	0	0	0
+ Rosedale RBWSD Exchange		0	0	0	0	0	0	0	0	0	0	0	0	0
+ North Kern WSD Exchange		0	0	0	0	0	0	0	0	0	0	188	404	592
+ Kern Delta Water District Exchange		0	0	0	0	2,150	5,885	7,875	6,524	0	0	0	0	22,434
+ via CVC Conduit "A"		0	0	0	0	0	0	0	0	7,165	5,652	1,361	0	14,178
+ North Kern WSD Non-Kern River		0	0	0	0	0	0	0	0	0	0	0	0	0
= Total Cawelo Water District Supply		**198**	**401**	**2,156**	**3,723**	**8,525**	**11,737**	**13,745**	**11,860**	**8,069**	**5,712**	**1,984**	**1,908**	**70,018**

DISCHARGE IN CUBIC FEET PER SECOND — Cawelo Water District Total Diverted via Beardsley-Lerdo Canal System — Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	3	19	50	129	204	231	199	126	102	50	6
2	0	3	26	52	125	206	236	223	167	100	49	5
3	0	3	21	43	136	167	223	223	164	99	49	31
4	0	0	20	83	106	159	221	222	144	110	46	28
5	0	0	19	95	105	182	222	220	122	108	46	28
6	0	0	18	86	108	151	231	216	122	103	46	26
7	0	0	17	47	150	152	230	215	165	103	45	25
8	0	0	17	54	142	159	234	194	163	113	45	37
9	0	0	19	53	140	160	234	201	191	62	44	25
10	0	19	20	48	114	175	228	183	177	59	37	26
11	0	18	42	44	114	179	227	186	176	71	36	44
12	0	18	45	45	115	172	229	213	177	112	36	45
13	0	19	40	45	135	196	227	214	170	157	37	44
14	0	18	40	46	161	210	226	169	150	158	36	25
15	0	19	47	50	147	230	233	143	150	78	37	25
16	0	19	22	50	123	232	234	182	147	50	24	26
17	0	19	22	26	133	210	229	202	126	45	24	25
18	22	0	42	20	131	201	222	181	72	119	24	25
19	19	0	51	28	132	192	228	188	71	121	24	25
20	19	0	44	68	127	200	213	184	152	119	25	29
21	0	0	40	88	134	215	215	170	147	121	24	32
22	0	0	50	85	124	228	225	168	151	116	26	43
23	0	19	48	86	122	234	227	204	99	88	26	38
24	0	20	46	80	167	233	219	204	105	86	27	37
25	0	0	45	77	164	224	193	199	67	92	24	37
26	0	0	44	79	186	179	204	197	66	98	26	38
27	0	5	43	63	184	177	223	179	106	74	25	37
28	19	0	43	66	169	227	223	156	103	76	27	38
29	21	-	49	89	149	232	221	149	147	50	24	37
30	0	-	41	131	143	231	225	200	145	45	11	37
31	0	-	47	-	183	-	197	196	-	45	-	38
TOTAL	100	202	1,087	1,877	4,298	5,917	6,930	5,980	4,068	2,880	1,000	962
MAXIMUM DAY	22	20	51	131	186	234	236	223	191	158	50	45
MINIMUM DAY	0	0	17	20	105	151	193	143	66	45	11	5
MEAN	3	7	35	63	139	197	224	193	136	93	33	31
TOTAL AC. FT.	198	401	2,156	3,723	8,525	11,737	13,745	11,860	8,069	5,712	1,984	1,908

WHOLE YEAR:- TOTAL, 35,301 MAX., 236 MIN., 0 MEAN, 97 TOTAL AC.FT., 70,018

City of Bakersfield Diverted to Cawelo Water District

DISCHARGE IN CUBIC FEET PER SECOND (Basic Contract) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	19	50	129	140	89	69	0	0	0	0
2	0	0	26	52	125	116	85	91	0	0	0	0
3	0	0	21	43	136	75	63	80	0	0	0	0
4	0	0	20	83	106	66	91	89	0	0	0	0
5	0	0	19	95	105	88	81	89	0	0	0	0
6	0	0	18	86	108	78	80	92	0	0	0	0
7	0	0	17	47	150	80	86	101	0	0	0	0
8	0	0	17	54	142	67	102	84	0	0	0	0
9	0	0	19	53	140	69	99	72	0	0	0	0
10	0	0	20	48	112	77	96	64	0	0	0	0
11	0	0	42	44	112	61	93	56	0	0	0	0
12	0	0	45	45	113	30	84	82	0	0	0	0
13	0	0	40	45	133	63	92	88	0	0	0	0
14	0	0	40	46	159	72	96	44	0	0	0	0
15	0	0	47	50	147	132	107	27	0	0	0	0
16	0	0	22	48	123	101	93	60	0	0	0	0
17	0	0	22	24	82	76	81	80	0	0	0	0
18	0	0	39	19	78	50	85	68	0	0	0	0
19	0	0	48	25	41	124	100	66	0	0	0	0
20	0	0	41	66	34	153	65	75	0	0	0	0
21	0	0	40	86	44	113	76	66	0	0	0	0
22	0	0	47	84	37	125	79	66	0	0	0	0
23	0	0	44	84	62	137	85	98	0	0	0	0
24	0	0	45	79	106	137	88	102	0	0	0	0
25	0	0	45	77	98	124	79	87	0	0	0	0
26	0	0	44	79	96	87	108	96	0	0	0	0
27	0	0	43	63	94	85	131	78	0	0	0	0
28	0	0	43	66	112	131	132	58	0	0	0	0
29	0	-	49	89	84	133	137	137	0	0	0	0
30	0	-	41	131	77	139	139	200	0	0	0	0
31	0	-	47	-	113	-	107	195	-	0	-	0
TOTAL	0	0	1,070	1,861	3,198	2,929	2,929	2,660	0	0	0	0
MAXIMUM DAY	0	0	49	131	159	153	139	200	0	0	0	0
MINIMUM DAY	0	0	17	19	34	30	63	27	0	0	0	0
MEAN	0	0	35	62	103	98	94	86	0	0	0	0
TOTAL AC. FT.	0	0	2,122	3,691	6,343	5,810	5,810	5,276	0	0	0	0

WHOLE YEAR:- TOTAL, 14,647 MAX., 200 MIN., 0 MEAN, 40 TOTAL AC.FT., 29,052

City of Bakersfield Diverted to Cawelo Water District

DISCHARGE IN CUBIC FEET PER SECOND (Miscellaneous) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	21
4	0	0	0	0	0	0	0	0	0	0	15	0
5	0	0	0	0	0	0	0	0	0	0	4	0
6	0	0	0	0	0	0	0	0	0	0	4	0
7	0	0	0	0	0	0	0	0	0	0	14	0
8	0	0	0	0	0	0	0	0	0	0	0	30
9	0	0	0	0	0	0	0	0	0	0	0	20
10	0	19	0	0	0	0	0	0	0	0	0	23
11	0	18	0	0	0	0	0	0	0	0	6	16
12	0	18	0	0	0	0	0	0	0	0	5	18
13	0	19	0	0	0	0	0	0	0	0	6	23
14	0	18	0	0	0	0	0	0	0	0	5	14
15	0	19	0	0	0	0	0	0	0	0	3	14
16	0	19	0	0	0	0	0	0	0	0	6	14
17	0	0	0	0	0	0	0	0	0	0	4	22
18	0	0	0	0	0	0	0	0	0	0	7	23
19	0	0	0	0	0	0	0	0	0	0	0	24
20	0	0	0	0	0	0	0	0	0	0	0	28
21	0	0	0	0	0	0	0	0	0	0	0	29
22	0	0	0	0	0	0	0	0	0	0	0	41
23	0	0	0	0	0	0	0	0	0	0	0	35
24	0	0	0	0	0	0	0	0	0	0	0	22
25	0	0	0	0	0	0	0	0	0	0	0	11
26	0	0	0	0	0	0	0	0	0	0	0	25
27	0	0	0	0	0	0	0	0	0	0	0	34
28	0	0	0	0	0	0	0	0	0	0	2	36
29	0	-	0	0	0	0	0	0	0	0	0	34
30	0	-	0	0	0	0	0	0	0	0	0	35
31	0	-	0	-	0	-	0	0	-	0	-	36
TOTAL	0	130	0	0	0	0	0	0	0	0	81	628
MAXIMUM DAY	0	19	0	0	0	0	0	0	0	0	15	41
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	5	0	0	0	0	0	0	0	0	3	20
TOTAL AC. FT.	0	258	0	0	0	0	0	0	0	0	161	1,246

WHOLE YEAR:- TOTAL, 839 MAX., 41 MIN., 0 MEAN, 2 TOTAL AC.FT., 1,665

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted for Cawelo Water District
(Cawelo WD/North Kern WSD Exchange)
(Kern River Miscellaneous Water Purchase)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	41
2	0	0	0	0	0	0	0	0	0	0	0	47
3	0	0	0	0	0	0	0	0	0	0	0	37
4	0	0	0	0	0	0	0	0	0	0	0	36
5	0	0	0	0	0	0	0	0	0	0	0	29
6	0	0	0	0	0	0	0	0	0	0	0	25
7	0	0	0	0	0	0	0	0	0	0	0	28
8	0	0	0	0	0	0	0	0	0	0	0	13
9	0	0	0	0	0	0	0	0	0	0	0	13
10	0	0	0	0	0	0	0	0	0	0	0	34
11	0	0	0	0	0	0	0	0	0	0	0	9
12	0	0	0	0	0	0	0	0	0	0	0	12
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	3	0
20	0	0	0	0	0	0	0	0	0	0	4	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	15	0
25	0	0	0	0	0	0	0	0	0	0	15	0
26	0	0	0	0	0	0	0	0	0	0	8	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	5	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	0	0	0	0	0	50	324
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	15	47
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	2	10
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	99	643

WHOLE YEAR:- TOTAL, 374 MAX., 47 MIN., 0 MEAN, 1 TOTAL AC.FT., 742

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted to Cawelo Water District
(Non-Kern River)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	1	1	1	1	1	6
2	0	0	0	0	0	0	1	1	1	1	1	5
3	0	0	0	0	0	0	1	1	0	1	1	10
4	0	0	0	0	0	0	1	1	0	1	1	15
5	0	0	0	0	0	0	1	1	0	1	1	12
6	0	0	0	0	0	0	1	1	0	1	1	13
7	0	0	0	0	0	0	1	1	0	0	1	6
8	0	0	0	0	0	0	0	1	0	1	1	2
9	0	0	0	0	0	0	1	1	0	1	1	5
10	0	0	0	0	0	0	1	1	8	1	1	3
11	0	0	0	0	0	0	1	1	12	1	1	4
12	0	0	0	0	0	0	1	1	11	1	1	4
13	0	0	0	0	0	0	1	1	0	1	1	3
14	0	0	0	0	0	0	1	1	0	1	3	2
15	0	0	0	0	0	0	1	1	0	1	2	2
16	0	0	0	0	0	0	1	1	1	1	3	2
17	0	0	0	0	0	0	1	1	1	1	4	3
18	0	0	0	0	0	0	1	1	1	1	4	2
19	0	0	0	0	0	0	1	1	1	1	2	1
20	0	0	0	0	0	0	1	1	1	1	11	1
21	0	0	0	0	0	0	1	1	1	1	10	3
22	0	0	0	0	0	1	1	1	1	1	10	2
23	0	0	0	0	0	1	1	1	1	1	9	3
24	0	0	0	0	0	0	1	1	1	1	10	3
25	0	0	0	0	0	1	1	1	1	1	10	3
26	0	0	0	0	0	1	1	1	1	1	9	3
27	0	0	0	0	0	1	1	1	1	1	9	3
28	0	0	0	0	0	1	1	1	1	1	10	2
29	0	-	0	0	0	0	1	1	1	1	10	3
30	0	-	0	0	0	0	1	0	1	1	9	2
31	0	-	0	-	0	-	1	1	-	1	-	2
TOTAL	0	0	0	0	0	6	30	30	48	30	138	130
MAXIMUM DAY	0	0	0	0	0	1	1	1	12	1	11	15
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	1	1
MEAN	0	0	0	0	0	0	1	1	2	1	5	4
TOTAL AC. FT.	0	0	0	0	0	12	60	60	95	60	274	258

WHOLE YEAR:- TOTAL, 412 MAX., 15 MIN., 0 MEAN, 1 TOTAL AC.FT., 819

City of Bakersfield Diverted via Cawelo Water District

DISCHARGE IN CUBIC FEET PER SECOND (Kern River Canal & Irrigating Company) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	2	0	0	0	0	0	0	0
11	0	0	0	0	2	0	0	0	0	0	0	0
12	0	0	0	0	2	0	0	0	0	0	0	0
13	0	0	0	0	2	0	0	0	0	0	0	0
14	0	0	0	0	2	2	0	0	0	0	0	0
15	0	0	0	0	0	2	0	0	0	0	0	0
16	0	0	0	2	0	2	0	0	0	0	0	0
17	0	0	0	2	2	2	0	0	0	0	0	0
18	0	0	3	1	3	3	0	0	0	0	0	0
19	0	0	3	3	1	0	0	0	0	0	0	0
20	0	0	3	2	0	0	0	0	0	0	0	0
21	0	0	0	2	0	2	0	0	0	0	0	0
22	0	0	3	1	0	1	0	0	0	0	0	0
23	0	0	4	2	0	1	0	0	0	0	0	0
24	0	0	1	1	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	17	16	16	15	0	0	0	0	0	0
MAXIMUM DAY	0	0	4	3	3	3	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	1	1	1	1	0	0	0	0	0	0
TOTAL AC. FT.	0	0	34	32	32	30	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 64 MAX., 4 MIN., 0 MEAN, 0 TOTAL AC.FT., 128

DISCHARGE IN CUBIC FEET PER SECOND

Buena Vista WSD Diverted to Cawelo Water District
(Kern River/SWP Exchange)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	3	0	0	0	0	0	0	13	0	0	0
2	0	3	0	0	0	0	0	0	11	0	0	0
3	0	3	0	0	0	0	0	0	9	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	13	0	0	0
8	0	0	0	0	0	0	0	0	11	0	0	0
9	0	0	0	0	0	0	0	0	36	0	0	0
10	0	0	0	0	0	0	0	0	14	0	0	0
11	0	0	0	0	0	0	0	0	9	0	0	0
12	0	0	0	0	0	0	0	0	11	0	0	0
13	0	0	0	0	0	0	0	0	15	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	19	0	0	0	0	0	0	125	0	0	0
18	22	0	0	0	0	0	0	0	71	0	0	0
19	19	0	0	0	0	0	0	0	70	0	0	0
20	19	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	19	0	0	0	0	0	0	0	0	0	0
24	0	20	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	5	0	0	0	0	0	0	0	0	0	0
28	19	0	0	0	0	0	0	0	0	0	0	0
29	21	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	100	72	0	0	0	0	0	0	408	0	0	0
MAXIMUM DAY	22	20	0	0	0	0	0	0	125	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	3	3	0	0	0	0	0	0	14	0	0	0
TOTAL AC. FT.	198	143	0	0	0	0	0	0	809	0	0	0

WHOLE YEAR:- TOTAL, 580 MAX., 125 MIN., 0 MEAN, 2 TOTAL AC.FT., 1,150

DISCHARGE IN CUBIC FEET PER SECOND — Cawelo Water District Diverted via Cross Valley Canal Conduit "A" — Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	112	101	49	0
2	0	0	0	0	0	0	0	0	155	99	48	0
3	0	0	0	0	0	0	0	0	155	98	48	0
4	0	0	0	0	0	0	0	0	144	109	30	0
5	0	0	0	0	0	0	0	0	122	107	41	0
6	0	0	0	0	0	0	0	0	122	102	41	0
7	0	0	0	0	0	0	0	0	152	103	30	0
8	0	0	0	0	0	0	0	0	152	112	44	0
9	0	0	0	0	0	0	0	0	155	61	43	0
10	0	0	0	0	0	0	0	0	155	58	36	0
11	0	0	0	0	0	0	0	0	155	70	29	0
12	0	0	0	0	0	0	0	0	155	111	30	0
13	0	0	0	0	0	0	0	0	155	156	30	0
14	0	0	0	0	0	0	0	0	150	157	28	0
15	0	0	0	0	0	0	0	0	150	77	32	0
16	0	0	0	0	0	0	0	0	146	49	15	0
17	0	0	0	0	0	0	0	0	0	44	16	0
18	0	0	0	0	0	0	0	0	0	118	13	0
19	0	0	0	0	0	0	0	0	0	120	22	0
20	0	0	0	0	0	0	0	0	151	118	14	0
21	0	0	0	0	0	0	0	0	146	120	14	0
22	0	0	0	0	0	0	0	0	150	115	16	0
23	0	0	0	0	0	0	0	0	98	87	17	0
24	0	0	0	0	0	0	0	0	104	85	0	0
25	0	0	0	0	0	0	0	0	66	91	0	0
26	0	0	0	0	0	0	0	0	65	97	0	0
27	0	0	0	0	0	0	0	0	105	73	0	0
28	0	0	0	0	0	0	0	0	102	75	0	0
29	0	-	0	0	0	0	0	0	146	49	0	0
30	0	-	0	0	0	0	0	0	144	44	0	0
31	0	-	0	-	0	-	0	0	-	44	-	0
TOTAL	0	0	0	0	0	0	0	0	3,612	2,850	686	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	155	157	49	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	44	0	0
MEAN	0	0	0	0	0	0	0	0	120	92	23	0
TOTAL AC. FT.	0	0	0	0	0	0	0	0	7,165	5,652	1,361	0

WHOLE YEAR:- TOTAL, 7,148 MAX., 157 MIN., 0 MEAN, 20 TOTAL AC.FT., 14,178

RECAPITULATION OF CITY OF BAKERSFIELD DIVERSIONS FOR KERN-TULARE AND RAG GULCH WATER DISTRICTS

Quantities in acre-feet

Year: 1999

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
+ **Total Basic Contract Diverted**	+	0	0	2,232	2,509	3,848	4,676	4,651	5,323	4,011	0	0	0	**27,250**
Kern-Tulare Water District	-	0	0	1,941	2,182	3,347	4,067	4,045	4,630	3,488	0	0	0	23,700
Rag Gulch Water District	=	0	0	291	327	501	609	606	693	523	0	0	0	3,550
+ **Total Misc. Quantity Diverted**	+	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Kern-Tulare Water District	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Rag Gulch Water District	=	0	0	0	0	0	0	0	0	0	0	0	0	0
= **Total Diverted**		**0**	**0**	**2,232**	**2,509**	**3,848**	**4,676**	**4,651**	**5,323**	**4,011**	**0**	**0**	**0**	**27,250**
via Calloway Canal	+	0	0	1,849	2,081	2,983	3,206	3,828	3,544	3,008	0	0	0	20,499
River Transportation Loss/Spreading	+	0	0	383	428	780	1,397	809	1,704	989	0	0	0	6,490
Carrier Canal Recharge	+	0	0	0	0	85	73	14	75	14	0	0	0	261
via Kern River Canal & Irrigating Co.	+	0	0	0	0	0	0	0	0	0	0	0	0	0
via Pioneer Project	+	0	0	0	0	0	0	0	0	0	0	0	0	0
- **Total Diverted to I.D. #4**	=	**0**	**0**	**2,232**	**2,509**	**3,848**	**4,676**	**4,651**	**5,323**	**4,011**	**0**	**0**	**0**	**27,250**
Kern-Tulare Water District	-	0	0	1,941	2,182	3,347	4,067	4,045	4,630	3,488	0	0	0	23,700
Rag Gulch Water District	=	0	0	291	327	501	609	606	693	523	0	0	0	3,550
via Arvin-Edison Turnout	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Canal Transportation Loss	+	0	0	0	0	0	0	0	0	0	0	0	0	0
- **Total Diverted to Arvin-Edison T.O.**	=	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Kern-Tulare Water District	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Rag Gulch Water District	=	0	0	0	0	0	0	0	0	0	0	0	0	0
= **Via North Kern Water Storage District**	+	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Kern-Tulare Water District	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Rag Gulch Water District	=	0	0	0	0	0	0	0	0	0	0	0	0	0

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted for Kern-Tulare WD
(Kern-Tulare WD/Improvement District No. 4 Exchange)
(Basic Contract)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	36	35	42	56	65	51	52	0	0	0
2	0	0	31	39	41	49	67	70	59	0	0	0
3	0	0	36	40	34	54	51	70	95	0	0	0
4	0	0	36	36	40	53	50	76	99	0	0	0
5	0	0	31	33	46	56	59	77	93	0	0	0
6	0	0	35	34	51	56	51	63	60	0	0	0
7	0	0	35	26	55	52	56	63	57	0	0	0
8	0	0	36	20	49	53	57	58	54	0	0	0
9	0	0	21	17	41	49	57	59	63	0	0	0
10	0	0	33	30	57	42	58	61	63	0	0	0
11	0	0	20	36	64	45	54	79	58	0	0	0
12	0	0	30	34	51	48	51	86	50	0	0	0
13	0	0	28	33	57	52	55	87	52	0	0	0
14	0	0	25	32	47	45	59	87	57	0	0	0
15	0	0	29	32	52	44	93	90	47	0	0	0
16	0	0	21	37	61	78	90	82	65	0	0	0
17	0	0	33	41	52	90	106	75	52	0	0	0
18	0	0	35	44	55	218	106	84	59	0	0	0
19	0	0	27	45	55	178	69	83	49	0	0	0
20	0	0	29	41	43	59	77	104	56	0	0	0
21	0	0	27	45	41	81	70	89	49	0	0	0
22	0	0	29	43	52	79	50	68	50	0	0	0
23	0	0	27	49	53	57	57	67	46	0	0	0
24	0	0	40	46	48	62	57	76	52	0	0	0
25	0	0	47	43	47	64	63	97	60	0	0	0
26	0	0	36	33	54	68	54	77	57	0	0	0
27	0	0	31	41	57	69	70	56	51	0	0	0
28	0	0	34	39	101	68	74	55	50	0	0	0
29	0	-	39	33	90	68	77	63	60	0	0	0
30	0	-	28	43	84	58	67	102	44	0	0	0
31	0	-	34	-	67	-	69	79	-	0	-	0
TOTAL	0	0	979	1,100	1,687	2,051	2,039	2,334	1,759	0	0	0
MAXIMUM DAY	0	0	47	49	101	218	106	104	99	0	0	0
MINIMUM DAY	0	0	20	17	34	42	50	51	44	0	0	0
MEAN	0	0	32	37	54	68	66	75	59	0	0	0
TOTAL AC. FT.	0	0	1,941	2,182	3,347	4,067	4,045	4,630	3,488	0	0	0

WHOLE YEAR:- TOTAL, 11,949 MAX., 218 MIN., 0 MEAN, 33 TOTAL AC.FT., 23,700

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted for Rag Gulch WD
(Rag Gulch WD/Improvement District No. 4 Exchange)
(Basic Contract)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	5	5	6	8	10	8	8	0	0	0
2	0	0	5	6	6	7	10	10	9	0	0	0
3	0	0	5	6	5	8	8	11	15	0	0	0
4	0	0	5	5	6	8	7	11	15	0	0	0
5	0	0	5	5	7	8	9	12	14	0	0	0
6	0	0	5	5	8	8	8	9	9	0	0	0
7	0	0	5	4	8	8	8	10	8	0	0	0
8	0	0	5	3	7	8	9	9	8	0	0	0
9	0	0	4	3	6	7	9	9	9	0	0	0
10	0	0	5	4	9	6	9	9	9	0	0	0
11	0	0	4	5	10	7	8	12	9	0	0	0
12	0	0	4	5	8	7	8	13	8	0	0	0
13	0	0	4	5	9	8	8	13	8	0	0	0
14	0	0	4	5	7	7	9	13	8	0	0	0
15	0	0	4	5	8	7	14	13	7	0	0	0
16	0	0	4	6	9	12	14	12	10	0	0	0
17	0	0	5	6	8	13	15	11	8	0	0	0
18	0	0	5	7	8	33	15	13	9	0	0	0
19	0	0	4	7	8	27	10	13	7	0	0	0
20	0	0	4	6	6	9	11	16	8	0	0	0
21	0	0	4	7	6	12	11	13	7	0	0	0
22	0	0	4	7	8	12	8	10	7	0	0	0
23	0	0	4	7	8	9	9	10	7	0	0	0
24	0	0	6	7	7	9	9	11	8	0	0	0
25	0	0	7	6	7	10	9	15	9	0	0	0
26	0	0	5	5	8	10	8	11	9	0	0	0
27	0	0	5	6	8	10	10	8	8	0	0	0
28	0	0	5	6	15	10	11	8	7	0	0	0
29	0	-	6	5	14	10	12	9	9	0	0	0
30	0	-	4	6	13	9	10	16	7	0	0	0
31	0	-	5	-	10	-	10	12	-	0	-	0
TOTAL	0	0	146	165	253	307	306	350	264	0	0	0
MAXIMUM DAY	0	0	7	7	15	33	15	16	15	0	0	0
MINIMUM DAY	0	0	4	3	5	6	7	8	7	0	0	0
MEAN	0	0	5	6	8	10	10	11	9	0	0	0
TOTAL AC. FT.	0	0	291	327	501	609	606	693	523	0	0	0

WHOLE YEAR:- TOTAL, 1,791 MAX., 33 MIN., 0 MEAN, 5 TOTAL AC.FT., 3,550

IMPROVEMENT DISTRICT NO. 4
KERN RIVER SUPPLY AND DIVERSION RECAP

YEAR: 1999

Quantities in acre-feet

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	Treatment Plant	+	1639	1398	1675	1912	2775	2988	3592	3204	2811	2636	1914	1788	28332
	Calloway Canal Operational Losses	+	124	127	151	155	164	178	198	184	160	135	107	99	1782
	Calloway Canal Below "99"	+	0	0	23	14	44	40	38	118	58	101	26	10	472
	Cross Valley Canal Filling Losses	+	0	0	0	0	0	0	0	4	0	0	0	0	4
	Cross Valley Canal Reverse Flow	+	0	0	0	0	0	0	0	34	0	0	0	0	34
	Cross Valley Canal River Turnout #4	+	0	0	0	0	0	0	0	0	0	0	0	0	0
+	Sub-total Calloway Canal	=	1763	1525	1849	2081	2983	3206	3828	3544	3029	2872	2047	1897	30624
+	KRC&I Co. #1 Ditch Spreading		0	0	0	0	0	0	0	0	0	0	0	0	0
+	KRC&I Co. #1 Ditch to Cally. Spreading		0	0	0	0	0	0	0	0	0	0	0	0	0
	Truxtun Lakes	+	103	10	0	0	85	73	14	75	14	0	6	240	620
	Arvin-Edison WSD Turnout	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Carrier Canal Loss/Spdg.	+	48	0	0	0	0	0	0	0	0	0	6	109	163
+	Sub-total via Carrier Canal	=	151	10	0	0	85	73	14	75	14	0	12	349	783
	River Loss/Spdg. Above Cally. Weir	+	379	177	383	428	494	194	0	217	680	557	536	470	4515
	River Spreading Below Cally. Weir	+	1127	735	0	0	286	1203	809	1487	313	64	0	258	6282
+	Sub-total River Loss/Spreading	=	1506	912	383	428	780	1397	809	1704	993	621	536	728	10797
+	Via James Canal		0	0	0	0	0	0	0	0	0	0	0	0	0
+	Via Boswell Turnout		0	0	0	0	0	0	0	0	0	0	0	0	0
+	Via Pioneer Canal Inlet		0	0	0	0	0	0	0	0	0	0	0	0	0
+	Via Pioneer North		0	0	0	0	0	0	0	0	0	0	0	0	0
+	Kern Water Bank at 2nd Point		0	0	0	0	0	0	0	0	0	0	0	0	0
=	**Improvement District #4 Total Diverted**		**3420**	**2447**	**2232**	**2509**	**3848**	**4676**	**4651**	**5323**	**4036**	**3493**	**2595**	**2974**	**42204**
	Kern-Tulare WD Basic Contract	+	0	0	1941	2182	3347	4067	4045	4630	3488	0	0	0	23700
	Rag Gulch WD Basic Contract	+	0	0	291	327	501	609	606	693	523	0	0	0	3550
+	Sub-total K-TWD/RGWD Basic Contract	=	0	0	2232	2509	3848	4676	4651	5323	4011	0	0	0	27250
	Kern-Tulare WD 1999 Miscellaneous	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rag Gulch WD 1999 Miscellaneous	+	0	0	0	0	0	0	0	0	0	0	0	0	0
+	Sub-total K-TWD/RGWD '99 Misc.	=	0	0	0	0	0	0	0	0	0	0	0	0	0
	City Truxtun Lake Exchange	+	1339	0	0	0	0	0	0	0	0	0	0	0	1339
	City Miscellaneous	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Friant-Kern Exchange	+	210	956	0	0	0	0	0	0	0	0	0	0	1166
+	Sub-total City	=	1549	956	0	0	0	0	0	0	0	0	0	0	2505
+	North Kern WSD Exchange		0	1491	0	0	0	0	0	0	0	0	523	1734	3748
+	Hacienda WD Exchange (Includes Rio Bravo Wells)		0	0	0	0	0	0	0	0	25	3493	2072	1240	6830
+	Rosedale RBWSD Exchange		657	0	0	0	0	0	0	0	0	0	0	0	657
+	Kern Delta WD Exchange		1214	0	0	0	0	0	0	0	0	0	0	0	1214
=	**Improvement District #4 Total Supply**		**3420**	**2447**	**2232**	**2509**	**3848**	**4676**	**4651**	**5323**	**4036**	**3493**	**2595**	**2974**	**42204**

KERN RIVER WATER DELIVERIES
ARVIN-EDISON WATER STORAGE DISTRICT

Quantities in acre-feet except where noted...

1999 YEAR

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Delivered	**1,349**	**153**	**0**	**0**	**2,555**	**8,894**	**10,697**	**7,854**	**4,040**	**960**	**0**	**0**	**36,502**
Mean CFS Delivery	***22***	***3***	***0***	***0***	***42***	***149***	***174***	***128***	***68***	***16***	***0***	***0***	
Source of Supply:													
City of Bakersfield Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern-Tulare/Rag Gulch	0	0	0	0	0	0	0	0	0	0	0	0	0
Improvement District #4	0	0	0	0	0	0	0	0	0	0	0	0	0
Rosedale RBWSD	0	0	0	0	0	0	0	0	0	0	0	0	0
Hacienda WD	0	0	0	0	2,555	8,894	10,697	7,854	0	0	0	0	30,000
Buena Vista WSD	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern Delta WD	0	0	0	0	0	0	0	0	4,040	960	0	0	5,000
Sub-Total	**0**	**0**	**0**	**0**	**2,555**	**8,894**	**10,697**	**7,854**	**4,040**	**960**	**0**	**0**	**35,000**
Kern Island Canal (KDWD)	1,349	153	0	0	0	0	0	0	0	0	0	0	1,502
Total	**1,349**	**153**	**0**	**0**	**2,555**	**8,894**	**10,697**	**7,854**	**4,040**	**960**	**0**	**0**	**36,502**

Total Flow via the Rosedale Channel at Head (All Sources)

DISCHARGE IN CUBIC FEET PER SECOND (Diverted from Kern River Channel) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	206	0	0	0	0	0	0	0	0	0	0
2	0	205	0	0	0	0	0	0	0	0	0	0
3	0	211	0	0	0	0	0	0	0	0	0	0
4	0	205	0	0	0	0	0	0	0	0	0	0
5	0	205	0	0	0	0	0	0	0	0	0	0
6	0	204	0	0	0	0	0	0	0	0	0	0
7	0	206	0	0	0	0	0	0	0	0	0	0
8	0	203	0	0	0	0	0	0	0	0	0	0
9	0	202	0	0	0	0	0	0	0	0	0	0
10	0	204	0	0	0	0	0	0	0	0	0	0
11	0	205	0	0	0	0	0	0	0	0	0	0
12	0	207	0	0	0	0	0	0	0	0	0	0
13	0	201	0	0	0	0	0	0	0	0	0	0
14	0	173	0	0	0	0	0	0	0	0	0	0
15	0	113	0	0	0	0	0	0	0	0	0	0
16	0	81	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	34	0	0	0	0	0	0	0	0	0	0
19	0	129	0	0	0	0	0	0	0	0	0	0
20	0	167	0	0	0	0	0	16	0	0	0	0
21	0	175	0	0	0	0	0	34	0	0	0	0
22	35	176	0	0	0	0	0	31	0	0	0	0
23	50	208	0	0	0	0	0	14	0	0	0	0
24	99	195	0	0	0	0	0	0	0	0	0	0
25	190	174	0	0	0	0	0	0	0	0	0	0
26	234	176	0	0	0	0	0	0	0	0	0	0
27	226	176	0	0	0	0	0	0	0	0	0	0
28	226	141	0	0	0	0	0	0	0	0	0	0
29	208	-	0	0	0	0	0	0	0	0	0	0
30	212	-	0	0	0	0	0	0	0	0	0	0
31	214	-	0	-	0	-	0	0	-	0	-	0
TOTAL	1,694	4,782	0	0	0	0	0	95	0	0	0	0
MAXIMUM DAY	234	211	0	0	0	0	0	34	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	55	171	0	0	0	0	0	3	0	0	0	0
TOTAL AC. FT.	3,360	9,485	0	0	0	0	0	188	0	0	0	0

WHOLE YEAR:- TOTAL, 6,571 MAX., 234 MIN., 0 MEAN, 18 TOTAL AC.FT., 13,033

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted for Rosedale-Rio Bravo WSD
(Rosedale RBWSD/Improvement District No. 4 Exchange)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	86	0	0	0	0	0	0	0	0	0	0	0
23	81	0	0	0	0	0	0	0	0	0	0	0
24	81	0	0	0	0	0	0	0	0	0	0	0
25	28	0	0	0	0	0	0	0	0	0	0	0
26	32	0	0	0	0	0	0	0	0	0	0	0
27	23	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	331	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	86	0	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	11	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	657	0	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 331 MAX., 86 MIN., 0 MEAN, 1 TOTAL AC.FT., 657

Arvin-Edison WSD Diverted for Rosedale-Rio Bravo WSD

DISCHARGE IN CUBIC FEET PER SECOND **(Rosedale RBWSD/A-EWSD Friant-Kern Exchange)** **Year: 1999**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	34	0	0	0	0	0	0	0	0	0	0
19	0	129	0	0	0	0	0	0	0	0	0	0
20	0	167	0	0	0	0	0	0	0	0	0	0
21	0	175	0	0	0	0	0	0	0	0	0	0
22	0	142	0	0	0	0	0	0	0	0	0	0
23	0	131	0	0	0	0	0	0	0	0	0	0
24	0	162	0	0	0	0	0	0	0	0	0	0
25	0	174	0	0	0	0	0	0	0	0	0	0
26	0	176	0	0	0	0	0	0	0	0	0	0
27	0	176	0	0	0	0	0	0	0	0	0	0
28	0	141	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	1,607	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	176	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	57	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	3,187	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 1,607 MAX., 176 MIN., 0 MEAN, 4 TOTAL AC.FT., 3,187

DISCHARGE IN CUBIC FEET PER SECOND

Improvement District No. 4 Diverted via the Rosedale Channel at Head
(Rosedale Recharge Project)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	16	0	0	0	0
21	0	0	0	0	0	0	0	34	0	0	0	0
22	0	0	0	0	0	0	0	31	0	0	0	0
23	0	0	0	0	0	0	0	14	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	0	0	95	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	34	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	3	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	0	0	188	0	0	0	0

WHOLE YEAR:- TOTAL, 95 MAX., 34 MIN., 0 MEAN, 0 TOTAL AC.FT., 188

Improvement District No. 4 Diverted via Cross Valley Canal RRB #2 Turnout

DISCHARGE IN CUBIC FEET PER SECOND (Rosedale Recharge Project) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	39	30	28	0
2	0	0	0	0	0	0	0	0	40	30	28	0
3	0	0	0	0	0	0	0	0	37	30	27	0
4	0	0	0	0	0	0	0	0	35	30	20	0
5	0	0	0	0	0	0	0	0	35	30	11	0
6	0	0	0	0	0	0	0	0	34	30	12	0
7	0	0	0	0	0	0	0	0	34	30	10	0
8	0	0	0	0	0	0	0	0	35	30	10	0
9	0	0	0	0	0	0	0	0	35	30	11	0
10	0	0	0	0	0	0	0	0	35	30	2	0
11	0	0	0	0	0	0	0	0	35	30	0	0
12	0	0	0	0	0	0	0	0	34	30	0	0
13	0	0	0	0	0	0	0	0	35	30	0	0
14	0	0	0	0	0	0	0	0	35	30	0	0
15	0	0	0	0	0	0	0	0	35	30	0	0
16	0	0	0	0	0	0	0	0	35	30	0	0
17	0	0	0	0	0	0	0	0	15	30	0	0
18	0	0	0	0	0	0	0	0	27	30	0	0
19	0	0	0	0	0	0	0	0	35	30	0	0
20	0	0	0	0	0	0	0	0	34	30	0	0
21	0	0	0	0	0	0	0	0	30	29	0	0
22	0	0	0	0	0	0	0	0	30	28	0	0
23	0	0	0	0	0	0	0	16	30	30	0	0
24	0	0	0	0	0	0	0	29	30	29	0	0
25	0	0	0	0	0	0	0	29	30	28	0	0
26	0	0	0	0	0	0	0	29	30	29	0	0
27	0	0	0	0	0	0	0	29	30	29	0	0
28	0	0	0	0	0	0	0	29	30	29	0	0
29	0	-	0	0	0	0	0	30	30	29	0	0
30	0	-	0	0	0	0	0	32	30	28	0	0
31	0	-	0	-	0	-	0	37	-	27	-	0
TOTAL	0	0	0	0	0	0	0	260	979	915	159	0
MAXIMUM DAY	0	0	0	0	0	0	0	37	40	30	28	0
MINIMUM DAY	0	0	0	0	0	0	0	0	15	27	0	0
MEAN	0	0	0	0	0	0	0	8	33	30	5	0
TOTAL AC. FT.	0	0	0	0	0	0	0	516	1,942	1,815	315	0

WHOLE YEAR:- TOTAL, 2,313 MAX., 40 MIN., 0 MEAN, 6 TOTAL AC.FT., 4,588

City of Bakersfield Diverted to Wm. Bolthouse Farms, Inc.

DISCHARGE IN CUBIC FEET PER SECOND — via Rosedale Channel (Miscellaneous) — Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	4	0	0	0	0	0	0	0	0	0	0
2	0	2	0	0	0	0	0	0	0	0	0	0
3	0	3	0	0	0	0	0	0	0	0	0	0
4	0	3	0	0	0	0	0	0	0	0	0	0
5	0	3	0	0	0	0	0	0	0	0	0	0
6	0	1	0	0	0	0	0	0	0	0	0	0
7	0	2	0	0	0	0	0	0	0	0	0	0
8	0	2	0	0	0	0	0	0	0	0	0	0
9	0	1	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	2	0	0	0	0	0	0	0	0	0	0
12	0	2	0	0	0	0	0	0	0	0	0	0
13	0	2	0	0	0	0	0	0	0	0	0	0
14	0	2	0	0	0	0	0	0	0	0	0	0
15	0	3	0	0	0	0	0	0	0	0	0	0
16	0	26	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	58	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	26	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	2	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	115	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 58 MAX., 26 MIN., 0 MEAN, 0 TOTAL AC.FT., 115

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT

Hydrographic and Accounting Report by City of Bakersfield

Quantities in acre-feet

Year: 1999

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	(a)	(b)	(c)	(d)	(e)		(f)		(g)		(h)	(i)		(j)
							Basic Contract		Miscellaneous		Other Supply			
	Friant-Kern Inflow	Friant-Kern Delivered	SWP Inflow	SWP Delivered	River Canal Transportation Charge on Column 2	Total Kern River Delivered	No Charge (1st 4000)	acre-feet Sold at $1.00	acre-feet Sold at $6.00	acre-feet Sold at $21.00	Kern River Floodwater	Friant-Kern	Hacienda WD Exchange	Improvement District No.4
January	0	0	0	0	0	4,017	4,000	17	0	0	0	0	0	0
February	3,187	3,187	0	0	0	6,183	0	5,983	200	0	0	3,187	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0	0	0	0	0	0
August	0	0	188	188	0	0	0	0	0	0	0	0	0	188
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3,187	3,187	188	188	0	10,200	4,000	6,000	200	0	0	3,187	0	188

3.899 = Current Escalator 3.899

$0.00 = Totals $23,394.00

(per 1961 Agreement)

48,695	0	1998
49,226	0	1997
38,603	0	1996
57,383	0	1995
194,107	0	*Five Year Totals*
38,821	0	*Five Year Averages*
2.043	2.043	*Current Escalator*
$12.26	$42.90	*Current Price per acre-foot*
$475,945.46	$0.00	*Five Year Average Sales*
$475,945.46		*May 31, 2000 Payment*

Preceding Four Years

Notes:
(a) As charged RRBWSD by U.S.B.R.
(b) Column 1 less transportation losses.
(c) As charged RRBWSD by KCWA.
(d) Column 3 less transportation losses.
(e) $0.10 per acre-foot escalated annually (31.6 = 1-82 base index).
(f) $1.00 per acre-foot escalated annually (31.6 = 1-82 base index) after the first 4,000 AcFt of each successive 10,000 acre-feet delivered.
(g) Subject to annual escalation per 1976 agreement (62.8 = 1-82 base index).
(h) Delivered during periods of Kern River Mandatory Release when designated by U.S. Army Corps of Engineers.
(i) Delivered pursuant to terms of A-EWSD/RRBWSD Exchange Agreement dated February 17, 1999.
(j) Reflects Improvement District No. 4 SWP delivery on behalf of Rosedale Recharge Project.

ROSEDALE RBWSD DIVERSION RECAPITULATION

Quantities in acre-feet

YEAR: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Rosedale Channel at Headgate	+	3,360	9,485	0	0	0	0	0	188	0	0	0	0	13,033
City to Bolthouse Farms	-	0	115	0	0	0	0	0	0	0	0	0	0	115
for Rosedale RBWSD	=	**3,360**	**9,370**	**0**	**0**	**0**	**0**	**0**	**188**	**0**	**0**	**0**	**0**	**12,918**
- City Contract Water		3,360	6,183	0	0	0	0	0	0	0	0	0	0	9,543
= Other Water		0	3,187	0	0	0	0	0	188	0	0	0	0	3,375
via James Canal to South Pioneer	+	0	0	0	0	0	0	0	0	0	0	0	0	0
via 2800 Acres to North Pioneer	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Central Pioneer	+	0	0	0	0	0	0	0	0	0	0	0	0	0
via Pioneer Canal Inlet	+	0	0	0	0	0	0	0	0	0	0	0	0	0
2800 Acre Spreading (Net)	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Channel Spreading	+	0	0	0	0	0	0	0	0	0	0	0	0	0
At Second Point of Measurement	+	0	0	0	0	0	0	0	0	0	0	0	0	0
via Arvin-Edison T.O.	+	0	0	0	0	0	0	0	0	0	0	0	0	0
For Improvement District #4	+	657	0	0	0	0	0	0	0	0	0	0	0	657
Total Diverted	=	**4,017**	**9,370**	**0**	**0**	**0**	**0**	**0**	**188**	**0**	**0**	**0**	**0**	**13,575**

City of Bakersfield Basic Contract	+	4,017	5,983	0	0	0	0	0	0	0	0	0	0	10,000
City of Bakersfield Miscellaneous	+	0	200	0	0	0	0	0	0	0	0	0	0	200
Hacienda WD Exchange	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Buena Vista WSD Purchase	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Improvement District #4	+	0	0	0	0	0	0	0	188	0	0	0	0	188
Friant-Kern A-EWSD Exchange	+	0	3,187	0	0	0	0	0	0	0	0	0	0	3,187
Total Supply	=	**4,017**	**9,370**	**0**	**0**	**0**	**0**	**0**	**188**	**0**	**0**	**0**	**0**	**13,575**

STATUS OF CONTRACT

per terms of

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

Service Agreement, dated August 31, 1961.

Quantities in acre-feet

Year	TOTAL DELIVERED	FRIANT-KERN DELIVERED	TOTAL KERN RIVER DELIVERED	(1) KERN RIVER BASIC CONTRACT DELIVERED	KERN RIVER BASIC CONTRACT OBLIGATION	(2) CARRY FORWARD OVER (UNDER)	END of YEAR CONTRACT BALANCE (3) (4) 60,000
1976	0	0	0	0	10,000	(10,000)	50,000
1977	2,199	0	2,199	2,199	10,000	(7,801)	42,199
1978	76,365	4,371	71,994	10,000	10,000	0	42,199
1979	14,568	9,921	4,647	4,647	10,000	(5,353)	36,846
1980	70,790	4,167	66,623	10,000	10,000	0	36,846
1981	773	0	773	773	10,000	(9,227)	27,619
1982	88,374	40,595	47,779	10,000	10,000	0	27,619
1983	134,534	1,440	133,094	10,000	10,000	0	27,619
1984	38,854	0	38,854	10,000	10,000	0	27,619
1985	20,694	0	20,694	0	10,000	(10,000)	17,619
1986	87,761	5,209	82,552	20,000	10,000	10,000	27,619
1987	6,000	0	6,000	0	10,000	(10,000)	17,619
1988	7,845	0	7,845	0	10,000	(10,000)	7,619
1989	4,500	0	4,500	0	10,000	(10,000)	(2,381)
1990	0	0	0	0	10,000	(10,000)	(12,381)
1991	9,076	0	9,076	9,076	10,000	(924)	(13,305)
1992	1,117	0	1,117	1,117	10,000	(8,883)	(22,188)
1993	55,710	28,820	26,890	10,000	10,000	0	(22,188)
1994	3,039	0	3,039	3,039	10,000	(6,961)	(29,149)
1995	110,777	8,470	102,307	30,000	10,000	20,000	(9,149)
1996	93,257	35,396	57,861	19,149	10,000	9,149	0
1997	97,062	6,612	90,450	10,000	10,000	0	0
1998	113,736	4,432	109,304	25,688	10,000	15,688	15,688
1999	13,387	3,187	10,200	10,000	10,000	0	15,688

(1) Not less than 5,000 acre-feet for any consecutive 5-Year period.
(2) Limit 30,000 acre-feet during any One year.
(3) Gross limit of 60,000 acre-feet.
(4) Pursuant to Article 3.2 of 1976 Agreement No. 76-80; City of Bakersfield carryover credit was 60,000 acre-feet as of January 1, 1976.

CITY OF BAKERSFIELD
STATUS OF MISCELLANEOUS WATER DELIVERIES
TO ROSEDALE RIO BRAVO WATER STORAGE DISTRICT

Quantities in acre-feet

Year: 1999

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
City Entitlement + or - Release	**9,697**	**6,639**	**14,494**	**17,336**	**22,843**	**18,417**	**8,908**	**121**	**516**	**1,230**	**1,190**	**1,230**	**102,621**
Lake Ming	16	16	44	60	77	105	127	121	91	65	42	26	790
North Kern Water Storage District	0	0	0	0	0	5,000	5,000	10,000	0	0	0	0	20,000
Cawelo Water District	0	0	2,122	3,691	6,343	5,810	5,810	5,276	0	0	0	0	29,052
Kern-Tulare Water District	0	0	1,941	2,182	3,347	4,067	4,045	4,630	3,488	0	0	0	23,700
Rag Gulch Water District	0	0	291	327	501	609	606	693	523	0	0	0	3,550
Rosedale Rio Bravo WSD	4,017	5,983	0	0	0	0	0	0	0	0	0	0	10,000
Kern River Canal & Irrigating Co.	0	0	0	0	0	0	0	0	0	0	0	0	0
Truxtun Lakes	0	99	0	0	0	0	0	0	0	0	0	0	99
First Point Passing Second Point	0	0	0	0	0	0	0	0	0	0	0	0	0
Transportation Loss Assignment	0	0	0	0	0	0	0	0	0	0	0	0	0
Isabella Reservoir Loss	85	113	194	293	695	917	1,051	505	219	163	111	89	4,435
River Transportation Loss	1,534	2,635	309	492	584	1,094	1,402	1,140	(1)	0	0	(1)	9,188
Total Basic Commitments	**5,652**	**8,846**	**4,901**	**7,045**	**11,547**	**17,602**	**18,041**	**22,365**	**4,320**	**228**	**153**	**114**	**100,814**

Total City Miscellaneous Water.....	**1,807**
Rosedale Rio Bravo WSD 1/3 Share.....	**602**

Misc. Water Delivered to RRBWSD	0	200	0	0	0	0	0	0	0	0	0	0	200
Del. under Art.11,Sec. 2.1 (i)(7)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Misc. Delivered to RRBWSD	**0**	**200**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**200**

Over (Under) City Miscellaneous Water Obligation.....	**(402)**
Prior Year Miscellaneous Water Delivery Balance.....	**(7,942)**
Cumulative Miscellaneous Water Delivery Balance.....	**(8,344)**

STATUS OF CONTRACT

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

Cumulative Miscellaneous Water Balance

Pursuant to June 6, 1976 Agreement No. 76-80

Quantities in acre-feet

Year	(A) TOTAL CITY MISCELLANEOUS DELIVERED	(B) RRBWSD 1/3 SHARE OF MISC.	(C) MISC. WATER DELIVERED TO RRBWSD (1)	(D) OVER (UNDER) 1/3 SHARE	(E) END OF YEAR CUMULATIVE MISC. WATER BALANCE
					0
1977	0	0	0	0	0
1978	75,473	25,158	29,405	4,247	4,247
1979	34,885	11,628	0	(11,628)	(7,381)
1980	81,572	27,191	28,246	1,055	(6,326)
1981	1,634	545	0	(545)	(6,871)
1982	184,335	61,445	37,779	(23,666)	(30,537)
1983	64,686	21,562	12,292	(9,270)	(39,807)
1984	56,816	18,939	20,856	1,917	(37,890)
1985	50,537	16,846	20,694	3,848	(34,042)
1986	161,307	53,769	56,590	2,821	(31,221)
1987	0	0	6,000	6,000	(25,221)
1988	2,157	719	7,845	7,126	(18,095)
1989	3,838	1,279	4,500	3,221	(14,874)
1990	0	0	0	0	(14,874)
1991	0	0	0	0	(14,874)
1992	0	0	0	0	(14,874)
1993	49,610	16,537	16,890	353	(14,521)
1994	0	0	0	0	(14,521)
1995	91,532	30,511	57,383	26,872	12,351
1996	131,683	43,894	38,603	(5,291)	7,060
1997	196,451	65,484	49,226	(16,258)	(9,198)
1998	142,316	47,439	48,695	1,256	(7,942)
1999	1,807	602	200	(402)	(8,344)

Notes:

(1) Includes water delivered pursuant to Article II, Section 2.1 (i) (7) of Agreement No. 76-80, "Failure to Accept Water".
Column (B) = Column (A) x 1/3.
Column (D) = Column (C) minus Column (B).

KERN RIVER CANAL & IRRIGATING COMPANY

CITY OF BAKERSFIELD

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+	187	0	0	341	2,581	1,053	0	0	0	0	0	0	4,162
Release	+ or -	2,001	32	0	0	0	0	0	0	0	0	0	0	2,033
ENTITLEMENT + OR - RELEASE	=	**2,188**	**32**	**0**	**341**	**2,581**	**1,053**	**0**	**0**	**0**	**0**	**0**	**0**	**6,195**
Oilfield Discharge	+	10	0	0	0	0	0	0	0	0	0	0	24	34
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Into Isabella Storage	-	2,180	0	0	69	740	81	0	0	0	0	0	0	3,070
From Isabella Storage	+	32	162	1,073	1,238	244	712	1,422	1,250	1,043	1,101	432	488	9,197
To NKWSD in Isabella Storage	-	0	0	0	0	0	0	0	0	0	0	0	0	0
DIVERTED AT HEAD	=	**50**	**194**	**1,073**	**1,510**	**2,085**	**1,684**	**1,422**	**1,250**	**1,043**	**1,101**	**432**	**512**	**12,356**
Irrigation Deliveries	-	10	143	890	1,225	1,060	1,075	1,133	1,006	880	925	342	397	9,086
NKWSD at Seventh Standard Line	-	0	0	0	103	774	315	0	0	0	0	0	0	1,192
Cawelo WD at Pump Station "B"	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Spreading Deliveries	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Canal Loss	=	40	51	183	182	251	294	289	244	163	176	90	115	2,078
Irrigation Delivery Percentage		20%	74%	83%	88%	88%	83%	80%	80%	84%	84%	79%	78%	83%

Into Isabella Storage		2,180	0	0	69	740	81	0	0	0	0	0	0	3,070
Isabella Evaporation Loss		171	103	151	156	272	325	363	337	290	211	105	75	2,559
From Isabella Storage		32	162	1,073	1,238	244	712	1,422	1,250	1,043	1,101	432	488	9,197
Transfer in Storage		0	10,633	0	0	0	0	0	0	0	0	0	0	10,633
End of Month Isabella Storage		**27,486**	**16,588**	**15,364**	**14,039**	**14,263**	**13,307**	**11,522**	**9,935**	**8,602**	**7,290**	**6,753**	**6,190**	

SOUTH FORK DIVERSION RIGHT SUMMARY

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+	615	555	0	105	238	179	2	0	0	0	0	0	1,694
Release	+ or -	(542)	(249)	16	20	84	14	22	0	271	645	549	0	830
Entitlement + or - Releases	=	**73**	**306**	**16**	**125**	**322**	**193**	**24**	**0**	**271**	**645**	**549**	**0**	**2,524**
Into Isabella Storage	-	0	306	0	61	171	118	24	0	210	587	497	0	1,974
From Isabella Storage	+	0	0	0	0	2	56	133	107	48	0	0	0	346
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	=	**73**	**0**	**16**	**64**	**153**	**131**	**133**	**107**	**109**	**58**	**52**	**0**	**896**
Old South Fork		0	0	0	0	0	0	0	0	0	0	0	0	0
Panama Ranch		73	0	16	64	153	131	133	107	109	58	52	0	896

Into Isabella Storage		0	306	0	61	171	118	24	0	210	587	497	0	1,974
From Isabella Storage		0	0	0	0	2	56	133	107	48	0	0	0	346
Transfer in Storage		0	0	0	0	0	0	0	0	0	0	1,628	0	1,628
End of Month Isabella Storage		**600**	**906**	**906**	**967**	**1,136**	**1,198**	**1,089**	**982**	**1,144**	**1,731**	**600**	**600**	

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted to Kern Delta Water District
(Miscellaneous)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	2	2	1	0	0	0	0	0
2	0	0	0	0	2	2	1	0	0	0	0	0
3	0	0	0	0	2	1	3	0	0	0	0	0
4	0	0	0	0	0	0	1	0	0	0	0	0
5	0	0	0	2	1	0	1	0	0	0	0	0
6	0	0	0	2	1	0	0	0	0	0	0	0
7	0	0	0	1	1	0	0	0	0	0	0	0
8	0	0	0	0	1	2	0	0	0	0	0	0
9	0	0	0	0	1	1	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	2	0	0	0	0	0	0	0
13	0	0	0	0	2	0	1	0	0	0	0	0
14	0	0	0	0	2	0	1	0	0	0	0	0
15	0	0	0	0	0	0	2	0	0	0	0	0
16	0	0	0	1	0	0	0	0	0	0	0	0
17	0	0	0	1	2	0	0	0	0	0	0	0
18	0	0	0	1	2	0	0	0	0	0	0	0
19	0	0	0	1	2	0	0	0	0	0	0	0
20	0	0	0	1	1	0	1	0	0	0	0	0
21	0	0	0	1	1	0	2	0	0	0	0	0
22	0	0	0	2	0	0	0	0	0	0	0	0
23	0	0	0	2	0	0	2	0	0	0	0	0
24	0	0	0	2	1	0	0	0	0	0	0	0
25	0	0	0	1	1	0	1	0	0	0	0	0
26	0	0	0	1	1	0	0	0	0	0	0	0
27	0	0	0	2	2	0	0	0	0	0	0	0
28	0	0	3	2	0	0	0	0	0	0	0	0
29	0	-	3	2	0	0	0	0	0	0	0	0
30	0	-	3	0	0	0	0	0	0	0	0	0
31	0	-	0	-	2	-	0	0	-	0	-	0
TOTAL	0	0	9	25	32	8	17	0	0	0	0	0
MAXIMUM DAY	0	0	3	2	2	2	3	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	1	1	0	1	0	0	0	0	0
TOTAL AC. FT.	0	0	18	49	63	16	34	0	0	0	0	0

WHOLE YEAR:- TOTAL, 91 MAX., 3 MIN., 0 MEAN, 0 TOTAL AC.FT., 180

City of Bakersfield Diverted to California Water Service Company

DISCHARGE IN CUBIC FEET PER SECOND (Pursuant to Agreement No. 99-05 W.B. dated June 30, 1999) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	1	1
2	0	0	0	0	0	0	0	0	0	0	1	0
3	0	0	0	0	0	0	0	0	0	0	1	1
4	0	0	0	0	0	0	0	0	0	0	1	0
5	0	0	0	0	0	0	0	0	0	0	1	1
6	0	0	0	0	0	0	0	0	0	0	1	0
7	0	0	0	0	0	0	0	0	0	0	1	1
8	0	0	0	0	0	0	0	0	0	0	1	0
9	0	0	0	0	0	0	0	0	0	0	1	1
10	0	0	0	0	0	0	0	0	0	0	1	0
11	0	0	0	0	0	0	0	0	0	0	1	1
12	0	0	0	0	0	0	0	0	0	0	1	1
13	0	0	0	0	0	0	0	0	0	2	1	0
14	0	0	0	0	0	0	0	0	0	1	1	1
15	0	0	0	0	0	0	0	0	0	1	1	0
16	0	0	0	0	0	0	0	0	0	2	1	1
17	0	0	0	0	0	0	0	0	0	1	1	0
18	0	0	0	0	0	0	0	0	0	2	1	1
19	0	0	0	0	0	0	0	0	0	2	1	1
20	0	0	0	0	0	0	0	0	0	1	1	0
21	0	0	0	0	0	0	0	0	0	2	1	1
22	0	0	0	0	0	0	0	0	0	1	1	0
23	0	0	0	0	0	0	0	0	0	2	1	1
24	0	0	0	0	0	0	0	0	0	1	1	0
25	0	0	0	0	0	0	0	0	0	2	1	1
26	0	0	0	0	0	0	0	0	0	1	1	0
27	0	0	0	0	0	0	0	0	0	2	1	1
28	0	0	0	0	0	0	0	0	0	2	1	0
29	0	-	0	0	0	0	0	0	0	1	1	1
30	0	-	0	0	0	0	0	0	0	1	1	1
31	0	-	0	-	0	-	0	0	-	2	-	0
TOTAL	0	0	0	0	0	0	0	0	0	29	30	17
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	2	1	1
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	1	0
MEAN	0	0	0	0	0	0	0	0	0	1	1	1
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	58	59	34

WHOLE YEAR:- TOTAL, 76 MAX., 2 MIN., 0 MEAN, 0 TOTAL AC.FT., 151

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted to Olcese Water District
(Pursuant to Agreement No. 99-05 W.B. dated June 30, 1999)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	1	0
2	0	0	0	0	0	0	0	0	0	0	1	1
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	1
5	0	0	0	0	0	0	0	0	0	0	1	0
6	0	0	0	0	0	0	0	0	0	0	1	1
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	1	1
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	1	1
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	1	1
13	0	0	0	0	0	0	0	0	0	1	0	0
14	0	0	0	0	0	0	0	0	0	1	1	1
15	0	0	0	0	0	0	0	0	0	2	0	0
16	0	0	0	0	0	0	0	0	0	1	0	1
17	0	0	0	0	0	0	0	0	0	1	1	0
18	0	0	0	0	0	0	0	0	0	1	1	1
19	0	0	0	0	0	0	0	0	0	1	0	0
20	0	0	0	0	0	0	0	0	0	2	1	1
21	0	0	0	0	0	0	0	0	0	1	0	0
22	0	0	0	0	0	0	0	0	0	1	1	1
23	0	0	0	0	0	0	0	0	0	1	1	0
24	0	0	0	0	0	0	0	0	0	2	0	1
25	0	0	0	0	0	0	0	0	0	1	0	0
26	0	0	0	0	0	0	0	0	0	1	1	1
27	0	0	0	0	0	0	0	0	0	1	0	0
28	0	0	0	0	0	0	0	0	0	1	1	1
29	0	-	0	0	0	0	0	0	0	2	0	0
30	0	-	0	0	0	0	0	0	0	1	0	0
31	0	-	0	-	0	-	0	0	-	1	-	1
TOTAL	0	0	0	0	0	0	0	0	0	23	15	15
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	2	1	1
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	1	1	0
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	45	30	30

WHOLE YEAR:- TOTAL, 53 MAX., 2 MIN., 0 MEAN, 0 TOTAL AC.FT., 105

DISCHARGE IN CUBIC FEET PER SECOND | City of Bakersfield Diverted to Kern Valley Golf Course | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	1	0	1	0	0	0	0
2	0	0	0	1	1	0	1	0	1	1	0	0
3	0	0	0	0	0	1	0	1	0	0	1	0
4	0	0	1	0	0	0	1	0	1	0	0	1
5	0	0	0	0	0	1	0	1	0	1	0	0
6	0	0	0	0	1	0	1	0	0	0	0	0
7	0	0	0	0	0	1	0	1	1	0	1	0
8	0	0	0	0	1	0	1	0	0	1	0	0
9	0	0	0	0	0	1	0	1	1	0	0	0
10	0	0	0	0	0	0	1	0	0	0	0	0
11	0	0	0	0	0	1	0	1	0	0	0	0
12	0	0	0	0	1	0	1	0	1	1	0	0
13	0	0	0	0	0	1	0	1	0	0	1	1
14	1	0	0	0	0	0	1	0	0	0	0	0
15	0	0	0	0	0	1	0	1	1	0	0	0
16	0	0	0	1	1	0	1	0	0	0	0	0
17	0	0	1	0	0	1	0	1	1	1	0	0
18	0	0	0	0	1	0	1	0	0	0	0	0
19	0	0	0	0	0	0	0	1	1	0	0	0
20	0	0	0	0	0	1	1	0	0	0	0	0
21	0	1	0	1	1	0	0	1	0	0	1	0
22	0	0	0	0	0	1	1	0	1	1	0	0
23	0	0	0	0	1	0	0	1	0	0	0	0
24	0	0	0	0	0	0	1	0	0	0	0	0
25	0	0	1	1	0	1	0	0	1	0	0	0
26	0	0	0	0	1	0	1	1	0	1	0	0
27	0	0	0	0	0	1	0	0	1	0	0	0
28	0	0	0	0	1	0	1	1	0	0	0	1
29	0	-	1	1	0	0	0	0	1	0	0	0
30	0	-	0	0	1	1	1	1	0	1	1	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	1	1	4	5	11	14	15	15	12	8	5	3
MAXIMUM DAY	1	1	1	1	1	1	1	1	1	1	1	1
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	2	2	7	10	22	28	30	29	25	16	10	5

WHOLE YEAR:- TOTAL, 94 MAX., 1 MIN., 0 MEAN, 0 TOTAL AC.FT., 186

DISCHARGE IN CUBIC FEET PER SECOND

Total Water Spread in City of Bakersfield's 2800 Acre Recharge Facility
(All Sources, All Entities)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	75	118	0	0	0	0	0	0	0	0	149	0
2	94	106	0	0	0	0	0	0	0	0	147	0
3	64	184	0	0	0	0	0	0	0	0	147	0
4	74	118	0	0	0	0	0	0	0	0	111	0
5	65	112	0	0	0	0	0	0	0	0	131	0
6	62	107	0	0	0	0	0	0	0	0	69	0
7	61	110	0	0	0	0	0	0	0	0	0	0
8	17	119	0	0	0	0	0	0	0	0	0	0
9	0	91	0	0	0	0	0	0	0	0	0	0
10	0	83	0	0	0	0	0	0	0	0	0	0
11	0	99	0	0	0	0	0	0	0	0	0	0
12	0	85	0	0	0	0	0	0	0	0	0	0
13	0	54	0	61	0	0	0	0	0	0	0	0
14	0	42	0	45	0	0	0	0	0	0	0	0
15	0	67	0	0	0	0	0	0	0	0	0	0
16	0	104	0	0	0	0	0	0	0	0	0	0
17	0	119	0	0	0	0	0	0	0	11	0	0
18	0	140	0	0	0	0	0	0	0	6	0	0
19	0	85	0	0	0	0	0	0	0	22	0	0
20	0	66	0	0	0	0	0	0	0	86	0	0
21	0	64	0	0	0	0	0	0	0	135	0	0
22	0	29	0	0	0	0	0	0	0	131	0	0
23	0	15	0	0	0	0	0	0	0	92	0	0
24	4	53	0	0	0	0	0	0	0	64	0	0
25	32	65	0	0	0	0	0	0	0	46	0	0
26	39	68	0	0	0	0	0	0	0	30	0	0
27	35	58	0	0	0	0	0	0	0	25	0	0
28	29	25	0	0	0	0	0	0	0	48	0	0
29	73	-	0	0	0	0	0	0	0	56	0	0
30	138	-	0	0	0	0	0	0	0	148	0	0
31	128	-	0	-	0	-	0	0	-	145	-	0
TOTAL	990	2,386	0	106	0	0	0	0	0	1,045	754	0
MAXIMUM DAY	138	184	0	61	0	0	0	0	0	148	149	0
MINIMUM DAY	0	15	0	0	0	0	0	0	0	0	0	0
MEAN	32	85	0	4	0	0	0	0	0	34	25	0
TOTAL AC. FT.	1,963	4,732	0	210	0	0	0	0	0	2,073	1,495	0

WHOLE YEAR:- TOTAL, 5,281 MAX., 184 MIN., 0 MEAN, 14 TOTAL AC.FT., 10,473

DISCHARGE IN CUBIC FEET PER SECOND

Buena Vista Water Storage District
2800 Acre Spreading Operations
(Kern River Supply)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	61	0	0	0	0	0	0	0	0
14	0	0	0	45	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	106	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	61	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	4	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	0	0	210	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 106 MAX., 61 MIN., 0 MEAN, 0 TOTAL AC.FT., 210

DISCHARGE IN CUBIC FEET PER SECOND

Kern County Water Agency
2800 Acre Spreading Operations
(All Sources)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	75	118	0	0	0	0	0	0	0	0	149	0
2	94	106	0	0	0	0	0	0	0	0	147	0
3	64	184	0	0	0	0	0	0	0	0	147	0
4	74	118	0	0	0	0	0	0	0	0	111	0
5	65	112	0	0	0	0	0	0	0	0	131	0
6	62	107	0	0	0	0	0	0	0	0	69	0
7	61	110	0	0	0	0	0	0	0	0	0	0
8	17	119	0	0	0	0	0	0	0	0	0	0
9	0	91	0	0	0	0	0	0	0	0	0	0
10	0	83	0	0	0	0	0	0	0	0	0	0
11	0	99	0	0	0	0	0	0	0	0	0	0
12	0	85	0	0	0	0	0	0	0	0	0	0
13	0	54	0	0	0	0	0	0	0	0	0	0
14	0	42	0	0	0	0	0	0	0	0	0	0
15	0	67	0	0	0	0	0	0	0	0	0	0
16	0	104	0	0	0	0	0	0	0	0	0	0
17	0	119	0	0	0	0	0	0	0	11	0	0
18	0	140	0	0	0	0	0	0	0	6	0	0
19	0	85	0	0	0	0	0	0	0	22	0	0
20	0	66	0	0	0	0	0	0	0	86	0	0
21	0	64	0	0	0	0	0	0	0	135	0	0
22	0	29	0	0	0	0	0	0	0	131	0	0
23	0	15	0	0	0	0	0	0	0	92	0	0
24	4	53	0	0	0	0	0	0	0	64	0	0
25	32	65	0	0	0	0	0	0	0	46	0	0
26	39	68	0	0	0	0	0	0	0	30	0	0
27	35	58	0	0	0	0	0	0	0	25	0	0
28	29	25	0	0	0	0	0	0	0	48	0	0
29	73	-	0	0	0	0	0	0	0	56	0	0
30	138	-	0	0	0	0	0	0	0	148	0	0
31	128	-	0	-	0	-	0	0	-	145	-	0
TOTAL	990	2,386	0	0	0	0	0	0	0	1,045	754	0
MAXIMUM DAY	138	184	0	0	0	0	0	0	0	148	149	0
MINIMUM DAY	0	15	0	0	0	0	0	0	0	0	0	0
MEAN	32	85	0	0	0	0	0	0	0	34	25	0
TOTAL AC. FT.	1,963	4,732	0	0	0	0	0	0	0	2,073	1,495	0

WHOLE YEAR:- TOTAL, 5,175 MAX., 184 MIN., 0 MEAN, 14 TOTAL AC.FT., 10,263

DISCHARGE IN CUBIC FEET PER SECOND | Total Flow via the James Canal Headgate | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	87	121	0	0	0	0	0	0	0	0	0	0
2	77	118	0	0	0	0	0	0	0	0	0	0
3	78	120	0	0	0	0	0	0	0	0	0	0
4	80	121	0	0	0	0	0	0	0	0	0	0
5	81	120	0	0	0	0	0	0	0	0	0	0
6	81	120	0	0	0	0	0	0	0	0	0	0
7	81	120	0	0	0	0	0	0	0	0	0	0
8	50	120	0	0	0	0	0	0	0	0	0	0
9	0	110	0	0	0	0	0	0	0	0	0	0
10	0	103	0	0	0	0	0	0	0	0	0	0
11	0	105	0	0	0	0	0	0	0	0	0	0
12	0	105	0	0	0	0	0	0	0	0	0	0
13	0	97	0	0	0	0	0	0	0	0	0	0
14	0	84	0	0	0	0	0	0	0	0	0	0
15	0	95	0	0	0	0	0	0	0	0	0	0
16	0	91	0	0	0	0	0	0	0	0	0	0
17	0	91	0	0	0	0	0	0	0	0	0	0
18	0	90	0	0	0	0	0	0	0	0	0	0
19	0	90	0	0	0	0	0	0	0	0	0	0
20	0	92	0	0	0	0	0	0	0	0	0	0
21	0	91	0	0	0	0	0	0	0	0	0	0
22	0	91	0	0	0	0	0	0	0	0	0	0
23	0	91	0	0	0	0	0	0	0	0	0	0
24	0	90	0	0	0	0	0	0	0	0	0	0
25	0	89	0	0	0	0	0	0	0	0	0	0
26	0	91	0	0	0	0	0	0	0	0	0	0
27	0	91	0	0	0	0	0	0	0	0	0	0
28	0	50	0	0	0	0	0	0	0	0	0	0
29	41	-	0	0	0	0	0	0	0	0	0	0
30	99	-	0	0	0	0	0	0	0	0	0	0
31	120	-	0	-	0	-	0	0	-	0	-	0
TOTAL	875	2,797	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	120	121	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	50	0	0	0	0	0	0	0	0	0	0
MEAN	28	100	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	1,736	5,548	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 3,672 MAX., 121 MIN., 0 MEAN, 10 TOTAL AC.FT., 7,284

DISCHARGE IN CUBIC FEET PER SECOND | Total Flow via the Berrenda Mesa Pipeline at Head | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	23	0	0	0	0	0	0	0	0	0	28	0
2	25	0	0	0	0	0	0	0	0	0	34	0
3	29	0	0	0	0	0	0	0	0	0	39	0
4	23	0	0	0	0	0	0	0	0	0	41	0
5	29	0	0	0	0	0	0	0	0	0	14	0
6	27	0	0	0	18	0	0	0	0	0	0	0
7	27	0	0	0	43	0	0	0	0	0	0	0
8	16	0	0	0	46	0	0	0	0	0	0	0
9	0	0	0	0	41	0	0	0	0	0	0	0
10	0	0	0	0	36	0	0	0	0	0	0	0
11	0	0	0	0	27	0	0	0	0	0	0	0
12	0	0	0	0	19	0	0	0	0	0	0	0
13	0	0	0	0	8	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	23	0	0	0	0	0	0
19	0	0	0	0	0	29	0	0	0	0	0	0
20	0	0	0	0	0	18	0	0	0	0	0	0
21	0	0	0	0	0	15	0	0	0	0	0	0
22	0	0	0	0	0	6	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	8	0	0
31	0	-	0	-	0	-	0	0	-	22	-	0
TOTAL	199	0	0	0	238	91	0	0	0	30	156	0
MAXIMUM DAY	29	0	0	0	46	29	0	0	0	22	41	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	6	0	0	0	8	3	0	0	0	1	5	0
TOTAL AC. FT.	395	0	0	0	473	180	0	0	0	60	309	0

WHOLE YEAR:- TOTAL, 714 MAX., 46 MIN., 0 MEAN, 2 TOTAL AC.FT., 1,417

Cross Valley Canal - Turnout #1 to Kern River Channel

DISCHARGE IN CUBIC FEET PER SECOND (As reported by Kern County Water Agency) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	149	0
2	0	0	0	0	0	0	0	0	0	0	147	0
3	0	0	0	0	0	0	0	0	0	0	147	0
4	0	0	0	0	0	0	0	0	0	0	111	0
5	0	0	0	0	0	0	0	0	0	0	131	0
6	0	0	0	0	0	0	0	0	0	0	69	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	11	0	0
18	0	0	0	0	0	0	0	0	0	6	0	0
19	0	0	0	0	0	0	0	0	0	22	0	0
20	0	0	0	0	0	0	0	0	0	86	0	0
21	0	0	0	0	0	0	0	0	0	135	0	0
22	0	0	0	0	0	0	0	0	0	131	0	0
23	0	0	0	0	0	0	0	0	0	92	0	0
24	0	0	0	0	0	0	0	0	0	64	0	0
25	0	0	0	0	0	0	0	0	0	46	0	0
26	0	0	0	0	0	0	0	0	0	30	0	0
27	0	0	0	0	0	0	0	0	0	25	0	0
28	0	0	0	0	0	0	0	0	0	48	0	0
29	0	-	0	0	0	0	0	0	0	56	0	0
30	0	-	0	0	0	0	0	0	0	148	0	0
31	0	-	0	-	0	-	0	0	-	145	-	0
TOTAL	0	0	0	0	0	0	0	0	0	1,045	754	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	148	149	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	34	25	0
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	2,073	1,495	0

WHOLE YEAR:- TOTAL, 1,799 MAX., 149 MIN., 0 MEAN, 5 TOTAL AC.FT., 3,568

DISCHARGE IN CUBIC FEET PER SECOND

Cross Valley Canal - Turnout #2 to Kern River Channel
(As reported by Kern County Water Agency)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	3	4	4	4	5	66	0
2	0	0	0	0	0	6	5	5	4	5	97	0
3	0	0	0	0	0	8	4	5	5	5	101	0
4	0	0	6	0	0	7	5	5	5	5	100	0
5	0	0	12	0	0	8	5	5	5	5	53	0
6	0	0	11	0	26	7	5	6	5	5	8	0
7	0	0	10	0	49	8	6	5	5	5	9	0
8	3	0	10	0	49	7	5	4	5	5	9	0
9	5	0	10	0	33	8	5	5	5	5	8	0
10	6	0	9	0	24	7	6	5	5	5	2	0
11	6	0	7	0	25	14	6	5	5	5	0	0
12	6	0	6	0	12	24	6	5	5	5	0	0
13	6	0	7	0	0	24	5	5	5	5	0	0
14	2	0	7	0	0	24	4	5	5	5	0	0
15	0	0	7	0	4	24	4	4	5	5	0	0
16	0	0	7	0	7	23	5	5	4	5	0	0
17	0	0	7	0	7	23	4	5	2	5	0	0
18	0	0	7	0	6	34	4	5	4	5	0	0
19	0	0	7	0	6	34	5	21	5	5	0	0
20	0	0	7	0	6	25	5	36	5	5	0	0
21	0	0	7	0	6	25	4	37	6	4	0	0
22	4	0	7	0	6	18	8	38	5	5	0	0
23	6	0	7	0	5	6	5	24	4	7	0	0
24	7	0	7	0	5	5	4	5	4	7	0	0
25	6	0	7	0	6	6	5	4	5	5	0	0
26	3	0	7	0	7	5	5	5	5	5	0	0
27	0	0	3	0	1	5	4	4	5	7	0	0
28	0	0	0	0	0	6	4	4	4	6	0	0
29	0	-	0	0	0	6	5	5	4	6	0	0
30	0	-	0	0	0	6	5	5	5	17	0	0
31	0	-	0	-	0	-	5	5	-	29	-	0
TOTAL	60	0	182	0	290	406	152	281	140	198	453	0
MAXIMUM DAY	7	0	12	0	49	34	8	38	6	29	101	0
MINIMUM DAY	0	0	0	0	0	3	4	4	2	4	0	0
MEAN	2	0	6	0	9	14	5	9	5	6	15	0
TOTAL AC. FT.	119	0	361	0	575	805	301	557	278	393	898	0

WHOLE YEAR:- TOTAL, 2,162 MAX., 101 MIN., 0 MEAN, 6 TOTAL AC.FT., 4,287

Cross Valley Canal - Turnout #3 to Kern River Channel

DISCHARGE IN CUBIC FEET PER SECOND (As reported by Kern County Water Agency) Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	13	47	3	15	91	94	92	76	75	0
2	0	0	15	44	2	43	89	94	52	77	79	0
3	0	0	19	40	0	53	92	97	0	76	79	0
4	0	0	24	37	0	66	93	97	0	81	77	0
5	0	0	24	36	0	65	94	97	0	82	76	0
6	0	0	25	0	0	68	93	97	0	80	78	0
7	0	0	25	14	0	71	96	97	21	80	80	0
8	0	0	25	44	9	66	96	97	52	80	81	0
9	10	0	31	43	46	63	96	86	51	62	78	0
10	15	0	31	40	74	72	90	89	50	59	26	0
11	18	0	31	46	59	85	87	92	52	61	0	0
12	19	0	30	47	51	98	88	85	55	59	0	0
13	17	0	30	45	50	98	90	85	56	53	0	0
14	18	0	30	42	44	97	92	89	57	45	0	0
15	21	0	31	42	58	95	91	88	53	32	0	0
16	22	0	29	43	70	92	94	87	52	30	14	0
17	22	0	29	43	71	92	95	87	57	30	28	0
18	22	0	33	46	72	92	93	88	76	30	0	0
19	25	0	39	47	66	92	94	83	80	33	0	0
20	26	0	37	47	56	98	95	78	73	32	0	0
21	24	0	37	45	58	100	96	78	75	35	0	0
22	11	0	39	48	72	98	96	78	79	58	0	0
23	0	0	39	62	73	96	98	80	82	70	0	0
24	4	2	39	36	69	95	97	83	81	71	0	0
25	5	7	40	8	69	93	98	83	79	75	0	0
26	6	11	42	5	65	89	96	83	77	73	0	0
27	0	10	43	6	20	91	95	77	76	74	0	0
28	0	11	51	0	2	93	93	79	76	73	0	0
29	0	-	49	0	4	94	97	0	75	74	0	0
30	0	-	46	0	4	94	96	0	71	76	0	0
31	0	-	48	-	3	-	94	31	-	72	-	0
TOTAL	285	41	1,024	1,003	1,170	2,464	2,905	2,479	1,700	1,909	771	0
MAXIMUM DAY	26	11	51	62	74	100	98	97	92	82	81	0
MINIMUM DAY	0	0	13	0	0	15	87	0	0	30	0	0
MEAN	9	1	33	33	38	82	94	80	57	62	26	0
TOTAL AC. FT.	565	81	2,031	1,990	2,321	4,887	5,762	4,917	3,372	3,786	1,529	0

WHOLE YEAR:- TOTAL, 15,751 MAX., 100 MIN., 0 MEAN, 43 TOTAL AC.FT., 31,241

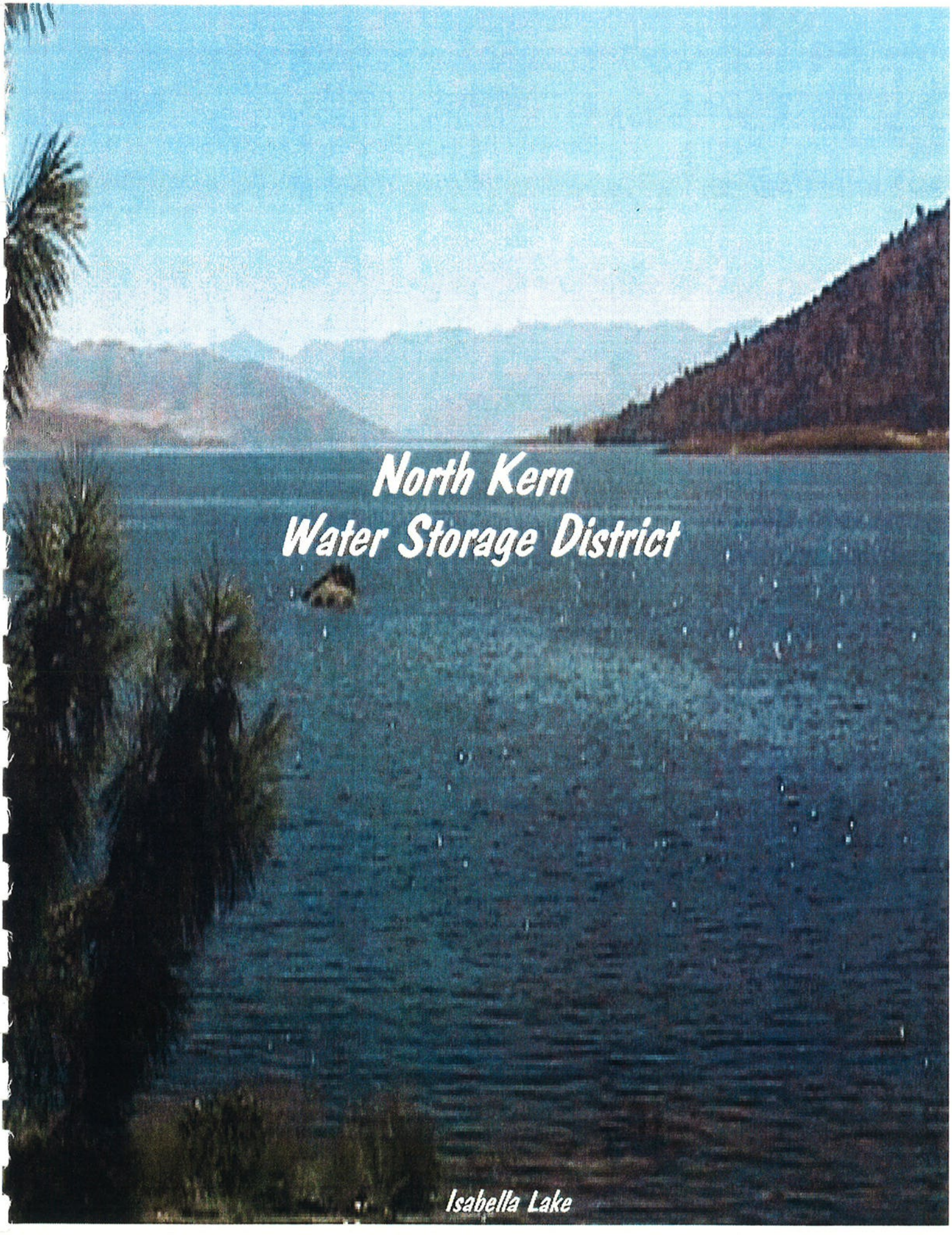
DISCHARGE IN CUBIC FEET PER SECOND

Cross Valley Canal - Turnout #4 to Kern River Channel
(As reported by Kern County Water Agency)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	36	46	62	77	33	34	0	39	39	0
2	0	0	36	37	63	33	33	34	42	39	40	0
3	0	0	36	47	64	33	94	35	124	40	37	0
4	0	0	34	70	68	34	132	35	138	39	37	0
5	0	0	34	32	68	34	136	35	131	38	39	0
6	10	0	35	0	64	29	78	34	131	37	38	0
7	29	0	35	47	68	30	33	34	93	36	43	0
8	31	0	35	43	60	33	34	66	42	37	49	0
9	25	0	45	21	55	33	34	36	34	37	46	0
10	25	0	41	21	57	31	33	12	34	38	14	0
11	25	0	35	21	60	31	33	16	35	38	0	0
12	22	0	35	22	58	32	34	33	35	36	0	0
13	18	0	35	22	47	34	33	34	35	36	0	0
14	19	0	35	22	39	35	34	38	36	36	0	0
15	20	0	35	22	39	34	34	34	35	36	0	0
16	20	0	35	22	39	33	34	32	32	36	63	0
17	19	0	35	9	39	33	33	32	14	36	125	0
18	19	0	35	0	42	33	33	32	33	36	58	0
19	18	0	35	0	37	26	34	32	34	36	0	0
20	20	0	35	0	33	28	33	30	31	35	0	0
21	19	0	35	0	35	32	33	32	32	36	0	0
22	11	0	35	0	37	34	33	33	36	37	0	0
23	0	9	35	0	34	37	34	32	35	36	0	0
24	0	33	56	0	26	36	34	32	34	35	0	0
25	0	36	58	0	26	33	33	33	34	36	0	0
26	0	36	39	0	26	38	34	35	34	37	0	0
27	0	36	45	0	26	34	34	33	37	36	0	0
28	0	36	57	0	74	34	35	17	38	37	0	0
29	0	-	51	32	137	33	34	0	35	34	0	0
30	0	-	43	63	139	33	35	0	35	35	0	0
31	0	-	51	-	117	-	35	0	-	36	-	0
TOTAL	350	186	1,222	599	1,739	1,030	1,349	915	1,439	1,136	628	0
MAXIMUM DAY	31	36	58	70	139	77	136	66	138	40	125	0
MINIMUM DAY	0	0	34	0	26	26	33	0	0	34	0	0
MEAN	11	7	39	20	56	34	44	30	48	37	21	0
TOTAL AC. FT.	694	369	2,424	1,188	3,449	2,043	2,676	1,814	2,854	2,253	1,246	0

WHOLE YEAR:- TOTAL, 10,593 MAX., 139 MIN., 0 MEAN, 29 TOTAL AC.FT., 21,010


North Kern
Water Storage District
Isabella Lake

NORTH KERN WATER STORAGE DISTRICT

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
NKWSD River Entitlement	+	7,726	4,041	127	4,608	17,965	8,198	234	4	0	0	0	0	42,903
Release	+ or -	8,827	6,959	4,548	3,816	1,636	0	162	0	0	1,804	4,547	4,300	36,599
ENTITLEMENT + OR - RELEASE	=	**16,553**	**11,000**	**4,675**	**8,424**	**19,601**	**8,198**	**396**	**4**	**0**	**1,804**	**4,547**	**4,300**	**79,502**
From KRC & Irr. Company	+	0	0	0	103	774	430	107	133	0	40	0	0	1,587
From City of Bakersfield	+	0	369	4,467	2,985	573	6,975	5,000	10,000	0	0	0	0	30,369
From Isabella Reservoir Storage	+	1,575	7,408	0	0	0	1,837	13,081	7,255	9,353	3,178	0	684	44,371
From Cawelo WD	+	0	0	0	0	0	0	0	0	0	0	99	643	742
From Buena Vista WSD	+	0	0	936	1,745	774	208	0	0	0	0	0	0	3,663
From Kern Delta WD	+	0	0	0	0	0	962	610	0	0	0	0	0	1,572
To La Hacienda, Inc.	-	0	0	0	0	0	0	0	0	0	0	0	0	0
To City of Bakersfield	-	0	0	162	428	0	0	0	0	0	0	0	0	590
To Improvement District #4	-	0	1,491	0	0	0	0	0	0	0	0	523	1,734	3,748
To Cawelo WD	-	0	0	0	0	0	0	0	0	0	0	188	404	592
Into Isabella Reservoir Storage	-	4,463	791	1,553	5,929	15,614	9,594	4,514	9,647	0	353	2,997	0	55,455
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	4	4
TOTAL DIVERTED FROM RIVER	=	**13,665**	**16,495**	**8,363**	**6,900**	**6,108**	**9,016**	**14,680**	**7,745**	**9,353**	**4,669**	**938**	**3,493**	**101,425**
Loss to Seventh Standard Line	-	2,272	1,961	107	60	206	185	192	152	142	146	92	80	5,595
Oilfield Discharge	+	419	36	33	29	26	22	87	97	128	76	397	462	1,812
ID#4 Exchange via Calloway Canal	+	0	0	0	0	2,269	3,465	4,203	3,644	1,609	1,002	0	0	16,192
Cawelo WD Exchange via Calloway Canal	+	0	0	0	0	0	0	0	0	0	1,140	169	0	1,309
NKWSD Deep Well Production	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Poso Creek Natural Flow	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Friant-Kern Inflow to Poso Creek	+	0	0	0	253	3,122	1,800	0	0	0	0	0	0	5,175
Other Inflow to Poso Creek	+	2,177	4,737	815	2,073	222	0	0	0	0	0	0	0	10,024
Kern River Canal & Irrigating Company	-	0	0	0	0	0	115	107	133	0	40	0	0	395
Rosedale Ranch Improvement District	-	282	442	0	462	1,221	684	1,071	678	625	351	36	69	5,921
Semitropic WSD via Poso Creek	-	399	1,462	0	0	0	0	0	0	0	0	0	0	1,861
CVC Conduit "A" Inflow	+	0	0	1,549	6,006	9,445	9,362	8,957	8,253	888	3,922	2,039	0	50,421
TOTAL DISTRICT SUPPLY	=	**13,308**	**17,403**	**10,653**	**14,739**	**19,765**	**22,681**	**26,557**	**18,776**	**11,211**	**10,272**	**3,415**	**3,806**	**172,586**
Class 1 Irrigation Deliveries	+	494	1,159	4,784	6,536	10,380	12,797	15,285	10,538	5,550	5,254	1,271	1,202	75,250
Class 2 Irrigation Deliveries	+	166	678	2,526	3,652	5,023	5,768	6,402	4,746	2,531	2,307	415	659	34,873
Semitropic WSD Irrigation Deliveries	+	0	0	48	111	107	74	32	123	109	0	44	0	648
Shafter-Wasco ID Irrigation Deliveries	+	0	0	0	0	0	0	0	0	0	0	0	69	69
TOTAL IRRIGATION USE	=	**660**	**1,837**	**7,358**	**10,299**	**15,510**	**18,639**	**21,719**	**15,407**	**8,190**	**7,561**	**1,730**	**1,930**	**110,840**
District Spreading Ponds (Kern)	+	9,076	11,046	313	185	0	0	0	0	0	0	0	222	20,842
District Spreading Ponds (Other)	+	0	0	0	186	0	0	0	0	0	0	0	0	186
Poso Creek Spreading (Kern)	+	67	0	0	0	0	0	0	0	0	0	0	0	67
Poso Creek Spreading (Other)	+	1,778	3,275	815	1,846	1,321	515	0	0	0	0	0	0	9,550
TOTAL DISTRICT SPREADING	=	**10,921**	**14,321**	**1,128**	**2,217**	**1,321**	**515**	**0**	**0**	**0**	**0**	**0**	**222**	**30,645**
TOTAL DISTRICT USE		**11,581**	**16,158**	**8,486**	**12,516**	**16,831**	**19,154**	**21,719**	**15,407**	**8,190**	**7,561**	**1,730**	**2,152**	**141,485**
Total NKWSD Canal Loss		1,727	1,245	2,167	2,223	2,934	3,527	4,838	3,369	3,021	2,711	1,685	1,654	31,101
Into Reservoir Storage		4,463	791	1,553	5,929	15,614	9,594	4,514	9,647	0	353	2,997	0	55,455
Reservoir Evaporation Loss		397	335	516	627	1,303	1,940	2,290	2,373	1,998	1,507	833	659	14,778
From Reservoir Storage		1,575	7,408	0	0	0	1,837	13,081	7,255	9,353	3,178	0	684	44,371
END OF MONTH RESERVOIR STORAGE		**61,553**	**54,601**	**55,638**	**60,940**	**75,251**	**81,068**	**70,211**	**70,230**	**58,879**	**54,547**	**56,711**	**55,368**	

DISCHARGE IN CUBIC FEET PER SECOND

Total Flow via the Beardsley Canal
(At Head of Lined Section)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	157	192	165	175	209	427	513	389	324	62	14	61
2	0	203	137	138	268	405	520	467	327	60	11	62
3	0	201	162	162	293	369	521	456	310	77	7	73
4	0	194	217	192	260	323	524	454	253	93	15	72
5	0	170	199	129	227	263	534	440	172	111	4	69
6	0	169	171	151	183	195	521	389	172	137	6	75
7	0	171	187	198	184	254	519	336	201	147	14	75
8	0	172	178	262	215	311	513	361	216	124	11	74
9	0	177	179	258	265	336	507	379	253	70	10	61
10	0	189	203	268	245	346	506	365	279	70	10	95
11	0	189	276	275	244	331	496	340	264	98	6	78
12	0	188	267	268	271	299	447	307	221	145	5	68
13	0	183	239	221	308	328	437	234	225	192	7	60
14	0	194	242	228	310	398	457	184	181	179	5	51
15	10	231	228	247	223	513	495	258	131	97	4	46
16	138	254	242	205	174	421	529	377	154	49	6	46
17	178	241	235	200	216	388	510	359	288	27	4	48
18	184	240	180	195	233	362	508	290	217	101	7	71
19	194	205	172	162	232	311	537	269	214	102	19	93
20	202	196	196	127	238	321	512	216	167	100	47	116
21	243	236	204	148	203	366	510	181	170	118	46	175
22	243	246	181	128	178	435	486	202	183	112	46	201
23	243	261	195	125	170	466	441	268	107	75	47	165
24	243	287	177	135	253	448	353	299	82	69	68	105
25	242	290	173	194	291	388	296	331	40	87	62	81
26	188	285	132	247	284	307	364	317	33	93	71	84
27	183	279	103	260	292	342	434	263	97	90	73	126
28	188	268	103	234	386	420	492	283	107	84	81	128
29	204	-	118	255	370	476	531	433	141	62	86	129
30	184	-	180	262	352	525	483	507	120	26	75	127
31	173	-	163	-	419	-	360	444	-	32	-	124
TOTAL	3,397	6,111	5,804	6,049	7,996	11,074	14,856	10,398	5,649	2,889	867	2,839
MAXIMUM DAY	243	290	276	275	419	525	537	507	327	192	86	201
MINIMUM DAY	0	169	103	125	170	195	296	181	33	26	4	46
MEAN	110	218	187	202	258	369	479	335	188	93	29	92
TOTAL AC. FT.	6,738	12,121	11,512	11,998	15,860	21,965	29,466	20,624	11,205	5,730	1,719	5,631

WHOLE YEAR:- TOTAL, 77,929 MAX., 537 MIN., 0 MEAN, 214 TOTAL AC.FT., 154,569

DISCHARGE IN CUBIC FEET PER SECOND | Oilfield Discharge Diverted via Beardsley Canal (Total Flow) | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	2	4	2	2	2	24
2	0	0	0	1	1	0	2	3	2	3	2	30
3	0	1	1	0	0	0	2	3	1	3	2	24
4	0	0	0	1	1	0	2	2	0	3	2	33
5	0	1	1	0	0	0	2	2	0	2	2	28
6	0	0	0	0	1	0	2	2	0	2	2	30
7	0	1	1	1	1	0	2	3	0	1	2	15
8	0	1	0	0	1	0	1	3	0	2	3	5
9	0	0	1	0	1	0	2	3	0	2	3	13
10	0	1	1	0	0	0	3	2	19	3	3	9
11	0	1	0	1	1	0	3	2	27	2	3	12
12	0	1	1	0	1	0	2	2	26	2	2	11
13	0	0	1	0	1	0	2	2	0	2	3	9
14	0	1	1	1	1	0	2	3	0	2	8	7
15	0	1	1	1	1	0	2	3	1	2	7	6
16	0	0	1	1	0	0	2	3	2	3	10	6
17	0	1	0	0	1	0	3	2	2	3	12	10
18	1	1	0	1	1	0	3	2	2	2	12	7
19	0	1	0	1	0	0	2	2	3	2	5	3
20	24	0	1	1	0	0	2	2	2	2	25	4
21	24	0	1	0	0	0	2	3	2	2	23	9
22	24	1	1	1	0	2	2	3	2	2	23	7
23	24	1	0	0	0	2	2	3	2	2	22	8
24	24	1	0	1	0	1	4	2	3	3	23	9
25	24	1	1	0	0	2	4	3	3	3	24	9
26	23	0	1	1	0	3	3	3	3	2	22	9
27	23	1	0	1	0	3	2	3	3	2	22	8
28	25	1	0	1	0	2	3	3	2	2	24	6
29	0	-	1	0	0	1	3	3	2	2	23	10
30	0	-	1	0	0	1	3	1	2	2	22	7
31	0	-	0	-	0	-	3	2	-	2	-	7
TOTAL	216	18	17	15	13	17	74	79	113	69	338	375
MAXIMUM DAY	25	1	1	1	1	3	4	4	27	3	25	33
MINIMUM DAY	0	0	0	0	0	0	1	1	0	1	2	3
MEAN	7	1	1	1	0	1	2	3	4	2	11	12
TOTAL AC. FT.	429	36	33	29	26	34	147	157	223	136	671	744

WHOLE YEAR:- TOTAL, 1,344 MAX., 33 MIN., 0 MEAN, 4 TOTAL AC.FT., 2,665

DISCHARGE IN CUBIC FEET PER SECOND

Total Diverted via
Cross Valley Canal Conduit "A"

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	160	157	159	157	156	112	145	155	0
2	0	0	0	160	157	159	157	156	155	145	155	0
3	0	0	0	69	157	159	58	156	155	145	155	0
4	0	0	0	113	157	159	58	156	152	155	123	0
5	0	0	0	160	157	159	58	156	152	156	123	0
6	0	0	0	81	144	159	157	156	152	156	106	0
7	0	0	0	81	123	159	157	156	152	157	106	0
8	0	0	0	21	123	159	157	116	152	157	106	0
9	0	0	0	46	123	159	157	156	155	157	85	0
10	0	0	0	65	123	159	157	156	155	157	85	0
11	0	0	0	22	160	159	157	156	155	157	65	0
12	0	0	0	0	160	159	157	156	155	157	65	0
13	0	0	0	0	159	159	157	156	155	157	65	0
14	0	0	0	0	159	159	156	156	155	157	46	0
15	0	0	0	60	159	159	156	156	155	157	46	0
16	0	0	0	109	159	159	156	156	151	157	46	0
17	0	0	0	22	159	149	156	156	0	157	36	0
18	0	0	0	0	159	155	156	156	0	157	36	0
19	0	0	0	77	159	133	156	154	0	157	22	0
20	0	0	0	162	159	159	120	154	151	157	22	0
21	0	0	0	162	159	159	156	154	147	157	22	0
22	0	0	0	162	159	159	156	154	150	157	22	0
23	0	0	38	162	159	159	156	154	153	157	22	0
24	0	0	66	162	159	159	156	154	153	157	0	0
25	0	0	66	162	159	149	156	154	154	157	0	0
26	0	0	66	162	159	159	156	154	154	157	0	0
27	0	0	66	162	159	159	156	141	145	157	0	0
28	0	0	91	162	159	159	156	20	145	157	0	0
29	0	-	111	162	159	159	156	0	146	157	0	0
30	0	-	138	162	159	159	156	0	144	157	0	0
31	0	-	139	-	159	-	156	0	-	157	-	0
TOTAL	0	0	781	3,028	4,762	4,720	4,516	4,161	4,060	4,827	1,714	0
MAXIMUM DAY	0	0	139	162	160	159	157	156	155	157	155	0
MINIMUM DAY	0	0	0	0	123	133	58	0	0	145	0	0
MEAN	0	0	25	101	154	157	146	134	135	156	57	0
TOTAL AC. FT.	0	0	1,549	6,006	9,445	9,362	8,957	8,253	8,053	9,574	3,400	0

WHOLE YEAR:- TOTAL, 32,569 MAX., 162 MIN., 0 MEAN, 89 TOTAL AC.FT., 64,599

NORTH KERN WATER STORAGE DISTRICT

BEARDSLEY CANAL OPERATIONS

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River	+	6,738	12,121	11,512	11,998	15,860	21,965	29,466	20,624	11,205	5,730	1,719	5,631	154,569
Oilfield Discharge	+	429	36	33	29	26	34	147	157	223	136	671	744	2,665
C.V.C. Conduit "A"	+	0	0	1,549	6,006	9,445	9,362	8,957	8,253	8,053	9,574	3,400	0	64,599
+ TOTAL BEARDSLEY CANAL SUPPLY	**=**	**7,167**	**12,157**	**13,094**	**18,033**	**25,331**	**31,361**	**38,570**	**29,034**	**19,481**	**15,440**	**5,790**	**6,375**	**221,833**
KRC & Irr. Co. # 1 Lateral (Total Flow)	+	28	16	137	172	252	292	214	168	113	78	20	26	1,516
KRC & Irr. Co. # 4 Lateral	+	14	85	310	438	373	423	383	471	402	469	219	161	3,748
KRC & Irr. Co. # 5 Lateral	+	0	8	347	478	381	235	357	185	268	245	120	147	2,771
KRC & Irr. Co. Bidart Boosters	+	0	57	182	225	211	212	298	232	198	206	37	89	1,947
KRC & Irr. Co. via 1-0-20	+	0	0	0	0	0	0	0	0	0	0	0	0	0
KRC & Irr. Co. via 1-0-80	+	0	0	2	2	1	2	2	0	2	2	0	0	13
Lined Section Loss	+	8	28	61	60	61	60	61	61	60	61	36	50	607
- TOTAL KRC & IRR. CO. DIVERTED	**=**	**50**	**194**	**1,039**	**1,375**	**1,279**	**1,224**	**1,315**	**1,117**	**1,043**	**1,061**	**432**	**473**	**10,602**
Kern River Supply	-	40	194	1,039	1,375	1,279	1,224	1,315	1,117	1,043	1,061	432	449	10,568
Oilfield Discharge Supply	-	10	0	0	0	0	0	0	0	0	0	0	24	34
C.V.C. Conduit "A" Supply	=	0	0	0	0	0	0	0	0	0	0	0	0	0
Cawelo WD via Pump Station "B"	+	180	349	1,866	3,310	7,730	10,889	12,704	10,998	7,640	5,165	1,827	1,759	64,417
Cawelo WD Lerdo Gate Deliveries	+	6	22	205	314	644	666	835	678	286	426	77	70	4,229
Lined Section Loss	+	10	28	61	60	61	60	61	61	60	61	60	61	644
Lerdo Canal Loss	+	2	2	24	39	90	122	145	123	83	60	20	18	728
- TOTAL CAWELO WD DIVERTED	**=**	**198**	**401**	**2,156**	**3,723**	**8,525**	**11,737**	**13,745**	**11,860**	**8,069**	**5,712**	**1,984**	**1,908**	**70,018**
Kern River Supply	-	198	401	2,156	3,723	8,525	11,725	13,685	11,800	809	0	349	1,650	55,021
Oilfield Discharge Supply	-	0	0	0	0	0	12	60	60	95	60	274	258	819
C.V.C. Conduit "A" Supply	=	0	0	0	0	0	0	0	0	7,165	5,652	1,361	0	14,178
- Rosedale Ranch ID Diverted	+	77	36	0	462	1,221	684	1,071	678	625	351	36	69	5,310
Kern River Supply	-	77	36	0	462	1,173	684	1,071	627	625	351	14	69	5,189
C.V.C. Conduit "A" Supply	=	0	0	0	0	48	0	0	51	0	0	22	0	121
- KRC & Irr. Co. Diverted		0	0	0	0	0	0	0	0	0	0	0	39	39
- Kern-Tulare WD/Rag Gulch WD Diverted		0	0	0	0	0	0	0	0	0	0	0	0	0
- Lined Section Loss: NKWSD	+	90	112	61	60	61	60	61	61	60	61	84	72	843
= NKWSD FROM LERDO CANAL	**+**	**6,752**	**11,414**	**9,838**	**12,413**	**14,245**	**17,656**	**22,378**	**15,318**	**9,684**	**8,255**	**3,254**	**3,814**	**135,021**
Kern River Supply	-	6,423	11,490	8,317	6,438	4,883	8,332	13,395	7,080	8,728	4,318	924	3,424	83,752
Oilfield Discharge Supply	-	419	36	33	29	26	22	87	97	128	76	397	462	1,812
C.V.C. Conduit "A" Supply	=	0	0	1,549	6,006	9,397	9,362	8,957	8,202	888	3,922	2,017	0	50,300

DISCHARGE IN CUBIC FEET PER SECOND

Lerdo Canal at Seventh Standard Line (Total Flow)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	154	189	150	323	352	565	642	541	431	192	159	62
2	0	200	123	277	412	535	650	606	470	194	158	70
3	0	199	150	214	437	499	560	593	453	212	155	84
4	0	191	203	295	401	457	566	581	388	229	137	95
5	0	168	186	265	358	398	569	568	308	252	126	94
6	0	166	160	201	301	337	645	519	295	280	110	101
7	0	169	184	242	280	391	651	469	326	289	119	81
8	0	170	142	240	307	446	641	464	342	264	107	68
9	0	174	146	265	358	470	635	516	388	207	86	56
10	0	187	172	293	329	482	627	496	433	197	86	88
11	0	185	236	271	372	463	616	475	424	215	71	71
12	0	184	238	237	399	431	568	439	377	274	69	70
13	0	178	213	192	434	471	566	370	335	313	72	55
14	0	190	220	203	438	526	589	325	298	303	56	44
15	7	227	213	282	355	641	625	407	248	226	54	44
16	135	248	225	293	311	543	656	498	275	185	59	44
17	170	236	207	203	359	503	643	480	257	175	49	55
18	173	236	158	186	366	491	641	415	199	238	52	75
19	188	203	153	223	367	423	670	387	206	239	42	93
20	219	193	178	269	373	468	611	343	305	240	87	115
21	264	233	192	289	336	511	647	324	307	256	88	179
22	264	235	166	274	324	580	630	348	324	251	79	200
23	264	245	213	265	316	614	582	410	255	227	71	164
24	264	274	226	281	393	596	503	442	229	220	73	109
25	263	272	221	329	427	524	446	478	193	236	68	87
26	208	269	183	372	427	457	507	463	186	244	74	90
27	203	274	154	386	434	489	577	394	227	234	76	124
28	210	266	181	366	526	560	637	299	238	233	87	108
29	201	-	222	396	513	610	681	428	271	208	87	129
30	181	-	308	407	494	653	630	496	248	173	72	126
31	170	-	293	-	565	-	510	439	-	182	-	127
TOTAL	3,538	5,961	6,016	8,339	12,064	15,134	18,721	14,013	9,236	7,188	2,629	2,908
MAXIMUM DAY	264	274	308	407	565	653	681	606	470	313	159	200
MINIMUM DAY	0	166	123	186	280	337	446	299	186	173	42	44
MEAN	114	213	194	278	389	504	604	452	308	232	88	94
TOTAL AC. FT.	7,017	11,823	11,933	16,538	23,930	30,017	37,133	27,795	18,318	14,257	5,214	5,769

WHOLE YEAR:- TOTAL, 105,747 MAX., 681 MIN., 0 MEAN, 290 TOTAL AC.FT., 209,744

NORTH KERN WATER STORAGE DISTRICT

LERDO CANAL OPERATIONS

Quantities in acre-feet

Year: 1999

			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
	Total Beardsley Canal Supply	**+**	**7,167**	**12,157**	**13,094**	**18,033**	**25,331**	**31,361**	**38,570**	**29,034**	**19,481**	**15,440**	**5,790**	**6,375**	**221,833**
+	KRC & Irr. Co. Laterals		42	109	794	1,088	1,006	950	954	824	783	792	359	334	8,035
+	KRC & Irr. Co. Boosters		0	57	184	227	212	214	300	232	200	208	37	89	1,960
+	Lined Section Loss: KRC & Irr. Co.		8	28	61	60	61	60	61	61	60	61	36	50	607
=	**KRC & Irr. Co. from Beardsley**	**-**	**50**	**194**	**1,039**	**1,375**	**1,279**	**1,224**	**1,315**	**1,117**	**1,043**	**1,061**	**432**	**473**	**10,602**
	Rosedale Ranch ID via 1-1-0	-	0	0	0	0	0	0	0	0	0	0	0	0	0
	KCWA-ID4 via 1-1-0 Lateral	-	0	0	0	0	0	0	0	0	0	0	0	0	0
	North Kern WSD via 1-1-0	-	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lined Section Loss: Cawelo WD	-	10	28	61	60	61	60	61	61	60	61	60	61	644
	Lined Section Loss: NKWSD	-	90	112	61	60	61	60	61	61	60	61	84	72	843
	Lerdo Canal Total Flow	**=**	**7,017**	**11,823**	**11,933**	**16,538**	**23,930**	**30,017**	**37,133**	**27,795**	**18,318**	**14,257**	**5,214**	**5,769**	**209,744**
	KRC & Irr. Co. via 8-1-0	-	0	0	0	0	0	0	0	0	0	0	0	39	39
	City via 8-1-0	-	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rosedale Ranch ID via Lerdo	-	77	36	0	462	1,221	684	1,071	678	625	351	36	69	5,310
	K-TWD/RGWD via 8-17-0	-	0	0	0	0	0	0	0	0	0	0	0	0	0
+	Cawelo WD Delivered at Sta. "B"		180	349	1,866	3,310	7,730	10,889	12,704	10,998	7,640	5,165	1,827	1,759	64,417
+	Cawelo WD 8-0 Deliveries		6	22	205	314	644	666	835	678	286	426	77	70	4,229
+	Lerdo Loss: to Station "B"		2	2	19	33	77	109	127	110	76	52	18	17	642
+	Lerdo Loss: 8-0 Deliveries		0	0	5	6	13	13	18	13	7	8	2	1	86
=	**Cawelo WD Total from Lerdo**	**-**	**188**	**373**	**2,095**	**3,663**	**8,464**	**11,677**	**13,684**	**11,799**	**8,009**	**5,651**	**1,924**	**1,847**	**69,374**
	North Kern WSD from Lerdo	**=**	**6,752**	**11,414**	**9,838**	**12,413**	**14,245**	**17,656**	**22,378**	**15,318**	**9,684**	**8,255**	**3,254**	**3,814**	**135,021**

DISCHARGE IN CUBIC FEET PER SECOND

Total Flow via the Calloway Canal Headgate

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	128	129	50	30	38	51	67	56	46	53	47	37
2	226	133	33	32	42	45	69	58	49	52	40	33
3	224	126	35	36	35	44	58	59	48	49	40	30
4	211	126	35	37	39	38	57	59	50	45	39	31
5	198	127	29	31	41	48	55	57	53	47	38	35
6	202	131	29	30	45	54	59	56	55	45	41	34
7	221	135	33	23	54	53	64	65	54	43	43	35
8	220	123	35	21	47	46	66	51	58	42	38	30
9	221	131	18	24	40	49	66	53	56	48	30	29
10	216	125	35	29	50	46	67	53	50	52	35	28
11	201	125	19	30	64	49	62	55	49	55	37	31
12	197	127	26	27	53	54	59	52	49	54	34	32
13	178	128	26	28	48	59	63	55	55	49	32	32
14	166	129	27	30	47	52	67	58	56	48	35	32
15	107	125	29	34	46	51	68	58	43	50	36	30
16	29	95	28	37	48	51	70	53	52	44	35	31
17	27	29	26	41	48	51	62	50	55	41	33	28
18	33	33	22	47	51	55	57	51	58	47	29	28
19	37	126	25	47	53	57	59	57	49	47	32	27
20	62	118	28	39	46	56	82	62	50	45	35	27
21	124	126	30	38	41	55	111	53	46	48	33	34
22	130	124	28	38	50	57	96	56	44	51	29	30
23	129	125	31	39	52	63	61	58	42	48	25	38
24	125	141	36	45	53	66	61	58	43	39	25	31
25	126	104	38	46	50	67	62	63	54	44	30	31
26	131	90	29	43	53	55	59	58	56	48	32	29
27	133	103	29	40	53	56	62	55	54	47	30	30
28	129	140	34	39	57	59	63	53	45	43	31	39
29	124	-	43	34	56	63	64	57	55	43	35	26
30	112	-	36	34	80	66	67	104	53	37	33	21
31	134	-	33	-	50	-	55	73	-	44	-	27
TOTAL	4,501	3,274	955	1,049	1,530	1,616	2,038	1,806	1,527	1,448	1,032	956
MAXIMUM DAY	226	141	50	47	80	67	111	104	58	55	47	39
MINIMUM DAY	27	29	18	21	35	38	55	50	42	37	25	21
MEAN	145	117	31	35	49	54	66	58	51	47	34	31
TOTAL AC. FT.	8,928	6,494	1,895	2,081	3,035	3,206	4,042	3,582	3,029	2,872	2,047	1,897

WHOLE YEAR:- TOTAL, 21,732 MAX., 226 MIN., 18 MEAN, 60 TOTAL AC.FT., 43,108

DISCHARGE IN CUBIC FEET PER SECOND

Total Flow Passing Seventh Standard Line
via Calloway Canal for North Kern WSD

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	67	0	0	0	0	55	73	0	45	28	0
2	126	65	0	0	0	51	56	76	0	33	28	0
3	145	75	0	0	0	64	68	76	0	21	18	0
4	130	63	0	0	0	63	67	66	0	29	7	0
5	114	61	0	0	0	59	65	69	0	36	0	0
6	127	63	0	0	0	57	67	72	0	36	0	0
7	150	65	0	0	0	58	65	67	0	38	0	0
8	146	63	0	0	0	64	65	79	0	40	0	0
9	146	75	0	0	0	60	67	83	0	29	0	0
10	139	61	0	0	0	63	59	74	0	22	0	0
11	117	65	0	0	42	56	59	76	6	19	0	0
12	118	53	0	0	47	57	65	66	7	44	0	0
13	101	57	0	0	44	58	66	64	11	39	0	0
14	93	56	0	0	48	70	65	64	20	30	0	0
15	42	53	0	0	49	36	64	66	46	28	0	0
16	0	40	0	0	54	16	64	65	46	26	0	0
17	0	0	0	0	62	53	66	67	24	26	0	0
18	0	0	0	0	70	49	68	65	34	29	0	0
19	0	16	0	0	71	53	70	65	73	35	0	0
20	0	59	0	0	52	59	69	68	65	38	0	0
21	43	60	0	0	70	63	66	76	54	40	0	0
22	58	58	0	0	76	59	102	73	47	42	0	0
23	63	56	0	0	75	60	86	68	44	31	0	0
24	65	36	0	0	76	58	73	70	39	27	0	0
25	64	31	0	0	76	57	74	42	39	33	0	0
26	70	7	0	0	69	57	71	9	40	40	0	0
27	70	19	0	0	70	59	67	4	41	38	0	0
28	71	46	0	0	46	55	67	0	48	33	0	0
29	74	-	0	0	0	56	70	0	44	34	0	0
30	74	-	0	0	0	56	70	0	42	29	0	0
31	68	-	0	-	0	-	71	0	-	27	-	0
TOTAL	2,414	1,370	0	0	1,097	1,626	2,107	1,743	770	1,017	81	0
MAXIMUM DAY	150	75	0	0	76	70	102	83	73	45	28	0
MINIMUM DAY	0	0	0	0	0	0	55	0	0	19	0	0
MEAN	78	49	0	0	35	54	68	56	26	33	3	0
TOTAL AC. FT.	4,788	2,718	0	0	2,176	3,225	4,179	3,458	1,527	2,017	161	0

WHOLE YEAR:- TOTAL, 12,225 MAX., 150 MIN., 0 MEAN, 33 TOTAL AC.FT., 24,249

NORTH KERN WATER STORAGE DISTRICT
CALLOWAY CANAL OPERATIONS

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FLOW AT HEADWORKS	+	**8,928**	**6,494**	**1,895**	**2,081**	**3,035**	**3,206**	**4,042**	**3,582**	**3,029**	**2,872**	**2,047**	**1,897**	**43,108**
KCWA Armco Turnout	-	1,692	1,450	1,729	1,964	2,828	3,041	3,645	3,295	2,858	2,678	1,950	1,826	28,956
Seepage Loss	-	71	75	97	103	111	125	145	131	113	93	71	61	1,196
FLOW AT MEASURING STATION	=	**7,165**	**4,969**	**69**	**14**	**96**	**40**	**252**	**156**	**58**	**101**	**26**	**10**	**12,956**
CVC Turnout to Calloway	+	0	0	135	789	3,685	5,776	6,032	4,721	2,856	3,810	428	0	28,232
Seepage Loss	-	514	436	141	262	270	474	240	67	75	91	83	10	2,663
FLOW AT BUCK OWENS WEIR	=	**6,651**	**4,533**	**63**	**541**	**3,511**	**5,342**	**6,044**	**4,810**	**2,839**	**3,820**	**371**	**0**	**38,525**
Friant-Kern Inflow	+	0	0	0	0	0	0	0	0	0	0	0	0	0
KRC & Irr. Co. 1-1-0 Inflow	+	0	0	0	0	0	0	0	0	0	0	0	0	0
KRC & Irr. Co. Calloway Delivery	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Seepage Loss	-	1,484	1,276	63	541	1,149	1,752	1,496	1,037	1,149	1,593	194	0	11,734
FLOW AT LABORDE WEIR	=	**5,167**	**3,257**	**0**	**0**	**2,362**	**3,590**	**4,548**	**3,773**	**1,690**	**2,227**	**177**	**0**	**26,791**
KRC & Irr. Co. Calloway Delivery	-	0	0	0	0	0	89	83	107	0	32	0	27	338
Rosedale Ranch ID at Headworks	-	282	442	0	0	0	0	0	0	0	0	0	69	793
Seepage Loss	-	184	137	0	0	186	276	286	208	163	178	16	20	1,654
NKWSD 8-1-0 Inflow	+	87	40	0	0	0	0	0	0	0	0	0	116	243
FLOW AT SEVENTH STANDARD LINE	=	**4,788**	**2,718**	**0**	**0**	**2,176**	**3,225**	**4,179**	**3,458**	**1,527**	**2,017**	**161**	**0**	**24,249**
for Rosedale Ranch ID	-	0	0	0	0	0	0	0	0	0	0	0	0	0
for North Kern WSD	=	4,788	2,718	0	0	2,176	3,225	4,179	3,458	1,527	2,017	161	0	24,249
KERN COUNTY WATER AGENCY / ID4:														
Operating Loss	+	124	127	151	155	164	178	198	184	160	135	107	99	1,782
Turnout #4 to River	+	0	0	0	0	0	0	0	0	0	0	0	0	0
ID4 Treatment Plant	+	1,639	1,398	1,675	1,912	2,775	2,988	3,592	3,204	2,811	2,636	1,914	1,788	28,332
Cross Valley Canal Filling Losses	+	0	0	0	0	0	0	0	4	0	0	0	0	4
CVC Backflow (Net)	+	0	0	0	0	0	0	0	34	0	0	0	0	34
Spreading Below Measuring Station	+	0	0	158	803	1,460	2,351	1,867	1,195	1,305	1,769	285	10	11,203
TOTAL DIVERTED	=	**1,763**	**1,525**	**1,984**	**2,870**	**4,399**	**5,517**	**5,657**	**4,621**	**4,276**	**4,540**	**2,306**	**1,897**	**41,355**
KERN RIVER CANAL & IRRIGATING CO.:														
Calloway Irrigation Deliveries	+	0	0	0	0	0	89	83	107	0	32	0	27	338
Delivery Loss/ Spreading	+	0	0	0	0	0	26	24	26	0	8	0	12	96
TOTAL DIVERTED	=	**0**	**0**	**0**	**0**	**0**	**115**	**107**	**133**	**0**	**40**	**0**	**39**	**434**
ROSEDALE RANCH ID:														
Flow at Headworks	+	282	442	0	0	0	0	0	0	0	0	0	69	793
Flow at Seventh Standard Line	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Assigned Loss	+	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DIVERTED	=	**282**	**442**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**69**	**793**
NORTH KERN WATER STORAGE DISTRICT:														
Flow at Seventh Standard Line	+	4,788	2,718	0	0	2,176	3,225	4,179	3,458	1,527	2,017	161	0	24,249
Total Loss	+	2,182	1,849	46	0	145	125	131	91	82	85	8	8	4,752
TOTAL DIVERTED	=	**6,970**	**4,567**	**46**	**0**	**2,321**	**3,350**	**4,310**	**3,549**	**1,609**	**2,102**	**169**	**8**	**29,001**

DISCHARGE IN CUBIC FEET PER SECOND

North Kern Water Storage District
Class 1 Irrigation Deliveries

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	5	27	221	167	206	255	156	128	65	71	8
2	0	5	57	92	91	231	251	179	155	57	61	24
3	0	5	48	51	226	272	191	202	159	24	66	2
4	0	7	41	29	194	230	130	207	157	117	58	2
5	0	5	59	96	212	208	200	295	83	135	56	6
6	0	5	48	94	95	111	287	277	91	141	34	21
7	0	5	17	91	104	187	319	228	77	129	23	26
8	0	5	62	101	97	185	372	131	87	150	53	14
9	11	5	84	87	52	218	296	212	132	114	18	22
10	11	5	85	64	190	187	257	193	126	35	18	15
11	11	0	86	67	205	181	181	181	105	108	11	20
12	13	7	104	81	190	142	241	189	30	102	7	20
13	10	11	93	77	202	128	215	163	93	119	8	17
14	10	15	72	86	218	242	231	137	123	95	0	13
15	14	19	88	148	188	230	311	118	84	112	6	10
16	10	19	88	161	91	247	316	222	101	93	26	5
17	11	23	88	103	131	268	264	179	99	19	21	0
18	24	28	96	77	182	247	169	148	56	80	25	0
19	25	24	90	118	199	206	277	161	24	76	13	0
20	25	33	83	86	234	119	255	170	117	109	11	43
21	22	27	37	95	195	206	270	168	119	104	8	47
22	25	37	70	91	169	201	303	87	130	75	6	78
23	17	37	75	91	87	230	271	147	125	55	8	13
24	0	43	125	136	195	285	218	153	84	43	6	3
25	0	59	122	88	228	262	108	143	45	74	5	3
26	0	55	104	143	239	234	207	191	14	66	4	0
27	0	55	74	150	186	144	237	136	77	108	0	24
28	0	40	45	172	197	264	254	159	81	113	0	42
29	0	-	85	189	149	283	284	56	56	91	5	53
30	5	-	128	210	119	298	279	161	40	29	13	61
31	5	-	131	-	201	-	257	164	-	11	-	14
TOTAL	249	584	2,412	3,295	5,233	6,452	7,706	5,313	2,798	2,649	641	606
MAXIMUM DAY	25	59	131	221	239	298	372	295	159	150	71	78
MINIMUM DAY	0	0	17	29	52	111	108	56	14	11	0	0
MEAN	8	21	78	110	169	215	249	171	93	85	21	20
TOTAL AC. FT.	494	1,159	4,784	6,536	10,380	12,797	15,285	10,538	5,550	5,254	1,271	1,202

WHOLE YEAR:- TOTAL, 37,938 MAX., 372 MIN., 0 MEAN, 104 TOTAL AC.FT., 75,250

North Kern Water Storage District

DISCHARGE IN CUBIC FEET PER SECOND — Class 2 Irrigation Deliveries — Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11	0	38	104	55	120	124	66	77	30	45	0
2	0	3	34	79	40	74	111	111	71	35	37	0
3	0	3	47	51	81	71	103	118	70	9	32	0
4	4	3	54	14	101	66	45	129	48	46	23	0
5	1	0	60	44	61	81	84	133	15	35	30	0
6	4	0	34	52	70	49	95	115	47	56	11	0
7	5	0	26	60	56	102	95	86	54	37	3	0
8	8	0	43	80	35	93	70	52	53	40	3	3
9	8	0	49	84	20	76	84	110	44	16	4	2
10	6	0	29	60	109	68	73	105	63	5	0	2
11	2	5	46	8	94	75	55	92	53	31	2	0
12	3	3	61	7	86	86	112	100	6	21	0	0
13	3	0	37	25	111	80	114	107	34	24	0	2
14	4	0	14	13	65	109	125	97	38	28	0	2
15	4	3	36	28	69	115	109	37	39	31	0	2
16	4	0	44	43	40	92	124	81	31	32	0	2
17	2	5	24	63	144	111	99	76	43	11	2	2
18	4	5	42	52	141	116	69	71	31	45	3	2
19	5	20	40	87	99	91	131	72	0	44	2	2
20	2	22	15	109	111	52	133	65	52	58	2	37
21	1	26	2	50	84	119	136	37	45	52	2	60
22	1	32	21	52	69	136	119	30	47	58	2	48
23	0	32	81	62	57	153	91	59	48	43	2	58
24	0	44	94	64	120	165	87	57	42	27	2	15
25	0	47	78	95	103	118	52	69	13	53	2	10
26	0	55	68	57	85	124	131	65	4	64	0	9
27	0	17	12	106	92	65	138	51	56	71	0	23
28	0	17	5	77	53	93	146	49	69	59	0	12
29	1	-	15	107	94	99	143	27	54	43	0	14
30	1	-	50	108	75	109	119	60	29	39	0	17
31	0	-	75	-	112	-	111	66	-	20	-	8
TOTAL	84	342	1,274	1,841	2,532	2,908	3,228	2,393	1,276	1,163	209	332
MAXIMUM DAY	11	55	94	109	144	165	146	133	77	71	45	60
MINIMUM DAY	0	0	2	7	20	49	45	27	0	5	0	0
MEAN	3	12	41	61	82	97	104	77	43	38	7	11
TOTAL AC. FT.	166	678	2,526	3,652	5,023	5,768	6,402	4,746	2,531	2,307	415	659

WHOLE YEAR:- TOTAL, 17,582 MAX., 165 MIN., 0 MEAN, 48 TOTAL AC.FT., 34,873

DISCHARGE IN CUBIC FEET PER SECOND | Total Diverted to Rosedale Ranch Improvement District | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	12	18	18	12	9	9	0
2	0	0	0	0	0	12	18	18	12	9	9	10
3	0	0	0	0	20	0	18	18	12	6	0	10
4	4	0	0	0	20	0	18	18	12	9	0	0
5	12	0	0	12	12	12	18	18	12	9	0	10
6	6	0	0	12	32	12	18	18	12	9	0	5
7	4	0	0	12	32	12	18	18	12	9	0	0
8	4	0	0	2	2	12	18	18	12	9	0	0
9	4	0	0	1	1	12	18	12	12	0	0	0
10	4	5	0	2	13	12	18	12	12	0	0	0
11	4	15	0	0	12	12	18	9	9	9	0	0
12	4	12	0	0	12	12	18	9	6	9	0	0
13	4	7	0	0	12	12	18	9	12	9	0	0
14	6	8	0	12	24	12	18	9	12	9	0	0
15	10	10	0	16	28	12	18	9	12	9	0	0
16	8	12	0	16	28	12	18	9	12	0	0	0
17	7	10	0	0	12	12	18	9	12	0	0	0
18	8	8	0	0	12	12	18	0	12	9	0	0
19	8	7	0	0	12	12	18	0	12	9	0	0
20	8	3	0	12	24	12	18	0	12	9	0	0
21	9	6	0	12	24	12	18	9	12	9	0	0
22	9	5	0	12	24	12	18	9	12	0	0	0
23	9	6	0	12	24	15	0	9	12	0	0	0
24	6	21	0	0	12	18	18	9	12	0	0	0
25	4	19	0	0	20	18	18	9	0	9	0	0
26	0	22	0	20	27	0	18	9	0	9	0	0
27	0	25	0	20	32	0	18	9	9	9	0	0
28	0	22	0	20	32	18	18	12	9	0	0	0
29	0	-	0	20	44	18	18	12	9	0	0	0
30	0	-	0	20	44	18	18	12	9	0	0	0
31	0	-	0	-	24	-	18	12	-	0	-	0
TOTAL	142	223	0	233	615	345	540	342	315	177	18	35
MAXIMUM DAY	12	25	0	20	44	18	18	18	12	9	9	10
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	5	8	0	8	20	12	17	11	11	6	1	1
TOTAL AC. FT.	282	442	0	462	1,221	684	1,071	678	625	351	36	69

WHOLE YEAR:- TOTAL, 2,985 MAX., 44 MIN., 0 MEAN, 8 TOTAL AC.FT., 5,921

ROSEDALE RANCH IMPROVEMENT DISTRICT

Quantities in acre-feet

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
TOTAL DIVERTED	+	**282**	**442**	**0**	**462**	**1,221**	**684**	**1,071**	**678**	**625**	**351**	**36**	**69**	**5,921**
RRID at Headgate	-	282	442	0	0	0	0	0	0	0	0	0	69	793
RRID via NKWSD 5-2 Lateral	-	0	0	0	0	0	0	0	0	0	0	0	0	0
RRID via NKWSD 5-7 Lateral	-	0	0	0	462	1,221	684	1,071	678	625	351	36	0	5,128
Upstream Diversion Loss	=	0	0	0	0	0	0	0	0	0	0	0	0	0
IRRIGATION DELIVERIES	+	**78**	**302**	**0**	**462**	**1,221**	**684**	**1,071**	**678**	**625**	**351**	**36**	**0**	**5,508**
City of Bakersfield Miscellaneous	-	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Bakersfield Non-Kern River	-	0	0	0	0	0	0	0	0	0	0	0	0	0
NKWSD Kern River Exchange	-	78	302	0	462	1,173	684	1,071	627	625	351	14	0	5,387
NKWSD SWP Exchange	=	0	0	0	0	48	0	0	51	0	0	22	0	121
LOSS & SPREADING	+	**204**	**140**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**69**	**413**
City of Bakersfield Miscellaneous	-	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Bakersfield Non-Kern River	-	0	0	0	0	0	0	0	0	0	0	0	0	0
NKWSD Kern River Exchange	-	204	140	0	0	0	0	0	0	0	0	0	69	413
NKWSD SWP Exchange	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Floodwater	=	0	0	0	0	0	0	0	0	0	0	0	0	0
RECHARGE PURCHASE PROGRAM	+	**0**	**369**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**369**
City of Bakersfield Miscellaneous	-	0	369	0	0	0	0	0	0	0	0	0	0	369
City of Bakersfield Non-Kern River	=	0	0	0	0	0	0	0	0	0	0	0	0	0
NKWSD/RRID EXCHANGE STATUS														
RRID to NKWSD	+	0	369	0	0	0	0	0	0	0	0	0	0	369
NKWSD to RRID	-	282	442	0	0	0	0	0	0	0	92	36	69	921
Exchange Balance	=	**9,975**	**9,902**	**9,902**	**9,902**	**9,902**	**9,902**	**9,902**	**9,902**	**9,902**	**9,810**	**9,774**	**9,705**	

DISCHARGE IN CUBIC FEET PER SECOND | Poso Creek as Measured at Highway "99" (Total Flow) | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9	89	25	9	23	0	0	0	0	0	0	0
2	0	111	28	12	23	0	0	0	0	0	0	0
3	0	100	21	13	19	0	0	0	0	0	0	0
4	0	92	18	13	10	0	0	0	0	0	0	0
5	19	87	15	8	10	0	0	0	0	0	0	0
6	19	83	17	20	10	0	0	0	0	0	0	0
7	20	82	19	23	9	0	0	0	0	0	0	0
8	26	78	18	24	6	0	0	0	0	0	0	0
9	26	132	18	18	2	0	0	0	0	0	0	0
10	26	144	15	26	0	0	0	0	0	0	0	0
11	0	162	20	37	0	0	0	0	0	0	0	0
12	0	133	17	49	0	0	0	0	0	0	0	0
13	0	125	5	60	0	0	0	0	0	0	0	0
14	0	113	11	59	0	0	0	0	0	0	0	0
15	0	101	19	61	0	0	0	0	0	0	0	0
16	0	91	9	69	0	0	0	0	0	0	0	0
17	0	89	11	66	0	0	0	0	0	0	0	0
18	22	85	8	63	0	0	0	0	0	0	0	0
19	40	75	8	57	0	0	0	0	0	0	0	0
20	54	64	10	46	0	0	0	0	0	0	0	0
21	19	63	8	42	0	0	0	0	0	0	0	0
22	119	56	11	36	0	0	0	0	0	0	0	0
23	65	61	7	39	0	0	0	0	0	0	0	0
24	56	46	8	40	0	0	0	0	0	0	0	0
25	96	33	5	36	0	0	0	0	0	0	0	0
26	117	30	9	31	0	0	0	0	0	0	0	0
27	89	33	8	29	0	0	0	0	0	0	0	0
28	74	30	11	23	0	0	0	0	0	0	0	0
29	59	-	9	19	0	0	0	0	0	0	0	0
30	69	-	12	17	0	0	0	0	0	0	0	0
31	74	-	11	-	0	-	0	0	-	0	-	0
TOTAL	1,098	2,388	411	1,045	112	0	0	0	0	0	0	0
MAXIMUM DAY	119	162	28	69	23	0	0	0	0	0	0	0
MINIMUM DAY	0	30	5	8	0	0	0	0	0	0	0	0
MEAN	35	85	13	35	4	0	0	0	0	0	0	0
TOTAL AC. FT.	2,177	4,737	815	2,073	222	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 5,054 MAX., 162 MIN., 0 MEAN, 14 TOTAL AC.FT., 10,024

NORTH KERN WATER STORAGE DISTRICT
STATUS OF EXCHANGE

Quantities in acre-feet

Year: 1999

	KERN DELTA WD		CAWELO WD		LA HACIENDA, INC.		IMPROVEMENT DISTRICT NO.4		KERN-TULARE WD		RAG GULCH WD		ROSEDALE RANCH ID		PARAMOUNT FARMING CO.		SEMITROPIC WSD		SHAFTER-WASCO ID		SOUTHERN SAN JOAQUIN MUD	
	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from
Prior Year Status	0	0	695	0	0	5,824	5,564	0	0	0	0	0	0	10,257	0	31,739	0	1,328	0	31,270	0	10,868
January	0	0	0	0	0	0	0	0	0	0	0	0	282	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	1,491	0	0	0	0	0	442	369	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	1,568	0	0	0	0	0	0	0	0	48	0	0	0	0	0
April	0	0	0	0	0	0	0	6,036	0	0	0	0	0	0	462	0	111	0	0	0	0	0
May	0	0	0	0	0	0	0	11,756	0	0	0	0	0	0	1,221	0	107	0	0	0	0	0
June	962	962	0	0	0	0	0	13,845	0	0	0	0	0	0	684	1,800	74	0	0	0	0	0
July	610	610	0	0	0	0	0	13,825	0	0	0	0	0	0	1,071	0	32	0	0	0	0	0
August	0	0	0	0	0	0	0	11,995	0	0	0	0	0	0	678	0	123	0	0	0	0	0
September	0	0	0	0	0	0	0	2,507	0	0	0	0	0	0	625	0	109	0	0	0	0	0
October	0	0	0	3,615	0	0	0	2,468	0	0	0	0	92	0	259	0	0	0	0	0	0	0
November	0	0	188	2,320	0	0	523	0	0	0	0	0	36	0	0	0	44	0	0	0	0	0
December	0	0	404	643	0	0	1,734	0	0	0	0	0	69	0	0	0	0	0	0	0	0	0
Total	1,572	1,572	592	6,578	0	0	3,748	64,000	0	0	0	0	921	369	5,000	1,800	648	0	0	0	0	0
Current Status	0	0	0	5,291	0	5,824	0	54,688	0	0	0	0	0	9,705	0	28,539	0	680	0	31,270	0	10,868

NORTH KERN WATER STORAGE DISTRICT

IMPROVEMENT DISTRICT NO. 4 WATER EXCHANGE SUMMARY

1999

Quantities in acre-feet

Pursuant to North Kern WSD/Improvement District #4 Accounting Agreement Dated March 1, 1995

CATEGORY "A"				CATEGORY "B"			
Date	*NKWSD to ID4*	*ID4 to NKWSD*	*Cumulative Exchange Balance*	*Date*	*NKWSD to ID4*	*ID4 to NKWSD*	*Cumulative Exchange Balance*
1988	12,163	7,796	4,367	1988	0	0	0
1989	0	0	4,367	1989	0	0	0
1990	0	1,630	2,737	1990	0	0	0
1991	0	261	2,476	1991	395	0	395
1992	0	0	2,476	1992	0	0	395
1993	12,557	9,434	5,599	1993	0	0	395
1994	0	0	5,599	1994	0	0	395
1995	0	8,635	(3,036)	1995	0	0	395
1996	0	0	(3,036)	1996	0	0	395
1997	3,882	0	846	1997	0	0	395
1998	4,323	0	5,169	1998	0	0	395
1999	3,748	64,000	(55,083)	1999	0	0	395
Totals	**36,673**	**91,756**		**Totals**	**395**	**0**	

CATEGORY "A"

Priority

ID4 Priority 3 with figure of ten (10) years used in balance for use in ID4 "Priority equation D".

Point of Delivery

At any location along Cross Valley Canal provided North Kern WSD pays all incremental transportation costs and losses in the Cross Valley Canal. Incremental cost and losses shall not include fixed costs, overhead, and losses that would have occurred whether or not North Kern's water was being transported.

CATEGORY "B"

Priority

ID4 Priority 2.

Point of Delivery

Beardsley Canal.

Excerpt From Priorities and Principles Governing Utilization of ID4 State Project Entitlement For Exchange Paybacks

Priority 2.

Exchanges with stipulated repayment schedules, repayment upon demand and residual amounts from firm regulated sources.

Priority 3.

Mutually agreeable schedules within specified time periods, however as limited by Priority Equation D below.

Priority Equation D.

Paybacks within Priority 3 shall be allocated in proportion to to time remaining and amount owed. Each exchangor shall be considered equally with others in Priority 3 up to an amount computed by dividing the total amount owed by the number of years remaining in the term. If ID4 is unable to repay amounts owed in the last year of a Priority 3 payback said amounts will be carried over to the following calendar year and thereafter on a year-to-year basis. However, if amounts owed in Priority 3 are available for payback in the last year of a mutually agreeable repayment term and the exchangor declines payback the amounts owed will be extinguished on December 31st of the last year.

DISCHARGE IN CUBIC FEET PER SECOND — North Kern Water Storage District Diverted to Improvement District No. 4 — Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	39
2	0	0	0	0	0	0	0	0	0	0	0	27
3	0	0	0	0	0	0	0	0	0	0	0	40
4	0	0	0	0	0	0	0	0	0	0	0	38
5	0	0	0	0	0	0	0	0	0	0	0	41
6	0	0	0	0	0	0	0	0	0	0	0	41
7	0	0	0	0	0	0	0	0	0	0	0	39
8	0	0	0	0	0	0	0	0	0	0	0	41
9	0	0	0	0	0	0	0	0	0	0	0	9
10	0	0	0	0	0	0	0	0	0	0	0	11
11	0	0	0	0	0	0	0	0	0	0	0	37
12	0	0	0	0	0	0	0	0	0	0	0	40
13	0	0	0	0	0	0	0	0	0	0	0	36
14	0	0	0	0	0	0	0	0	0	0	0	31
15	0	0	0	0	0	0	0	0	0	0	0	7
16	0	0	0	0	0	0	0	0	0	0	0	35
17	0	75	0	0	0	0	0	0	0	0	0	28
18	0	102	0	0	0	0	0	0	0	0	0	18
19	0	90	0	0	0	0	0	0	0	0	0	0
20	0	66	0	0	0	0	0	0	0	0	0	0
21	0	87	0	0	0	0	0	0	0	0	0	0
22	0	88	0	0	0	0	0	0	0	0	0	0
23	0	75	0	0	0	0	0	0	0	0	27	2
24	0	27	0	0	0	0	0	0	0	0	26	36
25	0	33	0	0	0	0	0	0	0	0	35	40
26	0	41	0	0	0	0	0	0	0	0	35	44
27	0	33	0	0	0	0	0	0	0	0	29	2
28	0	35	0	0	0	0	0	0	0	0	32	16
29	0	-	0	0	0	0	0	0	0	0	37	0
30	0	-	0	0	0	0	0	0	0	0	42	0
31	0	-	0	-	0	-	0	0	-	0	-	176
TOTAL	0	752	0	0	0	0	0	0	0	0	263	874
MAXIMUM DAY	0	102	0	0	0	0	0	0	0	0	42	176
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	27	0	0	0	0	0	0	0	0	9	28
TOTAL AC. FT.	0	1,491	0	0	0	0	0	0	0	0	523	1,734

WHOLE YEAR:- TOTAL, 1,889 MAX., 176 MIN., 0 MEAN, 5 TOTAL AC.FT., 3,748

DISCHARGE IN CUBIC FEET PER SECOND Improvement District No. 4 Diverted to North Kern Water Storage District Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	160	157	159	218	231	0	91	0	0
2	0	0	0	160	157	214	219	240	0	80	0	0
3	0	0	0	69	157	226	128	239	0	69	0	0
4	0	0	0	113	157	230	127	230	8	77	0	0
5	0	0	0	160	157	225	125	231	30	86	0	0
6	0	0	0	81	144	223	226	231	30	92	0	0
7	0	0	0	81	123	224	224	214	0	93	0	0
8	0	0	0	21	123	225	225	199	0	87	0	0
9	0	0	0	46	123	222	226	241	0	126	0	0
10	0	0	0	65	123	224	223	232	6	122	0	0
11	0	0	0	22	210	217	223	234	12	113	0	0
12	0	0	0	0	212	218	230	224	9	96	0	0
13	0	0	0	0	205	220	229	226	12	41	0	0
14	0	0	0	0	209	231	227	225	26	37	0	0
15	0	0	0	60	209	197	226	228	52	30	0	0
16	0	0	0	109	215	176	225	228	53	0	0	0
17	0	0	0	22	223	205	228	230	25	0	0	0
18	0	0	0	0	231	206	230	228	35	0	0	0
19	0	0	0	77	233	222	232	225	75	0	0	0
20	0	0	0	162	213	270	172	224	68	0	0	0
21	0	0	0	162	231	255	173	232	57	0	0	0
22	0	0	0	162	237	254	224	229	48	0	0	0
23	0	0	38	162	237	273	245	224	101	0	0	0
24	0	0	66	162	237	270	231	226	89	0	0	0
25	0	0	66	162	238	257	257	198	129	0	0	0
26	0	0	66	162	230	256	270	164	130	0	0	0
27	0	0	66	162	231	259	269	145	83	0	0	0
28	0	0	91	162	207	263	283	20	92	0	0	0
29	0	-	111	162	159	261	271	0	45	0	0	0
30	0	-	138	162	159	270	279	0	44	0	0	0
31	0	-	139	-	159	-	277	0	-	0	-	0
TOTAL	0	0	781	3,028	5,906	6,952	6,942	5,998	1,259	1,240	0	0
MAXIMUM DAY	0	0	139	162	238	273	283	241	130	126	0	0
MINIMUM DAY	0	0	0	0	123	159	125	0	0	0	0	0
MEAN	0	0	25	101	191	232	224	193	42	40	0	0
NET AC. FT.	0	0	1,549	6,006	11,714	13,789	13,770	11,897	2,497	2,460	0	0
AC. FT. LOSS	0	0	19	30	42	56	55	98	10	8	0	0
TOTAL AC. FT.	0	0	1,568	6,036	11,756	13,845	13,825	11,995	2,507	2,468	0	0

WHOLE YEAR:- TOTAL, 32,106 MAX., 283 MIN., 0 MEAN, 88 TOTAL AC.FT., 64,000

DISCHARGE IN CUBIC FEET PER SECOND

North Kern Water Storage District
Semitropic Water Storage District Irrigation Deliveries

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	4	0	3	0	0	5	0	0	0
2	0	0	0	0	0	1	0	0	5	0	0	0
3	0	0	0	0	0	0	0	4	5	0	0	0
4	0	0	0	0	0	0	0	5	0	0	0	0
5	0	0	0	4	0	0	0	5	0	0	0	0
6	0	0	0	4	0	0	0	5	5	0	0	0
7	0	0	0	4	0	0	5	0	5	0	0	0
8	0	0	0	0	0	0	4	0	5	0	0	0
9	0	0	0	0	0	0	4	4	5	0	0	0
10	0	0	0	0	0	0	3	4	5	0	0	0
11	0	0	0	0	0	0	0	5	0	0	0	0
12	0	0	0	0	3	0	0	4	0	0	0	0
13	0	0	0	0	4	0	0	4	5	0	0	0
14	0	0	0	0	4	3	0	0	5	0	0	0
15	0	0	0	0	0	3	0	0	5	0	0	0
16	0	0	0	0	0	3	0	4	0	0	0	0
17	0	0	0	0	4	4	0	4	0	0	0	0
18	0	0	0	0	3	4	0	4	0	0	0	0
19	0	0	0	4	3	0	0	0	0	0	0	0
20	0	0	0	4	3	0	0	0	0	0	0	0
21	0	0	0	4	2	4	0	0	0	0	0	0
22	0	0	0	4	2	3	0	0	0	0	0	0
23	0	0	0	4	3	3	0	0	0	0	7	0
24	0	0	4	0	3	3	0	0	0	0	5	0
25	0	0	4	0	3	3	0	0	0	0	2	0
26	0	0	4	4	3	0	0	0	0	0	1	0
27	0	0	0	4	3	0	0	0	0	0	1	0
28	0	0	0	4	2	0	0	0	0	0	2	0
29	0	-	4	4	3	0	0	0	0	0	2	0
30	0	-	4	4	3	0	0	5	0	0	2	0
31	0	-	4	-	3	-	0	5	-	0	-	0
TOTAL	0	0	24	56	54	37	16	62	55	0	22	0
MAXIMUM DAY	0	0	4	4	4	4	5	5	5	0	7	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	1	2	2	1	1	2	2	0	1	0
TOTAL AC. FT.	0	0	48	111	107	74	32	123	109	0	44	0

WHOLE YEAR:- TOTAL, 326 MAX., 7 MIN., 0 MEAN, 1 TOTAL AC.FT., 648

DISCHARGE IN CUBIC FEET PER SECOND

North Kern Water Storage District
Shafter-Wasco ID Irrigation Deliveries
(Non-Kern River)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	3
2	0	0	0	0	0	0	0	0	0	0	0	2
3	0	0	0	0	0	0	0	0	0	0	0	2
4	0	0	0	0	0	0	0	0	0	0	0	2
5	0	0	0	0	0	0	0	0	0	0	0	2
6	0	0	0	0	0	0	0	0	0	0	0	2
7	0	0	0	0	0	0	0	0	0	0	0	2
8	0	0	0	0	0	0	0	0	0	0	0	3
9	0	0	0	0	0	0	0	0	0	0	0	2
10	0	0	0	0	0	0	0	0	0	0	0	2
11	0	0	0	0	0	0	0	0	0	0	0	2
12	0	0	0	0	0	0	0	0	0	0	0	3
13	0	0	0	0	0	0	0	0	0	0	0	2
14	0	0	0	0	0	0	0	0	0	0	0	2
15	0	0	0	0	0	0	0	0	0	0	0	2
16	0	0	0	0	0	0	0	0	0	0	0	2
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	35
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	3
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	1
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	0	69

WHOLE YEAR:- TOTAL, 35 MAX., 3 MIN., 0 MEAN, 0 TOTAL AC.FT., 69

DISCHARGE IN CUBIC FEET PER SECOND

Cawelo Water District Diverted to North Kern Water Storage District
(NKWSD(RRID)/Paramount Farming Co./Cawelo WD Exchange)

Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	135	0
2	0	0	0	0	0	0	0	0	0	0	137	0
3	0	0	0	0	0	0	0	0	0	0	126	0
4	0	0	0	0	0	0	0	0	0	0	100	0
5	0	0	0	0	0	0	0	0	0	0	82	0
6	0	0	0	0	0	0	0	0	0	0	65	0
7	0	0	0	0	0	0	0	0	0	0	48	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	82	0	0
16	0	0	0	0	0	0	0	0	0	136	0	0
17	0	0	0	0	0	0	0	0	0	140	0	0
18	0	0	0	0	0	0	0	0	0	70	0	0
19	0	0	0	0	0	0	0	0	0	73	0	0
20	0	0	0	0	0	0	0	0	0	79	0	0
21	0	0	0	0	0	0	0	0	0	76	0	0
22	0	0	0	0	0	0	0	0	0	88	0	0
23	0	0	0	0	0	0	0	0	0	103	0	0
24	0	0	0	0	0	0	0	0	0	100	0	0
25	0	0	0	0	0	0	0	0	0	101	0	0
26	0	0	0	0	0	0	0	0	0	101	0	0
27	0	0	0	0	0	0	0	0	0	124	0	0
28	0	0	0	0	0	0	0	0	0	116	0	0
29	0	-	0	0	0	0	0	0	0	144	0	0
30	0	-	0	0	0	0	0	0	0	143	0	0
31	0	-	0	-	0	-	0	0	-	141	-	0
TOTAL	0	0	0	0	0	0	0	0	0	1,817	693	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	144	137	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	59	23	0
NET AC. FT.	0	0	0	0	0	0	0	0	0	3,604	1,375	0
AC. FT. LOSS	0	0	0	0	0	0	0	0	0	11	10	0
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	3,615	1,385	0

WHOLE YEAR:- TOTAL, 2,510 MAX., 144 MIN., 0 MEAN, 7 TOTAL AC.FT., 5,000

Cawelo Water District Diverted to North Kern Water Storage District

DISCHARGE IN CUBIC FEET PER SECOND — (Cawelo WD/North Kern WSD Exchange) — Year: 1999

State Project Water

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	28	0
8	0	0	0	0	0	0	0	0	0	0	62	0
9	0	0	0	0	0	0	0	0	0	0	42	0
10	0	0	0	0	0	0	0	0	0	0	49	0
11	0	0	0	0	0	0	0	0	0	0	36	0
12	0	0	0	0	0	0	0	0	0	0	35	0
13	0	0	0	0	0	0	0	0	0	0	35	0
14	0	0	0	0	0	0	0	0	0	0	18	0
15	0	0	0	0	0	0	0	0	0	0	14	0
16	0	0	0	0	0	0	0	0	0	0	31	0
17	0	0	0	0	0	0	0	0	0	0	20	0
18	0	0	0	0	0	0	0	0	0	0	23	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	8	0
21	0	0	0	0	0	0	0	0	0	0	8	0
22	0	0	0	0	0	0	0	0	0	0	6	0
23	0	0	0	0	0	0	0	0	0	0	5	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	0	0	0	0	0	420	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	62	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	14	0
NET AC. FT.	0	0	0	0	0	0	0	0	0	0	833	0
AC. FT. LOSS	0	0	0	0	0	0	0	0	0	0	3	0
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	836	0

WHOLE YEAR:- TOTAL, 420 MAX., 62 MIN., 0 MEAN, 1 TOTAL AC.FT., 836

DISCHARGE IN CUBIC FEET PER SECOND | North Kern WSD Diverted to Cawelo Water District | Year: 1999

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	13
5	0	0	0	0	0	0	0	0	0	0	0	16
6	0	0	0	0	0	0	0	0	0	0	0	13
7	0	0	0	0	0	0	0	0	0	0	0	19
8	0	0	0	0	0	0	0	0	0	0	0	5
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	24
12	0	0	0	0	0	0	0	0	0	0	0	23
13	0	0	0	0	0	0	0	0	0	0	0	18
14	0	0	0	0	0	0	0	0	0	0	0	9
15	0	0	0	0	0	0	0	0	0	0	0	9
16	0	0	0	0	0	0	0	0	0	0	0	10
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	17	12
25	0	0	0	0	0	0	0	0	0	0	14	23
26	0	0	0	0	0	0	0	0	0	0	17	10
27	0	0	0	0	0	0	0	0	0	0	16	0
28	0	0	0	0	0	0	0	0	0	0	15	0
29	0	-	0	0	0	0	0	0	0	0	14	0
30	0	-	0	0	0	0	0	0	0	0	2	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	0	0	0	0	0	95	204
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	17	24
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	3	7
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	188	404

WHOLE YEAR:- TOTAL, 299 MAX., 24 MIN., 0 MEAN, 1 TOTAL AC.FT., 592

WATER EXCHANGE BETWEEN
NORTH KERN WSD and CITY OF BAKERSFIELD
THREE YEAR RECAPITULATION

Quantities in acre-feet

1997	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
NKWSD to CITY	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY to NKWSD	0	0	0	0	0	5,000	5,000	0	0	0	0	0	10,000
Other Purchase Rate	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY Debit to NKWSD	61,961	61,961	61,961	61,961	61,961	56,961	51,961	51,961	51,961	51,961	51,961	51,961	

1998													
NKWSD to CITY	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY to NKWSD	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Purchase Rate	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY Debit to NKWSD	51,961	51,961	51,961	51,961	51,961	51,961	51,961	51,961	51,961	51,961	51,961	51,961	

1999													
NKWSD to CITY	0	0	162	428	0	0	0	0	0	0	0	0	590
CITY to NKWSD	0	0	4,467	2,985	573	1,975	0	0	0	0	0	0	10,000
Other Purchase Rate	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY Debit to NKWSD	51,961	51,961	47,656	45,099	44,526	42,551	42,551	42,551	42,551	42,551	42,551	42,551	



Cost Allocation & Watermaster Summaries

Pascoe Snow Sensor Site

February 1998

CARRIER CANAL ABOVE FOUR WEIRS - ALLOCATION
Utilization of Water - Preceding Five Years

Pursuant to Kern Delta Water District/City of Bakersfield Common Use Agreement dated January 1, 1994

Quantities in acre-feet

Year: 1999

	1995	1996	1997	1998	1999	Five Year Total	Allocation Percentage
Carrier Canal at Head	258,457	248,201	278,954	252,015	170,089	1,207,716	99.82%
Oilfield Discharge	635	405	14	14	13	1,081	0.09%
Storm Drain Inflow	188	316	110	284	197	1,095	0.09%
TOTAL CARRIER CANAL FLOW	**259,280**	**248,922**	**279,078**	**252,313**	**170,299**	**1,209,892**	**100.00%**
Kern Island Canal (1)	129,588	151,613	153,501	106,237	122,381	663,320	54.82%
Eastside Canal	18,303	19,358	19,099	13,742	17,214	87,716	7.25%
Kern Delta WD via Levee #1	52,123	46,099	61,761	61,175	20,094	241,252	19.94%
KERN DELTA WATER DISTRICT TOTAL	**200,014**	**217,070**	**234,361**	**181,154**	**159,689**	**992,288**	**82.01%**
Carrier Waste Gate	4,422	2,212	185	648	14	7,481	0.62%
Kern River Conduit via Levee #1	54,844	29,640	44,532	70,511	10,596	210,123	17.37%
CITY OF BAKERSFIELD TOTAL	**59,266**	**31,852**	**44,717**	**71,159**	**10,610**	**217,604**	**17.99%**

Notes: (1) Includes Carrier Canal initial filling loss when applicable.

CARRIER CANAL BELOW FOUR WEIRS - ALLOCATION

Utilization of Water - Preceding Five Years

Quantities in acre-feet

Year: 1999

	1995	1996	1997	1998	1999	Five Year Total	Allocation Percentage
TOTAL CARRIER CANAL FLOW (1)	**329,696**	**304,573**	**323,656**	**339,130**	**114,243**	**1,411,298**	**100.00%**
Stine Canal Total Diverted (2)	35,917	40,193	32,112	33,097	13,028	154,347	10.94%
Arvin-Edison Turnout Total Diverted (2)	0	0	8,142	5,293	7,049	20,484	1.45%
Buena Vista Canal Total Diverted (2)	38,005	31,521	41,905	30,670	25,685	167,786	11.89%
River Canal Total Diverted (3)	3,632	2,723	1,449	693	0	8,497	0.60%
KERN DELTA WATER DISTRICT TOTAL DIVERTED FROM CARRIER CANAL	**77,554**	**74,437**	**83,608**	**69,753**	**45,762**	**351,114**	**24.88%**
KERN RIVER CONDUIT (City of Bakersfield)	**252,142**	**230,136**	**240,048**	**269,377**	**68,481**	**1,060,184**	**75.12%**

Notes: (1) Sum of Carrier Canal flow at Oak Street and River Canal inflow.
(2) Sum of headgate diversion and pro-rated share of Carrier Canal loss.
(3) Includes diversions to Pioneer Project via River Canal.

CALLOWAY AND BEARDSLEY CANALS

Allocation of Joint Accounts

1999

CALLOWAY CANAL USED

Preceding Ten Years

	Diverted via Calloway Canal				
Year	NKWSD	CITY	Subtotal	ID4	TOTAL
1990	0	0	0	3,317	3,317
1991	0	0	0	14,857	14,857
1992	0	0	0	10,095	10,095
1993	27,341	14,356	41,697	38,873	80,570
1994	0	0	0	22,829	22,829
1995	112,624	16,380	129,004	45,914	174,918
1996	40,699	7,266	47,965	39,140	87,105
1997	59,207	14,927	74,134	46,814	120,948
1998	97,572	10,684	108,256	33,124	141,380
1999	11,873	611	12,484	30,624	43,108
Total	349,316	64,224	413,540	285,587	699,127
Percent	**84.47%**	**15.53%**	**100.00%**		

BEARDSLEY CANAL USED

Preceding Five Years

	Diverted via Beardsley Canal						
	North Kern Water Storage District						
Year	NKWSD	RRID	TOTAL	CITY	Subtotal	CWD/Other	TOTAL
1995	227,937	3,729	231,666	26,284	257,950	68,967	326,917
1996	211,442	7,453	218,895	23,529	242,424	73,527	315,951
1997	198,111	3,140	201,251	17,889	219,140	74,666	293,806
1998	250,720	4,369	255,089	8,525	263,614	61,613	325,227
1999	134,672	5,310	139,982	12,652	152,634	69,199	221,833
Total	1,022,882	24,001	1,046,883	88,879	1,135,762	347,972	1,483,734
Percent	**90.06%**	**2.11%**	**92.17%**	**7.83%**	**100.00%**		

IMPROVEMENT DISTRICT NO. 4 USE OF CALLOWAY CANAL

Pursuant to Calloway Canal Agreement dated April 28, 1982

Quantities in acre-feet
except where noted...

Year: 1999

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
	Operating Loss	124	127	151	155	164	178	198	184	160	135	107	99	1,782
	Treatment Plant	1,639	1,398	1,675	1,912	2,775	2,988	3,592	3,204	2,811	2,636	1,914	1,788	28,332
	Reverse Flow via Pump Plant #7	0	0	0	0	0	0	0	34	0	0	0	0	34
E	CVC Extension Losses	0	0	0	0	0	0	0	4	0	0	0	0	4
A R	T.O. #4 to River	0	0	0	0	0	0	0	0	0	0	0	0	0
S E	Loss to Owens Weir	0	0	129	262	252	474	240	67	75	91	83	10	1,683
T A	Western Reach Flow	0	0	29	541	3,477	5,342	5,830	4,772	2,839	2,680	202	0	25,712
E C	Trans. Charge Waived	0	0	135	789	3,685	5,776	6,032	4,721	2,856	2,670	259	0	26,923
R H	SUB-TOTAL DIVERSION	1,763	1,525	1,849	2,081	2,983	3,206	3,828	3,544	3,029	2,872	2,047	1,897	30,624
N	Base Rate	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	
	Escalator	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	
	Current Rate	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	
	SUB-TOTAL CHARGE	$1,621.96	$1,403.00	$1,701.08	$1,914.52	$2,744.36	$2,949.52	$3,521.76	$3,260.48	$2,786.68	$2,642.24	$1,883.24	$1,745.24	$28,174.08
W	Bartell Spreading	0	0	0	0	0	0	0	0	0	0	0	0	0
E R	Loss Below Owens Weir	0	0	29	541	1,208	1,877	1,627	1,128	1,230	1,678	202	0	9,520
S E	NKWSD Exchange Delivery	0	0	0	0	2,269	3,465	4,203	3,644	1,609	1,002	0	0	16,192
T A	Trans. Charge Waived	0	0	29	541	3,477	5,342	5,830	4,772	2,839	2,680	202	0	25,712
E C	SUB-TOTAL DIVERSION	0	0	0	0	0	0	0	0	0	0	0	0	0
R H	Current Rate	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	$0.92	
N	SUB-TOTAL CHARGE	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
	TOTAL CHARGE	**$1,621.96**	**$1,403.00**	**$1,701.08**	**$1,914.52**	**$2,744.36**	**$2,949.52**	**$3,521.76**	**$3,260.48**	**$2,786.68**	**$2,642.24**	**$1,883.24**	**$1,745.24**	**$28,174.08**

HYDROGRAPHIC SUMMARY

UTILIZATION OF WATER - FIRST POINT GROUP - PRECEDING FIVE YEARS

Quantities in acre-feet

Year: 1999

Canal	1995	1996	1997	1998	1999	Five Year Total	Percentage
Kern Island	130,779	146,701	158,389	109,996	116,598	662,463	15.31%
Eastside	18,303	19,358	19,099	13,742	17,214	87,716	2.03%
Buena Vista	27,623	27,238	29,830	22,912	11,237	118,840	2.75%
Stine	25,655	26,384	25,760	22,970	11,500	112,269	2.59%
Farmers	18,742	20,128	19,934	18,834	11,773	89,411	2.07%
Subtotal Kern Delta WD	**221,102**	**239,809**	**253,012**	**188,454**	**168,322**	**1,070,699**	**24.75%**
City of Bakersfield	275,218	256,182	282,696	511,316	104,088	1,429,500	33.05%
K.R.C. & I. Co. (Beardsley)	11,462	11,774	10,762	8,020	11,130	53,148	1.23%
Central - I.D. #4 (Calloway)	62,294	39,140	61,741	43,808	31,235	238,218	5.51%
James	29,223	14,928	13,277	69,754	599	127,781	2.95%
Pioneer	38,248	7,161	13,398	41,605	0	100,412	2.32%
Subtotal City of Bakersfield	**416,445**	**329,185**	**381,874**	**674,503**	**147,052**	**1,949,059**	**45.06%**
North Kern WSD	**339,558**	**256,464**	**262,024**	**346,844**	**101,030**	**1,305,920**	**30.19%**
Total First Point Group	**977,105**	**825,458**	**896,910**	**1,209,801**	**416,404**	**4,325,678**	**100.00%**
South Fork	880	721	594	451	896		
First Point Passing 2nd Point	0	0	37,075	18,161	0		
River Loss and Spreading	80,345	77,145	87,599	95,514	31,968		
Flow Above First Point	3,584	2,465	2,978	2,864	2,480		
Total 1st Point Group Diverted	**1,061,914**	**905,789**	**1,025,156**	**1,326,791**	**451,748**		

- Note:

ALL FIGURES REFLECT GROSS DIVERSIONS...

KERN RIVER WATERMASTER
ISABELLA RESERVOIR INTER-DISTRICT RENTAL CHARGES

-- Pursuant to paragraph 9e, pages 10 and 11 of
Kern River Water Rights and Storage Agreement,
dated December 31, 1962

COMPUTED YEAR: 1999

Year	Acre-Foot Days of Irrigation Storage			Isabella O&M Charges (2)
	NKWSD (1)	BVWSD	Total A.F.D.	
1995	71,087,019	34,039,777	105,126,796	(3) $144,137
1996	79,233,687	40,842,839	120,076,526	$144,137
1997	80,842,580	40,545,783	121,388,363	$144,137
1998	83,156,954	39,569,618	122,726,572	$144,137
1999	48,932,446	28,030,294	76,962,740	$390,887
5-Year Totals	363,252,686	183,028,311	546,280,997	$967,435

- Interest/Rental Charge on Storage Purchase..... $1,143,250
  (Paragraph 9e, pages 10 and 11)

- Total 5-Year Operation & Interest Charge..... $2,110,685

$$\frac{\text{Total 5-Year Cost}}{\text{Total 5-Year Use}} = \frac{\$2,110,685}{546,280,997} = \$0.0038637$$

Rental Charge Per Acre-Foot Day

TOTAL 1999 HACIENDA WD Acre-Foot Storage Days = 8,635,763

TOTAL 1999 HACIENDA WD Share of 1999 Storage Costs = $33,366.00

(1) Includes Hacienda Water District Storage when such storage occurs...

(2) $ 32,603 per year through 1973; $ 66,038 per year 1974 through 1978; $ 91,598 per year 1979 through 1983; $159,115 per year 1984 through 1988; $151,324 per year 1989 through 1993; $142,254 per year 1994 through 1998; $390,887 per year 1999 through 2003 (includes contract administration charges by the U.S.B.R.)

(3) Reflects revised Isabella Reservoir O&M Charges for years 1995-1998 pursuant to Corps of Engineers billing statement dated February 13, 1995...

KERN COUNTY RECREATION POOL REPORT
FROM THE KERN RIVER WATERMASTER

Quantities in acre-feet
except where noted...

Year: 1999

	Total Storage in Reservoir	Total Water Surface Area (Acres)	Area Attributable to Rec. Pool (Acres)	Total Reservoir Loss	County of Kern	
					Ming Lake Net Inflow	Recreation Pool Loss
End of Previous Year	242,525	7,419	555			
January	242,005	7,410	555	768	16	50
February	283,910	8,107	490	415	16	24
March	335,862	8,865	425	1,817	44	101
April	390,244	9,564	375	2,807	60	119
May	455,445	10,309	335	3,586	77	127
June	535,769	11,138	300	6,714	105	198
July	552,939	11,306	295	10,102	127	264
August	436,061	10,096	345	10,163	121	296
September	366,420	9,268	395	6,050	91	240
October	306,848	8,454	460	4,296	65	200
November	244,979	7,463	550	1,981	42	121
December	244,904	7,461	550	1,472	26	101
			TOTALS	50,171	790	1,841

ISABELLA RESERVOIR RECREATION POOL:
15,125 S.F.D.
30,000 ACRE-FEET
NOTE: Storage & Area quantities reflect last day of month

REPORT OF THE KERN RIVER WATERMASTER

SUMMARY OF KERN RIVER RUNOFF

Quantities in acre-feet

Year: 1999

CALENDAR YEAR

	FIRST POINT REGULATED	FIRST POINT NATURAL	ENTITLEMENT NKWSD	ENTITLEMENT BVWSD	ENTITLEMENT HWD
JANUARY	32,523	37,722	37,722	0	0
To Date	32,523	37,722	37,722	0	0
FEBRUARY	40,907	38,388	38,388	0	0
	73,430	76,110	76,110	0	0
MARCH	29,209	38,495	32,118	6,377	0
	102,639	114,605	108,228	6,377	0
APRIL	29,480	55,843	43,758	12,085	0
	132,119	170,448	151,986	18,462	0
MAY	38,071	95,199	70,775	24,424	0
	170,190	265,647	222,761	42,886	0
JUNE	64,411	68,733	52,544	16,189	0
	234,601	334,380	275,305	59,075	0
JULY	78,924	32,852	28,268	4,584	0
	313,525	367,232	303,573	63,659	0
AUGUST	64,167	17,133	17,006	127	0
	377,692	384,365	320,579	63,786	0
SEPTEMBER	36,405	12,547	12,547	0	0
	414,097	396,912	333,126	63,786	0
OCTOBER	20,473	11,714	11,714	0	0
	434,570	408,626	344,840	63,786	0
NOVEMBER	10,848	12,288	12,288	0	0
	445,418	420,914	357,128	63,786	0
DECEMBER	16,203	13,057	13,057	0	0
Year	461,621	433,971	370,185	63,786	0

1894 to 1999 Mean April-July Runoff = 473,891 acre-feet (100% of Average)
1999 April-July Runoff = 252,627 acre-feet (53% of Average)

WATER YEAR

	FIRST POINT REGULATED	FIRST POINT NATURAL	ENTITLEMENT NKWSD	ENTITLEMENT BVWSD	ENTITLEMENT HWD
OCTOBER	89,980	35,008	35,008	0	0
To Date	89,980	35,008	35,008	0	0
NOVEMBER	93,054	33,302	33,302	0	0
	183,034	68,310	68,310	0	0
DECEMBER	31,739	33,219	33,219	0	0
	214,773	101,529	101,529	0	0
JANUARY	32,523	37,722	37,722	0	0
	247,296	139,251	139,251	0	0
FEBRUARY	40,907	38,388	38,388	0	0
	288,203	177,639	177,639	0	0
MARCH	29,209	38,495	32,118	6,377	0
	317,412	216,134	209,757	6,377	0
APRIL	29,480	55,843	43,758	12,085	0
	346,892	271,977	253,515	18,462	0
MAY	38,071	95,199	70,775	24,424	0
	384,963	367,176	324,290	42,886	0
JUNE	64,411	68,733	52,544	16,189	0
	449,374	435,909	376,834	59,075	0
JULY	78,924	32,852	28,268	4,584	0
	528,298	468,761	405,102	63,659	0
AUGUST	64,167	17,133	17,006	127	0
	592,465	485,894	422,108	63,786	0
SEPTEMBER	36,405	12,547	12,547	0	0
Year	628,870	498,441	434,655	63,786	0

1894 to 1999 Mean March-October Runoff = 608,622 acre-feet (100% of Average)
1999 March-October Runoff = 332,516 acre-feet (55% of Average)

REPORT OF THE KERN RIVER WATERMASTER

RECAPITULATION 1999

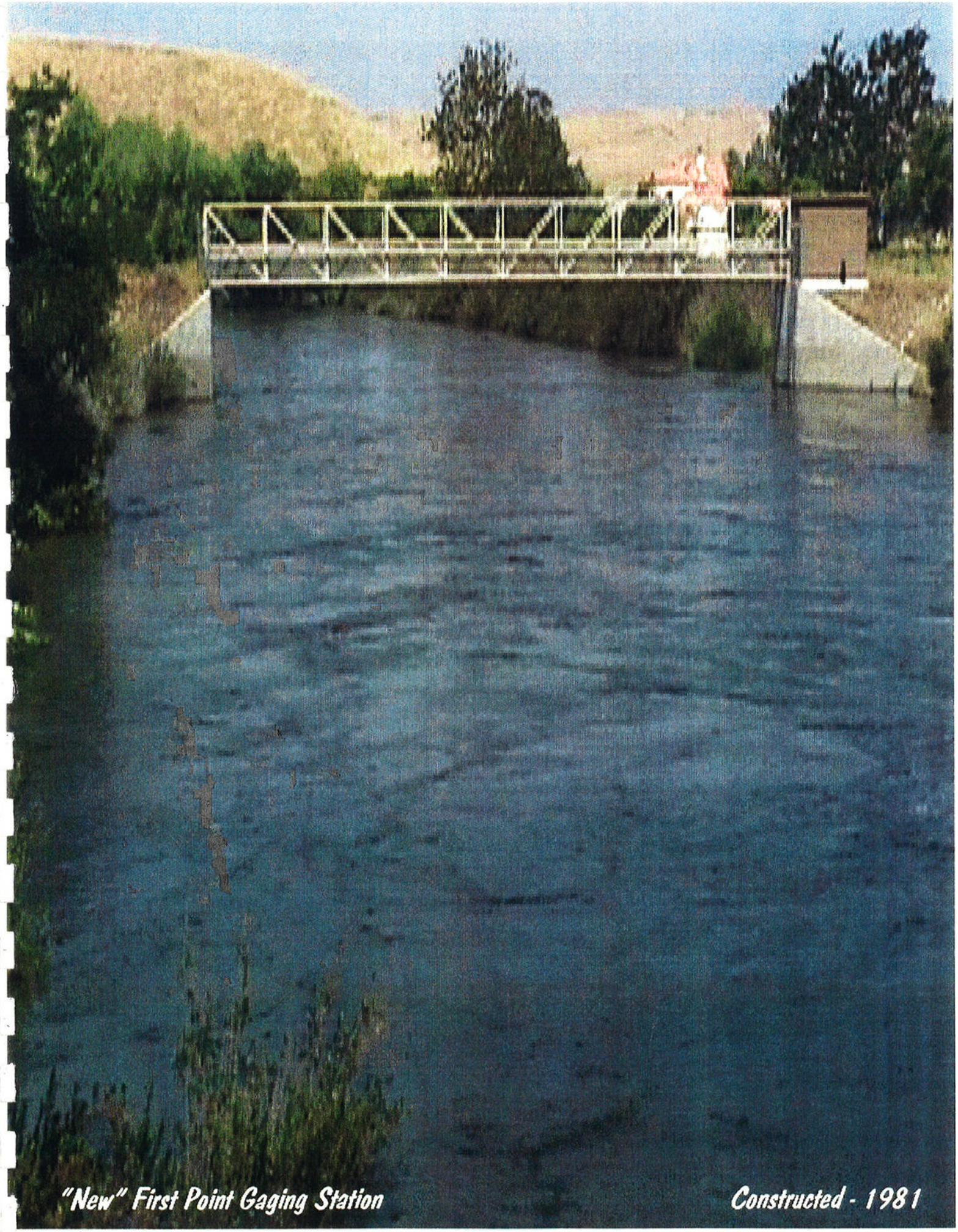
QUANTITIES IN ACRE-FEET EXCEPT WHERE NOTED...

	ISABELLA RESERVOIR									NORTH KERN WATER STORAGE DISTRICT						BUENA VISTA WATER STORAGE DISTRICT									HACIENDA WATER DISTRICT					
	Elevation (feet)	Storage	Loss	Flow Above First Point	Rio Bravo Well	First Point Regulated Flow	Loss + Reservoir Change + 1st Point + Flow Above 1st Point	Computed 1st Point Natural Flow	Mean Reservoir Storage	Ent'l At First Point	Flow Above First Point	Flow At First Point	Reservoir Storage	Reservoir Loss	Transfer or Exchange in Storage	Entitlement At 1st Point	Entitlement At 2nd Point	Flow Above 1st Point	Flow At 1st Point	Flow At 2nd Point	Reservoir Storage	Reservoir Loss	Kern County Rec. Pool Loss	Entitlement Contributed by: NKWSD	Entitlement Contributed by: BVWSD	Flow Above 1st Point	Flow At 1st Point	Reservoir Storage	Reservoir Loss
Carry Over	2571.56	244904							244904				105419								66680							42621	
JAN	2572.06	248651	1384	67	0	32523	37722	37722	248651	37722	18	32325	110095	704	0	0	0	0	198	0	66057	424	99	0	0	49	0	42315	256
FEB	2571.55	244829	1252	52	0	40907	38388	38388	244829	38388	18	38610	109202	653	0	0	0	0	2297	0	63386	375	93	0	0	34	0	42057	224
MAR	2572.50	251977	1983	157	0	29209	38495	38495	251977	32118	51	25508	114712	1051	0	0	6377	0	3356	345	65480	581	143	0	0	106	0	41601	351
APR	2575.55	275707	2430	203	0	29480	55843	55843	275707	43758	70	26592	130491	1315	0	0	12085	0	2799	89	73964	714	167	0	0	133	0	41068	401
MAY	2581.74	327495	5092	247	0	38071	95199	95199	327495	70775	99	32946	165393	2827	0	0	24424	32	2288	0	94518	1551	284	0	0	116	2837	37400	714
JUN	2581.40	324527	6956	333	0	64411	68733	68733	324527	52544	133	49194	164658	3951	0	0	16189	200	2039	3991	102200	2277	341	0	0	0	9187	27485	728
JUL	2574.87	270313	7761	380	0	78924	32852	32852	270313	28268	157	59593	128800	4375	0	0	4584	0	3426	4869	95671	2819	436	0	0	223	11036	15658	567
AUG	2567.61	216458	6480	341	0	64167	17133	17133	216458	17006	150	48740	93396	3520	0	0	127	91	4280	3059	85684	2684	486	0	0	100	8088	7194	276
SEP	2563.21	187207	5113	280	0	36405	12547	12547	187207	12547	116	26753	76449	2626	0	0	0	0	9627	0	73757	2299	494	0	0	164	25	6817	188
OCT	2561.16	174462	3802	184	0	20473	11714	11714	174462	11714	184	13263	72729	1987	0	0	0	0	3717	0	68342	1698	424	0	0	0	3493	3207	117
NOV	2561.06	173854	2045	141	136	10848	12288	12288	173854	12288	141	8236	75531	1109	0	0	0	0	540	0	66889	914	234	0	0	0	1936	1250	22
DEC	2560.31	169341	1569	95	298	16203	13057	13057	169341	13057	95	14854	72779	871	(1) 10	0	0	0	109	0	66071	698	171	0	0	0	942	307	0
Total			45867	2480	434	461621	433971	433971		370185	1232	376614		24989	10	0	63786	323	34676	12353		17034	3372	0	0	925	37544		3844

KERN COUNTY RECREATION POOL = 30,000 Ac.Ft. DEAD STORAGE = 184 Ac.Ft.
STORAGE & ELEVATION REFLECT LAST DAY OF MONTH

NOTES: (1) BVWSD to NKWSD

By: Mark Lambert Date: March 20, 2000



"New" First Point Gaging Station

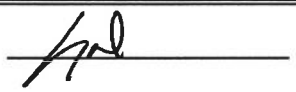
Constructed - 1981

REPORT OF THE KERN RIVER WATERMASTER

JANUARY 1999

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2571.56	244,904	123,473	58	477	1	499	499	123,473	108,255	4	26	0	0	293	
1	2571.55	244,829	123,435	13	497	1	473	497	123,459	108,241	1	30	0	0	210	1
2	2571.56	244,904	123,473	15	491	1	545	492	123,444	108,226	1	39	0	0	282	2
3	2571.55	244,829	123,435	25	470	1	458	495	123,443	108,225	2	44	0	0	282	3
4	2571.55	244,829	123,435	18	464	1	483	472	123,432	108,214	1	57	0	0	360	4
5	2571.55	244,829	123,435	18	455	1	474	469	123,427	108,209	1	62	0	0	385	5
6	2571.54	244,755	123,397	28	457	2	449	473	123,413	108,195	2	49	0	0	370	6
7	2571.54	244,755	123,397	43	452	1	496	485	123,402	108,184	3	44	0	0	370	7
8	2571.55	244,829	123,435	23	449	1	511	477	123,406	108,188	2	30	0	0	208	8
9	2571.54	244,755	123,397	20	441	1	424	467	123,411	108,193	1	0	0	0	0	9
10	2571.54	244,755	123,397	28	437	2	467	445	123,389	108,171	2	0	0	0	0	10
11	2571.53	244,680	123,360	43	437	1	444	453	123,361	108,143	3	0	0	0	0	11
12	2571.52	244,606	123,322	48	436	1	447	460	123,336	108,118	4	0	0	0	0	12
13	2571.53	244,680	123,360	25	424	1	488	470	123,356	108,138	2	0	0	0	0	13
14	2571.54	244,755	123,397	13	422	2	474	476	123,395	108,177	1	0	0	0	0	14
15	2571.54	244,755	123,397	55	409	1	465	451	123,381	108,163	4	0	0	0	0	15
16	2571.53	244,680	123,360	33	417	1	414	459	123,389	108,171	2	0	0	0	0	16
17	2571.54	244,755	123,397	43	418	1	499	474	123,401	108,183	3	0	0	0	0	17
18	2571.55	244,829	123,435	50	420	1	509	505	123,435	108,217	4	0	0	0	0	18
19	2571.61	245,278	123,661	33	416	1	676	676	123,661	108,443	2	0	0	0	0	19
20	2571.82	246,849	124,453	3	489	1	1,285	1,285	124,453	109,235	0	0	0	0	0	20
21	2571.94	247,750	124,907	10	651	1	1,116	1,116	124,907	109,689	1	0	0	0	0	21
22	2571.93	247,675	124,870	28	651	1	643	643	124,870	109,652	2	0	0	0	0	22
23	2571.92	247,599	124,831	20	646	1	628	628	124,831	109,613	1	0	0	0	0	23
24	2571.95	247,825	124,945	8	656	1	779	779	124,945	109,727	1	0	0	0	0	24
25	2572.05	248,576	125,324	3	777	1	1,160	1,160	125,324	110,106	0	0	0	0	0	25
26	2572.12	249,103	125,589	3	733	1	1,002	1,002	125,589	110,371	0	0	0	0	0	26
27	2572.12	249,103	125,589	8	681	1	690	690	125,589	110,371	1	0	0	0	73	27
28	2572.10	248,953	125,514	10	660	1	596	601	125,519	110,301	1	83	0	83	232	28
29	2572.08	248,802	125,438	13	673	1	611	622	125,454	110,236	1	182	0	182	455	29
30	2572.07	248,726	125,399	15	682	1	659	643	125,399	110,181	1	181	0	181	557	30
31	2572.06	248,651	125,362	3	686	1	653	653	125,362	110,144	0	173	0	173	570	31
TOTAL SECOND FOOT DAYS				698	16,397	34	19,018	19,018	125,362	110,144	50	974	0	619	4,354	
TOTAL ACRE-FEET				1,384	32,523	67	37,722	37,722	248,651	218,467	99	1,932	0	1,228	8,636	

By: 

Date: February 24, 1999

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT LAKE MING	FLOW ABOVE 1ST POINT KERN VALLEY GOLF COURSE	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	499	475	0	0	29	53,149
1	497	497	1	0	7	53,141
2	492	491	0	0	7	53,135
3	495	470	1	0	12	53,147
4	472	464	0	0	9	53,146
5	469	455	0	0	9	53,151
6	473	457	1	0	14	53,152
7	485	452	0	0	22	53,163
8	477	449	0	0	12	53,179
9	467	441	0	0	10	53,195
10	445	437	1	0	14	53,188
11	453	437	0	0	22	53,182
12	460	436	0	0	24	53,182
13	470	424	0	0	12	53,216
14	476	422	0	1	7	53,262
15	451	409	1	0	28	53,275
16	459	417	0	0	17	53,300
17	474	418	0	0	22	53,334
18	505	398	0	0	26	53,415
19	676	397	0	0	17	53,677
20	1,285	470	1	0	1	54,490
21	1,116	651	0	0	5	54,950
22	643	651	0	0	15	54,927
23	628	646	0	0	10	54,899
24	779	656	0	0	5	55,017
25	1,160	777	1	0	1	55,398
26	1,002	733	0	0	1	55,666
27	690	681	0	0	5	55,670
28	601	641	0	0	5	55,625
29	622	652	0	0	7	55,588
30	643	682	1	0	8	55,540
31	653	686	0	0	1	55,506
S.F.D.	19,018	16,297	8	1	355	55,506
AC.FT.	37,722	32,325	16	2	704	110,095

TOTAL ACRE-FOOT STORAGE DAYS 3,321,749

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW VIA KDWD	FLOW VIA CWD	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	2	0	18	33,618
1	0	0	0	0	4	33,614
2	0	0	0	0	5	33,609
3	0	0	0	0	8	33,601
4	0	0	0	0	6	33,595
5	0	0	0	0	6	33,589
6	0	0	0	0	9	33,580
7	0	0	0	0	13	33,567
8	0	0	0	0	7	33,560
9	0	0	0	0	6	33,554
10	0	0	0	0	9	33,545
11	0	0	0	0	13	33,532
12	0	0	0	0	15	33,517
13	0	0	0	0	8	33,509
14	0	0	0	0	4	33,505
15	0	0	0	0	17	33,488
16	0	0	0	0	10	33,478
17	0	0	0	0	13	33,465
18	0	0	22	0	15	33,428
19	0	0	19	0	10	33,399
20	0	0	19	0	1	33,379
21	0	0	0	0	3	33,376
22	0	0	0	0	8	33,368
23	0	0	0	0	6	33,362
24	0	0	0	0	2	33,360
25	0	0	0	0	1	33,359
26	0	0	0	0	1	33,358
27	0	0	0	0	2	33,356
28	0	0	19	0	3	33,334
29	0	0	21	0	4	33,309
30	0	0	0	0	4	33,305
31	0	0	0	0	1	33,304
S.F.D.	0	0	100	0	214	33,304
AC.FT.	0	0	198	0	424	66,057

TOTAL ACRE-FOOT STORAGE DAYS 2,057,463

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW ABOVE 1ST POINT OLCESE WD	FLOW ABOVE 1ST POINT La HACIENDA INC.	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	1	0	11	21,488
1	0	0	0	0	2	21,486
2	0	0	1	0	3	21,482
3	0	0	0	0	5	21,477
4	0	0	1	0	3	21,473
5	0	0	1	0	3	21,469
6	0	0	0	1	5	21,463
7	0	0	1	0	8	21,454
8	0	0	1	0	4	21,449
9	0	0	1	0	4	21,444
10	0	0	0	1	5	21,438
11	0	0	1	0	8	21,429
12	0	0	1	0	9	21,419
13	0	0	1	0	5	21,413
14	0	0	1	0	2	21,410
15	0	0	0	0	10	21,400
16	0	0	1	0	6	21,393
17	0	0	1	0	8	21,384
18	0	0	1	0	9	21,374
19	0	0	1	0	6	21,367
20	0	0	0	0	1	21,366
21	0	0	1	0	2	21,363
22	0	0	1	0	5	21,357
23	0	0	1	0	4	21,352
24	0	0	1	0	1	21,350
25	0	0	0	0	1	21,349
26	0	0	1	0	1	21,347
27	0	0	1	0	1	21,345
28	0	0	1	0	2	21,342
29	0	0	1	0	2	21,339
30	0	0	0	0	3	21,336
31	0	0	1	0	1	21,334
S.F.D.	0	0	23	2	129	21,334
AC.FT.	0	0	45	4	256	42,315

TOTAL ACRE-FOOT STORAGE DAYS 1,315,842

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
January	1-31	1	FRIANT-KERN INFLOW	Friant-Kern Inflow to Kern River channel on behalf of Kern County Water Agency.

SNOW SURVEY DATA FOR KERN RIVER BASIN

Date: February 1, 1999

SNOW COURSE	SNOW SENSOR	CALIF. NUMBER	ELEV. IN FEET	APRIL 1ST AVERAGE WATER CONTENT	DATE MEASURED	SNOW DEPTH IN INCHES	DENSITY (%)	WATER CONTENT IN INCHES	% OF APRIL 1ST AVERAGE	MEASURED BY
	Upper Tyndall Creek	516	11,450	27.7	1-26	54.3	21%	11.3	41%	DWR
Bighorn Plateau		250	11,350	21.9	1-27	34.6	23%	7.9	36%	DWR
Cottonwood Pass		251	11,050	13.4	2-01	22.2	22%	4.8	36%	DWR
Siberian Pass		252	10,900	18.3	1-29	26.9	22%	5.9	32%	DWR
Crabtree Meadow		253	10,700	18.8	1-27	39.5	18%	7.3	39%	DWR
	Crabtree Meadow	253	10,700	19.8						
Guyot Flat		254	10,650	20.0	1-28	33.7	23%	7.7	39%	DWR
Tyndall Creek		255	10,650	18.3	1-26	38.1	17%	6.6	36%	DWR
Sandy Meadow		275	10,650	18.3	1-27	36.8	18%	6.7	37%	DWR
	Chagoopa Plateau	514	10,300	21.8						
Big Whitney Meadow		257	9,750	16.6	1-29	28.2	22%	6.2	37%	DWR
Rock Creek		256	9,600	17.2	1-28	32.4	19%	6.1	35%	DWR
	Pascoe	569	9,130	24.9	2-03	64.0	27%	17.0	68%	USFS
Round Meadow		258	9,000	24.9	2-03	51.7	31%	15.9	64%	USFS
	Tunnel Guard	830	8,960	15.6	1-31	27.5	19%	5.3	34%	DWR
	Wet Meadow	518	8,950	30.3						
Ramshaw Meadow		259	8,700	11.3	1-30	21.1	21%	4.4	39%	DWR
Little Whitney Mea.		260	8,500	13.5	1-31	29.7	20%	5.8	43%	DWR
Casa Vieja Meadow		262	8,400	19.6	1-30	33.8	38%	12.7	65%	USFS
	Casa Vieja Meadows	262	8,400	20.9						
Quinn Ranger Sta.		264	8,350	19.4						
Bonita Meadows		261	8,300	13.8	2-02	29.1	29%	8.3	60%	USFS
Beach Meadows		265	7,650	8.9	2-02	24.6	21%	5.2	58%	USFS
	Beach Meadows	860	7,650	11.0	2-02	24.0	22%	5.3	48%	USFS
Dead Horse Meadow		249	7,300	11.3	2-01	38.4	22%	8.4	74%	USFS

CALIFORNIA COOPERATIVE SNOW SURVEYS FORECAST as of FEBRUARY 1, 1999 for KERN RIVER INFLOW TO ISABELLA RESERVOIR...
April-July = 330,000 acre-feet (75% of Average) *** Water Year = 570,000 acre-feet (82% of Average)
80 Percent Probability Range (Actual runoff should fall within the stated limits eight times out of ten)...
April-July = 150,000 AcFt (34% of Average) to 680,000 AcFt (154% of Average) *** Water Year = 340,000 AcFt (49% of Average) to 1,040,000 AcFt (150% of Average)

REPORT OF THE KERN RIVER WATERMASTER

FEBRUARY 1999

Quantities in S.F.D. except where noted

	ISABELLA RESERVOIR								MEAN STORAGE				SECOND POINT GROUP FLOW AT 2ND POINT			
	ELEVATION	MIDNIGHT STORAGE			FIRST POINT REGULATED	FLOW ABOVE	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE	COMPUTED 1ST POINT NATURAL	Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)		KERN COUNTY RECREATION	TOTAL FLOW AT SECOND	KERN	FRIANT-	FRIANT- KERN	
DAY	(FEET)	ACRE-FEET	S.F.D.	LOSS	FLOW	1ST PT.	1ST POINT	FLOW	TOTAL	IRRIGATION	POOL LOSS	POINT	RIVER	KERN	INFLOW	DAY
Previous Day	2572.06	248,651	125,362	3	686	1	653	653	125,362	110,144	0	173	0	173	570	
1	2572.04	248,500	125,285	7	699	1	630	630	125,285	110,067	1	180	0	180	558	1
2	2572.00	248,201	125,135	11	748	0	609	619	125,145	109,927	1	231	0	231	593	2
3	2571.93	247,675	124,870	16	887	1	639	617	124,858	109,640	1	271	0	271	665	3
4	2571.85	247,074	124,567	18	888	1	604	616	124,567	109,349	1	405	0	405	687	4
5	2571.77	246,474	124,264	15	891	1	604	604	124,264	109,046	1	441	0	441	686	5
6	2571.68	245,801	123,925	28	884	0	573	573	123,925	108,707	2	440	0	440	686	6
7	2571.62	245,352	123,698	2	907	1	683	683	123,698	108,480	0	442	0	442	686	7
8	2571.64	245,502	123,774	2	929	1	1,008	1,008	123,774	108,556	0	445	0	445	686	8
9	2571.62	245,352	123,698	2	954	1	881	881	123,698	108,480	0	359	0	359	500	9
10	2571.67	245,726	123,887	9	930	1	1,129	1,129	123,887	108,669	1	215	0	215	374	10
11	2571.62	245,352	123,698	7	902	1	721	721	123,698	108,480	1	126	0	126	304	11
12	2571.56	244,904	123,473	39	897	1	712	699	123,460	108,242	3	73	0	73	244	12
13	2571.51	244,531	123,284	31	829	1	672	708	123,307	108,089	2	45	0	45	221	13
14	2571.52	244,606	123,322	35	667	1	741	707	123,311	108,093	3	20	0	20	306	14
15	2571.54	244,755	123,397	28	604	1	708	696	123,374	108,156	2	0	0	0	377	15
16	2571.54	244,755	123,397	37	600	1	638	687	123,423	108,205	3	0	0	0	390	16
17	2571.57	244,979	123,510	39	563	1	716	667	123,487	108,269	3	32	0	32	383	17
18	2571.58	245,054	123,548	33	576	1	648	683	123,560	108,342	2	103	0	103	487	18
19	2571.60	245,203	123,623	20	590	1	686	677	123,626	108,408	1	177	0	177	607	19
20	2571.63	245,427	123,736	18	566	1	698	690	123,731	108,513	1	196	0	196	656	20
21	2571.64	245,502	123,774	35	612	1	686	664	123,747	108,529	3	196	0	196	665	21
22	2571.63	245,427	123,736	22	623	1	608	646	123,747	108,529	2	196	0	196	615	22
23	2571.62	245,352	123,698	20	661	1	644	626	123,691	108,473	1	196	0	196	628	23
24	2571.60	245,203	123,623	37	663	1	626	625	123,615	108,397	3	196	0	196	675	24
25	2571.58	245,054	123,548	28	650	1	604	618	123,554	108,336	2	195	0	195	675	25
26	2571.57	244,979	123,510	24	637	1	624	620	123,512	108,294	2	158	0	158	642	26
27	2571.57	244,979	123,510	18	612	1	631	629	123,510	108,292	1	147	0	147	625	27
28	2571.55	244,829	123,435	50	655	1	631	631	123,435	108,217	4	73	0	73	396	28
TOTAL SECOND FOOT DAYS				631	20,624	26	19,354	19,354	123,435	108,217	47	5,558	0	5,558	15,017	
TOTAL ACRE-FEET				1,252	40,907	52	38,388	38,388	244,829	214,645	93	11,024	0	11,024	29,785	

By: _____ Date: March 25, 1999

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT LAKE MING	FLOW ABOVE 1ST POINT KERN VALLEY GOLF COURSE	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	653	686	0	0	1	55,506
1	630	696	0	0	4	55,436
2	619	745	0	0	6	55,304
3	617	884	0	0	8	55,029
4	616	888	1	0	10	54,746
5	604	891	0	0	7	54,452
6	573	884	0	0	15	54,126
7	683	907	0	0	1	53,901
8	1,008	925	1	0	1	53,982
9	881	948	0	0	1	53,914
10	1,129	920	0	0	4	54,119
11	721	892	1	0	4	53,943
12	699	880	0	0	20	53,742
13	708	806	0	0	16	53,628
14	707	656	1	0	18	53,660
15	696	594	0	0	15	53,747
16	687	577	0	0	19	53,838
17	667	482	1	0	20	54,002
18	683	505	0	0	17	54,163
19	677	511	0	0	10	54,319
20	690	460	1	0	10	54,538
21	664	529	0	0	19	54,654
22	646	536	0	1	11	54,752
23	626	541	1	0	10	54,826
24	625	556	0	0	19	54,876
25	618	569	0	0	15	54,910
26	620	559	1	0	13	54,957
27	629	533	0	0	10	55,043
28	631	592	0	0	26	55,056
S.F.D.	19,354	19,466	8	1	329	55,056
AC.FT.	38,388	38,610	16	2	653	109,202

TOTAL ACRE-FOOT STORAGE DAYS 3,022,140

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW VIA KDWD	FLOW VIA CWD	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	0	0	1	33,304
1	0	0	3	0	2	33,299
2	0	0	3	0	3	33,293
3	0	0	3	0	5	33,285
4	0	0	0	0	5	33,280
5	0	0	0	0	5	33,275
6	0	0	0	0	8	33,267
7	0	0	0	0	1	33,266
8	0	4	0	0	1	33,261
9	0	6	0	0	1	33,254
10	0	10	0	0	3	33,241
11	0	10	0	0	2	33,229
12	0	17	0	0	12	33,200
13	0	23	0	0	9	33,168
14	0	11	0	0	11	33,146
15	0	10	0	0	8	33,128
16	0	23	0	0	11	33,094
17	0	62	19	0	12	33,001
18	0	71	0	0	10	32,920
19	0	79	0	0	6	32,835
20	0	106	0	0	5	32,724
21	0	83	0	0	10	32,631
22	0	87	0	0	7	32,537
23	0	101	19	0	6	32,411
24	0	87	20	0	11	32,293
25	0	81	0	0	8	32,204
26	0	78	0	0	7	32,119
27	0	74	5	0	5	32,035
28	0	63	0	0	15	31,957
S.F.D.	0	1,086	72	0	189	31,957
AC.FT.	0	2,154	143	0	375	63,386

TOTAL ACRE-FOOT STORAGE DAYS 1,827,476

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW ABOVE 1ST POINT OLCESE WD	FLOW ABOVE 1ST POINT La HACIENDA INC.	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	1	0	1	21,334
1	0	0	1	0	1	21,332
2	0	0	0	0	2	21,330
3	0	0	1	0	3	21,326
4	0	0	0	0	3	21,323
5	0	0	1	0	3	21,319
6	0	0	0	0	5	21,314
7	0	0	1	0	0	21,313
8	0	0	0	0	0	21,313
9	0	0	1	0	0	21,312
10	0	0	1	0	2	21,309
11	0	0	0	0	1	21,308
12	0	0	1	0	7	21,300
13	0	0	1	0	6	21,293
14	0	0	0	0	6	21,287
15	0	0	0	1	5	21,281
16	0	0	1	0	7	21,273
17	0	0	0	0	7	21,266
18	0	0	1	0	6	21,259
19	0	0	1	0	4	21,254
20	0	0	0	0	3	21,251
21	0	0	1	0	6	21,244
22	0	0	0	0	4	21,240
23	0	0	0	0	4	21,236
24	0	0	1	0	7	21,228
25	0	0	0	1	5	21,222
26	0	0	0	0	4	21,218
27	0	0	1	0	3	21,214
28	0	0	1	0	9	21,204
S.F.D.	0	0	15	2	113	21,204
AC.FT.	0	0	31	3	224	42,057

TOTAL ACRE-FOOT STORAGE DAYS 1,181,690

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
February	1-28	1	FRIANT-KERN INFLOW	Friant-Kern Inflow to Kern River channel on behalf of Kern County Water Agency (26,598 acre-feet) and Arvin-Edison Water Storage District (3,187 acre-feet).

SNOW SURVEY DATA FOR KERN RIVER BASIN

Date: March 1, 1999

SNOW COURSE	SNOW SENSOR	CALIF. NUMBER	ELEV. IN FEET	APRIL 1ST AVERAGE WATER CONTENT	DATE MEASURED	SNOW DEPTH IN INCHES	DENSITY (%)	WATER CONTENT IN INCHES	% OF APRIL 1ST AVERAGE	MEASURED BY
	Upper Tyndall Creek	516	11,450	27.7	2-25	47.0	32%	15.2	55%	DWR
Bighorn Plateau		250	11,350	21.9	2-25	38.0	35%	13.4	61%	DWR
Cottonwood Pass		251	11,050	13.4	2-22	16.9	33%	5.5	41%	DWR
Siberian Pass		252	10,900	18.3	2-23	30.8	34%	10.6	58%	DWR
Crabtree Meadow		253	10,700	18.8	2-24	34.5	30%	10.5	56%	DWR
	Crabtree Meadow	253	10,700	19.8	2-24	37.0	30%	11.2	57%	DWR
Guyot Flat		254	10,650	20.0	2-24	33.7	32%	10.7	54%	DWR
Tyndall Creek		255	10,650	18.3	2-25	29.0	29%	8.5	46%	DWR
Sandy Meadow		275	10,650	18.3	2-25	31.7	31%	9.7	53%	DWR
	Chagoopa Plateau	514	10,300	21.8						
Big Whitney Meadow		257	9,750	16.6	2-22	31.0	34%	10.5	63%	DWR
Rock Creek		256	9,600	17.2	2-23	31.0	27%	8.5	49%	DWR
	Pascoe	569	9,130	24.9	3-01	55.0	35%	19.5	78%	USFS
Round Meadow		258	9,000	24.9	3-01	46.3	38%	17.5	70%	USFS
	Tunnel Guard	830	8,960	15.6	2-21	22.0	30%	6.5	42%	DWR
	Wet Meadow	518	8,950	30.3	3-02	28.6	38%	10.8	36%	SKNP
Ramshaw Meadow		259	8,700	11.3	2-21	20.3	26%	5.3	47%	DWR
Little Whitney Mea.		260	8,500	13.5	2-21	24.9	30%	7.4	55%	DWR
Casa Vieja Meadow		262	8,400	19.6						
	Casa Vieja Meadows	262	8,400	20.9						
Quinn Ranger Sta.		264	8,350	19.4	3-01	25.9	37%	9.5	49%	SKNP
Bonita Meadows		261	8,300	13.8						
Beach Meadows		265	7,650	8.9						
	Beach Meadows	860	7,650	11.0						
Dead Horse Meadow		249	7,300	11.3	3-01	19.1	39%	7.5	66%	USFS

CALIFORNIA COOPERATIVE SNOW SURVEYS FORECAST as of MARCH 1, 1999 for KERN RIVER INFLOW TO ISABELLA RESERVOIR...
April-July = 310,000 acre-feet (70% of Average) *** Water Year = 550,000 acre-feet (79% of Average)
80 Percent Probability Range (Actual runoff should fall within the stated limits eight times out of ten)...
April-July = 180,000 AcFt (41% of Average) to 550,000 AcFt (124% of Average) *** Water Year = 380,000 AcFt (55% of Average) to 850,000 AcFt (122% of Average)

REPORT OF THE KERN RIVER WATERMASTER

MARCH 1999

Quantities in S.F.D. except where noted

	ISABELLA RESERVOIR								MEAN STORAGE				SECOND POINT GROUP FLOW AT 2ND POINT			
	ELEVATION	MIDNIGHT STORAGE			FIRST POINT REGULATED	FLOW ABOVE	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE	COMPUTED 1ST POINT NATURAL	Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)		KERN COUNTY RECREATION	TOTAL FLOW AT SECOND	KERN	FRIANT-	FRIANT-KERN	
DAY	(FEET)	ACRE-FEET	S.F.D.	LOSS	F LOW	1ST PT.	1ST POINT	FLOW	TOTAL	IRRIGATION	POOL LOSS	POINT	RIVER	KERN	INFLOW	DAY
Previous Day	2571.55	244,829	123,435	50	655	1	631	631	123,435	108,217	4	73	0	73	396	
1	2571.56	244,904	123,473	48	554	2	642	645	123,476	108,258	4	22	22	0	0	1
2	2571.57	244,979	123,510	40	573	2	652	659	123,520	108,302	3	0	0	0	0	2
3	2571.57	244,979	123,510	38	643	2	683	694	123,531	108,313	3	0	0	0	0	3
4	2571.59	245,128	123,585	30	638	3	746	715	123,575	108,357	2	0	0	0	0	4
5	2571.62	245,352	123,698	11	589	2	715	708	123,681	108,463	1	0	0	0	0	5
6	2571.66	245,652	123,850	46	463	2	663	675	123,845	108,627	3	0	0	0	0	6
7	2571.70	245,951	124,000	15	481	2	648	641	123,988	108,770	1	0	0	0	0	7
8	2571.72	246,101	124,076	30	502	3	611	629	124,082	108,864	2	0	0	0	0	8
9	2571.75	246,326	124,189	30	483	2	628	611	124,178	108,960	2	0	0	0	0	9
10	2571.77	246,474	124,264	32	484	2	593	592	124,252	109,034	2	0	0	0	0	10
11	2571.77	246,474	124,264	30	522	2	554	588	124,286	109,068	2	0	0	0	0	11
12	2571.79	246,624	124,340	38	500	3	617	565	124,310	109,092	3	0	0	0	0	12
13	2571.81	246,774	124,415	11	437	2	525	576	124,436	109,218	1	0	0	0	0	13
14	2571.84	246,999	124,529	44	427	2	587	575	124,538	109,320	3	0	0	0	0	14
15	2571.88	247,299	124,680	28	433	2	614	577	124,652	109,434	2	0	0	0	0	15
16	2571.90	247,449	124,756	19	431	3	529	563	124,762	109,544	1	0	0	0	0	16
17	2571.92	247,599	124,831	32	435	3	545	561	124,853	109,635	2	0	0	0	0	17
18	2571.96	247,900	124,983	38	418	2	610	571	124,966	109,748	3	20	20	0	0	18
19	2571.98	248,051	125,059	51	429	3	559	573	125,056	109,838	4	27	27	0	0	19
20	2572.00	248,201	125,135	23	447	3	549	568	125,151	109,933	2	38	38	0	0	20
21	2572.03	248,425	125,248	42	440	2	597	583	125,250	110,032	3	19	19	0	0	21
22	2572.07	248,726	125,399	17	432	3	603	620	125,418	110,200	1	7	7	0	0	22
23	2572.12	249,103	125,589	26	441	3	660	622	125,570	110,352	2	0	0	0	0	23
24	2572.15	249,330	125,704	40	446	3	604	632	125,713	110,495	3	0	0	0	0	24
25	2572.19	249,632	125,856	2	476	3	633	638	125,870	110,652	0	0	0	0	0	25
26	2572.25	250,085	126,085	26	417	3	675	663	126,087	110,869	2	0	0	0	0	26
27	2572.31	250,537	126,312	47	405	3	682	665	126,297	111,079	3	0	0	0	0	27
28	2572.35	250,840	126,465	47	436	3	639	675	126,486	111,268	3	19	19	0	0	28
29	2572.41	251,294	126,694	53	419	3	704	669	126,680	111,462	4	22	22	0	0	29
30	2572.45	251,597	126,847	38	468	3	662	676	126,847	111,629	3	0	0	0	0	30
31	2572.50	251,977	127,038	28	457	3	679	679	127,038	111,820	2	0	0	0	0	31
TOTAL SECOND FOOT DAYS				1,000	14,726	79	19,408	19,408	127,038	111,820	72	174	174	0	0	
TOTAL ACRE-FEET				1,983	29,209	157	38,495	38,495	251,977	221,793	143	345	345	0	0	

By: _____ Date: April 16, 1999

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT LAKE MING	FLOW ABOVE 1ST POINT KERN VALLEY GOLF COURSE	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	631	592	0	0	26	55,056
1	535	439	1	0	25	55,126
2	545	422	0	0	21	55,228
3	569	494	0	0	20	55,283
4	583	500	1	1	16	55,348
5	578	490	0	0	6	55,430
6	556	411	1	0	25	55,549
7	533	427	0	0	8	55,647
8	524	446	1	0	16	55,708
9	512	428	0	0	16	55,776
10	499	433	1	0	17	55,824
11	496	470	0	0	16	55,834
12	481	443	1	0	20	55,851
13	488	393	0	0	6	55,940
14	488	387	1	0	23	56,017
15	489	391	0	0	15	56,100
16	479	389	1	0	10	56,179
17	478	392	0	1	17	56,247
18	485	374	1	0	20	56,337
19	486	388	1	0	27	56,407
20	483	394	1	0	12	56,483
21	493	395	1	0	23	56,557
22	518	390	1	0	9	56,675
23	520	396	1	0	13	56,785
24	526	401	1	0	21	56,888
25	530	426	1	1	1	56,989
26	548	380	1	0	13	57,143
27	549	372	1	0	25	57,294
28	556	390	1	0	25	57,434
29	552	369	1	1	29	57,586
30	556	423	1	0	20	57,698
31	558	407	1	0	15	57,833
S.F.D.	16,193	12,860	22	4	530	57,833
AC.FT.	32,118	25,508	44	7	1,051	114,712

TOTAL ACRE-FOOT STORAGE DAYS 3,461,543

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 2ND POINT	FLOW VIA KDWD	FLOW FOR NKWSD	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	63	0	0	15	31,957
1	110	93	0	22	14	31,938
2	114	151	0	0	12	31,889
3	125	149	0	0	11	31,854
4	132	138	0	0	9	31,839
5	130	99	0	0	3	31,867
6	119	35	17	0	13	31,921
7	108	21	33	0	4	31,971
8	105	25	31	0	9	32,011
9	99	23	32	0	9	32,046
10	93	21	30	0	9	32,079
11	92	22	30	0	9	32,110
12	84	22	35	0	11	32,126
13	88	25	19	0	3	32,167
14	87	29	11	0	13	32,201
15	88	21	21	0	8	32,239
16	84	21	21	0	6	32,275
17	83	17	26	0	9	32,306
18	86	24	0	20	11	32,337
19	87	11	3	27	15	32,368
20	85	15	0	38	7	32,393
21	90	14	12	19	12	32,426
22	102	29	6	7	5	32,481
23	102	24	21	0	8	32,530
24	106	30	15	0	12	32,579
25	108	23	27	0	1	32,636
26	115	19	18	0	8	32,706
27	116	30	3	0	14	32,775
28	119	27	0	19	14	32,834
29	117	28	0	22	15	32,886
30	120	17	28	0	11	32,950
31	121	17	33	0	8	33,013
S.F.D.	3,215	1,220	472	174	293	33,013
AC.FT.	6,377	2,420	936	345	581	65,480

TOTAL ACRE-FOOT STORAGE DAYS 1,986,947

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW ABOVE 1ST POINT OLCESE WD	FLOW ABOVE 1ST POINT La HACIENDA INC.	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	1	0	9	21,204
1	0	0	1	0	9	21,194
2	0	0	2	0	7	21,185
3	0	0	1	1	7	21,176
4	0	0	1	0	5	21,170
5	0	0	2	0	2	21,166
6	0	0	1	0	8	21,157
7	0	0	2	0	3	21,152
8	0	0	1	1	5	21,145
9	0	0	2	0	5	21,138
10	0	0	1	0	6	21,131
11	0	0	2	0	5	21,124
12	0	0	1	1	7	21,115
13	0	0	2	0	2	21,111
14	0	0	1	0	8	21,102
15	0	0	2	0	5	21,095
16	0	0	1	1	3	21,090
17	0	0	2	0	6	21,082
18	0	0	1	0	7	21,074
19	0	0	1	1	9	21,063
20	0	0	2	0	4	21,057
21	0	0	1	0	7	21,049
22	0	0	2	0	3	21,044
23	0	0	1	1	5	21,037
24	0	0	2	0	7	21,028
25	0	0	1	0	0	21,027
26	0	0	2	0	5	21,020
27	0	0	1	1	8	21,010
28	0	0	2	0	8	21,000
29	0	0	1	0	9	20,990
30	0	0	2	0	7	20,981
31	0	0	1	1	5	20,974
S.F.D.	0	0	45	8	177	20,974
AC.FT.	0	0	89	17	351	41,601

TOTAL ACRE-FOOT STORAGE DAYS 1,296,569

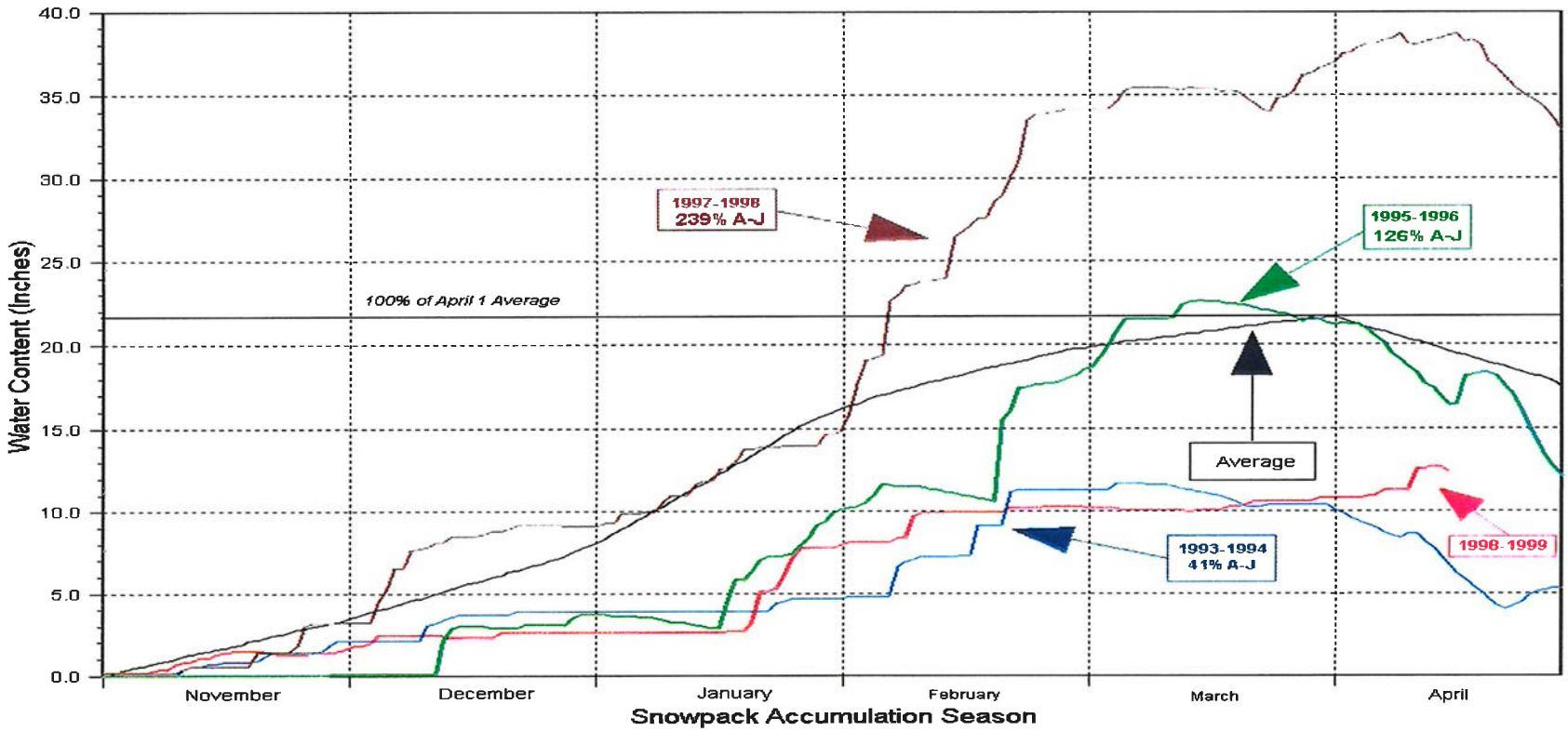
WATERMASTER NOTES * KERN RIVER BULLETIN**

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
March	6	2	BVWSD FLOW - FOR NKWSD	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/North Kern Water Storage District Power Flow Sale Agreement dated March 24, 1999.

KERN RIVER BASIN SNOWPACK ACCUMULATION

EIGHT SENSOR INDEX

April 15, 1999



CITY OF BAKERSFIELD WATER RESOURCES DEPARTMENT

REPORT OF THE KERN RIVER WATERMASTER

APRIL 1999

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2572.50	251,977	127,038	28	457	3	679	679	127,038	111,820	2	0	0	0	0	
1	2572.54	252,279	127,191	21	473	3	650	650	127,191	111,973	1	0	0	0	0	1
2	2572.58	252,583	127,344	41	437	4	635	622	127,331	112,113	3	0	0	0	0	2
3	2572.62	252,887	127,497	43	398	3	597	614	127,501	112,283	3	0	0	0	0	3
4	2572.66	253,191	127,651	36	416	3	609	607	127,653	112,435	3	0	0	0	0	4
5	2572.72	253,648	127,881	28	355	3	616	609	127,876	112,658	2	0	0	0	0	5
6	2572.75	253,877	127,996	28	457	3	603	623	128,011	112,793	2	38	38	0	0	6
7	2572.80	254,256	128,187	22	432	4	649	624	128,177	112,959	2	4	4	0	0	7
8	2572.84	254,562	128,342	2	459	3	619	654	128,367	113,149	0	3	3	0	0	8
9	2572.90	255,020	128,573	2	457	3	693	683	128,588	113,370	0	0	0	0	0	9
10	2572.96	255,479	128,804	39	464	4	738	735	128,816	113,598	3	0	0	0	0	10
11	2573.04	256,089	129,112	2	461	3	774	749	129,099	113,881	0	0	0	0	0	11
12	2573.11	256,626	129,382	7	457	3	737	766	129,398	114,180	0	0	0	0	0	12
13	2573.18	257,163	129,653	32	481	3	787	805	129,687	114,469	2	0	0	0	0	13
14	2573.27	257,853	130,001	52	488	3	891	889	130,033	114,815	4	0	0	0	0	14
15	2573.38	258,700	130,428	68	490	4	989	969	130,440	115,222	5	0	0	0	0	15
16	2573.51	259,701	130,933	54	463	4	1,026	1,079	130,998	115,780	4	0	0	0	0	16
17	2573.69	261,093	131,634	54	465	4	1,224	1,124	131,599	116,381	4	0	0	0	0	17
18	2573.84	262,254	132,220	72	460	3	1,121	1,175	132,239	117,021	5	0	0	0	0	18
19	2574.00	263,498	132,847	81	469	3	1,180	1,188	132,874	117,656	5	0	0	0	0	19
20	2574.18	264,900	133,554	88	465	3	1,263	1,249	133,567	118,349	6	0	0	0	0	20
21	2574.36	266,306	134,263	62	528	4	1,303	1,330	134,303	119,085	4	0	0	0	0	21
22	2574.58	268,030	135,132	16	536	4	1,425	1,356	135,103	119,885	1	0	0	0	0	22
23	2574.77	269,524	135,885	27	557	3	1,340	1,305	135,821	120,603	2	0	0	0	0	23
24	2574.90	270,550	136,402	47	581	4	1,149	1,208	136,397	121,179	3	0	0	0	27	24
25	2575.02	271,497	136,880	64	589	4	1,135	1,107	136,847	121,629	4	0	0	0	50	25
26	2575.10	272,131	137,199	58	656	3	1,036	1,105	137,235	122,017	4	0	0	0	50	26
27	2575.21	273,003	137,639	58	643	3	1,144	1,106	137,637	122,419	4	0	0	0	50	27
28	2575.34	274,035	138,159	40	574	3	1,137	1,105	138,125	122,907	3	0	0	0	50	28
29	2575.44	274,831	138,561	54	575	4	1,035	1,069	138,561	123,343	3	0	0	0	50	29
30	2575.55	275,707	139,002	27	577	4	1,049	1,049	139,002	123,784	2	0	0	0	50	30
TOTAL SECOND FOOT DAYS				1,225	14,863	102	28,154	28,154	139,002	123,784	84	45	45	0	327	
TOTAL ACRE-FEET				2,430	29,480	203	55,843	55,843	275,707	245,523	167	89	89	0	648	

By: _____ Date: May 26, 1999

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT LAKE MING	FLOW ABOVE 1ST POINT KERN VALLEY GOLF COURSE	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	558	407	1	0	15	57,833
1	539	418	1	0	11	57,942
2	520	393	1	1	22	58,045
3	514	367	1	0	23	58,168
4	509	379	1	0	20	58,277
5	511	338	1	0	15	58,434
6	520	407	1	0	15	58,531
7	521	390	1	0	12	58,649
8	541	408	1	0	1	58,780
9	561	407	1	0	1	58,932
10	597	412	1	0	21	59,095
11	606	410	1	0	1	59,289
12	618	407	1	0	4	59,495
13	644	410	1	0	18	59,710
14	702	428	1	0	28	59,955
15	756	430	1	0	37	60,243
16	831	411	1	1	29	60,632
17	862	413	1	0	29	61,051
18	897	409	1	0	39	61,499
19	906	415	1	0	43	61,946
20	947	429	1	0	47	62,416
21	1,002	480	1	1	34	62,902
22	1,020	487	1	0	8	63,426
23	985	513	1	0	15	63,882
24	919	527	1	0	25	64,248
25	850	547	1	1	35	64,514
26	849	611	1	0	32	64,719
27	850	589	1	0	32	64,947
28	849	522	1	0	22	65,251
29	824	529	1	1	29	65,515
30	811	521	1	0	15	65,789
S.F.D.	22,061	13,407	30	5	663	65,789
AC.FT.	43,758	26,592	60	10	1,315	130,491

TOTAL ACRE-FOOT STORAGE DAYS 3,642,210

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 2ND POINT	FLOW VIA KDWD	FLOW FOR NKWSD	FLOW 2800 ACRES	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	121	17	33	0	0	8	33,013
1	111	11	44	0	0	6	33,063
2	102	10	34	0	0	12	33,109
3	100	7	24	0	0	13	33,165
4	98	7	30	0	0	10	33,216
5	98	11	6	0	0	8	33,289
6	103	9	3	0	38	8	33,334
7	103	9	29	0	4	6	33,389
8	113	6	42	0	3	1	33,450
9	122	7	43	0	0	1	33,521
10	138	6	46	0	0	11	33,596
11	143	5	46	0	0	1	33,687
12	148	6	44	0	0	2	33,783
13	161	10	0	61	0	9	33,864
14	187	14	1	45	0	15	33,976
15	213	17	43	0	0	20	34,109
16	248	10	42	0	0	16	34,289
17	262	20	32	0	0	16	34,483
18	278	25	26	0	0	21	34,689
19	282	24	30	0	0	24	34,893
20	302	27	9	0	0	26	35,133
21	328	24	24	0	0	18	35,395
22	336	23	26	0	0	5	35,677
23	320	25	19	0	0	8	35,945
24	289	16	38	0	0	14	36,166
25	257	16	26	0	0	19	36,362
26	256	16	29	0	0	17	36,556
27	256	18	36	0	0	17	36,741
28	256	21	31	0	0	12	36,933
29	245	14	32	0	0	16	37,116
30	238	11	45	0	0	8	37,290
S.F.D.	6,093	425	880	106	45	360	37,290
AC.FT.	12,085	844	1,745	210	89	714	73,964

TOTAL ACRE-FOOT STORAGE DAYS 2,063,243

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW ABOVE 1ST POINT OLCESE WD	FLOW ABOVE 1ST POINT La HACIENDA INC.	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	1	1	5	20,974
1	0	0	2	0	4	20,968
2	0	0	2	0	7	20,959
3	0	0	2	0	7	20,950
4	0	0	1	1	6	20,942
5	0	0	2	0	5	20,935
6	0	0	2	0	5	20,928
7	0	0	2	1	4	20,921
8	0	0	2	0	0	20,919
9	0	0	2	0	0	20,917
10	0	0	2	1	7	20,907
11	0	0	2	0	0	20,905
12	0	0	1	1	1	20,902
13	0	0	2	0	5	20,895
14	0	0	2	0	9	20,884
15	0	0	2	1	11	20,870
16	0	0	2	0	9	20,859
17	0	0	2	1	9	20,847
18	0	0	2	0	12	20,833
19	0	0	1	1	14	20,817
20	0	0	2	0	15	20,800
21	0	0	2	0	10	20,788
22	0	0	2	1	3	20,782
23	0	0	2	0	4	20,776
24	0	0	2	1	8	20,765
25	0	0	2	0	10	20,753
26	0	0	2	0	9	20,742
27	0	0	1	1	9	20,731
28	0	0	2	0	6	20,723
29	0	0	2	0	9	20,712
30	0	0	2	1	4	20,705
S.F.D.	0	0	56	11	202	20,705
AC.FT.	0	0	112	21	401	41,068

TOTAL ACRE-FOOT STORAGE DAYS 1,240,532

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
April	24-30	1	FRIANT-KERN INFLOW	Friant-Kern Inflow to Kern River Channel on behalf of Kern County Water Agency-ID4.

KERN RIVER BASIN -- HISTORICAL SNOW COURSE DATA

APRIL 1ST WATER CONTENT IN INCHES

YEAR	BIGHORN PLATEAU	COTTONWOOD PASS	SIBERIAN PASS	CRABTREE MEADOW	GUYOT FLAT	SANDY MEADOWS	TYNDALL CREEK	BIG WHITNEY MEADOW	ROCK CREEK	ROUND MEADOW	RAMSHAW MEADOWS	LITTLE WHITNEY MEADOW	CASA VIEJA MEADOWS	QUINN RANGER STATION	BONITA MEADOWS	BEACH MEADOWS	BASIN WIDE AVERAGE	A-J RUNOFF IN PERCENT OF AVERAGE
1948	--	3.8	6.6	--	--	--	--	4.9	--	18.5	4.4	5.2	10.6	14.6	10.5	6.8	8.6	52%
1949	13.2	5.8	9.1	12.8	12.0	12.8	12.7	11.6	9.8	28.7	9.4	10.8	15.0	20.1	15.0	10.5	13.1	45%
1950	21.0	10.9	18.5	17.8	18.8	18.3	16.8	16.1	16.9	30.2	10.5	12.1	19.7	17.6	13.5	7.1	16.6	65%
1951	17.3	8.3	12.5	9.7	11.8	11.5	10.5	9.7	7.5	4.3	0.0	0.0	0.0	1.6	0.0	0.0	6.5	56%
1952	43.2	32.2	35.0	35.3	37.7	35.6	34.2	35.3	35.3	53.9	30.9	33.2	44.9	49.1	32.5	25.2	37.1	241%
1953	16.8	9.4	14.1	12.7	14.2	12.3	12.9	12.3	12.1	18.4	6.3	9.2	11.7	17.4	8.2	5.3	12.1	71%
1954	22.0	11.8	18.0	16.8	18.0	16.8	18.7	15.7	18.3	29.2	12.2	17.0	23.5	21.3	15.4	10.1	17.8	76%
1955	14.7	8.1	11.6	13.4	15.3	13.1	13.4	10.7	12.3	14.9	7.0	8.0	11.3	13.5	6.5	3.3	11.1	48%
1956	33.3	12.6	26.7	26.7	27.9	25.1	24.3	21.7	23.0	22.3	9.0	13.5	15.1	12.8	8.9	0.0	18.9	113%
1957	14.3	11.7	14.1	11.8	12.6	10.5	11.2	11.5	10.0	14.7	6.8	7.1	10.9	14.4	6.3	0.0	10.5	63%
1958	25.9	20.5	25.0	23.5	25.3	24.5	24.0	22.7	23.7	39.2	17.0	21.2	30.9	--	26.6	21.6	24.8	179%
1959	10.3	5.7	9.7	9.0	9.7	7.3	9.2	8.4	8.7	6.0	5.6	6.8	8.4	5.7	1.8	0.0	7.0	28%
1960	11.8	4.7	9.4	9.4	10.9	7.9	9.5	9.4	6.5	20.2	2.0	2.5	9.1	11.9	6.9	2.7	8.4	36%
1961	6.0	3.8	6.0	7.1	7.8	4.5	4.3	6.3	4.8	12.8	0.0	0.0	6.0	1.6	2.1	0.0	4.6	19%
1962	37.4	27.0	31.8	33.7	35.5	32.6	31.4	30.7	30.6	40.5	--	--	32.1	35.3	27.6	21.3	32.0	111%
1963	19.7	17.5	16.1	17.1	18.4	17.1	17.2	17.0	13.5	12.6	--	--	11.0	5.6	5.7	1.0	13.5	103%
1964	5.1	1.5	3.9	6.1	6.1	5.4	4.8	4.3	5.8	15.1	--	--	8.1	10.8	5.2	2.7	6.1	39%
1965	25.8	13.1	16.4	20.1	18.0	19.8	17.8	13.7	15.0	25.2	8.6	11.4	17.0	16.5	10.3	7.0	16.0	98%
1966	15.7	7.1	14.0	12.9	15.3	11.9	13.2	11.6	10.9	18.5	5.3	6.9	14.2	10.6	10.9	4.7	11.5	47%
1967	37.1	25.2	32.9	32.2	35.8	30.6	30.0	30.3	30.4	19.4	13.5	20.3	27.8	--	14.5	3.0	25.5	199%
1968	14.1	8.9	12.6	12.3	14.0	11.8	11.6	12.6	11.1	17.5	7.6	6.2	12.9	9.7	8.6	4.1	11.0	53%
1969	55.3	41.1	48.4	48.5	50.6	46.3	48.6	45.0	45.8	69.8	38.1	46.1	61.4	59.8	50.2	36.8	49.5	376%
1970	17.0	9.1	12.6	16.4	14.7	16.1	14.6	11.4	12.5	16.7	4.5	7.2	13.4	12.7	6.1	4.1	11.8	69%
1971	15.7	5.7	12.6	11.7	13.2	11.9	13.1	10.8	11.1	21.2	3.3	5.5	14.0	15.9	9.4	3.4	11.2	53%
1972	7.6	2.5	6.6	6.3	7.6	5.2	3.4	5.4	4.1	4.8	0.0	0.0	3.4	2.2	0.0	0.0	3.7	28%
1973	33.6	24.4	30.0	31.7	33.7	31.3	31.8	27.2	30.4	42.7	24.1	26.2	31.7	40.8	28.1	22.3	30.8	156%
1974	25.4	13.2	20.6	20.5	22.6	19.0	20.4	19.1	18.1	29.8	14.3	14.8	21.2	22.0	--	10.1	19.4	115%
1975	18.9	9.7	15.0	16.9	17.6	16.2	15.1	15.9	16.1	26.8	11.6	14.0	20.7	22.3	--	10.3	16.5	83%
1976	5.9	4.4	5.8	3.3	5.4	3.3	4.7	5.5	3.6	11.9	0.9	0.0	7.2	6.3	6.7	2.2	4.8	23%
1977	5.0	3.5	4.0	4.7	4.8	3.2	3.5	4.9	3.1	10.8	2.1	0.0	--	2.0	3.6	0.0	3.7	21%
1978	43.1	40.1	40.1	39.7	41.7	40.1	40.6	37.3	39.6	46.8	31.9	37.6	41.1	43.7	32.2	23.6	38.7	236%
1979	19.9	13.2	17.5	18.2	17.5	17.7	18.8	14.7	14.2	25.3	12.2	14.2	--	--	18.2	14.9	16.9	90%
1980	40.9	29.4	34.4	34.3	35.1	34.5	35.7	29.5	33.5	25.0	21.6	27.4	30.0	36.7	18.7	16.2	30.2	213%
1981	15.3	11.8	13.0	14.0	14.8	14.1	15.8	10.9	12.8	17.4	8.6	9.6	14.6	15.7	12.3	7.5	13.0	54%
1982	32.4	17.4	24.6	23.2	24.3	24.1	26.3	20.3	23.7	31.0	15.2	19.0	29.2	--	23.0	11.6	23.0	172%
1983	48.9	34.9	45.0	45.3	49.2	46.9	43.7	38.6	44.7	63.4	33.2	37.6	48.1	52.1	42.2	30.6	44.0	333%
1984	21.9	9.7	15.4	20.1	17.6	18.1	17.0	12.9	13.8	15.7	2.1	2.6	11.9	9.4	2.1	0.0	11.9	91%
1985	18.6	17.2	20.5	17.2	20.8	16.3	15.5	19.0	18.9	26.2	14.6	15.0	25.5	19.1	17.7	10.8	18.3	91%
1986	45.1	34.1	39.3	29.9	38.6	37.3	35.1	34.8	36.5	44.2	22.8	25.4	35.0	29.8	21.3	11.6	32.6	191%
1987	11.3	7.6	8.9	9.3	11.5	9.2	11.0	7.8	8.1	15.8	6.3	8.3	9.8	17.3	9.0	1.3	9.5	46%
1988	9.6	5.3	7.8	8.8	8.9	8.9	9.0	4.0	6.3	7.2	0.0	0.0	2.7	2.4	0.4	0.0	5.1	35%
1989	15.3	10.2	13.0	12.3	15.7	13.3	11.0	14.4	14.1	21.7	7.3	11.5	17.2	12.9	14.6	5.2	13.1	50%
1990	7.6	1.9	6.1	6.6	7.2	4.9	7.9	6.2	4.0	9.9	0.9	2.2	--	4.9	1.6	0.0	4.8	24%
1991	19.7	14.1	17.5	14.1	18.9	17.1	17.2	15.1	17.0	24.7	11.6	14.6	14.0	21.0	15.0	7.0	16.2	60%
1992	12.7	13.2	11.7	11.0	10.7	12.2	12.0	9.1	9.9	21.0	7.7	8.0	10.8	12.8	11.0	4.0	11.1	39%
1993	33.7	19.6	29.9	27.6	30.2	27.7	29.3	26.4	28.8	41.0	19.8	22.5	30.0	32.1	24.0	14.5	27.3	126%
1994	13.4	6.7	11.3	12.1	13.6	11.2	11.5	8.8	10.6	14.3	5.9	7.1	10.2	7.9	7.3	3.2	9.7	41%
1995	35.3	30.5	34.8	32.8	35.3	33.0	32.5	30.5	32.2	44.4	23.3	26.4	33.7	51.0	26.6	14.5	32.3	199%
1996	29.6	17.7	23.0	23.2	24.6	23.4	25.9	18.6	21.9	31.0	12.5	16.5	25.5	21.0	18.9	9.8	21.4	128%
1997	32.5	17.0	26.7	26.4	28.1	26.1	26.1	19.0	23.7	26.1	13.2	16.5	20.0	22.1	9.0	2.1	20.9	122%
1998	36.9	26.7	30.8	33.1	34.6	31.6	33.7	27.9	30.6	--	22.9	26.3	--	--	--	--	30.5	235%
1999	12.3	5.7	10.6	10.7	11.0	9.5	10.0	10.4	8.5	20.3	5.0	6.0	13.5	8.0	6.9	0.6	9.3	61% (e)
MAXIMUM	55.3	41.1	48.4	48.5	50.6	46.9	48.6	45.0	45.8	69.8	38.1	46.1	61.4	59.8	50.2	36.8	49.5	
MINIMUM	5.0	1.5	3.9	3.3	4.8	3.2	3.4	4.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	
AVERAGE	22.5	14.4	18.9	19.0	20.5	18.8	19.0	16.9	17.7	24.9	11.3	13.5	19.5	19.0	13.7	8.1	17.4	

REPORT OF THE KERN RIVER WATERMASTER

MAY 1999

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2575.55	275,707	139,002	27	577	4	1,049	1,049	139,002	123,784	2	0	0	0	50	
1	2575.67	276,666	139,486	36	509	4	1,033	1,033	139,486	124,268	2	0	0	0	50	1
2	2575.76	277,384	139,848	67	576	4	1,009	978	139,817	124,599	4	0	0	0	50	2
3	2575.82	277,865	140,090	55	615	4	916	953	140,096	124,878	3	0	0	0	50	3
4	2575.89	278,427	140,374	65	581	3	933	943	140,390	125,172	4	0	0	0	50	4
5	2575.98	279,150	140,738	55	558	4	981	987	140,760	125,542	3	0	0	0	78	5
6	2576.08	279,953	141,143	81	558	3	1,047	1,077	141,195	125,977	5	0	0	0	90	6
7	2576.20	280,920	141,631	104	606	4	1,202	1,203	141,684	126,466	6	0	0	0	90	7
8	2576.36	282,210	142,281	90	617	4	1,361	1,338	142,311	127,093	5	0	0	0	90	8
9	2576.54	283,666	143,015	81	633	4	1,452	1,404	142,997	127,779	5	0	0	0	55	9
10	2576.70	284,965	143,670	100	641	3	1,399	1,459	143,712	128,494	6	0	0	0	15	10
11	2576.90	286,592	144,490	84	618	4	1,526	1,527	144,533	129,315	5	0	0	0	0	11
12	2577.12	288,388	145,396	82	664	4	1,656	1,613	145,396	130,178	5	0	0	0	0	12
13	2577.40	290,682	146,552	99	721	4	1,980	1,980	146,552	131,334	6	0	0	0	0	13
14	2577.64	292,656	147,547	95	694	3	1,787	1,753	147,513	132,295	6	0	0	0	0	14
15	2577.88	294,638	148,547	90	592	4	1,686	1,623	148,450	133,232	5	0	0	0	0	15
16	2578.07	296,211	149,340	57	543	4	1,397	1,503	149,349	134,131	3	0	0	0	0	16
17	2578.25	297,708	150,095	88	579	4	1,426	1,471	150,149	134,931	5	0	0	0	0	17
18	2578.46	299,457	150,976	96	609	4	1,590	1,587	151,027	135,809	5	0	0	0	0	18
19	2578.71	301,547	152,030	94	592	4	1,744	1,683	152,020	136,802	5	0	0	0	0	19
20	2578.95	303,561	153,045	89	607	4	1,715	1,739	153,059	137,841	5	0	0	0	0	20
21	2579.20	305,667	154,107	90	600	5	1,757	1,743	154,107	138,889	5	0	0	0	0	21
22	2579.46	307,864	155,215	107	537	4	1,756	1,717	155,176	139,958	6	0	0	0	0	22
23	2579.70	309,901	156,242	71	535	5	1,638	1,725	156,290	141,072	4	0	0	0	0	23
24	2579.95	312,029	157,315	64	640	4	1,781	1,737	157,319	142,101	3	0	0	0	0	24
25	2580.19	314,080	158,349	98	657	4	1,793	1,851	158,411	143,193	5	0	0	0	0	25
26	2580.48	316,568	159,603	62	658	4	1,978	1,916	159,603	144,385	3	0	0	0	0	26
27	2580.78	319,150	160,905	62	708	5	2,077	2,077	160,905	145,687	3	0	0	0	0	27
28	2581.04	321,399	162,039	107	675	4	1,920	1,959	162,078	146,860	5	0	0	0	0	28
29	2581.33	323,917	163,308	110	652	4	2,035	1,898	163,210	147,992	6	0	0	0	0	29
30	2581.55	325,834	164,275	93	675	5	1,740	1,838	164,275	149,057	5	0	0	0	0	30
31	2581.74	327,495	165,112	95	744	5	1,681	1,681	165,112	149,894	5	0	0	0	0	31
TOTAL SECOND FOOT DAYS				2,567	19,194	125	47,996	47,996	165,112	149,894	143	0	0	0	618	
TOTAL ACRE-FEET				5,092	38,071	247	95,199	95,199	327,495	297,311	284	0	0	0	1,227	

By: _____ Date: June 16, 1999

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT: LAKE MING	FLOW ABOVE 1ST POINT: KERN VALLEY GOLF COURSE	RESERVOIR: LOSS	RESERVOIR: STORAGE
Previous Day	811	521	1	0	15	65,789
1	800	461	1	0	19	66,108
2	762	532	1	1	37	66,299
3	745	565	1	0	30	66,448
4	738	531	1	0	36	66,618
5	768	517	1	0	30	66,838
6	830	516	1	1	44	67,106
7	916	579	1	0	57	67,385
8	1,008	576	1	1	49	67,766
9	1,053	619	1	0	45	68,154
10	1,090	624	1	0	55	68,564
11	1,137	570	1	0	46	69,084
12	1,195	632	1	1	45	69,600
13	1,446	618	1	0	54	70,373
14	1,291	569	1	0	52	71,042
15	1,202	472	1	0	49	71,722
16	1,120	430	1	1	32	72,378
17	1,098	486	2	0	49	72,939
18	1,178	514	1	1	52	73,549
19	1,243	490	2	0	52	74,248
20	1,281	482	1	0	50	74,996
21	1,284	448	2	1	50	75,779
22	1,266	381	1	0	60	76,603
23	1,272	397	2	1	40	77,435
24	1,280	477	1	0	36	78,201
25	1,358	506	2	0	55	78,996
26	1,402	492	1	1	35	79,869
27	1,507	489	2	0	35	80,850
28	1,431	642	1	1	61	81,576
29	1,390	624	2	0	63	82,277
30	1,349	650	1	1	53	82,921
31	1,242	722	2	0	54	83,385
S.F.D.	35,682	16,611	39	11	1,425	83,385
AC.FT.	70,775	32,946	77	22	2,827	165,393

TOTAL ACRE-FOOT STORAGE DAYS 4,500,710

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 2ND POINT	FLOW: VIA KDWD	FLOW: FOR NKWSD	FLOW: AT 2ND POINT	FLOW ABOVE 1ST POINT OLCESE WD	RESERVOIR: LOSS	RESERVOIR: STORAGE
Previous Day	238	11	45	0	0	8	37,290
1	233	23	25	0	1	11	37,463
2	216	10	34	0	0	20	37,615
3	208	16	34	0	1	16	37,756
4	205	15	35	0	0	19	37,892
5	219	15	26	0	1	16	38,053
6	247	23	19	0	0	24	38,234
7	287	19	8	0	1	31	38,462
8	330	22	19	0	0	27	38,724
9	351	14	0	0	1	24	39,036
10	369	17	0	0	0	30	39,358
11	390	9	39	0	1	25	39,674
12	418	14	0	0	0	25	40,053
13	534	45	0	0	1	30	40,511
14	462	47	0	0	0	29	40,897
15	421	21	22	0	1	28	41,246
16	383	18	18	0	0	17	41,576
17	373	22	11	0	1	27	41,888
18	409	27	17	0	0	30	42,223
19	440	26	10	0	0	29	42,598
20	458	26	11	0	1	27	42,991
21	459	27	16	0	0	28	43,379
22	451	21	27	0	1	33	43,748
23	453	11	19	0	0	22	44,149
24	457	56	0	0	1	20	44,529
25	493	41	0	0	0	30	44,951
26	514	37	0	0	1	19	45,408
27	570	33	0	0	1	19	45,925
28	528	33	0	0	0	33	46,387
29	508	28	0	0	0	34	46,833
30	489	25	0	0	1	29	47,267
31	439	22	0	0	1	30	47,653
S.F.D.	12,314	763	390	0	16	782	47,653
AC.FT.	24,424	1,514	774	0	32	1,551	94,518

TOTAL ACRE-FOOT STORAGE DAYS 2,571,527

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW: TRANS. LOSS	FLOW: VIA A-EWSD	FLOW ABOVE 1ST POINT OLCESE WD	RESERVOIR: LOSS	RESERVOIR: STORAGE
Previous Day	0	0	0	0	2	4	20,705
1	0	0	0	0	2	6	20,697
2	0	0	0	0	2	10	20,685
3	0	0	0	0	2	9	20,674
4	0	0	0	0	2	10	20,662
5	0	0	0	0	2	9	20,651
6	0	0	0	0	1	13	20,637
7	0	0	0	0	2	16	20,619
8	0	0	0	0	2	14	20,603
9	0	0	0	0	2	12	20,589
10	0	0	0	0	2	15	20,572
11	0	0	0	0	2	13	20,557
12	0	0	6	12	2	12	20,525
13	0	0	3	55	2	15	20,450
14	0	0	4	74	2	14	20,356
15	0	0	8	69	2	13	20,264
16	0	0	7	70	2	8	20,177
17	0	0	2	58	1	12	20,104
18	0	0	3	48	2	14	20,037
19	0	0	4	62	2	13	19,956
20	0	0	5	83	2	12	19,854
21	0	0	16	93	2	12	19,731
22	0	0	15	93	2	14	19,607
23	0	0	15	93	2	9	19,488
24	0	0	18	89	2	8	19,371
25	0	0	12	98	2	13	19,246
26	0	0	15	114	1	8	19,108
27	0	0	9	177	2	8	18,912
28	0	0	0	0	2	13	18,897
29	0	0	0	0	2	13	18,882
30	0	0	0	0	2	11	18,869
31	0	0	0	0	2	11	18,856
S.F.D.	0	0	142	1,288	59	360	18,856
AC.FT.	0	0	282	2,555	116	714	37,400

TOTAL ACRE-FOOT STORAGE DAYS 1,229,029

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
May	1-10	1	FRIANT-KERN INFLOW	Friant-Kern Inflow to Kern River Channel on behalf of Kern County Water Agency-ID4.
May	12	2	HACIENDA WD FLOW - VIA A-EWSD	Delivered as per terms of HACIENDA WATER DISTRICT/Arvin-Edison Water Storage District/ Westlands Water District Transfer and Exchange Agreement dated May 5, 1999.

KERN RIVER
SECOND POINT ENTITLEMENT
1954-1998

(Quantities in thousands of acre-feet)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Mar-Aug	Sep-Feb
1954	0.0	0.0	7.2	20.6	26.4	30.7	9.3	2.1	0.0	0.0	0.0	0.0	96.3	96.3	0.0
1955	0.0	0.0	0.0	4.8	16.2	22.9	3.4	0.0	0.0	0.0	0.0	13.2	60.5	47.3	13.2
1956	6.8	0.0	14.2	25.3	48.0	51.8	25.9	7.7	0.0	0.0	0.0	0.0	179.7	172.9	6.8
1957	0.0	0.0	1.1	4.8	19.5	38.1	8.1	0.3	0.0	0.0	0.0	0.0	71.9	71.9	0.0
1958	0.0	0.6	12.9	52.5	118.7	72.6	20.9	11.9	0.0	0.0	0.0	0.0	290.1	289.5	0.6
1959	0.0	0.0	0.4	7.2	6.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	17.4	17.4	0.0
1960	0.0	0.2	0.0	7.2	12.7	8.6	0.2	0.0	0.0	0.0	0.0	0.0	28.9	28.7	0.2
1961	0.0	0.0	0.0	2.0	3.7	2.3	0.7	0.0	0.0	0.0	0.0	0.0	8.7	8.7	0.0
1962	0.0	2.6	1.4	43.9	39.4	47.1	17.9	2.8	0.0	0.0	0.0	0.0	155.1	152.5	2.6
1963	4.1	13.5	8.0	16.4	39.5	50.1	27.9	9.0	0.0	0.0	0.0	0.0	168.5	150.9	17.6
1964	0.0	0.0	2.2	8.0	13.7	11.7	1.7	0.1	0.0	0.0	0.0	3.8	41.2	37.4	3.8
1965	0.0	0.0	5.8	20.0	37.3	44.2	24.5	9.7	0.0	0.0	0.0	0.0	141.5	141.5	0.0
1966	0.0	0.0	6.6	16.2	20.3	8.8	1.5	0.6	0.0	0.0	0.0	75.6	129.6	54.0	75.6
1967	0.4	0.3	21.6	24.2	89.3	111.0	75.1	24.2	0.0	0.0	0.0	0.0	346.1	345.4	0.7
1968	0.0	0.0	9.8	15.2	22.1	14.7	3.9	0.9	0.0	0.0	0.0	0.0	66.6	66.6	0.0
1969	39.3	9.4	48.6	124.3	222.1	173.1	81.4	29.7	0.0	0.0	0.0	0.0	727.9	679.2	48.7
1970	4.3	0.0	13.3	14.5	29.8	25.1	10.1	1.9	0.0	0.0	0.0	0.0	99.0	94.7	4.3
1971	0.0	0.0	7.5	11.1	15.3	20.6	7.7	0.9	0.0	0.0	0.0	0.0	63.1	63.1	0.0
1972	0.0	0.0	4.7	3.3	8.8	6.6	0.2	0.0	0.0	0.0	0.0	0.0	23.6	23.6	0.0
1973	0.0	0.0	11.1	31.1	102.0	76.3	23.1	7.1	0.0	0.0	0.0	0.0	250.7	250.7	0.0
1974	0.1	0.0	17.8	31.0	57.7	52.5	16.3	6.8	0.0	0.0	0.0	0.0	182.2	182.1	0.1
1975	0.0	0.0	7.8	9.2	43.7	42.2	10.6	1.5	0.0	0.0	0.0	0.0	115.0	115.0	0.0
1976	0.0	0.0	1.5	2.6	9.1	1.1	0.5	0.4	0.0	0.0	0.0	0.0	15.2	15.2	0.0
1977	0.0	0.0	0.0	2.0	2.3	5.7	0.0	0.1	0.0	0.0	0.0	0.4	10.5	10.1	0.4
1978	0.7	15.2	56.0	54.8	132.4	106.6	61.6	17.6	3.1	0.0	0.0	0.0	448.0	429.0	19.0
1979	0.0	0.0	17.3	26.9	49.9	28.7	9.0	2.8	0.0	0.0	0.0	0.0	134.6	134.6	0.0
1980	25.2	30.5	40.5	65.4	97.2	94.8	57.9	19.0	0.0	0.0	0.0	0.0	430.5	374.8	55.7
1981	0.0	0.0	8.7	16.4	23.4	15.2	2.3	0.1	0.0	0.0	0.0	0.0	66.1	66.1	0.0
1982	0.0	1.4	19.4	73.8	86.0	60.0	30.0	13.7	5.8	0.0	2.5	3.5	296.1	282.9	13.2
1983	6.1	17.7	95.9	57.4	171.2	208.8	87.6	46.1	0.0	0.0	2.4	7.5	700.7	667.0	33.7
1984	0.5	0.0	20.7	23.4	48.9	24.0	18.6	9.9	0.0	0.0	0.0	0.0	146.0	145.5	0.5
1985	0.0	0.0	11.3	39.3	42.5	26.4	7.3	1.7	0.0	0.0	0.0	0.0	128.5	128.5	0.0
1986	0.1	26.8	68.0	63.5	99.5	87.5	31.4	12.2	0.0	0.0	0.0	0.0	389.0	362.1	26.9
1987	0.0	0.0	7.4	11.9	18.0	12.2	2.1	0.1	0.0	0.0	0.0	0.0	51.7	51.7	0.0
1988	0.0	0.0	3.8	6.9	12.7	8.1	1.0	0.1	0.0	0.0	0.0	0.0	32.6	32.6	0.0
1989	0.0	0.0	15.7	23.4	17.0	10.2	1.1	0.0	0.0	0.0	0.0	0.0	67.4	67.4	0.0
1990	0.0	0.0	1.5	4.5	6.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	16.1	16.1	0.0
1991	0.0	0.0	9.9	12.8	19.5	26.7	6.3	0.1	0.0	0.0	0.0	0.0	75.3	75.3	0.0
1992	0.0	0.0	2.5	12.0	17.8	4.8	0.1	0.0	0.0	0.0	0.0	0.0	37.2	37.2	0.0
1993	0.5	0.0	24.3	38.0	64.6	49.2	22.1	4.5	0.0	0.0	0.0	0.0	203.2	202.7	0.5
1994	0.0	0.0	6.4	9.1	15.5	12.2	1.1	0.0	0.0	0.0	0.0	0.0	44.3	44.3	0.0
1995	0.2	0.2	48.7	39.7	84.1	99.9	71.5	22.8	0.0	0.0	0.0	0.0	367.1	366.7	0.4
1996	0.3	9.9	28.6	43.8	76.3	47.5	16.6	4.4	0.0	0.0	1.5	5.6	234.5	217.2	17.3
1997	48.9	6.8	33.2	41.7	70.6	41.8	17.0	6.2	0.0	0.0	0.0	0.0	266.2	210.5	55.7
1998	0.2	18.1	45.0	55.4	102.7	129.6	83.6	24.3	0.0	0.0	0.0	0.0	458.9	440.6	18.3
Mean	3.1	3.4	17.1	27.1	50.2	44.9	20.0	6.7	0.2	0.0	0.1	2.4	175.2	165.9	9.3

REPORT OF THE KERN RIVER WATERMASTER

JUNE 1999

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2581.74	327,495	165,112	95	744	5	1,681	1,681	165,112	149,894	5	0	0	0	0	
1	2581.92	329,072	165,907	101	772	5	1,673	1,613	165,847	150,629	5	0	0	0	0	1
2	2582.06	330,300	166,526	58	812	5	1,494	1,521	166,493	151,275	3	0	0	0	0	2
3	2582.18	331,357	167,059	61	797	6	1,397	1,361	166,990	151,772	3	0	0	0	0	3
4	2582.28	332,236	167,502	48	695	5	1,191	1,226	167,468	152,250	2	0	0	0	0	4
5	2582.37	333,031	167,903	83	600	6	1,090	1,086	167,865	152,647	4	0	0	0	0	5
6	2582.45	333,738	168,260	93	521	5	976	1,015	168,261	153,043	5	0	0	0	0	6
7	2582.50	334,181	168,483	139	611	6	979	975	168,480	153,262	7	0	0	0	0	7
8	2582.51	334,267	168,526	131	790	5	969	987	168,541	153,323	6	23	23	0	0	8
9	2582.46	333,827	168,305	83	1,147	5	1,014	1,077	168,383	153,165	4	76	76	0	0	9
10	2582.42	333,561	168,170	117	1,262	5	1,249	1,160	168,159	152,941	6	127	127	0	0	10
11	2582.39	333,208	167,992	109	1,280	6	1,217	1,250	168,014	152,796	5	161	161	0	0	11
12	2582.38	333,119	167,948	115	1,206	5	1,282	1,263	167,951	152,733	6	143	143	0	0	12
13	2582.36	332,943	167,859	123	1,250	6	1,290	1,314	167,886	152,668	6	149	149	0	0	13
14	2582.34	332,766	167,770	109	1,345	5	1,370	1,363	167,790	152,572	5	108	108	0	0	14
15	2582.30	332,413	167,592	120	1,480	6	1,428	1,387	167,571	152,353	6	79	79	0	0	15
16	2582.25	331,974	167,370	128	1,452	6	1,364	1,381	167,366	152,148	6	115	115	0	0	16
17	2582.20	331,533	167,148	120	1,447	6	1,351	1,343	167,136	151,918	6	140	140	0	0	17
18	2582.12	330,828	166,793	130	1,532	6	1,313	1,337	166,805	151,587	6	225	225	0	0	18
19	2582.13	330,916	166,837	146	1,153	5	1,348	1,323	166,824	151,606	7	141	141	0	0	19
20	2582.18	331,357	167,059	146	935	6	1,309	1,272	167,009	151,791	7	80	80	0	0	20
21	2582.19	331,445	167,104	139	970	6	1,160	1,190	167,084	151,866	7	47	47	0	0	21
22	2582.16	331,180	166,970	123	1,105	6	1,100	1,106	166,956	151,738	6	39	39	0	0	22
23	2582.09	330,564	166,659	123	1,240	5	1,057	1,028	166,616	151,398	6	41	41	0	0	23
24	2581.99	329,687	166,217	144	1,220	6	928	992	166,238	151,020	7	27	27	0	0	24
25	2581.92	329,072	165,907	130	1,165	6	991	963	165,900	150,682	6	40	40	0	0	25
26	2581.87	328,633	165,686	141	1,044	6	970	938	165,647	150,429	7	50	50	0	0	26
27	2581.79	327,931	165,332	135	1,067	6	854	866	165,305	150,087	7	57	57	0	0	27
28	2581.68	326,970	164,847	135	1,119	5	774	800	164,846	149,628	7	58	58	0	0	28
29	2581.55	325,834	164,275	145	1,191	6	770	771	164,275	149,057	7	41	41	0	0	29
30	2581.40	324,527	163,616	132	1,266	6	745	745	163,616	148,398	7	45	45	0	0	30
TOTAL SECOND FOOT DAYS				3,507	32,474	168	34,653	34,653	163,616	148,398	172	2,012	2,012	0	0	
TOTAL ACRE-FEET				6,956	64,411	333	68,733	68,733	324,527	294,343	341	3,991	3,991	0	0	

By: 

Date: July 19, 1999

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT LAKE MING	FLOW ABOVE 1ST POINT KERN VALLEY GOLF COURSE	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	1,242	722	2	0	54	83,385
1	1,195	751	1	1	57	83,770
2	1,133	795	2	0	33	84,073
3	1,023	783	1	1	35	84,276
4	931	679	2	0	27	84,499
5	836	535	1	1	47	84,751
6	788	482	2	0	52	85,003
7	760	564	1	1	79	85,118
8	768	692	2	0	74	85,118
9	830	783	1	1	47	85,116
10	886	804	2	0	67	85,129
11	948	838	1	1	62	85,175
12	957	826	2	0	65	85,239
13	991	857	1	1	69	85,302
14	1,025	959	2	0	62	85,304
15	1,041	1,070	2	1	68	85,204
16	1,037	1,013	2	0	73	85,153
17	1,011	979	2	1	69	85,113
18	1,007	1,072	2	0	74	84,972
19	998	980	2	0	83	84,905
20	963	804	2	1	83	84,978
21	907	863	2	0	79	84,941
22	850	957	2	1	70	84,761
23	796	910	2	0	70	84,575
24	772	843	2	0	82	84,420
25	752	784	2	1	73	84,312
26	735	724	2	0	81	84,240
27	686	760	2	1	76	84,087
28	641	824	2	0	77	83,825
29	621	909	2	0	83	83,452
30	603	962	2	1	75	83,015
S.F.D.	26,491	24,802	53	14	1,992	83,015
AC.FT.	52,544	49,194	105	28	3,951	164,658

TOTAL ACRE-FOOT STORAGE DAYS 5,037,669

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 2ND POINT	FLOW VIA KDWD	FLOW FOR NKWSD	FLOW AT 2ND POINT	FLOW ABOVE 1ST POINT OLCESE WD	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	439	22	0	0	1	30	47,653
1	418	21	0	0	3	32	48,015
2	388	17	0	0	3	18	48,365
3	338	14	0	0	4	19	48,666
4	295	16	0	0	3	15	48,927
5	250	11	54	0	4	26	49,082
6	227	16	23	0	3	30	49,237
7	215	19	28	0	4	44	49,357
8	219	20	0	23	3	42	49,488
9	247	30	0	76	3	26	49,600
10	274	29	0	127	3	37	49,678
11	302	21	0	161	4	35	49,759
12	306	22	0	143	3	37	49,860
13	323	20	0	149	4	40	49,970
14	338	20	0	108	3	35	50,142
15	346	21	0	79	3	39	50,346
16	344	23	0	115	4	42	50,506
17	332	26	0	140	3	39	50,630
18	330	35	0	225	4	43	50,653
19	325	32	0	141	3	48	50,754
20	309	51	0	80	3	48	50,881
21	283	60	0	47	4	46	51,007
22	256	45	0	39	3	41	51,135
23	232	27	0	41	3	41	51,255
24	220	48	0	27	4	48	51,348
25	211	56	0	40	3	44	51,416
26	203	56	0	50	4	47	51,462
27	180	43	0	57	3	46	51,493
28	159	38	0	58	3	46	51,507
29	150	45	0	41	4	49	51,518
30	142	41	0	45	3	45	51,526
S.F.D.	8,162	923	105	2,012	101	1,148	51,526
AC.FT.	16,189	1,831	208	3,991	200	2,277	102,200

TOTAL ACRE-FOOT STORAGE DAYS 2,990,246

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW TRANS. LOSS	FLOW VIA A-EWSD	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	0	0	11	18,856
1	0	0	0	0	12	18,844
2	0	0	0	0	7	18,837
3	0	0	0	0	7	18,830
4	0	0	0	0	6	18,824
5	0	0	0	0	10	18,814
6	0	0	0	0	11	18,803
7	0	0	0	0	16	18,787
8	0	0	7	48	15	18,717
9	0	0	9	249	10	18,449
10	0	0	5	297	13	18,134
11	0	0	4	256	12	17,862
12	0	0	8	207	13	17,634
13	0	0	6	218	14	17,396
14	0	0	6	252	12	17,126
15	0	0	6	304	13	16,803
16	0	0	5	296	13	16,489
17	0	0	8	294	12	16,175
18	0	0	7	193	13	15,962
19	0	0	0	0	15	15,947
20	0	0	0	0	15	15,932
21	0	0	0	0	14	15,918
22	0	0	6	58	12	15,842
23	0	0	13	249	12	15,568
24	0	0	17	285	14	15,252
25	0	0	14	271	13	14,954
26	0	0	6	208	13	14,727
27	0	0	6	201	13	14,507
28	0	0	5	194	12	14,296
29	0	0	5	191	13	14,087
30	0	0	5	213	12	13,857
S.F.D.	0	0	148	4,484	367	13,857
AC.FT.	0	0	293	8,894	728	27,485

TOTAL ACRE-FOOT STORAGE DAYS 998,425

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
June				None

ISABELLA RESERVOIR

HISTORICAL QUANTITIES OF MAXIMUM & MINIMUM STORAGE WITH DATE OF OCCURRENCE, CARRYOVER STORAGE & EVAPORATION LOSS

ACRE-FEET

Year	Maximum Annual Storage	Date of Occurrence	Minimum Annual Storage	Date of Occurrence	December 31 Carryover Storage	Annual Evaporation Loss
1954	85,380	June 9, 1954	0	April 16, 1954	8,670	10,129
1955	78,567	December 31	4,330	April 21	78,567	7,556
1956	283,033	June 30	79,823	January 1	130,313	33,616
1957	183,979	June 20	101,074	December 14	101,413	27,379
1958	455,162	June 28	100,947	January 23	198,112	40,519
1959	207,674	May 21	71,344	December 19	71,608	29,258
1960	119,253	May 19	29,119	December 31	29,119	16,683
1961	53,096	June 17	17,410	November 19	17,524	10,647
1962	173,675	June 29	17,448	January 11	82,849	23,530
1963	369,990	June 28	82,190	January 28	170,043	37,218
1964	203,628	June 7	94,497	December 18	118,303	28,540
1965	288,937	July 9	117,117	March 23	171,193	32,290
1966	337,369	December 21	81,941	November 27	313,258	31,288
1967	538,698	July 20	199,282	December 14	199,937	42,855
1968	261,193	June 6	119,349	December 7	124,480	31,405
1969	578,116	July 14	124,283	January 12	225,535	45,760
1970	327,771	June 10	156,517	November 24	172,038	40,891
1971	240,996	June 22	120,161	November 25	122,040	33,678
1972	126,754	June 11	50,030	October 16	55,589	22,800
1973	399,448	June 29	55,449	January 7	205,948	43,411
1974	475,881	June 23	201,710	March 1	223,930	53,936
1975	348,695	June 17	169,893	December 17	170,190	46,169
1976	171,617	January 26	67,668	December 29	67,701	30,250
1977	82,347	June 16	34,504	December 16	43,820	19,366
1978	491,451	July 16	44,060	January 1	244,904	55,497
1979	442,035	June 11	208,632	December 30	208,768	51,942
1980	585,381	July 3	208,224	January 7	229,813	57,335
1981	312,456	June 7	166,907	December 27	168,210	47,541
1982	560,083	June 29	168,984	January 1	261,558	54,193
1983	630,825	July 6	260,010	January 9	311,944	55,001
1984	407,745	June 7	244,755	December 15	244,979	52,220
1985	388,621	June 13	189,823	November 23	195,516	49,931
1986	562,134	June 16	195,579	January 1	244,085	61,827
1987	276,266	June 7	142,661	December 1	143,410	42,029
1988	158,189	June 6	72,638	December 9	73,545	27,004
1989	184,801	June 1	71,111	February 18	85,978	33,497
1990	97,420	June 12	45,895	December 18	46,014	22,423
1991	175,558	June 19	45,300	February 27	89,654	28,106
1992	153,942	June 5	82,080	December 28	82,262	29,118
1993	416,982	June 29	82,189	January 1	242,525	48,579
1994	262,332	June 6	115,492	December 24	115,585	38,343
1995	551,921	July 19	115,492	January 3	246,474	53,589
1996	546,849	June 11	244,979	December 4	252,811	61,423
1997	491,994	June 6	242,450	December 30	242,525	55,815
1998	562,474	July 24	242,205	January 31	244,904	50,171
1999	334,267	June 8				

REPORT OF THE KERN RIVER WATERMASTER

JULY 1999

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED F LOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2581.40	324,527	163,616	132	1,266	6	745	745	163,616	148,398	7	45	45	0	0	
1	2581.22	322,962	162,827	146	1,344	6	707	707	162,827	147,609	7	52	52	0	0	1
2	2581.04	321,399	162,039	179	1,392	6	789	768	162,018	146,800	9	98	98	0	0	2
3	2580.85	319,755	161,210	173	1,375	6	725	709	161,173	145,955	9	191	191	0	0	3
4	2580.63	317,857	160,253	156	1,409	6	614	691	160,293	145,075	8	193	193	0	0	4
5	2580.44	316,224	159,430	125	1,426	6	734	648	159,384	144,166	6	94	94	0	0	5
6	2580.24	314,508	158,565	147	1,307	6	595	628	158,552	143,334	8	0	0	0	0	6
7	2580.02	312,625	157,615	166	1,333	6	555	580	157,627	142,409	9	13	13	0	0	7
8	2579.81	310,835	156,713	140	1,345	7	590	560	156,695	141,477	7	25	25	0	0	8
9	2579.58	308,881	155,728	115	1,398	6	534	607	155,783	140,565	6	21	21	0	0	9
10	2579.39	307,271	154,916	123	1,381	6	698	654	154,927	139,709	7	24	24	0	0	10
11	2579.24	306,004	154,277	74	1,290	6	731	728	154,285	139,067	4	23	23	0	0	11
12	2579.09	304,738	153,639	66	1,320	7	755	727	153,619	138,401	4	93	93	0	0	12
13	2578.93	303,393	152,961	71	1,296	6	695	735	152,981	137,763	4	109	109	0	0	13
14	2578.76	301,965	152,241	119	1,351	6	756	681	152,186	136,968	7	124	124	0	0	14
15	2578.51	299,873	151,186	159	1,483	6	593	652	151,190	135,972	9	154	154	0	0	15
16	2578.26	297,789	150,135	129	1,522	6	606	585	150,118	134,900	7	155	155	0	0	16
17	2578.01	295,713	149,089	112	1,483	6	555	569	149,086	133,868	6	154	154	0	0	17
18	2577.79	293,893	148,171	131	1,325	7	545	527	148,150	132,932	8	155	155	0	0	18
19	2577.58	292,162	147,298	119	1,228	6	480	496	147,293	132,075	7	84	84	0	0	19
20	2577.37	290,436	146,428	127	1,201	6	464	448	146,407	131,189	7	66	66	0	0	20
21	2577.14	288,551	145,478	119	1,226	6	401	431	145,487	130,269	7	61	61	0	0	21
22	2576.92	286,755	144,572	124	1,204	7	429	403	144,555	129,337	7	87	87	0	0	22
23	2576.74	285,291	143,834	102	1,009	6	379	384	143,822	128,604	6	78	78	0	0	23
24	2576.58	283,991	143,179	102	892	6	345	356	143,178	127,960	6	62	62	0	0	24
25	2576.42	282,696	142,526	110	879	6	342	332	142,515	127,297	7	51	51	0	0	25
26	2576.23	281,162	141,753	120	954	7	308	323	141,757	126,539	7	57	57	0	0	26
27	2576.01	279,389	140,859	122	1,086	6	320	322	140,865	125,647	8	51	51	0	0	27
28	2575.73	277,146	139,728	132	1,330	7	338	326	139,722	124,504	8	47	47	0	0	28
29	2575.42	274,672	138,481	144	1,417	6	320	330	138,485	123,267	9	36	36	0	0	29
30	2575.12	272,289	137,279	133	1,396	6	333	329	137,279	122,061	8	50	50	0	0	30
31	2574.87	270,313	136,283	128	1,189	6	327	327	136,283	121,065	8	47	47	0	0	31
TOTAL SECOND FOOT DAYS				3,913	39,791	192	16,563	16,563	136,283	121,065	220	2,455	2,455	0	0	
TOTAL ACRE-FEET				7,761	78,924	380	32,852	32,852	270,313	240,129	436	4,869	4,869	0	0	

By: _____ Date: August 20, 1999

REPORT OF THE KERN RIVER WATERMASTER

JULY 1999

Quantities in S.F.D. except where noted

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT: LAKE MING	FLOW ABOVE 1ST POINT: KERN VALLEY GOLF COURSE	RESERVOIR: LOSS	RESERVOIR: STORAGE
Previous Day	603	962	2	1	75	83,015
1	578	1,012	2	0	83	82,496
2	619	1,003	2	1	101	82,008
3	579	942	2	0	98	81,545
4	567	944	2	1	89	81,076
5	537	988	2	0	71	80,552
6	524	950	2	1	84	80,039
7	491	958	2	0	95	79,475
8	477	975	2	1	80	78,894
9	509	1,030	2	0	65	78,306
10	541	1,025	2	1	70	77,749
11	592	980	2	0	42	77,317
12	591	991	2	1	37	76,877
13	597	992	2	0	40	76,440
14	560	1,045	2	1	68	75,884
15	540	1,151	2	0	90	75,181
16	494	1,118	2	1	73	74,481
17	483	1,068	2	0	63	73,831
18	455	934	2	1	74	73,275
19	434	907	2	0	67	72,733
20	401	944	2	1	72	72,115
21	389	1,089	2	0	67	71,346
22	370	1,040	3	1	70	70,602
23	357	862	2	0	57	70,038
24	338	762	2	1	57	69,554
25	322	772	2	0	62	69,040
26	316	834	3	1	67	68,451
27	315	902	2	0	68	67,794
28	318	966	2	1	73	67,070
29	320	1,047	2	0	80	66,261
30	320	978	2	1	73	65,527
31	318	836	2	0	70	64,937
S.F.D.	14,252	30,045	64	15	2,206	64,937
AC.FT.	28,268	59,593	127	30	4,375	128,800

TOTAL ACRE-FOOT STORAGE DAYS 4,563,754

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 2ND POINT	FLOW: VIA KDWD	FLOW: FOR NKWSD	FLOW: AT 2ND POINT	RESERVOIR: LOSS	RESERVOIR: STORAGE
Previous Day	142	41	0	45	45	51,526
1	129	21	0	52	50	51,532
2	149	46	0	98	62	51,475
3	130	26	0	191	60	51,328
4	124	26	0	193	54	51,179
5	111	46	0	94	43	51,107
6	104	48	0	0	51	51,112
7	89	45	0	13	58	51,085
8	83	50	0	25	49	51,044
9	98	47	0	21	41	51,033
10	113	35	0	24	44	51,043
11	136	28	0	23	27	51,101
12	136	33	0	93	24	51,087
13	138	30	0	109	26	51,060
14	121	26	0	124	43	50,988
15	112	32	0	154	58	50,856
16	91	91	0	155	47	50,654
17	86	100	0	154	41	50,445
18	72	87	0	155	48	50,227
19	62	84	0	84	44	50,077
20	47	78	0	66	47	49,933
21	42	76	0	61	44	49,794
22	33	77	0	87	46	49,617
23	27	69	0	78	38	49,459
24	18	68	0	62	38	49,309
25	10	56	0	51	41	49,171
26	7	63	0	57	45	49,013
27	7	68	0	51	46	48,855
28	8	58	0	47	50	48,708
29	10	66	0	36	55	48,561
30	9	78	0	50	51	48,391
31	9	69	0	47	50	48,234
S.F.D.	2,311	1,727	0	2,455	1,421	48,234
AC.FT.	4,584	3,426	0	4,869	2,819	95,671

TOTAL ACRE-FOOT STORAGE DAYS 3,089,211

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW: TRANS. LOSS	FLOW: VIA A-EWSD	FLOW ABOVE 1ST POINT OLCESE WD	RESERVOIR: LOSS	RESERVOIR: STORAGE
Previous Day	0	0	5	213	0	12	13,857
1	0	0	6	253	4	13	13,581
2	0	0	6	239	3	16	13,317
3	0	0	7	209	4	15	13,082
4	0	0	7	239	3	13	12,820
5	0	0	5	293	4	11	12,507
6	0	0	7	302	3	12	12,183
7	0	0	9	308	4	13	11,849
8	0	0	7	288	4	11	11,539
9	0	0	6	294	4	9	11,226
10	0	0	6	291	3	9	10,917
11	0	0	12	247	4	5	10,649
12	0	0	7	196	4	5	10,437
13	0	0	9	156	4	5	10,263
14	0	0	5	151	3	8	10,096
15	0	0	6	140	4	11	9,935
16	0	0	7	151	3	9	9,765
17	0	0	7	154	4	8	9,592
18	0	0	6	143	4	9	9,430
19	0	0	6	147	4	8	9,265
20	0	0	3	110	3	8	9,141
21	0	0	0	0	4	8	9,129
22	0	0	0	0	3	8	9,118
23	0	0	0	0	4	7	9,107
24	0	0	0	0	3	7	9,097
25	0	0	0	0	4	7	9,086
26	0	0	0	0	3	8	9,075
27	0	0	9	56	4	8	8,998
28	0	0	7	252	4	9	8,726
29	0	0	7	261	4	9	8,445
30	0	0	7	283	3	9	8,143
31	0	0	7	230	4	8	7,894
S.F.D.	0	0	171	5,393	113	286	7,894
AC.FT.	0	0	339	10,697	223	567	15,658

TOTAL ACRE-FOOT STORAGE DAYS 631,561

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
July				None

KERN RIVER NATURAL FLOW
FIRST POINT OF MEASUREMENT
APRIL - JULY
1894 TO DATE

In order of Magnitude

Quantities in acre-feet

YEAR	APR	MAY	JUN	JUL	TOTAL	AVERAGE
1961	24,137	29,980	24,305	8,952	87,374	18%
1924	28,540	41,722	14,069	8,225	92,556	20%
1977	23,391	25,630	35,655	10,973	95,649	20%
1931	23,440	41,867	24,262	8,493	98,062	21%
1976	25,924	47,151	20,930	14,749	108,754	23%
1990	32,019	38,600	29,345	13,380	113,344	24%
1934	39,919	43,065	21,820	11,341	116,145	25%
1972	28,288	45,965	38,531	14,936	127,720	27%
1959	40,566	39,945	32,061	18,013	130,585	28%
1898	42,248	45,213	32,809	15,033	135,303	29%
1988	39,584	58,350	43,140	20,969	162,043	34%
1960	46,272	58,336	47,181	16,683	168,472	36%
1992	55,448	74,394	32,987	16,324	179,153	38%
1964	42,946	61,521	54,658	23,803	182,928	39%
1994	46,489	67,224	56,223	21,068	191,004	40%
1928	37,757	76,885	60,344	18,716	193,702	41%
1900	28,102	68,295	76,366	24,125	196,888	42%
1949	50,517	84,508	57,685	17,201	209,911	44%
1987	55,236	75,108	56,146	24,918	211,408	45%
1913	42,494	73,561	60,738	34,929	211,722	45%
1899	53,133	51,353	79,178	30,046	213,710	45%
1929	39,064	85,995	63,487	30,986	219,532	46%
1966	68,779	82,336	45,431	23,347	219,893	46%
1955	37,567	69,544	86,660	31,014	224,785	47%
1930	53,506	67,851	82,824	28,401	232,582	49%
1926	66,079	98,598	49,530	18,575	232,782	49%
1989	91,380	71,849	49,823	21,378	234,430	49%
1948	43,976	86,108	78,565	31,331	239,980	51%
1971	52,661	66,635	82,707	42,472	244,475	52%
1968	65,584	87,991	64,054	30,690	248,319	52%
1947	60,353	110,325	57,778	21,116	249,572	53%
1912	37,246	80,471	100,925	33,170	251,812	53%
1999	**55,843**	**95,199**	**68,733**	**32,852**	**252,627**	**53%**
1981	69,320	91,914	65,817	25,630	252,681	53%
1908	79,320	79,418	60,305	41,851	260,894	55%
1951	48,914	85,039	88,990	38,941	261,884	55%
1939	92,136	92,253	58,400	25,480	268,269	57%
1991	58,092	79,763	100,423	38,265	276,543	58%
1957	38,644	79,355	132,359	41,988	292,346	62%
1894	88,974	98,801	64,564	43,061	295,400	62%
1933	57,265	60,026	125,395	56,898	299,584	63%
1950	76,155	98,483	90,367	34,901	299,906	63%
1925	56,408	102,016	96,252	58,437	313,113	66%
1904	59,812	113,205	103,904	39,725	316,646	67%
1970	63,513	110,057	95,700	50,138	319,408	67%
1921	51,723	100,096	120,387	49,119	321,325	68%
1953	70,730	86,019	103,164	69,657	329,570	70%
1923	73,355	120,849	82,528	55,800	332,532	70%
1918	74,513	78,722	136,753	44,828	334,816	71%
1919	86,574	140,215	81,844	34,364	342,997	72%
1935	71,042	103,787	133,634	42,184	350,647	74%
1910	102,883	127,733	79,464	42,046	352,126	74%
1954	101,203	139,719	73,553	39,642	354,117	75%

YEAR	APR	MAY	JUN	JUL	TOTAL	AVERAGE
1905	62,047	117,748	132,766	53,835	366,396	77%
1896	57,864	86,174	146,124	82,760	372,922	79%
1975	46,602	147,001	140,660	51,917	386,180	81%
1902	107,403	109,904	128,853	43,436	389,596	82%
1946	109,658	155,476	85,880	39,733	390,747	82%
1903	74,315	132,097	139,222	53,355	398,989	84%
1944	80,223	150,109	115,862	59,197	405,391	86%
1979	102,079	164,935	106,112	46,733	419,859	89%
1984	91,359	161,613	93,114	77,046	423,132	89%
1985	136,241	146,799	99,858	41,395	424,293	90%
1920	83,370	158,904	137,840	50,699	430,813	91%
1915	80,916	124,506	172,324	77,496	455,242	96%
1965	80,043	131,980	149,357	95,288	456,668	96%
1963	69,412	137,839	163,944	105,384	476,579	101%
1940	118,175	196,465	145,503	50,471	510,614	108%
1962	147,463	135,884	157,253	74,874	515,474	109%
1927	100,362	184,721	161,153	75,481	521,717	110%
1942	112,586	150,036	178,754	81,529	522,905	110%
1956	97,553	159,683	168,876	99,529	525,641	111%
1932	111,273	154,742	166,404	94,013	526,432	111%
1974	114,113	183,733	167,740	69,580	535,166	113%
1917	126,329	165,062	187,638	81,275	560,304	118%
1997	142,909	214,290	142,358	71,919	571,476	121%
1936	157,290	219,404	137,028	67,902	581,624	123%
1901	83,190	186,446	197,792	114,613	582,041	123%
1993	133,993	200,864	162,420	87,414	584,691	123%
1945	131,246	205,509	169,002	91,593	597,350	126%
1996	147,959	225,987	154,883	70,502	599,331	126%
1922	84,407	242,259	202,395	88,649	617,710	130%
1897	173,393	281,639	137,393	61,837	654,262	138%
1907	197,720	199,950	183,995	97,083	678,748	143%
1914	144,934	210,676	201,064	128,338	685,012	145%
1895	162,071	268,635	172,890	91,133	694,729	147%
1943	198,736	254,785	155,650	88,011	697,182	147%
1911	138,113	184,481	222,076	156,498	701,168	148%
1973	110,892	288,652	230,390	93,834	723,768	153%
1982	212,963	254,985	198,748	130,098	796,794	168%
1958	168,105	316,974	230,866	115,724	831,669	175%
1937	183,505	352,050	225,395	91,097	852,047	180%
1986	208,147	293,335	263,794	121,398	886,674	187%
1967	99,509	269,631	311,063	243,802	924,005	195%
1995	143,244	255,046	293,129	237,602	929,221	196%
1938	223,928	315,044	291,880	130,917	961,769	203%
1980	211,608	287,825	282,877	208,715	991,025	209%
1941	124,615	386,666	309,960	174,416	995,657	210%
1978	181,700	363,157	354,825	194,693	1,094,375	231%
1952	222,633	434,769	302,557	159,856	1,119,815	236%
1998	189,663	308,440	371,835	267,435	1,137,373	240%
1909	247,402	382,617	394,086	194,870	1,218,975	257%
1906	173,143	360,234	458,418	399,841	1,391,636	294%
1983	206,473	478,625	571,846	288,866	1,545,810	326%
1916	481,749	472,994	391,700	225,154	1,571,597	332%
1969	378,333	617,968	496,796	254,777	1,747,874	369%
MAX.	481,749	617,968	571,846	399,841	1,747,874	
MIN.	23,391	25,630	14,069	8,225	87,374	
AVG.	100,679	157,815	141,388	74,009	473,891	

REPORT OF THE KERN RIVER WATERMASTER

AUGUST 1999

Quantities in S.F.D. except where noted

	ISABELLA RESERVOIR						CHANGE IN		MEAN STORAGE				SECOND POINT GROUP FLOW			
	ELEVATION	MIDNIGHT STORAGE			FIRST POINT	FLOW	STORAGE+LOSS	COMPUTED	Recreation Pool + Dead Storage		KERN	TOTAL	AT 2ND POINT		FRIANT-	
DAY	(FEET)	ACRE-FEET	S.F.D.	LOSS	REGULATED FLOW	ABOVE 1ST PT.	+1ST POINT +FLOW ABOVE 1ST POINT	1ST POINT NATURAL FLOW	= 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	COUNTY RECREATION POOL LOSS	FLOW AT SECOND POINT	KERN RIVER	FRIANT-KERN	KERN INFLOW	DAY
Previous Day	2574.87	270,313	136,283	128	1,189	6	327	327	136,283	121,065	8	47	47	0	0	
1	2574.62	268,344	135,290	122	1,203	6	338	317	135,269	120,051	8	82	82	0	0	1
2	2574.31	265,914	134,065	110	1,385	5	275	304	134,073	118,855	7	71	71	0	0	2
3	2573.99	263,420	132,808	123	1,427	6	299	319	132,836	117,618	8	76	76	0	0	3
4	2573.68	261,015	131,595	133	1,457	5	382	346	131,587	116,369	9	69	69	0	0	4
5	2573.37	258,623	130,389	119	1,439	6	358	359	130,382	115,164	8	63	63	0	0	5
6	2573.09	256,473	129,305	108	1,307	6	337	332	129,293	114,075	7	78	78	0	0	6
7	2572.85	254,638	128,380	89	1,131	6	301	310	128,377	113,159	6	86	86	0	0	7
8	2572.61	252,811	127,459	99	1,109	5	292	284	127,448	112,230	7	94	94	0	0	8
9	2572.35	250,840	126,465	67	1,180	6	259	269	126,464	111,246	5	92	92	0	0	9
10	2572.07	248,726	125,399	98	1,220	5	257	254	125,395	110,177	7	86	86	0	0	10
11	2571.79	246,624	124,340	98	1,202	6	247	270	124,359	109,141	7	57	57	0	0	11
12	2571.55	244,829	123,435	85	1,121	5	306	294	123,442	108,224	6	37	37	0	0	12
13	2571.34	243,266	122,647	115	996	6	329	311	122,636	107,418	9	44	44	0	0	13
14	2571.17	242,005	122,011	104	826	5	299	280	121,981	106,763	8	51	51	0	0	14
15	2570.95	240,378	121,191	111	914	6	211	260	121,210	105,992	8	48	48	0	0	15
16	2570.66	238,243	120,114	78	1,263	6	270	271	120,134	104,916	6	45	45	0	0	16
17	2570.39	236,265	119,117	120	1,202	6	331	289	119,095	103,877	9	49	49	0	0	17
18	2570.15	234,515	118,235	105	1,039	5	267	305	118,251	103,033	8	44	44	0	0	18
19	2569.96	233,135	117,539	119	887	6	316	291	117,530	102,312	9	51	51	0	0	19
20	2569.79	231,903	116,918	114	791	5	289	295	116,915	101,697	9	53	53	0	0	20
21	2569.63	230,748	116,336	106	749	6	279	283	116,337	101,119	8	53	53	0	0	21
22	2569.47	229,597	115,755	104	752	5	280	280	115,756	100,538	8	57	57	0	0	22
23	2569.28	228,233	115,068	106	855	6	280	267	115,056	99,838	9	41	41	0	0	23
24	2569.06	226,661	114,275	127	901	6	241	266	114,288	99,070	10	49	49	0	0	24
25	2568.85	225,166	113,521	102	925	5	278	264	113,520	98,302	8	42	42	0	0	25
26	2568.66	223,819	112,842	95	851	6	273	259	112,827	97,609	8	24	24	0	0	26
27	2568.50	222,688	112,272	97	695	5	227	237	112,267	97,049	8	0	0	0	0	27
28	2568.33	221,489	111,667	106	704	6	211	208	111,659	96,441	9	0	0	0	0	28
29	2568.09	219,804	110,818	111	920	5	187	202	110,825	95,607	9	0	0	0	0	29
30	2567.83	217,988	109,902	101	1,019	5	209	202	109,902	94,684	9	0	0	0	0	30
31	2567.61	216,458	109,131	95	881	5	210	210	109,131	93,913	8	0	0	0	0	31
TOTAL SECOND FOOT DAYS				3,267	32,351	172	8,638	8,638	109,131	93,913	245	1,542	1,542	0	0	
TOTAL ACRE-FEET				6,480	64,167	341	17,133	17,133	216,458	186,274	486	3,059	3,059	0	0	

By: _____ Date: September 17, 1999

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT LAKE MING	FLOW ABOVE 1ST POINT KERN VALLEY GOLF COURSE	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	318	836	2	0	70	64,937
1	312	824	2	1	68	64,354
2	303	978	2	0	60	63,617
3	313	972	2	1	68	62,887
4	331	975	2	0	73	62,168
5	340	968	2	1	65	61,472
6	322	878	2	0	59	60,855
7	307	815	2	1	48	60,296
8	284	811	2	0	54	59,713
9	269	823	2	1	37	59,119
10	254	819	2	0	53	58,499
11	270	802	2	1	53	57,911
12	294	737	2	0	46	57,420
13	308	629	2	1	63	57,033
14	280	520	2	0	57	56,734
15	260	654	2	1	61	56,276
16	271	885	2	0	43	55,617
17	289	836	2	1	66	55,001
18	303	762	2	0	57	54,483
19	291	687	2	1	65	54,019
20	295	672	2	0	62	53,578
21	283	655	2	1	57	53,146
22	280	657	2	0	57	52,710
23	267	774	2	1	57	52,143
24	266	807	2	0	69	51,531
25	264	835	2	0	55	50,903
26	259	773	2	1	51	50,335
27	237	642	2	0	52	49,876
28	208	666	2	1	56	49,359
29	202	885	2	0	59	48,615
30	202	984	1	1	54	47,777
31	210	848	2	0	50	47,087
S.F.D.	8,574	24,573	61	15	1,775	47,087
AC.FT.	17,006	48,740	121	29	3,520	93,396

TOTAL ACRE-FOOT STORAGE DAYS 3,420,562

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 2ND POINT	FLOW VIA KDWD	FLOW AT 2ND POINT	FLOW ABOVE 1ST POINT OLCESE WD	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	9	69	47	0	50	48,234
1	5	85	82	1	47	48,024
2	1	96	71	2	43	47,813
3	6	103	76	1	48	47,591
4	15	122	69	2	52	47,361
5	19	116	63	1	47	47,153
6	10	99	78	2	43	46,941
7	3	83	86	1	36	46,738
8	0	79	94	2	40	46,523
9	0	94	92	1	27	46,309
10	0	102	86	2	40	46,079
11	0	83	57	1	40	45,898
12	0	81	37	2	35	45,743
13	3	64	44	1	47	45,590
14	0	62	51	2	43	45,432
15	0	47	48	1	46	45,290
16	0	86	45	2	32	45,125
17	0	76	49	1	50	44,949
18	2	70	44	2	44	44,791
19	0	84	51	1	50	44,605
20	0	66	53	2	48	44,436
21	0	41	53	1	45	44,296
22	0	38	57	2	44	44,155
23	0	40	41	1	45	44,028
24	0	45	49	2	54	43,878
25	0	48	42	1	44	43,743
26	0	54	24	2	41	43,622
27	0	53	0	1	42	43,526
28	0	38	0	2	46	43,440
29	0	35	0	1	48	43,356
30	0	35	0	2	44	43,275
31	0	33	0	1	42	43,199
S.F.D.	64	2,158	1,542	46	1,353	43,199
AC.FT.	127	4,280	3,059	91	2,684	85,684

TOTAL ACRE-FOOT STORAGE DAYS 2,782,628

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW TRANS. LOSS	FLOW VIA A-EWSD	FLOW ABOVE 1ST POINT OLCESE WD	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	7	230	4	8	7,894
1	0	0	6	206	2	7	7,673
2	0	0	7	233	1	7	7,425
3	0	0	8	268	2	7	7,140
4	0	0	7	284	1	8	6,840
5	0	0	5	287	2	7	6,539
6	0	0	5	247	2	6	6,279
7	0	0	8	139	2	5	6,125
8	0	0	7	118	1	5	5,994
9	0	0	7	164	2	3	5,818
10	0	0	6	207	1	5	5,599
11	0	0	6	254	2	5	5,332
12	0	0	5	261	1	4	5,061
13	0	0	7	252	2	5	4,795
14	0	0	6	187	1	4	4,597
15	0	0	6	159	2	4	4,426
16	0	0	6	241	2	3	4,174
17	0	0	5	236	2	4	3,927
18	0	0	6	157	1	4	3,759
19	0	0	5	60	2	4	3,688
20	0	0	0	0	1	4	3,683
21	0	0	0	0	2	4	3,677
22	0	0	0	0	1	3	3,673
23	0	0	0	0	2	4	3,667
24	0	0	0	0	2	4	3,661
25	0	0	0	0	2	3	3,656
26	0	0	0	0	1	3	3,652
27	0	0	0	0	2	3	3,647
28	0	0	0	0	1	4	3,642
29	0	0	0	0	2	4	3,636
30	0	0	0	0	1	3	3,632
31	0	0	0	0	2	3	3,627
S.F.D.	0	0	118	3,960	50	139	3,627
AC.FT.	0	0	234	7,854	100	276	7,194

TOTAL ACRE-FOOT STORAGE DAYS 295,624

*WATERMASTER NOTES *** KERN RIVER BULLETIN*

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
August				None

1999 APRIL-JULY UNIMPAIRED RUNOFF

Central Valley Streams

April-July Flows
in 1000 Acre-feet

Watershed	(1) 50-Year Average	Median Forecast as of Feb. 1	Mar. 1	Apr. 1	May 1	(2)1999 Actual	% of Average
Sacramento River above Bend Bridge	2,451	2,500	3,100	3,050	3,040	2,720	111%
Feather River at Oroville Reservoir	1,831	1,640	2,240	2,140	2,100	1,808	99%
Yuba River at Smartville	1,029	980	1,320	1,230	1,200	1,135	110%
American River at Folsom Reservoir	1,261	1,240	1,720	1,590	1,580	1,536	122%
Cosumnes River at Michigan Bar	128	100	140	130	135	140	109%
Mokelumne River at Pardee Reservoir	459	440	580	520	520	533	116%
Stanislaus River at Melones Reservoir	699	670	850	770	800	807	115%
Tuolumne River at Don Pedro Reservoir	1,184	1,120	1,360	1,240	1,280	1,380	117%
Merced River at Lake McClure	611	560	630	560	560	598	98%
San Joaquin River at Millerton Lake	1,212	980	1,060	980	1,030	1,070	88%
Kings River at Pine Flat Reservoir	1,183	880	880	820	840	885	75%
Kaweah River at Terminus Reservoir	276	200	180	155	160	162	59%
Tule River at Success Reservoir	59	50	45	40	40	33	56%
KERN RIVER AT ISABELLA RESERVOIR	**442**	**330**	**310**	**260**	**270**	**246**	**56%**

(1) All 50-year averages are based on data for water years 1946-1995

(2) Source: State of California Department of Water Resources

REPORT OF THE KERN RIVER WATERMASTER

SEPTEMBER 1999

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2567.61	216,458	109,131	95	881	5	210	210	109,131	93,913	8	0	0	0	0	
1	2567.43	215,211	108,502	97	733	4	205	205	108,502	93,284	8	0	0	0	0	1
2	2567.24	213,899	107,841	112	739	5	195	206	107,852	92,634	10	0	0	0	0	2
3	2567.07	212,729	107,251	86	726	5	227	218	107,253	92,035	8	0	0	0	0	3
4	2566.94	211,837	106,801	78	598	5	231	231	106,803	91,585	7	0	0	0	0	4
5	2566.84	211,152	106,456	76	500	5	236	224	106,446	91,228	7	0	0	0	0	5
6	2566.71	210,265	106,009	109	537	5	204	228	106,023	90,805	10	0	0	0	0	6
7	2566.56	209,242	105,493	98	657	4	243	219	105,483	90,265	9	0	0	0	0	7
8	2566.40	208,157	104,946	92	660	5	210	217	104,943	89,725	8	0	0	0	0	8
9	2566.23	207,006	104,366	97	677	5	199	192	104,356	89,138	9	0	0	0	0	9
10	2566.04	205,724	103,719	107	702	5	167	189	103,731	88,513	10	0	0	0	0	10
11	2565.85	204,447	103,075	94	745	4	199	188	103,076	87,858	9	0	0	0	0	11
12	2565.68	203,310	102,502	86	681	5	199	198	102,502	87,284	8	0	0	0	0	12
13	2565.51	202,174	101,929	93	673	4	197	208	101,940	86,722	9	0	0	0	0	13
14	2565.36	201,177	101,427	95	631	5	229	199	101,408	86,190	9	0	0	0	0	14
15	2565.21	200,183	100,926	93	576	4	172	197	100,932	85,714	9	0	0	0	0	15
16	2565.06	199,190	100,425	85	600	5	189	192	100,434	85,216	8	0	0	0	0	16
17	2564.89	198,071	99,861	85	689	5	215	198	99,853	84,635	8	0	0	0	0	17
18	2564.74	197,086	99,364	80	602	5	190	203	99,369	84,151	8	0	0	0	0	18
19	2564.60	196,168	98,901	70	592	5	204	194	98,896	83,678	7	0	0	0	0	19
20	2564.45	195,189	98,408	91	587	4	189	197	98,411	83,193	9	0	0	0	0	20
21	2564.31	194,277	97,948	60	592	4	196	211	97,966	82,748	6	0	0	0	0	21
22	2564.17	193,369	97,490	72	629	5	248	228	97,488	82,270	7	0	0	0	0	22
23	2564.05	192,591	97,098	67	562	4	241	242	97,097	81,879	7	0	0	0	0	23
24	2563.94	191,881	96,740	57	532	5	236	237	96,740	81,522	6	0	0	0	0	24
25	2563.84	191,236	96,415	85	469	5	234	224	96,405	81,187	9	0	0	0	0	25
26	2563.74	190,594	96,091	88	432	5	201	217	96,097	80,879	9	0	0	0	0	26
27	2563.62	189,823	95,702	78	523	5	217	209	95,700	80,482	8	0	0	0	0	27
28	2563.48	188,928	95,251	92	565	4	210	216	95,255	80,037	10	0	0	0	0	28
29	2563.34	188,034	94,801	64	603	5	222	218	94,801	79,583	7	0	0	0	0	29
30	2563.21	187,207	94,384	91	542	5	221	221	94,384	79,166	10	0	0	0	0	30
TOTAL SECOND FOOT DAYS				2,578	18,354	141	6,326	6,326	94,384	79,166	249	0	0	0	0	
TOTAL ACRE-FEET				5,113	36,405	280	12,547	12,547	187,207	157,023	494	0	0	0	0	

By: _____ Date: October 18, 1999

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT LAKE MING	FLOW ABOVE 1ST POINT KERN VALLEY GOLF COURSE	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	210	848	2	0	50	47,087
1	205	576	1	0	51	46,664
2	206	614	2	1	58	46,195
3	218	635	2	0	45	45,731
4	231	545	1	1	40	45,375
5	224	459	2	0	39	45,099
6	228	460	2	0	56	44,809
7	219	540	1	1	50	44,436
8	217	530	2	0	48	44,073
9	192	528	1	1	49	43,686
10	189	555	2	0	55	43,263
11	188	561	1	0	49	42,840
12	198	493	2	1	44	42,498
13	208	504	1	0	48	42,153
14	199	478	2	0	48	41,824
15	197	419	1	1	48	41,552
16	192	453	2	0	44	41,245
17	198	424	1	1	43	40,974
18	203	391	2	0	41	40,743
19	194	380	1	1	35	40,520
20	197	443	2	0	47	40,225
21	211	405	1	0	31	39,999
22	228	406	2	1	36	39,782
23	242	333	1	0	34	39,656
24	237	319	2	0	29	39,543
25	224	287	1	1	44	39,434
26	217	257	2	0	46	39,346
27	209	353	1	1	40	39,160
28	216	380	2	0	47	38,947
29	218	409	1	1	33	38,721
30	221	351	2	0	46	38,543
S.F.D.	6,326	13,488	46	12	1,324	38,543
AC.FT.	12,547	26,753	91	25	2,626	76,449

TOTAL ACRE-FOOT STORAGE DAYS 2,493,293

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW VIA/FOR KDWD	FLOW VIA CWD	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	33	0	0	42	43,199
1	0	144	13	0	43	42,999
2	0	114	11	0	50	42,824
3	0	82	9	0	38	42,695
4	0	53	0	0	35	42,607
5	0	41	0	0	34	42,532
6	0	77	0	0	49	42,406
7	0	104	13	0	44	42,245
8	0	119	11	0	41	42,074
9	0	113	36	0	44	41,881
10	0	133	14	0	48	41,686
11	0	175	9	0	42	41,460
12	0	177	11	0	39	41,233
13	0	154	15	0	42	41,022
14	0	153	0	0	43	40,826
15	0	157	0	0	42	40,627
16	0	147	0	0	38	40,442
17	0	140	125	0	39	40,138
18	0	140	71	0	36	39,891
19	0	142	70	0	32	39,647
20	0	144	0	0	41	39,462
21	0	187	0	0	27	39,248
22	0	223	0	0	33	38,992
23	0	229	0	0	30	38,733
24	0	213	0	0	26	38,494
25	0	182	0	0	38	38,274
26	0	175	0	0	39	38,060
27	0	170	0	0	35	37,855
28	0	185	0	0	41	37,629
29	0	194	0	0	29	37,406
30	0	179	0	0	41	37,186
S.F.D.	0	4,446	408	0	1,159	37,186
AC.FT.	0	8,818	809	0	2,299	73,757

TOTAL ACRE-FOOT STORAGE DAYS 2,401,137

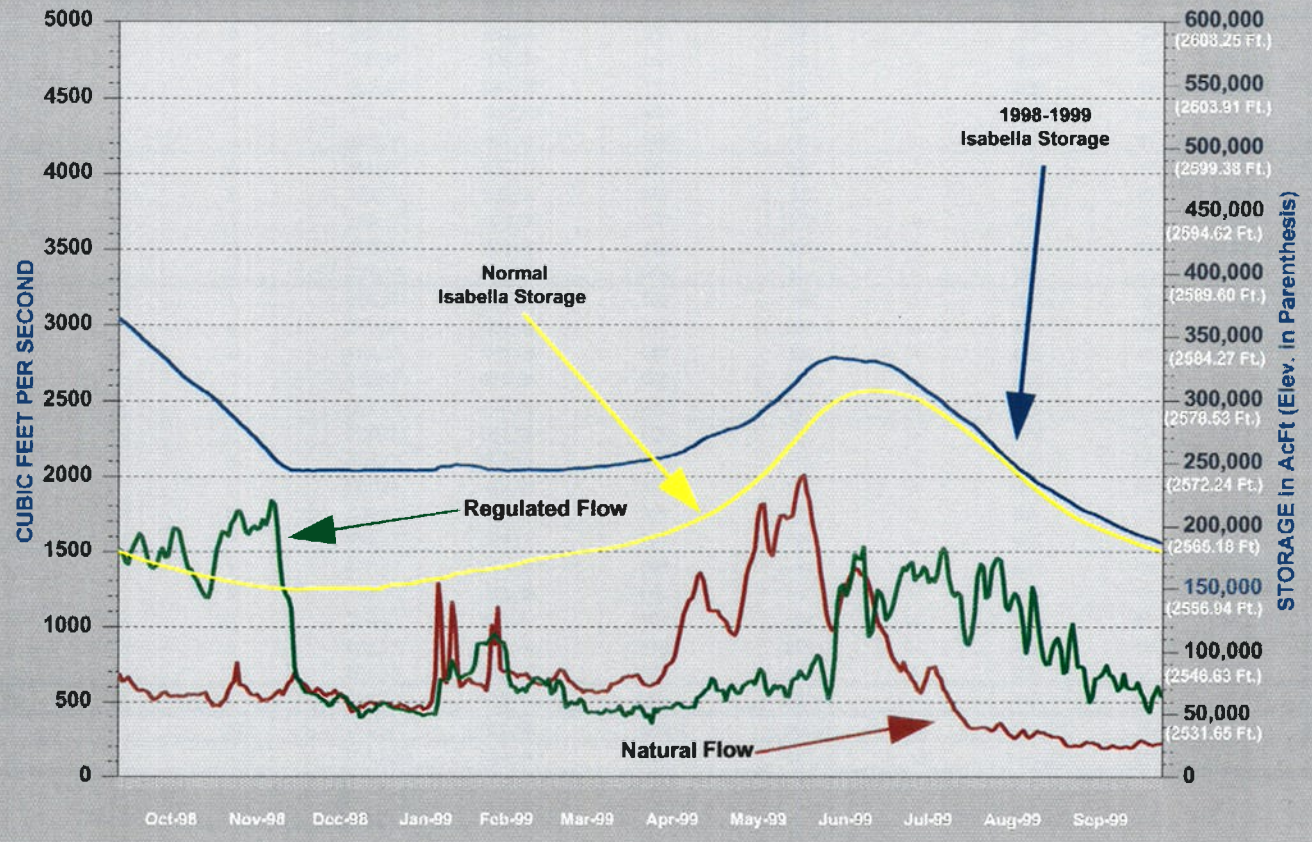
HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW FOR ID4	FLOW ABOVE 1ST POINT OLCESE WD	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	0	2	3	3,627
1	0	0	0	3	3	3,621
2	0	0	0	2	4	3,615
3	0	0	0	3	3	3,609
4	0	0	0	3	3	3,603
5	0	0	0	3	3	3,597
6	0	0	0	3	4	3,590
7	0	0	0	2	4	3,584
8	0	0	0	3	3	3,578
9	0	0	0	3	4	3,571
10	0	0	0	3	4	3,564
11	0	0	0	3	3	3,558
12	0	0	0	2	3	3,553
13	0	0	0	3	3	3,547
14	0	0	0	3	4	3,540
15	0	0	0	2	3	3,535
16	0	0	0	3	3	3,529
17	0	0	0	3	3	3,523
18	0	0	0	3	3	3,517
19	0	0	0	3	3	3,511
20	0	0	0	2	3	3,506
21	0	0	0	3	2	3,501
22	0	0	0	2	3	3,496
23	0	0	0	3	3	3,490
24	0	0	0	3	2	3,485
25	0	0	0	3	3	3,479
26	0	0	0	3	3	3,473
27	0	0	0	3	3	3,467
28	0	0	0	2	4	3,461
29	0	0	0	3	2	3,456
30	0	0	12	3	4	3,437
S.F.D.	0	0	12	83	95	3,437
AC.FT.	0	0	25	164	188	6,817

TOTAL ACRE-FOOT STORAGE DAYS 210,240

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
September	1	2	BVWSD FLOW - VIA CWD	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Cawelo Water District advanced water exchange agreement dated August 25, 1999.
September	30	2	HACIENDA WD FLOW - FOR ID4	Delivered as per terms of HACIENDA WATER DISTRICT/Improvement District No. 4 water exchange agreement dated June 9, 1999.



REPORT OF THE KERN RIVER WATERMASTER

OCTOBER 1999

Quantities in S.F.D. except where noted

	ISABELLA RESERVOIR						CHANGE IN STORAGE+LOSS	COMPUTED	MEAN STORAGE		KERN	TOTAL	SECOND POINT GROUP FLOW			
	ELEVATION	MIDNIGHT STORAGE			FIRST POINT REGULATED	FLOW ABOVE	+1ST POINT +FLOW ABOVE	1ST POINT NATURAL	Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)		COUNTY RECREATION	FLOW AT SECOND	AT 2ND POINT KERN	FRIANT-	FRIANT- KERN	
DAY	(FEET)	ACRE-FEET	S.F.D.	LOSS	FLOW	1ST PT.	1ST POINT	FLOW	TOTAL	IRRIGATION	POOL LOSS	POINT	RIVER	KERN	INFLOW	DAY
Previous Day	2563.21	187,207	94,384	91	542	5	221	221	94,384	79,166	10	0	0	0	0	
1	2563.10	186,508	94,031	85	459	1	192	203	94,042	78,824	9	0	0	0	0	1
2	2563.00	185,876	93,713	92	450	2	226	192	93,690	78,472	10	0	0	0	0	2
3	2562.89	185,180	93,362	65	442	2	158	188	93,369	78,151	7	0	0	0	0	3
4	2562.77	184,423	92,980	102	460	1	181	174	92,980	77,762	11	0	0	0	0	4
5	2562.65	183,669	92,600	74	488	2	184	179	92,595	77,377	8	0	0	0	0	5
6	2562.55	183,041	92,283	59	430	1	173	179	92,284	77,066	6	0	0	0	0	6
7	2562.46	182,479	92,000	44	417	2	180	179	92,000	76,782	5	0	0	0	0	7
8	2562.38	181,979	91,748	67	366	2	183	177	91,742	76,524	7	0	0	0	0	8
9	2562.33	181,666	91,590	44	280	1	167	178	91,595	76,377	5	0	0	0	0	9
10	2562.28	181,354	91,433	79	261	1	184	182	91,436	76,218	9	0	0	0	0	10
11	2562.22	180,982	91,245	51	331	1	195	193	91,246	76,028	6	0	0	0	0	11
12	2562.13	180,422	90,963	73	407	2	200	190	90,954	75,736	8	0	0	0	0	12
13	2562.02	179,739	90,618	64	451	4	174	186	90,621	75,403	7	0	0	0	0	13
14	2561.92	179,121	90,307	61	431	3	184	185	90,311	75,093	7	0	0	0	0	14
15	2561.85	178,688	90,089	68	342	4	196	194	90,091	74,873	8	0	0	0	0	15
16	2561.82	178,503	89,995	66	225	4	201	187	89,983	74,765	7	0	0	0	0	16
17	2561.79	178,318	89,902	68	186	4	165	178	89,903	74,685	8	0	0	0	0	17
18	2561.72	177,888	89,685	61	320	4	168	189	89,707	74,489	7	0	0	0	0	18
19	2561.67	177,580	89,530	61	325	4	235	202	89,519	74,301	7	0	0	0	0	19
20	2561.61	177,211	89,344	65	319	4	202	215	89,346	74,128	7	0	0	0	0	20
21	2561.55	176,842	89,158	82	308	4	208	203	89,155	73,937	9	0	0	0	0	21
22	2561.50	176,537	89,004	50	300	4	200	205	89,006	73,788	6	0	0	0	0	22
23	2561.47	176,353	88,911	46	250	4	207	198	88,904	73,686	5	0	0	0	0	23
24	2561.44	176,169	88,819	50	226	4	188	196	88,820	73,602	6	0	0	0	0	24
25	2561.39	175,863	88,664	48	296	4	193	188	88,660	73,442	5	0	0	0	0	25
26	2561.33	175,497	88,480	60	303	4	183	186	88,479	73,261	7	0	0	0	0	26
27	2561.27	175,130	88,295	57	305	4	181	186	88,299	73,081	6	0	0	0	0	27
28	2561.22	174,827	88,142	45	297	4	193	197	88,150	72,932	5	0	0	0	0	28
29	2561.19	174,644	88,050	41	265	4	218	210	88,050	72,832	5	0	0	0	0	29
30	2561.17	174,522	87,988	57	199	4	198	198	87,988	72,770	7	0	0	0	0	30
31	2561.16	174,462	87,958	32	183	4	189	189	87,958	72,740	4	0	0	0	0	31
TOTAL SECOND FOOT DAYS				1,917	10,322	93	5,906	5,906	87,958	72,740	214	0	0	0	0	
TOTAL ACRE-FEET				3,802	20,473	184	11,714	11,714	174,462	144,278	424	0	0	0	0	

By: _____ Date: November 17, 1999

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT: LAKE MING	KERN VALLEY GOLF COURSE	CAL WATER SERVICE	OLCESE WD	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	221	351	2	0	0	0	46	38,543
1	203	232	1	0	0	0	44	38,469
2	192	229	1	1	0	0	47	38,383
3	188	232	2	0	0	0	34	38,303
4	174	242	1	0	0	0	53	38,181
5	179	265	1	1	0	0	38	38,055
6	179	280	1	0	0	0	31	37,922
7	179	281	2	0	0	0	22	37,796
8	177	254	1	1	0	0	35	37,682
9	178	179	1	0	0	0	22	37,658
10	182	164	1	0	0	0	41	37,634
11	193	215	1	0	0	0	26	37,585
12	190	278	1	1	0	0	38	37,457
13	186	327	1	0	2	1	33	37,279
14	185	318	1	0	1	1	32	37,111
15	194	235	1	0	1	2	36	37,030
16	187	159	1	0	2	1	34	37,020
17	178	115	1	1	1	1	36	37,043
18	189	231	1	0	2	1	32	36,965
19	202	239	1	0	2	1	32	36,892
20	215	223	1	0	1	2	34	36,846
21	203	219	1	0	2	1	43	36,783
22	205	207	1	1	1	1	27	36,750
23	198	166	1	0	2	1	24	36,754
24	196	157	1	0	1	2	27	36,762
25	188	197	1	0	2	1	25	36,724
26	186	209	1	1	1	1	32	36,665
27	186	210	1	0	2	1	30	36,607
28	197	204	1	0	2	1	24	36,572
29	210	175	1	0	1	2	22	36,581
30	198	125	1	1	1	1	31	36,619
31	189	120	1	0	2	1	17	36,667
S.F.D.	5,906	6,687	33	8	29	23	1,002	36,667
AC.FT.	11,714	13,263	65	16	58	45	1,987	72,729

TOTAL ACRE-FOOT STORAGE DAYS 2,290,502

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW VIA/FOR KDWD	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	179	0	41	37,186
1	0	165	0	38	36,983
2	0	157	0	41	36,785
3	0	155	0	29	36,601
4	0	164	0	45	36,392
5	0	164	0	33	36,195
6	0	80	0	26	36,089
7	0	80	0	20	35,989
8	0	61	0	30	35,898
9	0	44	0	20	35,834
10	0	39	0	35	35,760
11	0	45	0	23	35,692
12	0	54	0	33	35,605
13	0	66	0	29	35,510
14	0	58	0	27	35,425
15	0	47	0	30	35,348
16	0	18	0	30	35,300
17	0	13	0	30	35,257
18	0	30	0	27	35,200
19	0	32	0	27	35,141
20	0	42	0	29	35,070
21	0	33	0	37	35,000
22	0	31	0	22	34,947
23	0	26	0	21	34,900
24	0	24	0	22	34,854
25	0	40	0	22	34,792
26	0	43	0	27	34,722
27	0	41	0	26	34,655
28	0	42	0	20	34,593
29	0	40	0	18	34,535
30	0	27	0	25	34,483
31	0	13	0	14	34,456
S.F.D.	0	1,874	0	856	34,456
AC.FT.	0	3,717	0	1,698	68,342

TOTAL ACRE-FOOT STORAGE DAYS 2,177,872

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW FOR ID4	FLOW ABOVE 1ST PT. La HACIENDA INC.	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	12	0	4	3,437
1	0	0	62	0	3	3,372
2	0	0	64	0	4	3,304
3	0	0	55	0	2	3,247
4	0	0	54	0	4	3,189
5	0	0	59	0	3	3,127
6	0	0	70	0	2	3,055
7	0	0	56	0	2	2,997
8	0	0	51	0	2	2,944
9	0	0	57	0	2	2,885
10	0	0	58	0	3	2,824
11	0	0	71	0	2	2,751
12	0	0	75	0	2	2,674
13	0	0	58	0	2	2,614
14	0	0	55	0	2	2,557
15	0	0	60	0	2	2,495
16	0	0	48	0	2	2,445
17	0	0	58	0	2	2,385
18	0	0	59	0	2	2,324
19	0	0	54	0	2	2,268
20	0	0	54	0	2	2,212
21	0	0	56	0	2	2,154
22	0	0	62	0	1	2,091
23	0	0	58	0	1	2,032
24	0	0	45	0	1	1,986
25	0	0	59	0	1	1,926
26	0	0	51	0	1	1,874
27	0	0	54	0	1	1,819
28	0	0	51	0	1	1,767
29	0	0	50	0	1	1,716
30	0	0	47	0	1	1,668
31	0	0	50	0	1	1,617
S.F.D.	0	0	1,761	0	59	1,617
AC.FT.	0	0	3,493	0	117	3,207

TOTAL ACRE-FOOT STORAGE DAYS 151,376

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
October	13	2	NKWSD - FLOW ABOVE 1ST POINT: CAL WATER SERVICE, OLCESE WD	Delivered as per terms of the June 30, 1999 "DETACHMENT AND WATER SALE AGREEMENT" by and between the City of Bakersfield, California Water Service Company and Olcese Water District.

TABLE OF ABSORPTION QUANTITIES WITHIN HISTORIC KERN RIVER SERVICE AREA KERN RIVER WATER

1998-1999 WATER YEAR

Quantities in acre-feet

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
+	Kern River Natural Flow	35,008	33,302	33,219	37,722	38,388	38,495	55,843	95,199	68,733	32,852	17,133	12,547	498,441
-	Isabella Reservoir Evaporation	4,296	1,981	1,472	1,384	1,252	1,983	2,430	5,092	6,956	7,761	6,480	5,113	46,200
-	Into Isabella Storage	0	0	0	3,748	0	7,146	23,730	51,789	0	0	0	0	86,413
+	From Isabella Storage	59,572	61,871	73	0	3,823	0	0	0	2,967	54,213	53,855	29,251	265,625
-	Kern River via Kern River/ California Aqueduct Intertie	0	0	0	0	0	0	0	0	0	0	0	0	0
=	Monthly Absorption within Kern River Service Area	90,284	93,192	31,820	32,590	40,959	29,366	29,683	38,318	64,744	79,304	64,508	36,685	631,453
	Accumulative Absorption within Kern River Service Area	90,284	183,476	215,296	247,886	288,845	318,211	347,894	386,212	450,956	530,260	594,768	631,453	

REPORT OF THE KERN RIVER WATERMASTER

NOVEMBER 1999

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED F LOW	FLOW ABOVE 1ST PT.	RIO BRAVO WELLS	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT- RIO BRAVO WELLS	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2561.16	174,462	87,958	32	183	4	0	189	189	87,958	72,740	4	0	0	0	0	
1	2561.15	174,401	87,927	39	180	3	0	191	191	87,927	72,709	4	0	0	0	0	1
2	2561.14	174,340	87,896	46	174	3	0	192	201	87,905	72,687	5	0	0	0	0	2
3	2561.14	174,340	87,896	51	165	3	0	219	208	87,894	72,676	6	0	0	0	0	3
4	2561.14	174,340	87,896	46	166	2	0	214	217	87,897	72,679	5	0	0	0	0	4
5	2561.14	174,340	87,896	44	172	2	0	218	210	87,889	72,671	5	0	0	0	0	5
6	2561.13	174,279	87,866	46	179	3	0	198	202	87,863	72,645	5	0	0	0	0	6
7	2561.12	174,218	87,835	49	168	3	0	189	193	87,836	72,618	6	0	0	0	0	7
8	2561.12	174,218	87,835	42	149	3	0	194	195	87,837	72,619	5	0	0	0	0	8
9	2561.13	174,279	87,866	25	143	2	0	201	199	87,866	72,648	3	0	0	0	0	9
10	2561.14	174,340	87,896	27	142	2	0	201	210	87,905	72,687	3	0	0	0	0	10
11	2561.15	174,401	87,927	32	163	2	0	228	222	87,930	72,712	4	0	0	0	0	11
12	2561.16	174,462	87,958	44	158	3	0	236	219	87,944	72,726	5	0	0	0	0	12
13	2561.16	174,462	87,958	37	154	3	0	194	218	87,968	72,750	4	0	0	0	0	13
14	2561.16	174,462	87,958	66	156	2	0	224	206	87,950	72,732	8	0	0	0	0	14
15	2561.16	174,462	87,958	42	156	2	0	200	209	87,959	72,741	5	0	0	0	0	15
16	2561.16	174,462	87,958	34	168	2	0	204	199	87,954	72,736	4	0	0	0	0	16
17	2561.14	174,340	87,896	39	213	2	0	192	202	87,902	72,684	4	0	0	0	0	17
18	2561.13	174,279	87,866	29	208	3	0	210	196	87,858	72,640	3	0	0	0	0	18
19	2561.10	174,097	87,774	54	221	2	0	185	204	87,785	72,567	6	0	0	0	0	19
20	2561.09	174,036	87,743	3	245	2	2	217	214	87,751	72,533	0	0	0	0	0	20
21	2561.10	174,097	87,774	27	183	3	3	241	227	87,768	72,550	3	0	0	0	0	21
22	2561.11	174,157	87,804	17	177	3	3	224	222	87,796	72,578	2	0	0	0	0	22
23	2561.11	174,157	87,804	27	177	2	6	200	204	87,800	72,582	3	0	0	0	0	23
24	2561.10	174,097	87,774	15	209	2	8	188	194	87,776	72,558	2	0	0	0	0	24
25	2561.09	174,036	87,743	25	205	2	8	193	192	87,744	72,526	3	0	0	0	0	25
26	2561.08	173,975	87,712	22	210	2	8	195	203	87,721	72,503	3	0	0	0	0	26
27	2561.08	173,975	87,712	20	208	2	8	222	215	87,714	72,496	2	0	0	0	0	27
28	2561.08	173,975	87,712	22	211	2	8	227	218	87,705	72,487	3	0	0	0	0	28
29	2561.07	173,914	87,682	34	205	2	7	204	211	87,682	72,464	4	0	0	0	0	29
30	2561.06	173,854	87,651	27	204	2	8	194	194	87,651	72,433	3	0	0	0	17	30
TOTAL SECOND FOOT DAYS				1,031	5,469	71	69	6,195	6,195	87,651	72,433	118	0	0	0	17	
TOTAL ACRE-FEET				2,045	10,848	141	136	12,288	12,288	173,854	143,670	234	0	0	0	35	

By: _____ Date: December 16, 1999

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT: LAKE MING	KERN VALLEY GOLF COURSE	CAL WATER SERVICE	OLCESE WD	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	189	120	1	0	2	1	17	36,667
1	191	114	1	0	1	1	20	36,721
2	201	113	1	0	1	1	24	36,782
3	208	102	1	1	1	0	27	36,858
4	217	107	1	0	1	0	24	36,942
5	210	109	0	0	1	1	23	37,018
6	202	108	1	0	1	1	24	37,085
7	193	91	1	1	1	0	26	37,158
8	195	77	1	0	1	1	22	37,251
9	199	79	1	0	1	0	14	37,355
10	210	81	0	0	1	1	15	37,467
11	222	106	1	0	1	0	18	37,563
12	219	107	1	0	1	1	23	37,649
13	218	109	1	1	1	0	21	37,734
14	206	109	0	0	1	1	36	37,793
15	209	111	1	0	1	0	23	37,866
16	199	119	1	0	1	0	19	37,925
17	202	166	0	0	1	1	22	37,937
18	196	165	1	0	1	1	16	37,949
19	204	176	1	0	1	0	29	37,946
20	214	193	0	0	1	1	2	37,963
21	227	137	1	1	1	0	15	38,035
22	222	134	1	0	1	1	10	38,110
23	204	163	0	0	1	1	15	38,134
24	194	194	1	0	1	0	8	38,124
25	192	191	1	0	1	0	14	38,109
26	203	198	0	0	1	1	12	38,100
27	215	197	1	0	1	0	11	38,105
28	218	202	0	0	1	1	12	38,107
29	211	198	1	0	1	0	19	38,099
30	194	196	0	1	1	0	15	38,080
S.F.D.	6,195	4,152	21	5	30	15	559	38,080
AC.FT.	12,288	8,236	42	10	59	30	1,109	75,531

TOTAL ACRE-FOOT STORAGE DAYS 2,241,252

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW VIA KDWD	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	13	0	14	34,456
1	0	14	0	18	34,424
2	0	12	0	21	34,391
3	0	14	0	23	34,354
4	0	18	0	21	34,315
5	0	18	0	20	34,277
6	0	20	0	21	34,236
7	0	22	0	22	34,192
8	0	27	0	19	34,146
9	0	19	0	11	34,116
10	0	15	0	12	34,089
11	0	14	0	14	34,061
12	0	11	0	20	34,030
13	0	6	0	16	34,008
14	0	3	0	29	33,976
15	0	4	0	19	33,953
16	0	4	0	15	33,934
17	0	6	0	17	33,911
18	0	6	0	13	33,892
19	0	0	0	24	33,868
20	0	0	0	1	33,867
21	0	4	0	12	33,851
22	0	6	0	7	33,838
23	0	8	0	12	33,818
24	0	7	0	7	33,804
25	0	6	0	11	33,787
26	0	4	0	10	33,773
27	0	3	0	9	33,761
28	0	1	0	10	33,750
29	0	0	0	15	33,735
30	0	0	0	12	33,723
S.F.D.	0	272	0	461	33,723
AC.FT.	0	540	0	914	66,889

TOTAL ACRE-FOOT STORAGE DAYS 2,022,901

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW FOR ID4	FLOW ABOVE 1ST PT. La HACIENDA INC.	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	50	0	1	1,617
1	0	0	52	0	1	1,564
2	0	0	49	0	1	1,514
3	0	0	49	0	1	1,464
4	0	0	41	0	1	1,422
5	0	0	45	0	1	1,376
6	0	0	51	0	1	1,324
7	0	0	55	0	1	1,268
8	0	0	45	0	1	1,222
9	0	0	45	0	0	1,177
10	0	0	46	0	0	1,131
11	0	0	43	0	0	1,088
12	0	0	40	0	1	1,047
13	0	0	39	0	0	1,008
14	0	0	44	0	1	963
15	0	0	41	0	0	922
16	0	0	45	0	0	877
17	0	0	41	0	0	836
18	0	0	37	0	0	799
19	0	0	45	0	1	753
20	0	0	50	0	0	703
21	0	0	39	0	0	664
22	0	0	34	0	0	630
23	0	0	0	0	0	630
24	0	0	0	0	0	630
25	0	0	0	0	0	630
26	0	0	0	0	0	630
27	0	0	0	0	0	630
28	0	0	0	0	0	630
29	0	0	0	0	0	630
30	0	0	0	0	0	630
S.F.D.	0	0	976	0	11	630
AC.FT.	0	0	1,936	0	22	1,250

TOTAL ACRE-FOOT STORAGE DAYS 57,108

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
November	20	1	RIO BRAVO WELLS	Reflects discharge of Rio Bravo Ranch wells to Kern River for use by Improvement District No. 4 under terms of HACIENDA WATER DISTRICT/Improvement District No. 4 water exchange agreement dated June 9, 1999. (see Nickel letter dated October 21, 1999 regarding operation of Rio Bravo Ranch wells)
November	30	1	FRIANT-KERN INFLOW	Reflects Friant-Kern Canal inflow to Kern River on behalf of Kern County Water Agency pursuant to Bureau of Reclamation Temporary Water Service Contract No. 9-07-20-W1565.

*3-GAGE PRECIPITATION INDEX **
KERN RIVER BASIN SNOW SENSOR FORECAST MODEL

STATUS as of DECEMBER 1st

Year	3-Gage Index (in.)	% of Normal **
1999	2.53	27%
1998	7.88	84%
1997	12.22	130%
1996	19.22	205%
1995	0.20	2%
1994	12.17	130%
1993	8.86	94%
1992	6.50	69%
1991	10.14	108%
1990	3.86	41%
1989	6.45	69%

* October 1st to date cumulative precipitation totals for Glennville, Pascoe and Isabella Dam (computed beginning 1989)
** Normal as of December 1st = 9.38 inches

REPORT OF THE KERN RIVER WATERMASTER

DECEMBER 1999

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	RIO BRAVO WELLS	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT- RIO BRAVO WELLS	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	MEAN STORAGE IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	SECOND POINT GROUP FLOW AT 2ND POINT FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2561.06	173,854	87,651	27	204	2	8	194	194	87,651	72,433	3	0	0	0	17	
1	2561.03	173,672	87,560	38	242	2	8	183	189	87,566	72,348	4	0	0	0	140	1
2	2561.00	173,491	87,468	33	267	1	7	202	204	87,476	72,258	4	0	0	0	140	2
3	2560.98	173,370	87,407	21	272	2	8	226	211	87,400	72,182	2	0	0	0	140	3
4	2560.95	173,188	87,316	38	263	2	7	205	210	87,314	72,096	4	0	0	0	100	4
5	2560.94	173,127	87,285	19	216	2	8	198	192	87,277	72,059	2	0	0	0	80	5
6	2560.93	173,006	87,224	28	211	1	7	172	188	87,232	72,014	3	0	0	0	80	6
7	2560.90	172,885	87,163	38	223	2	7	195	195	87,171	71,953	4	0	0	0	100	7
8	2560.89	172,825	87,133	12	241	1	7	217	198	87,122	71,904	1	0	0	0	110	8
9	2560.85	172,583	87,011	28	280	2	6	182	213	87,031	71,813	3	0	0	0	0	9
10	2560.83	172,462	86,950	17	289	1	6	240	207	86,937	71,719	2	0	0	0	2	10
11	2560.81	172,341	86,889	19	246	2	6	200	216	86,892	71,674	2	0	0	0	4	11
12	2560.79	172,220	86,828	30	243	2	5	209	223	86,845	71,627	3	0	0	0	4	12
13	2560.78	172,160	86,797	37	256	2	5	259	237	86,792	71,574	4	0	0	0	10	13
14	2560.77	172,100	86,767	17	261	2	6	244	242	86,760	71,542	2	0	0	0	10	14
15	2560.75	171,980	86,707	21	267	1	5	224	226	86,702	71,484	2	0	0	0	8	15
16	2560.74	171,920	86,676	21	224	2	6	210	214	86,675	71,457	2	0	0	0	4	16
17	2560.73	171,860	86,646	16	226	1	6	207	207	86,645	71,427	2	0	0	0	0	17
18	2560.71	171,739	86,585	19	249	2	5	204	223	86,603	71,385	2	0	0	0	0	18
19	2560.70	171,679	86,555	19	273	1	6	257	226	86,542	71,324	2	0	0	0	0	19
20	2560.67	171,498	86,464	16	295	2	6	216	242	86,477	71,259	2	0	0	0	0	20
21	2560.62	171,198	86,312	53	356	1	5	253	238	86,310	71,092	6	0	0	0	0	21
22	2560.57	170,897	86,161	28	374	1	6	246	241	86,154	70,936	3	0	0	0	0	22
23	2560.54	170,717	86,070	19	300	2	5	225	227	86,065	70,847	2	0	0	0	0	23
24	2560.53	170,657	86,040	28	216	1	4	211	208	86,032	70,814	3	0	0	0	0	24
25	2560.52	170,597	86,009	28	192	1	3	187	198	86,012	70,794	3	0	0	0	0	25
26	2560.51	170,537	85,979	19	204	2	0	195	198	85,985	70,767	2	0	0	0	0	26
27	2560.48	170,358	85,889	35	266	1	0	212	208	85,891	70,673	4	0	0	0	0	27
28	2560.45	170,179	85,799	26	280	2	0	218	211	85,794	70,576	3	0	0	0	0	28
29	2560.42	169,999	85,708	14	278	2	0	203	205	85,705	70,487	2	0	0	0	0	29
30	2560.39	169,819	85,617	19	265	1	0	194	197	85,617	70,399	4	0	0	0	0	30
31	2560.31	169,341	85,376	35	394	1	0	189	189	85,376	70,158	4	0	0	0	0	31
TOTAL SECOND FOOT DAYS				791	8,169	48	150	6,583	6,583	85,376	70,158	86	0	0	0	932	
TOTAL ACRE-FEET				1,569	16,203	95	298	13,057	13,057	169,341	139,157	171	0	0	0	1,848	

By: _____ Date: January 14, 2000

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT: LAKE MING	KERN VALLEY GOLF COURSE	CAL WATER SERVICE	OLCESE WD	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	194	196	0	1	1	0	15	38,080
1	189	229	1	0	1	0	21	38,017
2	204	245	0	0	0	1	18	37,957
3	211	263	1	0	1	0	12	37,891
4	210	237	0	1	0	1	21	37,841
5	192	202	1	0	1	0	11	37,818
6	188	204	0	0	0	1	16	37,785
7	195	209	1	0	1	0	21	37,748
8	198	229	0	0	0	1	7	37,709
9	213	241	1	0	1	0	16	37,663
10	207	258	0	0	0	1	9	37,602
11	216	238	1	0	1	0	11	37,567
12	223	238	0	0	1	1	17	37,533
13	237	251	1	1	0	0	21	37,496
14	242	248	0	0	1	1	9	37,479
15	226	226	1	0	0	0	12	37,466
16	214	212	0	0	1	1	12	37,454
17	207	209	1	0	0	0	9	37,442
18	223	226	0	0	1	1	11	37,426
19	226	231	0	0	1	0	11	37,409
20	242	253	1	0	0	1	9	37,387
21	238	312	0	0	1	0	29	37,283
22	241	334	0	0	0	1	15	37,174
23	227	248	1	0	1	0	10	37,141
24	208	212	0	0	0	1	15	37,121
25	198	189	0	0	1	0	15	37,114
26	198	203	1	0	0	1	10	37,097
27	208	228	0	0	1	0	19	37,057
28	211	251	0	1	0	1	14	37,001
29	205	239	1	0	1	0	8	36,957
30	197	230	0	0	1	0	11	36,912
31	189	394	0	0	0	1	19	36,692
S.F.D.	6,583	7,489	13	3	17	15	439	36,692
AC.FT.	13,057	14,854	26	5	34	30	871	72,779

TOTAL ACRE-FOOT STORAGE DAYS 2,301,299

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW VIA KDWD	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	0	12	33,723
1	0	0	0	17	33,706
2	0	0	0	15	33,691
3	0	0	0	9	33,682
4	0	19	0	17	33,646
5	0	6	0	8	33,632
6	0	0	0	12	33,620
7	0	7	0	17	33,596
8	0	5	0	5	33,586
9	0	2	0	12	33,572
10	0	6	0	8	33,558
11	0	2	0	8	33,548
12	0	0	0	13	33,535
13	0	0	0	16	33,519
14	0	0	0	8	33,511
15	0	2	0	9	33,500
16	0	0	0	9	33,491
17	0	0	0	7	33,484
18	0	0	0	8	33,476
19	0	0	0	8	33,468
20	0	1	0	7	33,460
21	0	0	0	24	33,436
22	0	0	0	13	33,423
23	0	2	0	9	33,412
24	0	0	0	13	33,399
25	0	0	0	13	33,386
26	0	1	0	9	33,376
27	0	0	0	16	33,360
28	0	0	0	12	33,348
29	0	2	0	6	33,340
30	0	0	0	8	33,332
31	0	0	0	16	33,311
S.F.D.	0	55	0	352	33,311
AC.FT.	0	109	0	698	66,071

TOTAL ACRE-FOOT STORAGE DAYS 2,059,643

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW FOR ID4	FLOW ABOVE 1ST PT. La HACIENDA INC.	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	0	0	0	630
1	0	0	5	0	0	625
2	0	0	15	0	0	610
3	0	0	1	0	0	609
4	0	0	0	0	0	609
5	0	0	0	0	0	609
6	0	0	0	0	0	609
7	0	0	0	0	0	609
8	0	0	0	0	0	609
9	0	0	31	0	0	578
10	0	0	19	0	0	559
11	0	0	0	0	0	559
12	0	0	0	0	0	559
13	0	0	0	0	0	559
14	0	0	7	0	0	552
15	0	0	34	0	0	518
16	0	0	6	0	0	512
17	0	0	11	0	0	501
18	0	0	18	0	0	483
19	0	0	36	0	0	447
20	0	0	35	0	0	412
21	0	0	39	0	0	373
22	0	0	34	0	0	339
23	0	0	45	0	0	294
24	0	0	0	0	0	294
25	0	0	0	0	0	294
26	0	0	0	0	0	294
27	0	0	38	0	0	256
28	0	0	29	0	0	227
29	0	0	37	0	0	190
30	0	0	35	0	0	155
31	0	0	0	0	0	155
S.F.D.	0	0	475	0	0	155
AC.FT.	0	0	942	0	0	307

TOTAL ACRE-FOOT STORAGE DAYS 27,767

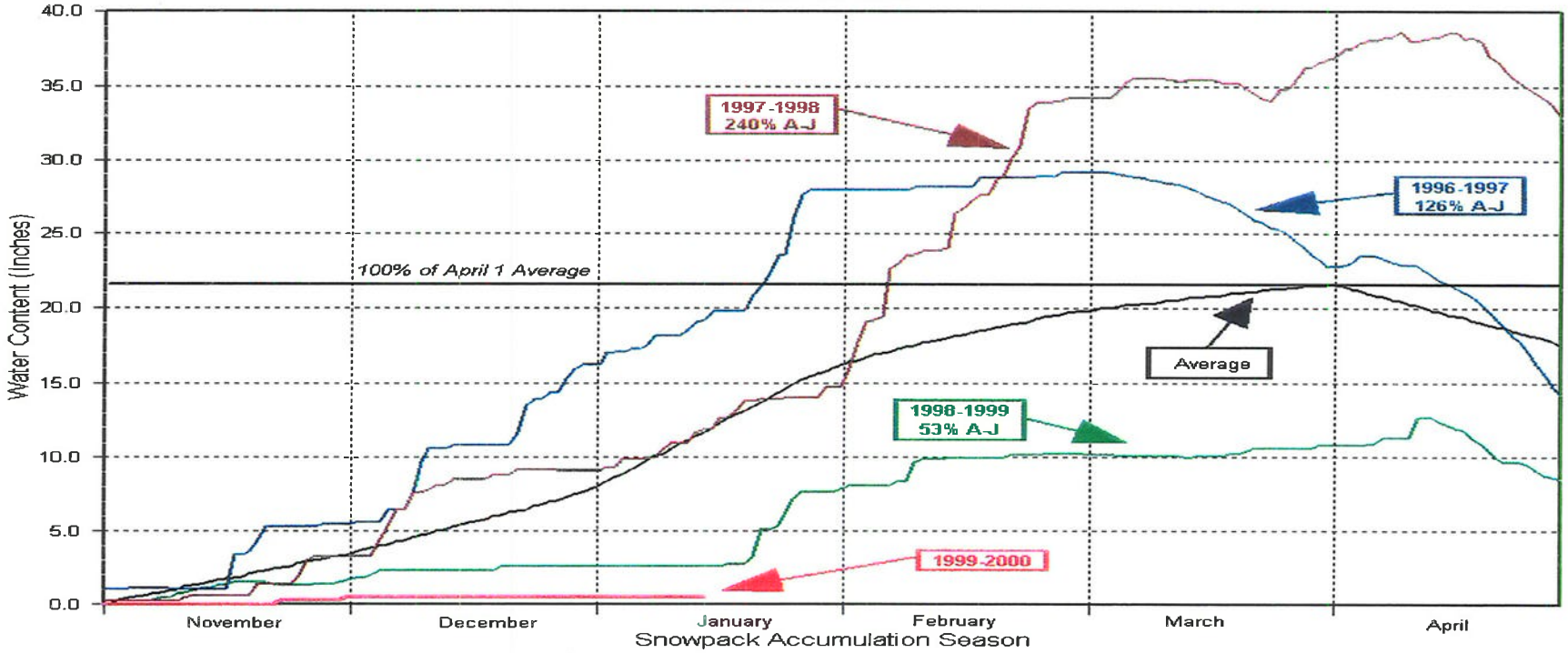
WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
December	1	1	FRIANT-KERN INFLOW	Reflects Friant-Kern Canal inflow to Kern River on behalf of Kern County Water Agency pursuant to Bureau of Reclamation Temporary Water Service Contract No. 9-07-20-W1565.
December	31	2	BVWSD RESERVOIR STORAGE NKWSD RESERVOIR STORAGE	Reflects transfer of 10 acre-feet (5 s.f.d.) from BUENA VISTA WATER STORAGE DISTRICT to NORTH KERN WATER STORAGE DISTRICT on behalf of HACIENDA WATER DISTRICT as compensation for additional evaporation of Kern River water due to Rio Bravo Power Plant operations during calendar year 1999 pursuant to terms of May 14, 1986 Memorandum of Understanding between Olcese WD and the Kern River Interests. (Total of 14 acre-feet of additional evaporation; shared 75% NKWSD & 25% BVWSD)

KERN RIVER BASIN SNOWPACK ACCUMULATION

EIGHT SENSOR INDEX

January 14, 2000



CITY OF BAKERSFIELD WATER RESOURCES DEPARTMENT



"Old" Calloway Headgate

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: January 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	37722
LESS NON-CONTRIBUTING CANALS.....	18446
FOR OTHERS AND FIRST POINT CANALS.....	19276
TO BE CONTRIBUTED BY OTHER CANALS.....	676
TO BE USED BY OTHER CANALS.....	18600
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	0
B.V.W.S.D. ENTITLEMENT.....	0
SEEPAGE LOSS.....	676
KERN RIVER CONDUIT ENTITLEMENT.....	0
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	676

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.																							
300.0	300	KERN ISLAND (1-ST)		4770	18446	12407					6039			133			4637			37	16	2500	16	0	2500
		EASTSIDE		315										315			0								
		KERN RIVER CONDUIT																							
320.0	20	CASTRO			307																0	1723	5	1662	56
		KCC&W Co.			869		54			1230									1534		1960	11525	85	0	13400
330.5	10.5	SOUTH FORK		73	615	542						73						73			0	600		0	600
410.5	80	BUENA VISTA (1-ST)		988	4683	3570					1113						988			115	10	1500	10	0	1500
530.5	120	JAMES (1-ST)			5102		2277		7379																
550.5	20	ANDERSON (1-ST)			500		730		1230																
700.5	150	STINE		930	2926	2700	732				958						930			18	10	1500	10	0	1500
730.5	30	MEACHAM			296		1549		1708	137															
880.5	150	FARMERS		415	1267	1195	353				425						415				10	1500	10	0	1500
920.5	40	PLUNKET			311		2114		1739	686															
960.5	40	JOYCE			311		1696		1116	891															
1000.5	40	JOHNSON			311		1105		724	692															
1130.5	130	PIONEER (1-ST)			740		3289		1243	2786															
1190.5	60	BEARDSLEY (1-ST)		40	179		1291					1470						40			2180	25509	171	32	27486
		LERDO (NKWSD)		6698										275	6423						4463	59062	397	1575	61553
1200.5	10	ANDERSON (2-ND)			20		198		79	139															
1240.5	40	JAMES & DIXON			79		682		253	508															
1250.5	10	WILSON			12		83														8649	105419	704	3269	110095
		KCC&W Co.			8		56			159															
1276.5	26	McCAFFREY			52		307		109	250															
		McCORD	LERDO 30%		4		305		119	190															
1376.5	100		BEARDSLEY 70%		8		710					718													
		CALLOWAY	CENTRAL 20%	1968			577			577				1050			918		369						
2226.5	850		NKWSD 80%	6960			2306		854	1452					6960										
		RAILROAD	KCC&W Co. 20%																						
2426.5	200		NKWSD 80%																						
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD		3295												3295			349						
		TRUXTUN LAKES		103												103									
		LAKE MING														16									
		KERN VALLEY GOLF COURSE														2									
		2800 ACRE SPREADING		650												650									
		CITY FOR ID4																	788	48					
		BERRENDA MESA SPREADING																	34						
		BVWSD VIA CWD											198												
		KERN DELTA WD STATE WATER											1662												
		NKWSD FOR RRID											282												
		OLCESE WD/La HACIENDA, INC.											49	49											
		ARVIN-EDISON TURNOUT		1349													1349								
		ROSEDALE RANCH ID																							
TOTALS			67	28554	37046	20414	20414	0	16553	9697	8535	2261	2191	1822	13383	4984	8319	113	3074	218					
		LOSS		3969	676														3292						
FLOW AT FIRST POINT			67	32523	37722																				

TOTAL CHANGE IN STORAGE = 4676

NOTES:

Kern Island Exch. Less: State Water=	133
Kern Island via Arvin-Edison Turnout=	1349
Eastside Exch. Less: State Water=	315
Lerdo Exch. Less: BVWSD via CWD=	198
Lerdo Exch. Less: NKWSD for RRID=	77
RRBWSD: City to RRBWSD=	3295
River Loss: City to RRBWSD (ID4)=	349
Cally. (Central): City to RRBWSD (ID4)=	304
Truxtun Lake: City to RRBWSD (ID4)=	4
Cally. (Central): City for ID4=	614
River Loss: City for ID4=	836
Truxtun Lake: City for ID4=	99
Cally. Exch. Less: KDWD for ID4=	845
River Loss: KDWD for ID4=	369
2800 Acre Spdg.: City for KCWA (Misc.)=	650
River Loss: City for KCWA (Misc.)=	34
NKWSD/KCC&W Co. Ent'l: Reflects release to City (due to inability to divert natural flow ent'l)=	7731

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: February 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	38388
LESS NON-CONTRIBUTING CANALS.....	16661
FOR OTHERS AND FIRST POINT CANALS.....	21727
TO BE CONTRIBUTED BY OTHER CANALS.....	611
TO BE USED BY OTHER CANALS.....	21116
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	0
B.V.W.S.D. ENTITLEMENT.....	0
SEEPAGE LOSS.....	611
KERN RIVER CONDUIT ENTITLEMENT.....	0
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	611

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS	
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO
		K.C.L. Co. ENT'L @ 2ND PT.																		
300.0	300	KERN ISLAND (1-ST)		4953	16661	4537					12124			228			4725			
		EASTSIDE		579										579			0			
		KERN RIVER CONDUIT																		
320.0	20	CASTRO			278															
		KCC&W Co.			783		30			1091			10633						2635	
330.5	10.5	SOUTH FORK			555	249						306								
410.5	80	BUENA VISTA (1-ST)		1497	4312	790					3522						1497			169
530.5	120	JAMES (1-ST)		599	6470		109		3570	3009						599				
550.5	20	ANDERSON (1-ST)			1061		30		595	496										
700.5	150	STINE		1083	5796	2520					3276			986			97			26
730.5	30	MEACHAM			250		879		885	244										
880.5	150	FARMERS		536	878						878			417			119			
920.5	40	PLUNKET			155		1190		1111	234										
960.5	40	JOYCE			155		1190		1111	234										
1000.5	40	JOHNSON			155		1190		1111	234										
1130.5	130	PIONEER (1-ST)			268		3184		2560	892										
1190.5	60	BEARDSLEY (1-ST)		194			32					32		10633				194		
		LERDO (NKWSD)		11927										179	11121	627				
1200.5	10	ANDERSON (2-ND)					79		39	40										
1240.5	40	JAMES & DIXON					121		18	103										
1250.5	10	WILSON					12													
		KCC&W Co.					8			20										
1276.5	26	McCAFFREY					42		0	42										
		McCORD	LERDO 30%																	
1376.5	100		BEARDSLEY 70%																	
		CALLOWAY	CENTRAL 20%	1931										1084		847			109	
2226.5	850		NKWSD 80%	4563											4563					
		RAILROAD	KCC&W Co. 20%																	
2426.5	200		NKWSD 80%																	
2516.5	90	BUENA VISTA (2-ND)																		
2696.5	180	JAMES (2-ND)																		
2866.5	170	PIONEER (2-ND)																		
3106.5	240	BEARDSLEY (3-RD)																		
3162.5	56	KERN ISLAND (2-ND)																		
		ROSEDALE RBWSD		5653												5653				
		TRUXTUN LAKES		109										10		99				
		LAKE MING														16				
		KERN VALLEY GOLF COURSE														2				
		2800 ACRE SPREADING		2093												2093				
		NORTH PIONEER		684												684				
		BVWSD VIA KDWD											2154							
		BVWSD VIA CWD											143							
		KERN DELTA WD STATE WATER											56							
		NKWSD FOR ID#4											1491						803	
		NKWSD FOR RRID											442							
		OLCESE WD/La HACIENDA, INC.											34	34						
		ARVIN-EDISON TURNOUT		153													153			
		ROSEDALE RANCH ID																		
TOTALS			52	36554	37777	8096	8096	0	11000	6639	19800	338	14953	14150	15684	10620	6591	194	3547	195
		LOSS		4353	611														3742	
FLOW AT FIRST POINT			52	40907	38388															

ISABELLA RESERVOIR				
IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
7246	2500	48	0	9698
0	56	0	56	0
10632	13400	113	6724	17195
306	600		0	906
1856	1500	18	0	3338
3153	1500	24	0	4629
878	1500	12	119	2247
0	27486	103	10795	16588
791	61553	335	7408	54601
24862	110095	653	25102	109202

TOTAL CHANGE IN STORAGE = -893

NOTES:

Kern Island Exch. Less: from BVWSD=	228
Kern Island via Arvin-Edison Turnout=	153
Eastside Exch. Less: State Water=	56
Eastside Exch. Less: from BVWSD=	523
Stine Exch. Less: from BVWSD=	986
Farmers Exch. Less: from BVWSD=	417
Lerdo (NKWSD): City to CWD (Misc.)=	258
RRBWSD: City to RRBWSD=	5538
RRBWSD: City to Bolthouse Farms, Inc=	115
Lerdo Exch. Less: BVWSD via CWD=	143
Lerdo Exch. Less: NKWSD for RRID=	36
Cally. (Central): City for ID4=	847
River Loss: City for ID4=	109
Cally. Exch. Less: NKWSD for ID4=	678
River Loss: NKWSD for ID4=	803
Truxtun Lakes Exch. Less: NKWSD for ID4=	10
James: City for KCWA (Misc.)=	599
North Pioneer: City for KCWA (Misc.)=	684
2800 Acre Spdg.: City for KCWA (Misc.)=	2093
Lerdo (NKWSD): City to NKWSD (Misc.)=	369
KRC&I Exch. Less: Transfer to KCC&W Co. (in excess of carryover storage requirement)=	10633
NKWSD/KCC&W Co. Ent'l: Reflects release to City (due to inability to divert natural flow ent'l)=	5528

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: March 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	38495
LESS NON-CONTRIBUTING CANALS.....	18032
FOR OTHERS AND FIRST POINT CANALS.....	20463
TO BE CONTRIBUTED BY OTHER CANALS.....	20463
TO BE USED BY OTHER CANALS.....	0
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	127
B.V.W.S.D. ENTITLEMENT.....	6377
SEEPAGE LOSS.....	676
KERN RIVER CONDUIT ENTITLEMENT.....	13283
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	20463

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.			127				127																
300.0	300	KERN ISLAND (1-ST)		10689	18032	6543					11489			397			10292				624	9698	93	0	10229
		EASTSIDE		1135										544		18	573								
		KERN RIVER CONDUIT			13283					13283															
320.0	20	CASTRO					303																		
		KCC&W Co.					908			1211			162	1478					309		5457	17195	194	0	22458
330.5	10.5	SOUTH FORK		16			16					16						16			0	906		0	906
410.5	80	BUENA VISTA (1-ST)		1101			768				768			333			768				0	3338	32	0	3306
530.5	120	JAMES (1-ST)					4453		4453																
550.5	20	ANDERSON (1-ST)					95		95																
700.5	150	STINE		394										394							0	4629	43	0	4586
730.5	30	MEACHAM																							
880.5	150	FARMERS		752										752							0	2247	22	0	2225
920.5	40	PLUNKET																							
960.5	40	JOYCE																							
1000.5	40	JOHNSON																							
1130.5	130	PIONEER (1-ST)																							
1190.5	60	BEARDSLEY (1-ST)		1039														1039			0	16588	151	1073	15364
		LERDO (NKWSD)		10473									1478	1098	4392	5111		34			1553	54601	516	0	55638
1200.5	10	ANDERSON (2-ND)																							
1240.5	40	JAMES & DIXON																							
1250.5	10	WILSON																			7634	109202	1051	1073	114712
		KCC&W Co.																							
1276.5	26	McCAFFREY																							
		McCORD	LERDO 30%																						
1376.5	100		BEARDSLEY 70%																						
		CALLOWAY	CENTRAL 20%	1849												1849			383						
2226.5	850		NKWSD 80%	46											46										
		RAILROAD	KCC&W Co. 20%																						
2426.5	200		NKWSD 80%																						
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD																							
		TRUXTUN LAKES																							
		LAKE MING														44									
		KERN VALLEY GOLF COURSE														7									
		BVWSD VIA KDWD											2420												
		BVWSD FOR NKWSD											936												
		OLCESE WD/La HACIENDA, INC.											106	106											
		ROSEDALE RANCH ID																							
TOTALS			157	27494	31442	6543	6543	0	4675	14494	12257	16	5102	5102	4438	7029	11633	1089	692	0					
		LOSS		1370	676														692						
FLOW AT FIRST POINT			157	28864	32118																				

TOTAL CHANGE IN STORAGE = 5510

NOTES:

Kern Island Exch. Less: from BVWSD=	397
Eastside Exch. Less: from BVWSD=	544
Buena Vista Exch. Less: from BVWSD=	333
Stine Exch. Less: from BVWSD=	394
Farmers Exch. Less: from BVWSD=	752
City via Eastside: Misc.=	18
Lerdo (NKWSD): City to CWD (Basic)=	2122
Lerdo (NKWSD): City to NKWSD (B/P)=	2989
Lerdo Exch. Plus: City to NKWSD (B/P)=	1478
Lerdo Exch. Less: BVWSD for NKWSD=	936
KCC&W Exch. Plus: NKWSD to City (B/P)=	162
Cally. (Central): City to K-TWD=	1610
Cally. (Central): City to RGWD=	239
River Loss: City to K-TWD=	331
River Loss: City to RGWD=	52

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: April 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	55843
LESS NON-CONTRIBUTING CANALS.....	17851
FOR OTHERS AND FIRST POINT CANALS.....	37992
TO BE CONTRIBUTED BY OTHER CANALS.....	29544
TO BE USED BY OTHER CANALS.....	8448
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	579
B.V.W.S.D. ENTITLEMENT.....	12085
SEEPAGE LOSS.....	655
KERN RIVER CONDUIT ENTITLEMENT.....	16225
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	29544

DIVERSION RIGHT					GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL			DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.				579				579																
300.0	300	KERN ISLAND (1-ST)			9555	17851	4872					12979		309	296			9568				2223	10229	121	0	12331
		EASTSIDE			1779										542			1188								
		KERN RIVER CONDUIT				16225					16225						49									
320.0	20	CASTRO				60		212																		
		KCC&W Co.				141		672			1085			428	2860					492		7968	22458	293	0	30133
330.5	10.5	SOUTH FORK			64	105	44	64					125						64			61	906		0	967
410.5	80	BUENA VISTA (1-ST)			1225	795	28	505				1272			309			916				412	3306	38	56	3624
530.5	120	JAMES (1-ST)				1196		3576		4772																
550.5	20	ANDERSON (1-ST)				200		171		371																
700.5	150	STINE			428	1489	184					1305						428				877	4586	52	0	5411
730.5	30	MEACHAM				297		69		366																
880.5	150	FARMERS			478	1462	141					1321			6			472				849	2225	28	0	3046
920.5	40	PLUNKET				373				373																
960.5	40	JOYCE				369				369																
1000.5	40	JOHNSON				359				359																
1130.5	130	PIONEER (1-ST)				1002				1002																
1190.5	60	BEARDSLEY (1-ST)			1375	266							266						1375			69	15364	156	1238	14039
		LERDO (NKWSD)			10623									2860	2635	4524	3816		135			5929	55638	627	0	60940
1200.5	10	ANDERSON (2-ND)				32				32																
1240.5	40	JAMES & DIXON				113				113																
1250.5	10	WILSON				16																18388	114712	1315	1294	130491
		KCC&W Co.				10					26															
1276.5	26	McCAFFREY				54				54																
		McCORD	LERDO	30%		34				34																
1376.5	100		BEARDSLEY	70%		75							75													
		CALLOWAY	CENTRAL	20%	2081												2081			428						
2226.5	850		NKWSD	80%																						
		RAILROAD	KCC&W Co.	20%																						
2426.5	200		NKWSD	80%																						
2516.5	90	BUENA VISTA (2-ND)																								
2696.5	180	JAMES (2-ND)																								
2866.5	170	PIONEER (2-ND)																								
3106.5	240	BEARDSLEY (3-RD)																								
3162.5	56	KERN ISLAND (2-ND)																								
		ROSEDALE RBWSD																								
		TRUXTUN LAKES																								
		LAKE MING															60									
		KERN VALLEY GOLF COURSE															10									
		2800 ACRE SPREADING			210										210											
		BVWSD VIA KDWD												844												
		BVWSD FOR NKWSD												1745												
		BVWSD VIA 2800 ACRES												210												
		NKWSD FOR RRID												462												
		OLCESE WD/La HACIENDA, INC.												133	133											
		ROSEDALE RANCH ID																								
TOTALS			203		27818	43103	5269	5269	0	8424	17336	16877	466	6991	6991	4524	6016	12572	1574	920	0					
		LOSS			1573	655														920						
FLOW AT FIRST POINT			203		29391	43758																				

TOTAL CHANGE IN STORAGE = 15779

NOTES:

Kern Island Exch. Less: from BVWSD=	296
Eastside Exch. Less: from BVWSD=	542
Eastside (KCC&W Co.): City Misc.=	49
Buena Vista Exch. Less: from Kern Island=	309
Farmers Exch. Less: from BVWSD=	6
Lerdo (NKWSD)- Other: KRC&I 30% Ent'l=	103
Lerdo (Beardsley): City via Lerdo=	32
Lerdo (NKWSD): City to CWD (Basic)=	3691
Lerdo (NKWSD): City to NKWSD (B/P)=	125
Lerdo Exch. Plus: City to NKWSD (B/P)=	2860
Lerdo Exch. Less: BVWSD for NKWSD=	1745
KCC&W Exch. Plus: NKWSD to City (B/P)=	428
Cally. (Central): City to K-TWD=	1808
Cally. (Central): City to RGWD=	273
River Loss: City to K-TWD=	374
River Loss: City to RGWD=	54

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: May 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	95199
LESS NON-CONTRIBUTING CANALS.....	18446
FOR OTHERS AND FIRST POINT CANALS.....	76753
TO BE CONTRIBUTED BY OTHER CANALS.....	46371
TO BE USED BY OTHER CANALS.....	30382
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	1172
B.V.W.S.D. ENTITLEMENT.....	24424
SEEPAGE LOSS.....	676
KERN RIVER CONDUIT ENTITLEMENT.....	20099
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	46371

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.			1172				1172																
300.0	300	KERN ISLAND (1-ST)		9717	18446	896					17550		2309	768			11258				4334	12331	276	0	16389
		EASTSIDE		2606										585		63	1958								
		KERN RIVER CONDUIT			20099					20099															
320.0	20	CASTRO			111		194																		
		KCC&W Co.			347		565			1217				567					584		11333	30133	695	0	40771
330.5	10.5	SOUTH FORK		153	238	30	114					322						153			171	967		2	1136
410.5	80	BUENA VISTA (1-ST)		548	1851	337	87				1601			159			389				1212	3624	79	0	4757
530.5	120	JAMES (1-ST)			2781		1636		4417																
550.5	20	ANDERSON (1-ST)			458				458																
700.5	150	STINE		371	3467	803					2664			40			331				2333	5411	125	0	7619
730.5	30	MEACHAM			694				694																
880.5	150	FARMERS		820	3467	530					2937			121			699				2238	3046	77	0	5207
920.5	40	PLUNKET			926				926																
960.5	40	JOYCE			920				920																
1000.5	40	JOHNSON			875				875																
1130.5	130	PIONEER (1-ST)			2706				2706																
1190.5	60	BEARDSLEY (1-ST)		1279	1216							1216						1279			740	14039	272	244	14263
		LERDO (NKWSD)		14581									567	4097	4103	6349		806			15614	60940	1303	0	75251
1200.5	10	ANDERSON (2-ND)			198				198																
1240.5	40	JAMES & DIXON			794				794																
1250.5	10	WILSON			97																37975	130491	2827	246	165393
		KCC&W Co.			95					192															
1276.5	26	McCAFFREY			514				514																
		McCORD LERDO 30%			585				585																
1376.5	100	BEARDSLEY 70%			1365							1365													
		CALLOWAY CENTRAL 20%		2983	1335					1335						2983			780						
2226.5	850	NKWSD 80%		52	5342				5342						52										
		RAILROAD KCC&W Co. 20%																							
2426.5	200	NKWSD 80%																							
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD																							
		TRUXTUN LAKES		85												85									
		LAKE MING														77									
		KERN VALLEY GOLF COURSE														22									
		BVWSD VIA KDWD											1514												
		BVWSD FOR NKWSD											774												
		ARVIN-EDISON TURNOUT		2555										2555											
		HACIENDA WD VIA A-EWSD											2555												
		HACIENDA WD (Transportation Loss)																		282					
		NKWSD FOR RRID											1173												
		OLCESE WD/La HACIENDA, INC.											148	148											
		ROSEDALE RANCH ID																							
TOTALS			247	35750	70099	2596	2596	0	19601	22843	24752	2903	9040	9040	4155	9579	14635	2238	1364	282					
		LOSS		2321	676														1646						
FLOW AT FIRST POINT			247	38071	70775																				

TOTAL CHANGE IN STORAGE = 34902

NOTES:

Kern Island Exch. Less: from BVWSD=	768
Eastside Exch. Less: from BVWSD=	585
Eastside (KCC&W Co.): City Misc.=	63
Buena Vista Exch. Less: from Kern Island=	159
Stine Exch. Less: from BVWSD=	40
Farmers Exch. Less: from BVWSD=	121
Lerdo (NKWSD) - Other: KRC&I 30% Ent't=	774
Lerdo (Beardsley) - City via Lerdo=	32
Lerdo (NKWSD): City to CWD (Basic)=	6343
Lerdo (NKWSD): City to NKWSD (B/P)=	6
Lerdo Exch. Plus: City to NKWSD (B/P)=	567
Lerdo Exch. Less: BVWSD for NKWSD=	774
Lerdo Exch. Less: Kern Island via CWD=	2150
Cally. (Central): City to K-TWD=	2595
Cally. (Central): City to RGWD=	388
River Loss: City to K-TWD=	679
River Loss: City to RGWD=	101
Truxtun Lakes: City to K-TWD=	73
Truxtun Lakes: City to RGWD=	12

CITY OF BAKERSFIELD

KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: June 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	68733
LESS NON-CONTRIBUTING CANALS.....	17851
FOR OTHERS AND FIRST POINT CANALS.....	50882
TO BE CONTRIBUTED BY OTHER CANALS.....	35428
TO BE USED BY OTHER CANALS.....	15454
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	777
B.V.W.S.D. ENTITLEMENT.....	16189
SEEPAGE LOSS.....	655
KERN RIVER CONDUIT ENTITLEMENT.....	17807
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	35428

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.			777				777																
300.0	300	KERN ISLAND (1-ST)		14917	17851	140					17711		3223	551			17589				686	16389	361	2714	14000
		EASTSIDE		2807										641		16	2150								
		KERN RIVER CONDUIT			17807					17807															
320.0	20	CASTRO			93		28																		
		KCC&W Co.			244		80			445				6975					1094		6294	40771	917	6581	39567
330.5	10.5	SOUTH FORK		131	179	6	20					193						131			118	1136		56	1198
410.5	80	BUENA VISTA (1-ST)		2055	1333		102				1435		1696	623			3128				0	4757	91	1693	2973
530.5	120	JAMES (1-ST)			1999				1999																
550.5	20	ANDERSON (1-ST)			337				337																
700.5	150	STINE		500	2507	84					2423		1928	16			2412				640	7619	188	629	7442
730.5	30	MEACHAM			502				502																
880.5	150	FARMERS		2434	2459						2459						2434				525	5207	129	500	5103
920.5	40	PLUNKET			635				635																
960.5	40	JOYCE			629				629																
1000.5	40	JOHNSON			585				585																
1130.5	130	PIONEER (1-ST)			1619				1619																
1190.5	60	BEARDSLEY (1-ST)		1224	650							650						1224			81	14263	325	712	13307
		LERDO (NKWSD)		20741									6975	7739	6940	5810		460			9594	75251	1940	1837	81068
1200.5	10	ANDERSON (2-ND)			101				101																
1240.5	40	JAMES & DIXON			383				383																
1250.5	10	WILSON			52																17938	165393	3951	14722	164658
		KCC&W Co.			50					102															
1276.5	26	McCAFFREY			210				210																
		McCORD LERDO 30%			173				173																
1376.5	100	BEARDSLEY 70%			403							403													
		CALLOWAY CENTRAL 20%		3206	63					63						3206			1397						
2226.5	850	NKWSD 80%			248				248																
		RAILROAD KCC&W Co. 20%																							
2426.5	200	NKWSD 80%																							
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD																							
		TRUXTUN LAKES		73												73									
		LAKE MING														105									
		KERN VALLEY GOLF COURSE														28									
		BVWSD VIA KDWD											1831												
		BVWSD FOR NKWSD											208												
		ARVIN-EDISON TURNOUT		8894										8894											
		HACIENDA WD VIA A-EWSD											8894												
		HACIENDA WD (Transportation Loss)																		293					
		NKWSD FOR RRID											684												
		BVWSD FOR OLCESE WD											200	200											
TOTALS			333	56982	51889	230	230	0	8198	18417	24028	1246	25639	25639	6940	9238	27713	1815	2491	293					
		LOSS		3438	655														2784						
FLOW AT FIRST POINT			333	60420	52544																				

TOTAL CHANGE IN STORAGE =	-735

NOTES:

Kern Island Exch. Less: from BVWSD=	551
Eastside Exch. Less: from BVWSD=	641
Eastside (KCC&W Co.): City Misc.=	16
Buena Vista Exch. Less: from BVWSD=	623
Stine Exch. Less: from BVWSD=	16
Lerdo (NKWSD)- Other: KRC&I via NKWSD=	115
Lerdo (NKWSD)- Other: KRC&I 30% Ent'l=	315
Lerdo (Beardsley): City via Lerdo=	30
Lerdo (NKWSD): City to CWD (Basic)=	5810
Lerdo Exch. Plus: City to NKWSD (Basic)=	5000
Lerdo Exch. Plus: City to NKWSD (B/P)=	1975
Lerdo Exch. Less: BVWSD for NKWSD=	208
Lerdo Exch. Less: Kern Island via CWD=	3223
Lerdo Exch. Less: Buena Vista via CWD=	734
Lerdo Exch. Less: Buena Vista via NKWSD=	962
Lerdo Exch. Less: Stine via CWD=	1928
Cally. (Central): City to K-TWD=	2785
Cally. (Central): City to RGWD=	421
River Loss: City to K-TWD=	1215
River Loss: City to RGWD=	182
Truxtun Lakes: City to K-TWD=	67
Truxtun Lakes: City to RGWD=	6

CITY OF BAKERSFIELD

KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: July 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	32852
LESS NON-CONTRIBUTING CANALS.....	18446
FOR OTHERS AND FIRST POINT CANALS.....	14406
TO BE CONTRIBUTED BY OTHER CANALS.....	14336
TO BE USED BY OTHER CANALS.....	70
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	210
B.V.W.S.D. ENTITLEMENT.....	4584
SEEPAGE LOSS.....	676
KERN RIVER CONDUIT ENTITLEMENT.....	8866
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	14336

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS	
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO
		K.C.L. Co. ENT'L @ 2ND PT.			210				210											
300.0	300	KERN ISLAND (1-ST)		19484	18446	383					18063		3866	736			22614			
		EASTSIDE		2567										409		34	2124			
		KERN RIVER CONDUIT			8866					8866										
320.0	20	CASTRO					10													
		KCC&W Co.			2		30			42				5000					1402	
330.5	10.5	SOUTH FORK		133	2		22					24						133		
410.5	80	BUENA VISTA (1-ST)		464	12		159				171		2586	1466			1584			
530.5	120	JAMES (1-ST)			18		162		180											
550.5	20	ANDERSON (1-ST)			2				2											
700.5	150	STINE		1123	26						26		2033	248			2908			
730.5	30	MEACHAM			4				4											
880.5	150	FARMERS		2840	4						4			567			2273			
920.5	40	PLUNKET																		
960.5	40	JOYCE																		
1000.5	40	JOHNSON																		
1130.5	130	PIONEER (1-ST)																		
1190.5	60	BEARDSLEY (1-ST)		1315														1315		
		LERDO (NKWSD)		28151									5000	9556	12678	5810		107		
1200.5	10	ANDERSON (2-ND)																		
1240.5	40	JAMES & DIXON																		
1250.5	10	WILSON																		
		KCC&W Co.																		
1276.5	26	McCAFFREY																		
		McCORD	LERDO 30%																	
1376.5	100		BEARDSLEY 70%																	
		CALLOWAY	CENTRAL 20%	3828												3828			809	
2226.5	850		NKWSD 80%	214											214					
		RAILROAD	KCC&W Co. 20%																	
2426.5	200		NKWSD 80%																	
2516.5	90	BUENA VISTA (2-ND)																		
2696.5	180	JAMES (2-ND)																		
2866.5	170	PIONEER (2-ND)																		
3106.5	240	BEARDSLEY (3-RD)																		
3162.5	56	KERN ISLAND (2-ND)																		
		ROSEDALE RBWSD																		
		TRUXTUN LAKES		14												14				
		LAKE MING														127				
		KERN VALLEY GOLF COURSE														30				
		BVWSD VIA KDWD											3426							
		ARVIN-EDISON TURNOUT		10697										10697						
		HACIENDA WD VIA A-EWSD											10697							
		HACIENDA WD (Transportation Loss)																		339
		NKWSD FOR RRID											1071							
		OLCESE WD/La HACIENDA, INC.											223	223						
		ROSEDALE RANCH ID																		
TOTALS			380	70830	27592	383	383	0	396	8908	18264	24	28902	28902	12892	9843	31503	1555	2211	339
		LOSS		3225	676														2550	
FLOW AT FIRST POINT			380	74055	28268															

ISABELLA RESERVOIR				
IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
18	14000	325	6693	7000
1497	39567	1051	9643	30370
24	1198		133	1089
151	2973	58	1564	1502
0	7442	179	2882	4381
0	5103	109	2269	2725
6204	164658	4375	37687	128800
4514	81068	2290	13081	70211

TOTAL CHANGE IN STORAGE = -35858

NOTES:

Kern Island Exch. Less: from BVWSD=	736
Eastside Exch. Less: from BVWSD=	409
Eastside (KCC&W Co.): City Misc.=	34
Buena Vista Exch. Less: from BVWSD=	1466
Stine Exch. Less: from BVWSD=	248
Farmers Exch. Less: from BVWSD=	567
Lerdo (NKWSD) - Other: KRC&I via NKWSD=	107
Lerdo (NKWSD): City to CWD (Basic)=	5810
Lerdo Exch. Plus: City to NKWSD (Basic)=	5000
Lerdo Exch. Less: Kern Island via CWD=	3735
Lerdo Exch. Less: Kern Island via NKWSD=	131
Lerdo Exch. Less: Buena Vista via CWD=	1390
Lerdo Exch. Less: Buena Vista via NKWSD=	99
Lerdo Exch. Less: BV State via CWD=	718
Lerdo Exch. Less: BV State via NKWSD=	379
Lerdo Exch. Less: Stine via CWD=	2033
Cally. (Central): City to K-TWD=	3326
Cally. (Central): City to RGWD=	502
River Loss: City to K-TWD=	705
River Loss: City to RGWD=	104
Truxtun Lakes: City to K-TWD=	14

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: August 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	17133
LESS NON-CONTRIBUTING CANALS.....	16205
FOR OTHERS AND FIRST POINT CANALS.....	928
TO BE CONTRIBUTED BY OTHER CANALS.....	928
TO BE USED BY OTHER CANALS.....	0
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	4
B.V.W.S.D. ENTITLEMENT.....	127
SEEPAGE LOSS.....	676
KERN RIVER CONDUIT ENTITLEMENT.....	121
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	928

DIVERSION RIGHT					GROSS DIV'R	GROSS ENT'L	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS	
RIVER STAGE	AMT.	NAME OF CANAL					To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO
		K.C.L. Co. ENT'L @ 2ND PT.				4				4											
300.0	300	KERN ISLAND (1-ST)			16528	16205						16205		4377	892			20013			
		EASTSIDE			1975										1121			854			
		KERN RIVER CONDUIT				121					121										
320.0	20	CASTRO																			
		KCC&W Co.													10000					1140	
330.5	10.5	SOUTH FORK			107														107		
410.5	80	BUENA VISTA (1-ST)			804									2147	1819			1132			
530.5	120	JAMES (1-ST)																			
550.5	20	ANDERSON (1-ST)																			
700.5	150	STINE			3741													3741			
730.5	30	MEACHAM																			
880.5	150	FARMERS			2064										448			1616			
920.5	40	PLUNKET																			
960.5	40	JOYCE																			
1000.5	40	JOHNSON																			
1130.5	130	PIONEER (1-ST)																			
1190.5	60	BEARDSLEY (1-ST)			1117														1117		
		LERDO (NKWSD)			19507									10000	7151	6947	5276		133		
1200.5	10	ANDERSON (2-ND)																			
1240.5	40	JAMES & DIXON																			
1250.5	10	WILSON																			
		KCC&W Co.																			
1276.5	26	McCAFFREY																			
		McCORD	LERDO	30%																	
1376.5	100		BEARDSLEY	70%																	
		CALLOWAY	CENTRAL	20%	3544												3544			1704	
2226.5	850		NKWSD	80%	38											38					
		RAILROAD	KCC&W Co.	20%																	
2426.5	200		NKWSD	80%																	
2516.5	90	BUENA VISTA (2-ND)																			
2696.5	180	JAMES (2-ND)																			
2866.5	170	PIONEER (2-ND)																			
3106.5	240	BEARDSLEY (3-RD)																			
3162.5	56	KERN ISLAND (2-ND)																			
		ROSEDALE RBWSD																			
		TRUXTUN LAKES			75												75				
		LAKE MING															121				
		KERN VALLEY GOLF COURSE															29				
		BVWSD VIA KDWD												4280							
		ARVIN-EDISON TURNOUT			7854										7854						
		HACIENDA WD VIA A-EWSD												7854							
		HACIENDA WD (Transportation Loss)																			234
		NKWSD FOR RRID												627							
		OLCESE WD/La HACIENDA, INC.												191	191						
		ROSEDALE RANCH ID																			
TOTALS				341	57354	16330	0	0	0	4	121	16205	0	29476	29476	6985	9045	27356	1357	2844	234
		LOSS			3754	676														3078	
FLOW AT FIRST POINT				341	61108	17006															

ISABELLA RESERVOIR

IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
171	7000	123	4833	2215
0	30370	505	21768	8097
0	1089		107	982
0	1502	38	1132	332
0	4381	79	3741	561
0	2725	65	1616	1044
0	11522	337	1250	9935
9647	70211	2373	7255	70230
9818	128800	3520	41702	93396

TOTAL CHANGE IN STORAGE = -35404

NOTES:

Kern Island Exch. Less: from BVWSD=	892
Eastside Exch. Less: from BVWSD=	1121
Buena Vista Exch. Less: from BVWSD=	1819
Farmers Exch. Less: from BVWSD=	448
Lerdo (NKWSD) - Other: KRC&I via NKWSD=	133
Lerdo (NKWSD): City to CWD (Basic)=	5276
Lerdo Exch. Plus: City to NKWSD (Basic)=	10000
Lerdo Exch. Less: Kern Island via CWD=	4377
Lerdo Exch. Less: Buena Vista via CWD=	664
Lerdo Exch. Less: BVista State via CWD=	1483
Cally. (Central): City to K-TWD=	3080
Cally. (Central): City to RGWD=	464
River Loss: City to K-TWD=	1483
River Loss: City to RGWD=	221
Truxtun Lakes: City to K-TWD=	67
Truxtun Lakes: City to RGWD=	8

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: September 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	12547
LESS NON-CONTRIBUTING CANALS.....	11892
FOR OTHERS AND FIRST POINT CANALS.....	655
TO BE CONTRIBUTED BY OTHER CANALS.....	655
TO BE USED BY OTHER CANALS.....	0
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	0
B.V.W.S.D. ENTITLEMENT.....	0
SEEPAGE LOSS.....	655
KERN RIVER CONDUIT ENTITLEMENT.....	0
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	655

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.																							
300.0	300	KERN ISLAND (1-ST)		10153	11892	1789					10103			432			9721			24	775	2215	73	417	2500
		EASTSIDE		1628										1628			0								
		KERN RIVER CONDUIT																							
320.0	20	CASTRO					129																		
		KCC&W Co.					387			516									(1)		0	8097	219	3610	4268
330.5	10.5	SOUTH FORK		109			271					271						109			210	982		48	1144
410.5	80	BUENA VISTA (1-ST)		919			1002				1002			284			635			145	603	332	10	306	619
530.5	120	JAMES (1-ST)																							
550.5	20	ANDERSON (1-ST)																							
700.5	150	STINE		1970										1435			535			77	0	561	8	553	0
730.5	30	MEACHAM																							
880.5	150	FARMERS		1002										423			579				0	1044	28	579	437
920.5	40	PLUNKET																							
960.5	40	JOYCE																							
1000.5	40	JOHNSON																							
1130.5	130	PIONEER (1-ST)																							
1190.5	60	BEARDSLEY (1-ST)		1043														1043			0	9935	290	1043	8602
		LERDO (NKWSD)		10162										1434	8728						0	70230	1998	9353	58879
1200.5	10	ANDERSON (2-ND)																							
1240.5	40	JAMES & DIXON																							
1250.5	10	WILSON																							
		KCC&W Co.																							
1276.5	26	McCAFFREY																							
		McCORD	LERDO 30%																						
1376.5	100		BEARDSLEY 70%																						
		CALLOWAY	CENTRAL 20%	3029										21		3008			989						
2226.5	850		NKWSD 80%																						
		RAILROAD	KCC&W Co. 20%																						
2426.5	200		NKWSD 80%																						
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD																							
		TRUXTUN LAKES		14													14								
		LAKE MING															91								
		KERN VALLEY GOLF COURSE															25								
		BVWSD VIA/FOR KDWD											8818												
		BVWSD VIA CWD											809												
		ARVIN-EDISON TURNOUT		4040										4040						442					
		HACIENDA WD FOR ID4											25						4						
		NKWSD FOR RRID											625												
		OLCESE WD/La HACIENDA, INC.											164	164											
		ROSEDALE RANCH ID																							
TOTALS			280	34069	11892	1789	1789	0	0	516	11105	271	10441	9861	8728	3138	11470	1152	992	688	1588	93396	2626	15909	76449
		LOSS		2336	655														1680						
FLOW AT FIRST POINT			280	36405	12547																				

TOTAL CHANGE IN STORAGE = -16947

NOTES:

Kern Island Exch. Less: from BVWSD=	432
Eastside Exch. Less: from BVWSD=	1628
Buena Vista Exch. Less: from BVWSD=	284
Stine Exch. Less: from BVWSD=	1435
Farmers Exch. Less: from BVWSD=	423
Buena Vista River Loss: from BVWSD=	75
Stine River Loss: from BVWSD=	59
A-E T.O. - River Loss: KDWD from BVWSD=	442
A-Edison Turnout: KDWD from BVWSD=	4040
Lerdo Exch. Less: BVWSD via CWD=	809
Cally. (Exch. Less): HWD for ID4=	21
River Loss: HWD for ID4=	4
Cally. (Central): City to K-TWD=	2616
Cally. (Central): City to RGWD=	392
River Loss: City to K-TWD=	860
River Loss: City to RGWD=	129
Truxtun Lakes: City to K-TWD=	12
Truxtun Lakes: City to RGWD=	2

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: October 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	11714
LESS NON-CONTRIBUTING CANALS.....	11038
FOR OTHERS AND FIRST POINT CANALS.....	676
TO BE CONTRIBUTED BY OTHER CANALS.....	676
TO BE USED BY OTHER CANALS.....	0
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	0
B.V.W.S.D. ENTITLEMENT.....	0
SEEPAGE LOSS.....	676
KERN RIVER CONDUIT ENTITLEMENT.....	0
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	676

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.																							
300.0	300	KERN ISLAND (1-ST)		6292	11038	4972					6066			293			5999				67	2500	67	0	2500
		EASTSIDE		1353										1353			0								
		KERN RIVER CONDUIT																							
320.0	20	CASTRO					327																		
		KCC&W Co.					903			1230											1046	4268	163	0	5151
330.5	10.5	SOUTH FORK		58			645					645						58			587	1144		0	1731
410.5	80	BUENA VISTA (1-ST)		313			1293				1293						313			65	915	619	34	0	1500
530.5	120	JAMES (1-ST)					1804		1804																
550.5	20	ANDERSON (1-ST)																							
700.5	150	STINE		960										960			0			46	0	0	0	0	0
730.5	30	MEACHAM																							
880.5	150	FARMERS		422													422				0	437	5	422	10
920.5	40	PLUNKET																							
960.5	40	JOYCE																							
1000.5	40	JOHNSON																							
1130.5	130	PIONEER (1-ST)																							
1190.5	60	BEARDSLEY (1-ST)		1061														1061			0	8602	211	1101	7290
		LERDO (NKWSD)		4669										351	4278			40			353	58879	1507	3178	54547
1200.5	10	ANDERSON (2-ND)																							
1240.5	40	JAMES & DIXON																							
1250.5	10	WILSON																			2968	76449	1987	4701	72729
		KCC&W Co.																							
1276.5	26	McCAFFREY																							
		McCORD LERDO 30%																							
1376.5	100	BEARDSLEY 70%																							
		CALLOWAY CENTRAL 20%		2872										2872					621						
2226.5	850	NKWSD 80%																							
		RAILROAD KCC&W Co. 20%																							
2426.5	200	NKWSD 80%																							
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD																							
		TRUXTUN LAKES																							
		LAKE MING														65									
		KERN VALLEY GOLF COURSE														16									
		CALIFORNIA WATER SERVICE CO.														58									
		OLCESE WD														45									
		BVWSD VIA/FOR KDWD											3717												
		HACIENDA WD FOR ID4											3493												
		ARVIN-EDISON TURNOUT		960										960						105					
		NKWSD FOR RRID											351												
		ROSEDALE RANCH ID																							
TOTALS			184	18960	11038	4972	4972	0	1804	1230	7359	645	7561	6789	4278	184	6734	1159	621	216					
		LOSS		1513	676														837						
FLOW AT FIRST POINT			184	20473	11714																				

TOTAL CHANGE IN STORAGE = -3720

NOTES:

Kern Island Exch. Less: from BVWSD=	293
Eastside Exch. Less: from BVWSD=	1353
Stine Exch. Less: from BVWSD=	960
Stine River Loss: from BVWSD=	46
Lerdo (NKWSD) - Other: KRC&I via NKWSD=	40
Cally. Exch. Less: HWD for ID4=	2872
River Loss: HWD for ID4=	621
A-Edison Turnout: KDWD from BVWSD=	960
A-E T.O. - River Loss: KDWD from BVWSD=	105

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: November 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	12288
LESS NON-CONTRIBUTING CANALS.....	11633
FOR OTHERS AND FIRST POINT CANALS.....	655
TO BE CONTRIBUTED BY OTHER CANALS.....	655
TO BE USED BY OTHER CANALS.....	0
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	0
B.V.W.S.D. ENTITLEMENT.....	0
SEEPAGE LOSS.....	655
KERN RIVER CONDUIT ENTITLEMENT.....	0
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	655

DIVERSION RIGHT			GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL	DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.																						
300.0	300	KERN ISLAND (1-ST)	4209	11633	7456					4177			70			4139				38	2500	38	0	2500
		EASTSIDE	470										470			0								
		KERN RIVER CONDUIT																						
320.0	20	CASTRO				297																		
		KCC&W Co.				893			1190			1628								2417	5151	111	0	7457
330.5	10.5	SOUTH FORK	52			549					549		1628				52			450	1731		1581	600
410.5	80	BUENA VISTA (1-ST)	480			1170				1170						480		644	24	22	1500	22	0	1500
530.5	120	JAMES (1-ST)				4547		4547																
550.5	20	ANDERSON (1-ST)																						
700.5	150	STINE														0				0	0	0	0	0
730.5	30	MEACHAM																						
880.5	150	FARMERS														0				0	10	0	0	10
920.5	40	PLUNKET																						
960.5	40	JOYCE																						
1000.5	40	JOHNSON																						
1130.5	130	PIONEER (1-ST)																						
1190.5	60	BEARDSLEY (1-ST)	432														432			0	7290	105	432	6753
		LERDO (NKWSD)	1287										202	825	260			536		2997	54547	833	0	56711
1200.5	10	ANDERSON (2-ND)																						
1240.5	40	JAMES & DIXON																						
1250.5	10	WILSON																		5924	72729	1109	2013	75531
		KCC&W Co.																						
1276.5	26	McCAFFREY																						
		McCORD LERDO 30%																						
1376.5	100	BEARDSLEY 70%																						
		CALLOWAY CENTRAL 20%	2047										2047					536						
2226.5	850	NKWSD 80%																						
		RAILROAD KCC&W Co. 20%																						
2426.5	200	NKWSD 80%																						
2516.5	90	BUENA VISTA (2-ND)																						
2696.5	180	JAMES (2-ND)																						
2866.5	170	PIONEER (2-ND)																						
3106.5	240	BEARDSLEY (3-RD)																						
3162.5	56	KERN ISLAND (2-ND)																						
		ROSEDALE RBWSD																						
		TRUXTUN LAKES	6										6						6					
		LAKE MING													42									
		KERN VALLEY GOLF COURSE													10									
		CALIFORNIA WATER SERVICE CO.													59									
		OLCESE WD													30									
		BVWSD VIA KDWD										540												
		HACIENDA WD FOR ID4										1936												
		NKWSD FOR CAWELO WD										188												
		NKWSD FOR RRID										14												
		NKWSD FOR ID4										523												
		RIO BRAVO WELL TO ID4										136												
TOTALS		141	8983	11633	7456	7456	0	4547	1190	5347	549	4965	4423	825	401	4619	484	1180	30					
		LOSS	1865	655														1210						
FLOW AT FIRST POINT		141	10848	12288																				

TOTAL CHANGE IN STORAGE = 2802

NOTES:

Kern Island Exch. Less: from BVWSD=	70
Eastside Exch. Less: from BVWSD=	470
Lerdo (NKWSD): City to CWD (Misc.)=	260
Lerdo Exch. Less: NKWSD for CWD=	188
Cally. Exch. Less: HWD for ID4=	1553
River Loss: HWD for ID4=	383
Cally. Exch. Less: NKWSD for ID4=	358
River Loss: NKWSD for ID4=	159
Truxtun Lakes: NKWSD for ID4=	6
South Fork transfer to City: In excess of carryover storage requirement=	1628

CITY OF BAKERSFIELD

KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: December 1999 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	13057
LESS NON-CONTRIBUTING CANALS.....	12381
FOR OTHERS AND FIRST POINT CANALS.....	676
TO BE CONTRIBUTED BY OTHER CANALS.....	676
TO BE USED BY OTHER CANALS.....	0
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	0
B.V.W.S.D. ENTITLEMENT.....	0
SEEPAGE LOSS.....	676
KERN RIVER CONDUIT ENTITLEMENT.....	0
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	676

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.																							
300.0	300	KERN ISLAND (1-ST)		5331	12381	7129					5252			109			5222				30	2500	30	0	2500
		EASTSIDE															0								
		KERN RIVER CONDUIT																							
320.0	20	CASTRO					308																		
		KCC&W Co.					922			1230			6						(1)		42	7457	89	789	6621
330.5	10.5	SOUTH FORK										0									0	600		0	600
410.5	80	BUENA VISTA (1-ST)		843			1599				1599						843		10	728	18	1500	18	0	1500
530.5	120	JAMES (1-ST)					4290		4290																
550.5	20	ANDERSON (1-ST)					10		10																
700.5	150	STINE															0				0	0	0	0	0
730.5	30	MEACHAM																							
880.5	150	FARMERS		10													10				0	10	0	10	0
920.5	40	PLUNKET																							
960.5	40	JOYCE																							
1000.5	40	JOHNSON																							
1130.5	130	PIONEER (1-ST)																							
1190.5	60	BEARDSLEY (1-ST)		449														449			0	6753	75	488	6190
		LERDO (NKWSD)		5182									4	404	2850	1889		39			0	56711	659	684	55368
1200.5	10	ANDERSON (2-ND)																							
1240.5	40	JAMES & DIXON																							
1250.5	10	WILSON																			90	75531	871	1971	72779
		KCC&W Co.																							
1276.5	26	McCAFFREY																							
		McCORD LERDO 30%																							
1376.5	100	BEARDSLEY 70%																							
		CALLOWAY CENTRAL 20%		1897										1897					540	89					
2226.5	850	NKWSD 80%																							
		RAILROAD KCC&W Co. 20%																							
2426.5	200	NKWSD 80%																							
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD																							
		TRUXTUN LAKES		240										240											
		LAKE MING														26									
		KERN VALLEY GOLF COURSE														5									
		CALIFORNIA WATER SERVICE CO.														34									
		OLCESE WD														30									
		BVWSD TRANSFER TO 1ST PT. GRP.												10											
		BVWSD VIA KDWD											109												
		HACIENDA WD FOR ID4											942						188	20					
		NKWSD FOR CAWELO WD											404												
		NKWSD FOR ID4											1734												
		RIO BRAVO WELL TO ID4											298												
		ROSEDALE RANCH ID																							
TOTALS			95	13952	12381	7129	7129	0	4300	1230	6851	0	3497	2660	2850	1984	6075	488	737	837					
		LOSS		2251	676														1574						
FLOW AT FIRST POINT			95	16203	13057																				

TOTAL CHANGE IN STORAGE = -2752

NOTES:

Kern Island Exch. Less: from BVWSD= 109

Lerdo (NKWSD): City for CWD (Misc.)= 1889

Lerdo Exch. Less: NKWSD for CWD= 404

Cally. Exch. Less: HWD for ID4= 637

River Loss: HWD for ID4= 208

Truxtun Lakes: HWD for ID4= 97

Cally. Exch. Less: NKWSD for ID4= 962

River Loss: NKWSD for ID4= 629

Truxtun Lakes: NKWSD for ID4= 143

BVWSD Transfer to 1st Pt. Grp.: NKWSD (4); City (6)

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

JANUARY

Units in acre-feet

Year	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
1954	318	318	318	318	318	319	319	319	319	318	318	319	318	318	318	317	318	319	328	322	318	317	317	425	564	371	359	354	353	348	347
1955	9659	9705	9751	9782	9828	9866	9897	9935	9981	10062	10103	10152	10160	10160	10177	10226	10209	10234	10209	10177	10177	10177	10168	10168	10168	10168	10168	10168	10168	10168	10177
1956	79823	80916	81717	82627	83262	83714	84353	84842	85218	85556	85932	86308	86729	87000	87350	87932	88358	88707	88978	89211	89521	89793	90181	90775	97873	103902	111558	114739	117165	118398	119727
1957	130263	130263	130213	130213	130162	130162	130162	130112	130062	130062	130062	130413	130413	130413	130363	130313	130313	130263	130263	130413	130413	130363	130313	130313	130413	130363	130263	130263	130213	130213	130263
1958	101413	101413	101370	101328	101328	101328	101328	101328	101286	101286	101244	101244	101201	101201	101159	101159	101117	101117	101074	101032	100990	100947	100947	101540	102302	103293	103728	103815	103815	103771	103711
1959	198047	197981	197916	197786	197786	198177	198112	198112	198112	198112	198112	198047	197916	197851	197786	197786	197721	197655	197655	197655	197590	197590	197525	197525	197460	197460	197395	197395	197199	197004	196874
1960	71575	71542	71509	71509	71542	71509	71509	71542	71542	71608	71805	71805	71838	71970	72036	72036	72036	72036	72036	72003	72036	72036	72003	72036	72036	72069	72069	72036	72036	72036	72003
1961	29101	29101	29082	29082	29082	29064	29064	29064	29045	29045	29027	29027	29010	29010	28992	28992	28974	28957	28957	28939	28921	28921	28903	28886	28886	28921	28939	28939	28921	28921	28903
1962	17524	17524	17511	17511	17498	17498	17486	17486	17486	17473	17448	17498	17498	17498	17486	17473	17473	17473	17524	17789	17827	17802	17751	17726	17688	17663	17650	17650	17650	17650	17650
1963	82849	82849	82811	82811	82744	82736	82736	82700	82663	82590	82590	82554	82518	82481	82445	82408	82408	82372	82336	82336	82299	82299	82299	82299	82263	82263	82226	82190	82263	82886	97873
1964	169983	169983	169922	169862	169801	169741	169621	169561	169502	169384	169384	169324	169206	169087	168909	168671	168552	168552	168552	168552	168849	169028	169028	169028	169028	168968	168909	168849	168849	168790	168671
1965	118683	118920	119490	120011	120628	121352	122427	122964	123403	123647	123842	124037	124135	124135	124232	124330	124428	124575	124770	124965	125161	125307	125502	126598	127201	127602	127853	128104	128305	128456	128606
1966	171193	171073	170891	170709	170588	170467	170346	170164	170043	169962	169962	169962	169962	169962	169922	169922	169922	169922	169862	169862	169862	169801	169740	169740	169740	169680	169680	169680	169621	169680	169621
1967	309662	306252	302286	297531	293058	288301	283427	278678	274286	270475	266925	263707	260283	257110	253885	250831	247799	244640	241578	238680	236521	235445	234229	233515	232447	231027	229753	228483	227780	228132	229612
1968	199871	199806	199806	199740	199740	199740	199675	199675	199675	199937	200265	200134	200199	200199	200199	200330	200330	200265	200265	200265	200265	200265	200330	200330	200265	200199	200265	200199	200134	200068	200134
1969	124431	124381	124381	124381	124431	124431	124381	124431	124381	124332	124283	124283	124578	124824	125120	125120	125070	125465	131851	137772	146487	152658	155603	165291	208151	230248	239620	244903	248167	250386	251946
1970	225326	225256	225046	224767	224697	224627	224697	224767	225256	225955	226516	226796	226796	227007	227850	238103	243033	243982	245153	246106	246621	247062	247257	247799	248389	248463	248610	249054	248980	248832	248832
1971	172219	172582	172703	172703	172703	172763	172884	173127	173309	173430	173612	173916	174220	174524	174707	175011	175377	176050	176907	177890	178876	179432	179494	179494	179432	179309	179247	179185	179062	179062	179123
1972	122089	122089	122089	122040	121992	121992	122089	122089	122040	121992	121992	121992	121992	122040	122040	122040	122040	121992	121992	121943	121943	121943	121895	121847	121847	121798	121750	121702	121702	121702	121605
1973	55645	55617	55645	55674	55617	55533	55449	55702	56409	56693	56922	57122	57380	57610	57812	58830	60930	62743	64529	65247	65907	66476	66889	67016	67080	67399	67463	67527	67431	67367	67431
1974	206281	206347	206414	206347	206414	206747	207148	207281	207415	207549	207616	208151	208955	209425	209761	210434	212545	214428	215860	217022	218257	218807	219220	219633	219633	219978	219978	220047	220116	220116	219978
1975	223930	224000	223930	223930	224000	224139	224278	224627	224837	224837	225116	225116	225116	225046	224906	224906	224906	224906	224906	224906	224906	224906	224767	224767	224488	224488	224418	224348	224139	223721	223303
1976	170131	170131	170190	170131	170190	170309	170368	170487	170546	170784	170724	170843	170962	171021	171140	171140	171259	171438	171557	171498	171498	171557	171498	171557	171557	171617	171617	171319	170724	170427	170309
1977	67668	67897	67930	67930	67930	67864	67668	67636	67570	67505	67440	67375	67343	67278	67245	67180	67148	67115	67050	67018	67050	67018	67018	66953	66953	66888	66856	66824	66759	66727	66598
1978	44060	44228	44543	44858	45029	45520	45989	46238	46612	47317	47800	48081	48389	49062	51900	54573	57458	58985	60480	61604	62248	62680	63083	63332	63456	63581	63738	63769	63832	63894	63926
1979	244755	244458	244606	244904	245203	245128	245203	245203	245352	245054	245652	246251	246624	246924	247599	247675	247750	247675	247599	247449	247299	246999	246849	246474	246251	246101	245502	245652	245427	245427	245278
1980	208970	208970	208700	208496	208360	208292	208224	208292	208632	209719	211015	227232	250310	274831	283991	288715	291750	294307	295879	296959	297542	297956	298039	298123	297956	297625	297375	297542	298039	297873	297292
1981	229741	229669	229669	229741	229741	229741	229669	229597	229669	229669	229597	229669	229741	229741	229669	229813	229813	229813	229741	229741	229669	229669	229669	229526	229382	229166	229166	229669	231109	231162	231543
1982	168984	169461	169520	169819	171619	172160	172100	171920	171920	171920	172100	172160	172220	172220	172220	172220	172100	172039	172220	172825	172825	172885	172946	173067	173370	173611	173914	174097	174401	174522	174644
1983	261325	261170	260938	260628	260396	260319	260242	260087	260010	260164	260551	261015	261558	262099	262332	262177	262254	262177	262177	262177	261944	264120	268344	272210	275707	277705	281402	284397	287000	289125	290764
1984	312967	313823	314423	315536	316654	317340	317771	318375	318807	318720	319755	320015	319842	320101	319842	319755	320015	319842	319582	319409	319064	318977	318289	317254	315708	314251	311261	309475	307017	304991	302636
1985	244979	244829	244680	244383	244085	243787	244085	244458	244531	244458	244531	244309	243936	243787	243564	243117	242671	242302	241931	242153	242671	243117	243489	243862	244085	243862	243862	243787	243787	243862	244085
1986	195579	195645	195841	196627	198664	199918	200513	200579	200712	200845	201044	201244	201377	201576	201643	201709	201843	201976	201976	202174	202241	202374	202308	202308	202374	202374	202374	202374	202574	204246	205724
1987	244011	243936	244011	244531	244680	245278	245427	245427	245352	245352	245352	245352	245427	245352	245427	245352	245203	245278	245502	245502	245502	245427	245502	245427	245352	245278	245054	244904	244755	244680	244606
1988	143030	143303	143464	143731	144538	145023	144969	145077	144969	144862	144808	144700	144754	144700	144592	144700	144862	144969	144969	145023	145023	144915	144969	144915	144915	144862	144862	144808	144700	144538	144431
1989	73477	73444	73342	73275	73241	73342	73275	73208	73208	73208	73208	73174	72973	72939	72906	72839	72839	72872	72939	72939	72973	72906	72872	72872	72772	72705	72705	72671	72504	72303	72004
1990	85902	85978	85940	85940	85902	85940	85940	86015	86015	85978	85978	85978	86129	86167	86015	86015	85940	85940	85940	85902	85902	85940	86015	86091	86015	85940	85789	85638	85488	85376	85263
1991	45990	45966	46086	46279	46351	46279	46158	46110	46086	46062	46014	46014	45966	45990	45966	45942	45919	45942	45942	45990	45990	45990	45966	45990	45990	45966	45968	45942	45919	45895	45871
1992	89615	89499	89421	89421	89538	89538	89771	89693	89576	89499	89383	89383	89267	89189	89228	89228	89305	89305	89305	89228	89150	89112	89073	89034	88957	88918	88918	88918	88918	88918	88879
1993	82226	82226	82262	82226	82153	82189	84217	87764	88957	89460	89810	90122	90512	91219	91889	92404	92962	93962	94566	94849	95416	95945	96517	96927	97256	97503	97750	97957	98164	98289	98413
1994	242450	242450	242376	242228	242153	242079	242079	242005	242005	242005	242005	241931	242931	242931	241857	241783	241783	241708	241708	241634	241634	241560	241634	241560	241486	241338	241264	241190	241116	240968	240600
1995	115538	115538	115492	116281	116421	116468	116795	117075	117496	119288	121865	124041	125750	127229	129770	131432	132446	133108	133721	134131	134747	135211	135829	136555	137386	138430	139323	140113	140801	141436	142075
1996	246474	246474	246399	246326	246326	246326	246326	246251	246176	246101	246026	245951	245876	245801	245652	246774	249481	250009	251522	252127	252507	252811	252735	252963	253572	254027	254409	255096	255555	255860	256396
1997	253267	265992	301715	317599	327408	334267	339774	344518	348663	352286	355475	358861	361985	364569	367906	370602	373123	375559	377814	380549	383104	386429	392159	396487	404136	414614	421737	427018	430625	432936	434546
1998	242671	242820	243043	243266	243266	243117	243043	243043	243415	243787	244011	244383	244829	244755	245203	246924	247299	246474	245876	244829	244309	244011	243862	243638	243489	243340	243043	242599	242450	242228	242005
1999	244829	244904	244829	244829	244829	244755	244755	244829	244755	244755	244680	244606	244680	244755	244755	244680	244755	244829	245278	246849	247750	247675	247599	247825	248576	249103	249103	248953	248802	248726	248651
Max.	312967	313823	314423	317599	327408	334267	339774	344518	348663	352286	355475	358861	361985	364569	367906	370602	373123	375559	377814	380549	383104	386429	392159	396487	404136	414614	421737	427018	430625	432936	434546
Min.	318	318	318	318	318	319	319	319	319	318	318	319	318	318	318	317	318	319	328	322	318	317	317	425	564	371	359	354	353	348	347
Ave.	153881	154146	154874	155210	155476	155634	155777	155922	156028	156155	156346	156840	157474	158111	158473	158998	159431	159658	160019	160340	160691	161014	161318	161776	163132	164010	164541	164878	165099	165264	165716

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

FEBRUARY

Units in acre-feet

Year	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
1954	344	342	340	336	336	335	333	335	336	333	332	334	534	510	397	380	377	388	375	368	365	363	357	353	351	350	346	344			
1955	10185	10160	10152	10152	10152	10152	10152	10160	10168	10177	10144	10144	10152	10161	10161	10193	11315	12134	12290	12392	12476	12559	12596	12606	12606	12606	12616	12626			
1956	120818	121596	122524	123208	123988	124770	125307	125845	126397	127050	127552	127954	128305	128506	128556	128606	128606	128656	128656	128707	128707	128707	128707	128707	128707	128707	128707	128606	128606		
1957	130263	130263	130213	130162	130162	130162	130313	130614	130715	130715	130815	130815	131021	131178	131279	131383	131486	131537	131537	131486	131486	131434	131537	131692	132362	132672	132826	133291			
1958	103771	104032	104119	104468	104773	104948	105122	105339	105470	105600	105644	105861	106123	106297	106471	106558	106689	106907	107395	107708	107931	108155	108379	108693	111696	113494	114416	114555			
1959	196678	196352	196222	196026	195831	195636	195571	195505	195375	195375	195571	195571	195701	195766	196092	196418	196808	197134	197264	197329	197329	197329	197264	197264	197264	197264	197264	197329			
1960	72849	75437	76031	76312	76454	76595	76700	77334	79696	80843	81535	82008	82372	82700	82924	83225	83413	83638	83864	84014	84127	84240	84353	84428	84503	84503	84503	84616	84729		
1961	28903	28886	28868	28868	28850	28833	28833	28833	28815	28815	28797	28780	28762	28762	28744	28744	28762	28709	28691	28691	28673	28656	28656	28656	28638	28638	28620	28620			
1962	17650	17638	17638	17638	17625	17613	17650	20332	23724	26937	31106	33986	35517	36644	37824	38994	39776	40449	41190	41789	42184	42627	42859	43138	43301	43371	43417	43394			
1963	127803	139518	144847	148359	150972	153046	154752	156287	157765	159911	161597	162876	164281	165468	166536	167426	168256	169028	169621	170346	170952	171436	171920	172404	172827	173312	173857	174280			
1964	168552	168434	168256	168019	167781	167544	167307	167070	166833	166595	166536	166476	166358	166239	166179	166179	166120	166061	166001	165883	165705	165408	165112	164756	164459	164162	163866	163631	163515		
1965	128757	128907	129058	129158	129309	129560	129660	129711	129711	129660	129610	129560	129510	129409	129309	129108	128857	128556	128205	127853	127251	126799	126347	125697	125063	124330	123988	123549			
1966	169680	169680	169680	169740	169982	170285	170406	170406	170406	170346	170224	170164	170164	170164	170104	170104	170104	170043	170043	169983	169983	169983	169922	169801	169502	169265	168909	168434			
1967	231665	233301	234801	236162	237527	238825	240199	241578	242815	244274	245813	247357	248980	250757	252170	253587	254633	255082	255608	255758	255758	255758	255532	255157	254708	254408	254184	253811			
1968	200068	200068	200068	200134	200002	199808	199675	199609	199675	199740	199808	199675	199544	199348	199086	198825	199348	199937	200068	200330	200658	201381	201908	202435	202831	203029	203162	203162	203162		
1969	253213	254409	255307	255983	256809	258543	259223	259904	260662	260586	259601	258845	257939	256584	256058	255532	254334	253064	251872	250312	248832	247062	245180	246841	251946	254708	255757	256358			
1970	249128	249349	249497	249720	249942	250164	250312	250535	250683	251277	251872	252244	252691	253288	253586	253810	254035	254334	254483	254633	254783	255008	255232	255532	255757	255983	256058	256734			
1971	179123	179123	179123	179062	178876	178876	178691	178506	178260	178013	177890	177706	177644	177521	177460	177460	177214	177030	176907	176907	176785	176478	176172	175622	175255	174768	174159	173551			
1972	121605	121557	121460	121412	121557	121702	121847	121798	121750	121702	121653	121557	121508	121412	121315	121122	121026	120833	120590	120401	120161	119970	119492	119015	118920	118540	118208	117736	117311		
1973	67495	67431	67367	67335	67463	67752	68170	68428	68558	68914	69926	70980	71712	72415	73022	73394	73768	74109	74417	74726	74932	75139	75381	75658	75832	76075	76354	77124			
1974	220047	220116	220116	219909	219909	219633	219427	219151	218738	218394	217845	217296	216954	216201	215587	214632	213952	212866	211784	210906	209828	208821	208084	207081	205814	204486	203624	202501			
1975	222886	222400	221637	221637	221499	221360	221084	220945	221084	221984	222192	222192	222261	222261	222192	222192	221984	221637	220807	220600	220254	219840	218669	217982	217091	216201	215177	214156			
1976	170131	169893	169420	169243	169065	169138	169302	169124	169716	169893	169953	169893	169834	169893	169893	169893	169953	169775	169953	170012	169953	169716	169302	169065	168711	168298	167769	167122	166829		
1977	66630	66598	66565	66533	66501	66436	66404	66276	66308	66308	66243	66179	66115	66051	65987	65922	65858	65794	65730	65571	65635	65698	65730	65698	65603	65507	65411	65220			
1978	63957	64020	64051	64051	64208	65252	67406	70783	82683	94425	99289	103270	106423	108783	110632	112410	113974	115460	116863	118278	119608	120996	122442	123850	125318	126550	127838	129436			
1979	245352	245577	245427	245352	245352	245427	245427	245502	245577	245502	245577	245577	246176	247900	249103	249556	249858	249858	250159	250537	251597	252355	252963	253267	253496	253877	254104	254409			
1980	296544	295796	295052	294307	293399	292574	291914	291011	289943	288633	287408	286103	284884	284072	283828	285372	289697	316138	333119	344878	354927	361708	366884	370975	373779	375935	378286	380927	383199		
1981	231686	231830	231903	232047	232120	232265	232265	232845	233641	234005	234151	234369	234515	234660	235098	235315	235972	237288	237508	238169	238169	238243	238243	238390	238463	238463	238096	237875			
1982	174766	174888	174583	174644	174279	173732	172825	172160	171258	170957	170597	170238	169700	169819	170119	173550	176353	177888	178936	179926	180795	181604	182354	182730	182979	193041	183230	183104			
1983	291832	292491	292821	292904	293317	295135	300040	304401	307441	309475	310750	312285	316568	319755	322006	324352	326270	328194	330300	331974	333561	335064	336570	337637	339061	342725	350200	357027			
1984	298623	296211	293565	290847	288224	285533	282858	280194	277025	276186	274752	273478	272051	271814	271024	271024	271418	271340	271261	270787	269918	269210	268423	267480	267325	266933	265992	265134	264354		
1985	244160	244458	244680	244829	244979	244904	244755	245128	245352	245427	245054	244829	244458	244085	243564	242969	242228	241634	240674	240230	239566	238905	238243	237582	236850	236118	235388	234660			
1986	206331	206736	206871	207275	207411	207614	207750	207817	208021	208360	208428	210197	224032	230532	238463	245352	250310	260087	274991	284803	290929	295550	299374	302720	306004	309220	312371	315450			
1987	244531	244458	244383	244309	244234	244160	244085	244011	243862	243862	244011	243862	244606	246251	246326	246326	246026	245652	245577	245427	245427	245128	245128	244979	244755	244383	244011	243713			
1988	144377	144377	144377	144269	144215	144108	144000	143785	143464	143250	142982	142661	142340	142128	141808	141596	141330	140905	140536	140113	139638	139113	138588	138013	137491	136970	136503	136296	136036		
1989	71606	71342	71342	71473	71573	71408	71342	71441	71539	71606	71506	71441	71375	71309	71243	71210	71177	71111	71276	71309	71276	71375	71606	71805	72004	72237	73040	73376			
1990	85113	85038	84851	84701	84590	84441	84329	84291	84254	84217	84180	83994	83845	83698	83550	83439	83365	83402	83291	82996	82849	82629	82446	82299	82080	81897	81679	81570			
1991	45847	45799	45799	45752	45728	45728	45704	45680	45656	45632	45585	45537	45561	45561	45561	45513	45465	45465	45442	45418	45418	45370	45370	45370	45347	45324	45300	45347			
1992	88763	88725	88686	88648	88570	88532	88493	88532	88570	88609	88686	89034	89228	89267	89383	89383	89421	89421	89305	89228	89305	89383	89460	89460	89388	89344	89344	89383	89421		
1993	98537	98662	98745	98828	98870	99037	99287	99915	100756	101433	101814	102155	102325	102496	102624	102709	102880	103180	103567	104473	104992	105471	106959	108327	109216	110156	110966	111418			
1994	240009	239271	238390	237949	237435	236850	236631	236850	236850	236850	236777	236777	236631	236484	236484	236411	236557	236777	236850	237070	236950	236557	236191	235972	235753	235534	235171	234660			
1995	142928	143946	144862	145726	146540	147357	148122	149054	149660	150156	150542	150930	151541	153998	155858	156992	157903	158704	159506	160368	161351	162336	163441	164553	165668	166788	167913	168925			
1996	256933	257317	257701	258161	261015	263265	264822	266071	267246	268226	269289	270313	271103	271893	272765	273637	274353	275150	277625	292244	299873	304823	307864	310494	312796	314849	316654	318116	319409		
1997	436061	437474	438284	438487	438687	438788	438588	438284	437879	437069	435758	434042	432432	430826	429019	427018	425222	423626	421637	418860	416094	413727	410879	407745	404526	401030	397837	394560			
1998	242302	244234	244606	244606	244160	243787	244160	244680	244531	244011	243489	243043	242376	245054	248877	250310	250840	250612	250612	250915	251825	257853	267715	274274	278106	280678	282696	283910			
1999	248500	248201	247675	247074	246474	245801	245352	245502	245352	245726	245352	244904	244531	244606	244755	244755	244979	245054	245203	245427	245502	245427	245352	245203	245054	244979	244979	244829			
Max.	436061	437474	438284	438487	438687	438788	438588	438284	437879	437069	435758	434042	432432	430826	429019	427018	425222	423626	421637	418860	416094	413727	410879	407745	404526	401030	397837	394560	383199		
Min.	344	342	340	336	336	335	333	335	336	333	332	334	534	510	397	380	377	388	375	368	365	363	357	353	351	350	346	344	84729		
Ave.	166457	166877	166999	167083	167190	167335	167535	167860	168370	168849	169092	169293	169797	170272	170718	171150	171571	172492	173295	174133	174659	175117	175569	175900	176287	176778	176843	177063	186961		

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

MARCH

Units in acre-feet

Year	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
1954	342	342	341	336	331	331	331	331	623	569	492	434	374	360	357	369	384	387	379	390	403	390	387	399	408	407	417	455	463	521	487
1955	12626	12606	12596	12596	12596	12596	12606	12606	12606	12596	12532	12281	11948	11734	11507	11255	10917	10592	10266	9958	9667	9444	9237	9042	8862	8668	8495	8300	8139	7869	7453
1956	128456	128405	128355	128004	128004	128054	127903	127652	127301	126548	125946	125358	124330	123549	122524	121303	120391	119300	118778	118350	118350	118540	119110	119632	120296	121255	122329	123452	124526	125551	127150
1957	133291	133239	133188	133136	133033	133136	133136	133084	133033	132981	132878	132620	132620	132776	132776	132723	132620	132517	132414	132104	131896	131486	131125	130765	130464	130162	129861	129610	129309	128907	128456
1958	114555	114555	114601	114647	114647	114647	114693	114739	114739	114831	114923	115016	115062	115154	116168	117353	119680	121450	122720	124135	126448	129158	131176	132672	133961	135044	136131	137137	137877	138724	139836
1959	197329	197395	197460	197525	197460	197375	197329	197264	197069	196808	196483	196157	196026	195896	195636	195310	194854	194401	193825	193313	192672	192096	191648	191264	191008	190880	190880	190880	190880	190752	190688
1960	84804	84917	84992	85105	85218	85368	85706	86120	86458	86845	87078	87427	87893	88291	88513	88746	88823	88901	89017	89133	89327	89405	89444	89366	89250	89172	89366	90181	90735	91015	91414
1961	28603	28585	28567	28549	28549	28638	28620	28603	28603	28567	28532	28443	28319	28213	28266	28231	28213	28178	28160	28142	28142	28125	28107	28107	28142	28160	28160	28178	28213	28213	28195
1962	43371	43371	43371	43371	43371	43417	43440	43417	43394	43371	43324	43278	43278	43278	43231	43134	43045	42906	42697	42464	42115	41719	41055	40449	39798	39125	38192	37413	36790	36185	35621
1963	174764	175128	175491	175856	176103	176350	176659	176782	176967	177029	176967	176967	176967	176844	176597	176720	176720	176659	176659	176659	176782	176967	177029	177090	177214	177276	177399	179127	180855	181904	182701
1964	163282	163166	162817	162469	162004	161655	161307	160842	160376	160086	159679	159389	159214	158866	158691	158401	158227	157994	157822	157652	157538	157708	157708	157652	157595	157652	157708	157822	157936	158227	158633
1965	123110	122671	122329	121840	121352	120818	120248	119632	118873	118066	117924	118019	117924	117734	117450	117260	117117	117117	117117	117117	117117	117117	117117	117117	117165	117165	117165	117212	117212	117260	117307	117402
1966	168019	167604	167070	166476	165823	165171	164518	163631	162934	162236	161597	160842	160086	159388	158633	157822	157083	156344	155776	155264	154742	154410	154183	154126	154070	154070	154070	154183	154410	154638	154979
1967	253512	253288	253064	253064	252969	252766	252542	252319	252021	251946	251872	251946	252170	252319	252393	253064	256133	258316	260358	262181	264012	265772	267463	269392	271018	272494	273974	275615	277105	278442	280335
1968	203228	203228	203095	202897	202435	201908	202435	202765	202765	202897	203029	203095	203095	203426	203691	204088	204419	204486	204618	204685	204618	204552	204552	204552	204552	204552	204685	204751	204950	205149	205415
1969	256809	256659	256433	255983	255232	253960	252244	250090	248167	246106	243909	241287	237959	233800	229188	224557	220392	216338	212595	208419	204486	200265	195896	192028	188074	184227	180733	177890	175866	174829	175133
1970	257261	257864	258165	258769	259374	259752	260207	260586	260889	261573	261877	262258	262486	262867	263248	263554	263859	264012	264012	263783	263554	263325	262943	262562	262182	262182	262182	262410	262410	262410	262258
1971	172763	171917	170953	170111	169332	168555	167483	166474	165350	164289	163174	162355	161771	160840	160317	159622	159217	158813	158525	158295	158180	158065	158065	158237	158352	159102	160491	161771	162939	163878	164937
1972	117029	116559	116419	116372	116325	116091	115764	115624	115298	115066	115020	115020	115112	115345	115531	115624	115811	115998	116138	116185	116372	116419	116700	116841	116841	116888	116982	116841	116841	116700	116606
1973	77830	78504	79040	79614	79866	80372	80698	81171	81537	81830	82345	82677	82899	82899	82862	82862	82825	82936	83159	83680	84428	84993	85371	85787	86244	86894	87585	88436	89019	89605	90114
1974	201710	203757	204618	204618	204419	204220	204887	205083	205681	206214	206547	207014	207415	208084	208754	209761	210636	211581	212392	213205	214020	214973	215860	216885	218051	219151	219978	220945	222470	224069	225605
1975	213341	212595	211851	210838	210030	209089	208352	207816	207482	207081	207215	207081	206681	206614	206414	206414	206347	206214	206147	206014	206081	206547	206881	207081	208017	209224	209896	210030	210098	210299	210434
1976	166888	166712	166420	166069	165485	164961	164554	164147	163625	163104	162527	162123	161491	161031	160687	160344	160001	159544	159259	158917	158633	158179	157725	157386	157159	156933	156820	156651	156538	156425	156256
1977	65125	65030	64934	64808	64713	64555	64429	64240	64020	64051	63988	63957	63863	63769	63581	63488	63394	63394	63363	63332	63301	63269	63176	63145	63269	63269	63238	63145	63145	63114	63052
1978	132516	138394	144004	156031	166829	173531	178370	182423	186091	189171	192216	194969	197226	199303	201327	203430	205610	207938	210348	212774	215761	220080	223681	226824	229921	233185	236546	240007	243204	246866	254057
1979	254867	255173	255479	255936	256396	256856	257470	258238	259394	260474	261480	262177	262876	263420	263964	265134	265836	266384	267168	268030	268738	269368	269918	270550	271182	271893	273321	275310	276506	277785	278909
1980	384338	386048	388239	390053	392063	393696	395137	395812	396391	396198	395041	393886	392639	391298	390053	389099	387762	386524	385477	383768	382158	380455	378380	376687	374998	372845	370695	368647	366605	364754	363000
1981	237949	237728	237362	237070	237070	237070	236924	236850	236704	236484	236265	236191	235972	235899	235680	235388	235244	234952	235461	235826	236484	237070	237728	238169	238537	239198	239787	240157	240378	240894	241264
1982	182916	182916	183292	183481	183669	183732	183607	183481	183292	183481	185180	186953	188289	189631	191043	192397	194277	195516	196692	197807	198992	200117	201244	202441	203644	204649	205926	207074	208768	209856	211289
1983	367906	378286	386715	393119	397837	402193	406475	410879	414811	418466	421637	424124	428718	435859	439600	441934	444478	446722	448154	449381	450920	452665	454929	458026	459888	461029	462065	463416	464145	465289	467478
1984	263574	262954	262487	262323	261866	261403	261015	260474	260087	259855	259932	259701	259548	260783	261325	261944	262643	263187	263420	263574	264276	264978	265914	267011	268030	269210	270550	271972	273478	274672	275787
1985	233787	233425	232917	232410	231830	231830	231543	231109	230821	230460	229884	229310	228663	228161	227805	227447	227089	226732	226589	226375	226020	226163	226234	226304	226304	226518	228520	229884	230748	231543	232337
1986	318289	321139	323569	326008	328194	330388	332589	342277	350926	359502	366512	372936	378003	382345	386334	389766	392351	394560	396487	398223	399866	401804	403846	405696	407354	409114	410977	413630	415699	418761	421836
1987	243192	242671	242079	241412	241264	242079	242228	242228	242079	241708	241412	240968	240526	239935	239861	239640	238758	238463	238390	237949	237949	237949	237875	237949	238096	238316	238537	238831	239198	239640	239935
1988	135726	135469	135159	134901	134592	134337	134029	133670	133516	133312	133058	132701	132344	131989	131534	131129	130775	130524	130373	130172	129870	129720	129519	129369	129419	129369	129270	129220	129120	129070	129020
1989	73477	75075	77922	79125	80018	80989	82299	83883	85526	86925	88186	89383	90473	91376	92127	92722	93561	94043	94606	95254	95864	96599	97626	98870	100251	101644	102709	103653	104818	106037	107266
1990	81388	81207	81134	81062	80882	80593	80232	79874	79516	79231	78983	78770	78592	78345	78204	78133	78063	78028	77992	77922	77852	77816	77746	77781	77852	77992	78098	78204	78275	78309	78275
1991	45704	45895	45966	49411	58307	60299	61270	61803	62101	62221	62370	62400	62430	62460	62430	62341	62191	62161	62161	62370	62521	62641	62701	62731	62911	63214	63426	63547	63760	63973	64218
1992	89460	89499	89460	89499	89538	89538	89499	89383	89383	89383	89267	89267	89228	89189	89189	89112	89034	89034	88995	88957	88957	88995	89189	89267	89228	89150	89112	89034	88995	88995	89034
1993	111688	112006	112370	112738	113190	113649	114153	114706	115121	115260	115538	116003	116514	117215	118249	119430	120619	122925	124869	126588	128421	130222	132141	134029	136296	139743	142875	145456	147684	149715	151708
1994	233932	233062	232192	231398	230748	230821	230821	230748	230676	230532	230604	230748	230676	230604	230388	230172	230388	230532	230676	230893	230821	230676	230748	230821	230821	230821	230821	230532	230028	229526	229094
1995	169461	170059	170537	171559	173914	177211	179183	180671	182041	189887	203243	211495	217014	221630	226092	230028	233569	236557	240230	244011	248425	252431	255708	258161	260164	261711	263031	264042	265056	265836	266541
1996	320534	321485	322440	323308	326970	329072	330740	332325	333915	335507	337104	339417	341739	343530	344968	346497	348211	350019	352016	354381	356753	359318	361985	364291	366327	368092	369672	371722	373779	375653	377534
1997	391011	387001	383009	379134	375277	371909	368647	365680	362815	360329	358035	356023	354199	352832	351652	350563	349477	348211	346858	345866	345148	344518	344608	344878	345328	345866	346948	348572	350472	351925	352923
1998	284965	285859	286674	287652	288551	289125	289615	289615	289453	289207	289125	289289	289861	290600	290929	292244	293565	295550	297708	299873	302217	304738	307864	311773	316824	320621	324265	328194	330916	333385	335862
1999	244904	244979	244979	245128	245352	245652	245951	246101	246326	246474	246474	246624	246774	246999	247299	247449	247599	247900	248051	248201	248425	248726	249103	249300	249632	250085	250537	250840	251294	251597	251977
Max.	391011	387001	388239	393119	397837	402193	406475	410879	414811	418466	421637	424124	428718	435859	439600	441934	444478	446722	448154	449381	450920	452665	454929	458026	459888	461029	462065	463416	464145	465289	467478
Min.	342	342	341	336	331	331	331	331	623	569	492	434	374	360	357	369	384	387	379	390	403	390	387	399	408	407	417	455	463	521	487
Ave.	177383	177792	178134	178605	179197	179560	179824	180158	180452	180843	181335	181704	181985	182315	182545	182783	183091	183366	183672	183947	184333	184782	185231	185708	186196	186700	187271	187921	188515	189105	189837

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

APRIL

Units in acre-feet

Year	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
1954	482	500	517	538	566	590	590	609	650	660	663	654	679	761	1104	2124	3490	5028	6549	8045	9545	11115	12740	14570	16144	17408	18696	20550	22070	23322	
1955	7058	6734	6438	6140	5855	5554	5286	5062	4876	4692	4554	4453	4411	4422	4408	4419	4426	4445	4422	4375	4330	4505	4722	4981	5229	5440	5603	5752	5884	6005	
1956	128506	129911	131176	132259	133342	134528	135714	137137	138618	140206	142025	144521	146583	148526	150361	152364	154183	155946	157538	159214	160667	162236	163925	165942	167485	169028	170406	171557	172525	173615	
1957	127954	127452	127000	126749	126498	126146	125845	125502	125356	125161	124965	124721	124477	124330	124232	123940	124135	124477	124623	124672	124672	124672	124770	124868	125014	125161	125307	125453	125551	125600	
1958	141106	142567	145444	147748	150249	152139	154126	155946	157708	159970	161830	164044	166358	168790	171375	174038	177090	181040	185488	190496	196352	202170	206878	210777	213745	216683	219155	222189	225121	227426	
1959	190688	190752	191008	191200	191328	191648	191840	192032	192288	192480	192672	192864	193121	193313	193505	193569	193569	193761	194081	194273	194465	194854	195180	195505	195961	196418	197004	197460	197851	198438	
1960	91694	92054	92454	93014	93573	94093	94703	95320	95896	96555	97131	97708	98119	98532	99083	99676	100226	100735	101413	102175	103118	104294	105426	106166	106863	107663	108648	109454	110125	110931	
1961	28213	28249	28372	28585	28974	29360	29748	30080	30265	30450	30598	30802	31010	31222	31434	31723	32186	32706	33183	33504	33766	33986	34167	34348	34508	34628	34729	34850	34954	35038	
1962	35038	34328	33705	33263	33143	33404	33986	35038	36560	38214	39529	40808	42347	44205	46614	48935	51446	54524	57668	60661	63075	65397	68136	71278	74382	77017	79532	82226	84729	86612	
1963	183664	184230	184734	185299	185613	185928	187060	189023	190496	191648	192608	193569	194209	195115	196222	197655	198829	199806	200783	201905	202767	203761	204889	205751	206613	207541	208617	209494	210507	211586	
1964	159098	159853	160260	160493	160667	160900	161016	161133	161249	161597	162062	162643	163398	164221	164993	165824	166714	167485	168137	168671	169087	169561	169922	170164	170346	170467	170588	171073	171436	171859	
1965	117829	118066	118540	118730	118920	119110	119300	119585	120154	120486	120818	121303	121791	122378	123110	124086	125161	126297	127652	129560	131640	134064	136342	138618	141265	144087	147359	150194	153387	156571	
1966	155434	156344	157424	158749	159795	160842	162004	163108	164459	165527	166120	166655	167070	167366	167900	168612	169324	169862	170346	170649	170952	171254	171556	171799	172162	172767	173615	174522	175430	176473	
1967	281760	282950	284223	285659	287098	288301	289587	290956	292168	293382	294680	296144	297531	298511	299576	300396	300971	301381	301053	300560	300314	299986	299494	299084	298511	297939	297531	297123	296307	295331	
1968	206347	207482	208084	208754	209358	210096	210771	211378	211851	212325	212868	213545	214769	215587	216201	216543	217228	217433	217845	218257	218601	218876	218945	219220	219427	219978	220945	221707	222747	223582	
1969	175805	175439	175255	173551	173127	173855	171977	168794	165173	162004	159102	157204	156688	156117	154694	152883	151422	150751	150304	150863	152940	156345	159854	162004	162939	163819	164878	166474	168854	172703	
1970	261725	261041	260359	259904	259450	258996	258920	259072	259147	259298	259828	260283	260738	261117	261573	261801	262029	262105	262258	262258	262258	262182	262105	262029	262029	262105	262334	262486	262562	262867	
1971	166000	166889	167602	168436	169153	169871	170532	171073	171615	172219	172824	173369	173977	174768	175439	176111	177214	178260	179062	179742	180547	181106	181479	182039	182476	182725	183163	183601	184039	184478	
1972	116512	116325	115998	115718	115252	114741	114278	113771	113219	112852	112669	112577	112577	112577	112898	113035	113035	112989	112852	112669	112669	112669	112577	112349	112349	112349	112394	112440	112715	113035	
1973	90863	91378	91577	91497	91378	91378	91975	92935	94063	95079	96226	97589	99342	100565	101159	101841	102526	103386	104381	105383	106567	107317	108338	109813	111893	114834	118778	123451	128103	132877	
1974	227780	234729	237959	240706	242159	244128	246253	247946	250461	252393	254109	256058	258014	260131	262334	264318	266387	268619	270785	272727	274520	276320	278127	279940	281443	282871	284462	286458	287820	289587	
1975	210501	210367	210165	210165	210434	210636	210771	210906	211041	211041	211243	211311	211378	211513	211784	211784	211784	211651	211919	212122	212392	212799	213477	214088	215177	215723	215996	216270	216270	216406	
1976	156088	155919	155694	155638	155638	155638	155638	155525	155694	155582	155582	155469	155413	155469	155750	155694	155582	155525	155638	155694	155694	155638	155638	155750	155750	155975	155919	155862	155862	155862	
1977	63052	63083	63083	63052	63052	63052	63021	62959	62928	62897	62897	62897	62866	62866	62835	62804	62804	62990	63083	63145	63425	63706	63926	64083	64271	64366	64681	65030	65443	65890	
1978	260074	264867	268396	271332	273117	274830	275768	276080	276080	276002	276393	277255	278511	280085	281348	282851	283247	283089	282693	282297	281664	280874	280321	280558	281268	281664	281664	281743	282613	283723	
1979	279953	280839	281887	282858	284153	285291	286755	287815	289125	290929	292409	293893	295796	297956	300542	302804	305329	307356	309050	310750	312540	314165	315708	317513	319150	320794	323223	325834	328194	330652	
1980	361432	359685	358035	356297	355018	354108	352832	351471	350019	348934	348301	347490	347219	347219	347759	348572	350019	352196	355018	358402	362169	365124	366884	367906	369765	372470	375186	378946	382345	385667	
1981	241486	241783	242153	242450	242671	243117	243489	244085	244755	245427	246251	246774	247149	247449	247750	248275	249179	250310	251294	252127	252887	253724	254791	256319	258315	259855	261170	262332	263652	265290	
1982	213210	214657	216249	217988	219384	220858	222194	223394	224598	226163	242079	257394	267325	275230	282453	288715	294638	300208	305835	311602	316996	322180	327058	331974	336395	340846	345866	351107	357302	363829	
1983	469046	470615	472606	473762	473236	471978	470196	467896	465184	462065	458958	455342	451432	446926	441934	437069	432734	428119	423529	419356	414614	409898	406377	402873	399479	396101	392831	389670	386619	383958	
1984	277384	278668	280114	281243	282453	283666	284965	285696	287163	287733	289289	290436	291585	292987	294390	295796	296959	298039	299374	300961	302720	304570	305920	306933	308371	309305	310409	311517	312796	313480	
1985	233425	234515	235899	237728	239935	242376	245054	247900	250991	254180	257394	260783	264588	268974	273242	276986	280194	282858	286022	288797	291093	293399	295384	297126	299374	301128	302804	304233	306004	308034	
1986	425521	428119	430524	432734	434748	436564	437980	438890	439295	439701	440209	440820	441527	441832	441730	441425	441123	440513	440006	439600	439803	440920	442442	443461	444784	445804	446415	447745	450304	452768	
1987	240083	240304	240230	240600	240820	241116	241116	240968	240968	241042	241264	241560	241857	242005	242005	242228	242599	243192	243638	243713	243787	243936	244011	244160	244458	245054	245278	245577	245951	246474	
1988	129070	128970	128920	128870	128870	128920	128920	129070	129270	129369	129670	129971	130273	130674	131129	131230	131432	131584	131635	132141	132344	132548	132548	132446	132599	132650	132599	132446	132497	132548	
1989	108460	109708	111146	112552	114015	115538	117261	119288	121480	123700	126046	128221	130273	132294	134438	136763	138955	141224	143464	145889	147957	149880	151263	152487	153549	154559	155349	156027	156594	157049	
1990	78239	78239	78204	78275	78275	78204	78204	78169	78133	78098	78098	78239	78521	78912	79374	80054	80412	80737	80954	81170	81388	81461	81570	81897	82043	82153	82372	82849	83402	83957	
1991	64524	64832	65140	65605	66543	67807	69445	70749	72171	73748	75212	76350	77291	78204	79161	80197	81170	82043	82922	83771	84552	85225	85827	86470	87268	88186	88995	89927	90865	91929	
1992	89228	89344	89538	89693	89966	90317	90708	91258	91929	92762	93561	94364	95173	95986	96845	97709	98537	99789	101221	102539	103824	105209	106300	107266	108327	109618	111056	112779	114568	116374	
1993	153717	155970	158308	160830	163792	166552	169222	171679	174279	177272	180174	183167	185686	187906	190016	192269	194667	197020	199323	201976	204918	208089	211221	214243	217432	221067	224953	228735	232772	237142	
1994	229022	229166	229166	229094	228879	228448	227876	227447	227232	227161	227018	226804	226518	226163	225949	225807	225878	225807	225807	226163	226661	227375	228090	228735	229166	229597	230028	230316	230676	231182	
1995	267325	268108	268895	269681	270629	271103	272210	273242	274752	275867	276666	277625	278668	280114	281402	282129	282696	282777	283020	283182	283344	283101	282696	282372	282291	282696	283423	284640	287082	293069	
1996	379418	382440	384906	387284	389670	391967	393985	396101	398513	400545	402776	405208	407647	409996	412351	415502	418959	422433	425022	427419	429621	431326	433036	435051	437879	441324	445907	450818	456064	461236	
1997	353925	354562	354927	355292	355840	356389	356753	356753	356572	356572	356936	357760	358586	359134	359685	360237	361250	362630	364199	366141	368740	371536	374623	377440	379982	382630	385857	389003	392255	395234	
1998	338172	340132	342187	344249	345596	347309	348482	349387	350200	351017	351925	352741	353197	353379	353470	353288	353014	353014	353379	354381	356480	359961	364199	368275	372190	375653	379229	383009	386524	390244	
1999	252279	252583	252887	253191	253648	253877	254256	254562	255020	255479	256089	256626	257163	257853	258700	259701	261093	262254	263498	264900	266306	268030	269524	270550	271497	272131	273003	274035	274831	275707	
Max.	469046	470615	472606	473762	473236	471978	470196	467896	465184	462065	458958	455342	451432	446926	441934	441425	441123	440513	440006	439600	439803	440920	442442	443461	444784	445804	446415	450818	456064	461236	
Min.	482	500	517	538	566	590	590	609	650	660	663	654	679	761	1104	2124	3490	4445	4422	4375	4330	4505	4722	4981	5229	5440	5603	5752	5884	6005	
Ave.	190613	191408	192117	192771	193389	194028	194622	195148	195732	196315	197268	198263	199192	200080	200962	201821	202736	203665	204608	205628	206712	207855	208965	210027	211121	212223	213434	214760	216178	217731	

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

MAY

Units in acre-feet

Year	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
1954	24185	24967	25800	27060	28752	30787	33086	35662	38308	40610	42524	44513	46388	48500	50632	52450	54360	56948	60040	63089	66194	68504	70430	72232	73805	75100	76304	77312	78608	79770	80574
1955	6209	6400	6560	6705	6862	7110	7453	7957	8381	8804	9383	10168	11090	11911	12411	12646	12933	13290	13841	14635	15525	16717	17940	19230	19982	20443	21152	22283	23816	25552	26836
1956	174522	175552	176844	179003	181102	183035	184859	186305	187688	188895	189984	190816	191520	192096	192736	193377	194401	195440	197004	198568	200327	203231	206878	211114	214967	218125	221630	224912	228193	231671	235080
1957	125356	125063	124819	124721	124917	125307	125946	126347	126699	126950	127050	127150	127301	127552	127803	127954	128154	128807	132878	135147	137084	138406	139942	141106	142187	143219	144467	145770	147248	148415	149660
1958	229327	231600	234441	237964	242442	247876	253518	259680	266231	273266	279857	285345	289746	294035	298924	304591	311251	319163	327690	336589	344641	352873	361472	368714	375193	381192	387045	392651	398034	403243	408509
1959	199219	199936	200327	200718	200979	201374	201639	201838	201971	202170	202568	203297	204159	204955	205817	206149	206613	206878	207276	207541	207674	207674	207674	207607	207607	207541	207475	207342	207210	207210	207210
1960	111742	112572	113356	114232	114785	115430	116122	116832	117639	118683	119110	119063	118778	118683	118683	118920	119158	119253	119205	119110	118920	118825	118635	118493	118445	118303	118208	118398	118588	118778	118730
1961	35204	35497	35830	36185	36435	36727	36980	37240	37499	37759	38020	38257	38473	38690	38929	39192	39574	40068	40561	40988	41417	41836	42394	42975	43580	44277	44952	45556	46137	46589	46990
1962	88320	90455	92814	95814	99422	103597	107708	111513	114969	117782	119869	121596	123110	124379	125551	126648	127652	128656	129460	130413	131021	131383	131537	131692	131898	131898	132052	132052	132001	132156	132672
1963	212733	214150	216203	218125	220322	222468	224772	226867	228759	230748	232736	234654	236591	238325	240203	241937	244275	246994	250380	253891	257402	261123	264769	268471	271946	275385	278524	281917	284867	287657	291203
1964	172464	173009	173312	173554	174038	174220	174522	174825	175128	175491	175918	176473	177399	178571	179806	181225	182659	184105	185676	187436	189407	191200	192993	194401	196026	197786	199024	200066	200783	201441	201507
1965	159911	163340	165705	167604	168968	170588	172101	173070	174522	175431	176350	177152	178016	179251	180485	182156	184419	187499	190752	194593	197851	200718	203297	205486	207475	209427	211518	214082	217233	220596	223795
1966	177584	178818	180300	181657	183161	184671	186431	188191	189599	190816	192032	192993	194017	195505	196938	198307	199806	201507	203363	205088	206547	207740	208954	210237	211451	212733	213947	215173	216203	216890	217370
1967	293869	292491	290876	289426	288301	287098	286058	285419	285818	287419	287820	287419	287018	286698	286778	287820	289909	293058	297123	301628	306750	313930	321195	328372	335282	342351	349226	355454	361375	366347	371169
1968	224488	225535	226516	227358	228343	229330	230177	230956	231595	232234	233088	233800	234729	235445	236090	236664	237527	238392	239764	241287	242814	244421	245299	245813	246474	247430	248832	250461	252244	253885	255232
1969	177030	181603	185988	189345	191068	192734	196935	201447	208151	216954	226235	234729	244713	255232	266003	276712	288381	300806	313090	324346	335890	348164	358498	369710	381465	393595	405536	416887	428892	441474	454244
1970	263325	263706	264088	264547	265083	265619	266310	267001	267848	269160	270088	271018	272027	273194	274989	277262	279264	282474	285020	287096	289024	291037	293463	296470	299166	301464	303523	305921	308412	311165	314182
1971	184981	185547	185925	186366	186682	187378	188011	188709	189472	190365	191260	192156	193056	194215	195572	197130	198825	200199	201447	202369	203624	204618	205548	206347	207415	208687	210704	212325	213748	214837	215928
1972	113265	113771	114325	114973	115485	115998	116466	116935	117452	117972	118540	119063	119635	120257	120833	121315	121798	122040	122331	122380	122380	122283	122186	122137	122186	122283	122574	122769	123012	123109	123402
1973	137088	139625	143002	146817	150863	153957	157089	160665	165291	171073	177890	185295	192670	200396	208084	214837	221984	229683	237599	245593	252318	258618	264471	270397	276399	282633	289024	296959	305838	313510	320261
1974	292168	294274	297286	300888	301183	306750	309578	312923	317129	322215	327514	333029	338502	343404	348872	354026	358678	362547	366258	369346	372266	375014	377588	380263	382948	386667	391153	396138	400871	405345	409846
1975	216543	216817	217228	218051	218876	219633	220323	221568	223303	224976	227077	229612	232447	235516	238697	242669	246253	249942	254259	259223	262715	265466	268156	270940	274676	278678	283030	287339	291845	296307	301135
1976	156200	156651	157103	157103	157499	157952	158406	158804	159316	160058	160630	161318	162296	163567	164844	165952	166829	167534	168063	168181	168475	168770	168947	169006	169124	169420	169597	169597	169834	169834	169538
1977	66147	66372	66501	66459	66565	66727	66856	67213	67375	67570	67701	67864	67995	68061	68126	68422	68586	68718	68850	68982	69114	69313	69745	70146	70481	70749	70918	71053	71188	71560	72138
1978	284041	283682	283723	284280	286669	288588	289872	290354	290997	292044	294306	297392	301724	307248	313327	319048	322694	326275	329792	333502	337146	341775	346171	349355	351220	355142	357471	360708	364414	369050	374636
1979	333208	335507	337904	340578	343261	345956	348482	350835	352741	354562	356206	358219	360237	362538	364846	367441	370231	373498	377158	381211	385572	390340	394945	399285	403360	407354	411761	416191	420050	423626	426818
1980	389386	393023	396871	401513	406572	411957	417971	423230	428618	433638	437575	440818	443664	446213	448052	450099	452563	456064	460510	465914	471664	477341	482942	487512	490924	493598	495638	497248	498540	499831	501234
1981	267637	270471	273083	274991	276586	277705	278588	279631	280758	281887	283182	285047	287000	289289	290600	291997	292821	293482	294141	294638	294969	295301	295713	296378	297126	298456	299792	300877	302217	303645	305160
1982	370511	377158	383863	389957	395523	401224	407061	412941	418367	423529	428119	432332	436564	440818	444988	449176	453798	458440	462896	467582	472606	478288	484110	490499	496817	502961	508922	514152	518309	522044	525349
1983	380833	377346	373498	370324	367162	364476	361985	360421	358861	358219	357577	356480	355566	353652	352377	352923	353652	354653	356023	359318	364569	372096	381685	392351	404038	416290	429520	444170	458854	471768	485702
1984	314251	315278	316396	317513	319236	320967	322353	323917	326008	328457	331709	335507	339685	343889	347580	350563	353288	355749	358677	362077	365956	369579	373404	377346	379982	383768	387571	391011	394177	397933	400836
1985	309901	312456	314935	318116	320881	323830	326795	329423	331259	333385	335330	337193	339239	340400	342456	344518	346497	348663	351017	353288	355383	357760	360421	363184	366234	368740	370882	372470	373779	374716	375559
1986	455548	458647	461652	464663	466436	467687	468314	468523	468523	468942	469151	469256	470091	471034	473446	475232	477655	481036	484854	489003	493065	495853	498217	500262	502853	506534	510880	515571	521163	526894	533100
1987	246924	247299	247449	247975	248802	250009	250764	251749	252963	254485	255708	257010	258392	260087	262099	264666	266384	267637	268738	269581	270629	271261	271734	271893	271814	271972	272210	272289	272527	272765	273083
1988	132497	132446	132599	132599	132650	132752	132752	132854	133108	133159	133210	133465	134183	135314	136659	138273	139849	141171	142182	143464	144754	146268	147629	148945	150156	151319	152320	153157	154111	154954	155688
1989	157446	157903	158532	159448	160772	162278	163792	165492	167321	169162	170478	171559	172522	173430	174218	175010	175680	176292	177088	178011	178936	179739	180733	181354	181916	182479	183041	183732	184236	184549	184738
1990	84291	84515	84701	84925	85300	85789	86507	87306	88071	88725	89383	89732	90122	90395	90747	91022	91140	91376	91455	91573	91613	91810	91889	92127	92364	92444	92523	92882	93440	93842	94204
1991	93041	93962	94849	95619	96435	97380	98620	100293	102368	104170	105514	106607	107619	108727	109887	111192	112870	114475	115910	117215	118483	119714	121049	122877	125261	128024	130624	132803	134644	136711	138535
1992	118060	119525	120905	122442	123895	125457	127229	128870	130775	132701	134592	136503	138430	140430	142340	144108	145835	147193	148176	149054	149770	150267	150598	150875	151097	151541	152041	152599	153046	153325	153549
1993	242005	247074	252051	257624	262254	266462	270234	274114	278106	282210	286592	291093	295135	298706	302468	306340	310494	314935	319755	324788	329599	334533	339864	345148	350200	354290	357760	360605	363184	366141	369206
1994	231758	232265	232845	233353	233787	234369	235315	236045	236557	237070	237875	238905	240600	242525	244531	246326	247825	248953	249707	250310	251143	251825	252583	253267	253951	254562	255326	256243	256933	257701	258469
1995	300710	307780	313652	318634	323308	327233	330212	332854	335064	337282	339774	342725	345956	348482	351017	353925	356572	358953	361524	364661	368368	372564	376969	381211	385001	388239	391778	395426	398900	402387	406282
1996	466227	471244	476075	480612	484747	488576	492208	495745	499292	502636	506643	510771	514699	518857	523035	526894	530103	531877	533100	533656	533656	533433	532988	532544	532099	531435	530991	530547	530547	530547	530547
1997	398320	401224	404233	407256	410192	413335	416487	419753	423230	426618	430022	433638	437575	441527	446009	451023	455858	460302	463729	465810	467060	467896	469151	470824	471559	471664	472291	473131	475338	477760	481036
1998	394752	399576	404428	409604	415107	419554	423230	425621	428320	431326	433941	436766	438093	440209	440513	440818	441123	440920	441222	441527	442442	443359	444580	446111	448154	450304	451637	452563	453798	454517	455445
1999	276666	277384	277865	278427	279150	279953	280920	282210	283666	284965	286592	288388	290682	292656	294638	296211	297708	299457	301547	303561	305667	307864	309901	312029	314080	316568	319150	321398	323917	325834	327495
Max.	466227	471244	476075	480612	484747	488576	492208	495745	499292	502636	506643	510771	514699	518857	523035	526894	530103	531877	533100	533656	533656	533433	532988	532544	532099	531435	530991	530547	530547	530547	533100
Min.	6209	6400	6560	6705	6862	7110	7453	7957	8381	8804	9383	10168	11090	11911	12411	12646	12933	13290	13841	14635	15525	16717	17940	19230	19982	20443	21152	22283	23816	25552	26836
Ave.	218346	220950	222549	224242	225888	227650	229370	231090	232938	234926	236885	238830	240879	242932	245083	247286	249520	251857	254372	256899	259401	261972	264550	267103	269574	272110	274664	277222	279833	282345	284871

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

JUNE

Units in acre-feet

Year	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
1954	81178	81990	82952	83784	84544	85000	85190	85304	85380	85304	84734	83974	83214	82360	81546	80843	80140	79437	78716	78176	77600	77132	76700	76016	75135	74155	73105	71722	70634	69512	
1955	27558	28178	28656	29323	30413	32340	34708	37154	39058	40920	41975	42720	43092	43208	43347	43557	43464	43347	43255	43231	43208	43208	42999	42650	42254	41812	41279	40741	40292	39753	
1956	238108	241431	244128	246920	249345	251575	253817	256207	258844	261731	264693	267390	269552	270865	272023	272563	272795	273345	274129	274835	275149	275620	276169	277111	278759	280250	280881	281758	282395	283033	
1957	151805	154695	158517	162004	165053	168019	170588	173312	176103	178139	179003	179683	180979	182093	182973	183476	183601	183790	183916	183979	183916	183350	183035	182596	182093	181842	181719	181904	181719	181164	
1958	413405	417863	422129	425563	428603	430859	432833	434719	436664	438490	439979	440376	440773	441071	441766	442268	443072	443474	444980	447491	449398	450805	452520	453130	453130	452520	454146	455162	453536	451608	
1959	207143	206480	204889	203363	201838	200392	199024	197525	195505	193569	191392	189343	187185	184671	182030	179498	176967	174341	171617	168909	166239	163224	160493	157367	154240	151305	148526	145661	142893	140259	
1960	118730	116825	116873	116825	116588	117924	117022	116076	115016	113863	112711	111424	109991	108469	106950	105296	103554	101879	99930	97914	95690	93533	91295	88978	86574	84240	83450	82590	81753	80989	
1961	47316	47567	47743	47993	48344	48831	49404	49951	50498	51019	51419	51771	52150	52501	52825	53042	53096	53096	53096	53015	52906	52690	52474	52177	51771	51392	50993	50629	50212	49664	
1962	133755	135508	137877	139677	140948	142187	143653	145607	147693	150194	152705	155093	156969	158517	159911	159970	159970	160667	162004	163806	165883	168019	169862	171073	171799	172464	173191	173615	173675	173554	
1963	294844	298760	303112	307002	310584	314011	316714	319417	321954	324351	327348	330431	333033	334941	336936	339985	344025	348782	353407	357960	361742	364354	366344	367164	367802	368714	369443	369990	369717	369261	
1964	201838	202104	202236	202634	203032	203562	203628	203363	202568	201772	200653	199610	198698	197851	196939	195701	195049	193569	191968	190368	188831	187436	186053	185676	184419	182847	181040	179189	177276	175310	
1965	227495	230606	233020	235222	238253	241937	245892	249639	252471	254863	258085	262187	265922	268702	270710	272023	272641	273031	273658	274600	275934	277268	278524	279308	279779	280171	280485	281041	281758	282635	
1966	217576	217645	217782	217919	217968	218125	218125	218262	218193	217713	216958	216134	215104	214217	213071	211451	209966	208415	206812	205221	203496	201573	199610	197916	196352	194984	193825	192736	191392	190112	
1967	374280	376759	378878	380618	382577	384433	386387	388813	391904	395667	399732	404105	408790	413504	418148	423209	425850	428204	431354	433428	435804	438385	440975	443873	446881	449798	455258	461160	467719	474844	
1968	258433	257713	258996	260131	260965	261193	260738	260207	259374	258467	257261	255983	254483	253138	251872	250757	249423	247946	245960	244348	242669	241142	239475	237887	236305	234372	232092	229753	227498	225465	
1969	467616	480772	493272	503796	512383	520065	526713	532413	536847	537593	538145	539141	539694	540912	542798	545466	546802	548029	549815	552501	555418	558680	562178	565801	568071	568867	569095	569663	569436	569663	
1970	317214	320176	322300	323920	324774	325201	325543	326742	327514	327771	327342	327085	326742	326399	325714	324945	324176	323578	323067	322896	322726	322556	322130	321450	320770	320091	319328	318735	317890	316876	
1971	216954	217776	218601	219427	220323	221360	222470	223791	225256	226796	228343	229895	231240	232732	234300	235803	237311	238536	239547	240199	240706	240996	240924	240706	240126	239403	238608	237815	236880	235875	
1972	123793	124136	124332	124431	124480	124038	124824	125465	126109	126555	126754	126705	126506	126506	126406	126357	126158	125811	125317	124578	123793	122671	121508	120449	119158	117925	116653	115485	114371	113403	
1973	328716	333635	338502	343316	348961	354561	360025	365621	371535	376851	380910	384340	386760	389094	390029	390497	391060	391622	392561	393971	394913	395855	396516	396799	397082	397555	398501	399164	399448	399353	
1974	414585	418827	422819	426732	431157	435704	441574	446278	450302	454345	458102	461160	463921	466748	470810	472256	472980	472980	472773	472566	472566	473912	475881	475778	475155	474740	473912	473083	472463	471739	
1975	306170	310747	315275	319328	323237	326485	331128	334068	336673	339812	341825	343844	344899	345780	346751	348076	348695	348695	348518	347811	347192	346398	345780	344811	344107	343316	342000	340861	340161	338851	
1976	169361	169065	168652	167886	167005	166010	164961	163799	162527	161376	160401	159316	158292	157159	155862	154628	153177	151846	150356	149094	147675	146048	144594	143041	141341	139810	138290	136676	134869	132771	
1977	72994	73926	74866	75779	76700	77521	78384	79035	79544	80385	81011	81492	81825	82086	82272	82347	82347	82347	82309	82235	82086	81863	81714	81529	81306	80937	80422	79872	79326	78636	
1978	380265	385377	390149	395328	401019	407039	413298	420483	428321	435438	441415	447433	453188	457962	461635	464400	466556	468408	470574	472537	474712	476789	478245	478870	479078	479808	480747	481373	482209	483569	
1979	429420	431627	433439	435051	436463	438082	440107	441123	441629	441832	442035	441934	441629	440818	439295	437778	435960	434445	432634	430826	428718	427118	425621	424224	422732	421140	419356	417377	415502	413630	
1980	502420	503827	505666	508052	510226	512622	514808	517324	520236	523694	527005	529771	531766	533544	535323	537663	540120	542694	545724	549326	553166	556337	559175	561792	564758	568075	571169	574735	578312	581319	
1981	306510	307610	308456	309390	310579	311858	312456	312456	312456	312285	311773	311176	310326	309560	308541	307102	305751	304233	302720	301296	299873	298289	296627	294886	293152	291340	289533	287570	285614	283585	
1982	528333	530103	531324	532321	533433	533990	534321	534878	536104	537663	539228	540904	542024	542919	544041	546062	547638	548762	550568	552600	553955	554975	555883	556902	557242	557697	558720	559855	560083	560083	
1983	497033	505666	512295	517653	522594	528001	533878	539787	545724	551582	559175	565899	570483	575773	581783	587240	593893	600343	606239	610384	613828	617043	620146	622178	623737	625174	626376	627335	628057	628177	
1984	402776	404428	405598	406086	407256	407159	407745	407061	406572	406377	405891	405306	404916	404623	404321	404039	403749	403165	402193	401321	400642	399866	399188	398707	398223	397740	397257	396774	395908	395619	
1985	376405	377346	378663	379701	380455	381969	383673	385191	386429	387380	388143	388525	388621	388525	388525	387857	387094	385953	384716	383578	382253	380927	379606	377626	376217	374716	373217	371442	369579	367627	
1986	538781	543817	547750	551356	553732	555656	556902	557469	558492	559175	559741	560311	560652	561450	562020	562134	562134	561336	560425	559403	558606	557810	557242	556788	556788	556450	556450	556110	554975	553166	
1987	273878	274831	275467	275707	276026	276026	276266	276266	275946	275310	274752	274114	273399	272448	271340	270313	269131	268108	267168	265914	264510	263498	262487	261248	260010	258931	257776	256473	255173	253648	
1988	155970	156537	157163	157732	158017	158189	158017	157618	157049	156424	155858	155236	154616	153942	153269	152375	151374	150376	149439	148560	148012	147957	147521	147357	147248	146975	146431	145672	144646	143518	
1989	184801	184549	184110	183544	182916	182479	182041	181791	181604	181479	181479	181604	181604	181666	181729	181791	181854	181791	181542	181044	180671	179987	179121	178195	177334	176414	175436	174279	173127	172160	
1990	94325	94325	94284	94404	94687	95092	95538	95945	96394	96968	97297	97420	97420	97297	97091	96927	96640	96354	95986	95538	95011	94404	93801	93201	92563	91889	91415	90826	90239	89693	
1991	140060	141808	144269	147248	150101	152934	155575	158189	160657	163093	165492	167676	169700	171498	173006	174097	174949	175497	175558	175497	175252	175069	174827	174522	174218	173793	173249	172704	172100	171378	
1992	153717	153830	153886	153886	153942	153886	153773	153773	153681	153325	152878	152375	152041	151818	151597	151319	151097	150653	150046	149549	148999	148396	147903	147357	146757	146161	145618	144969	144215	143570	
1993	372003	373779	375277	376781	379606	381779	383768	385477	387094	388812	390819	393119	395523	397933	400351	402387	403941	405403	406963	408724	409604	410192	411075	412154	413433	414910	416191	416883	416982	416883	
1994	259394	260396	261093	261789	262177	262332	262099	261633	261015	260551	260242	259932	259471	258777	258007	257086	256089	254943	253801	252507	251143	249707	248350	246924	245502	244234	242820	241338	239714	238022	
1995	410290	414022	418367	423031	428818	434445	439295	442748	445294	448154	451740	456168	461132	465393	468732	471768	474393	476286	477549	478605	479451	479663	480718	482942	486341	490285	493813	496925	500910	505016	
1996	531213	531988	533322	534989	537105	539228	541464	543480	545277	546624	546849	546624	545949	545724	545724	545499	544603	543480	542585	541576	540456	539004	537105	535212	533433	530991	528773	526562	524356	522044	
1997	484003	486447	488790	490499	491566	491994	491887	491780	491673	491673	491566	491245	491138	491352	491673	491352	490710	490392	490392	490710	491031	490924	490499	489644	488576	487512	486234	484854	483366	481566	
1998	456785	458543	460821	462376	463729	465289	467582	469672	471664	473867	476181	477760	479240	480295	482729	487193	492315	496710	501126	505775	509790	513605	516557	518967	522044	525460	528001	530547	533322	535769	
1999	329072	330300	331357	332236	333031	333738	334181	334267	333827	333561	333028	333119	332943	332766	332413	331974	331533	330828	330916	331357	331445	331180	330564	329687	329072	328633	327931	326970	325834	324527	
Max.	538781	543817	547750	551356	553732	555656	556902	557469	558492	559175	559741	565899	570483	575773	581783	587240	593893	600343	606239	610384	613828	617043	620146	622178	623737	625174	626376	627335	628057	628177	
Min.	27558	28178	28656	29323	30413	32340	34708	37154	39058	40920	41975	42720	43092	43208	43347	43557	43464	43347	43255	43231	43208	43208	42999	42650	42254	41812	41279	40741	40292	39753	
Ave.	287311	289486	291521	293369	295165	296850	298522	300028	301388	302670	303784	304801	305600	306339	306938	307443	307779	307977	308216	308473	308623	308684	308696	308536	308323	308083	307886	307621	307207	306715	

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

JULY

Units in acre-feet

Year	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
1954	68240	67019	66524	66392	65259	64329	63647	63089	62686	62110	61270	60280	59500	58833	58137	57470	56687	55816	54920	54052	53152	52342	51478	50658	49878	49260	48578	47876	47084	46388	45456
1955	39372	38886	38473	37955	37283	36519	35830	35204	34588	34147	33565	32963	32302	31723	31280	30802	30487	30228	29970	29730	29471	29175	28903	28603	28284	27948	27523	27089	26650	26209	25804
1956	282874	282714	282077	281200	280171	279308	278524	277582	276483	275385	274207	272641	271096	269243	267390	265536	263782	262187	260743	259984	259908	259604	258996	258692	257933	257402	257253	256506	255535	254041	252471
1957	180670	179930	179251	178201	177399	176473	175552	174522	173494	172283	170770	169087	167129	165053	162934	161772	161074	160260	159447	158517	157538	156571	155662	154695	153672	152705	151694	150861	149971	148859	147604
1958	449700	447892	446386	445884	444879	443775	442469	440674	438391	435612	432634	429584	426642	423503	419899	416313	412727	410424	407265	404392	401534	399358	396805	394251	391436	388446	385550	382577	379069	375839	371722
1959	137507	134631	131795	129209	126096	123940	120818	117734	114693	112019	111110	110305	109365	108379	107395	106428	105426	104468	103554	102770	101964	101117	100226	99252	98366	97585	96925	96267	95443	94703	94053
1960	80114	79459	78813	78179	77510	76876	76277	75539	74756	73938	73020	72036	71047	70058	69102	68104	67082	65996	64995	64097	63292	62460	61681	60931	60152	59408	58625	57871	57146	56430	55729
1961	49169	48648	48093	47567	46990	46489	45990	45556	45097	44567	44012	43440	42743	42092	41417	40785	40112	39439	38777	38063	37391	36727	36102	35476	34769	34106	33504	32902	32302	31665	31029
1962	173070	172404	171617	171012	170285	170709	170406	169801	169146	168137	166655	164993	163689	162004	160435	158924	157481	155946	154410	152876	151138	149582	147804	146041	143978	141645	139254	136925	134477	132207	129811
1963	369170	369170	368987	368805	368440	367984	367619	367437	367255	367255	367437	367802	367802	367619	366982	366526	365614	364264	362912	361382	359761	358320	356699	354830	352962	350828	348515	346222	343762	341215	338758
1964	173494	171859	170225	168493	166833	165112	163282	161423	159389	157253	155150	152989	150694	148359	146149	144032	141971	139942	138036	136237	134425	132672	130918	129359	127903	126799	126146	125551	124819	124037	123159
1965	283192	283990	285027	285903	286700	287497	288215	288694	288937	288937	288613	288055	287577	287178	287019	287099	287338	287736	287418	286700	285824	284628	283511	282555	281598	280250	278838	277346	275934	275463	275463
1966	188645	187251	185799	184165	182476	180671	178938	177276	175561	173855	171977	170111	168198	166415	164760	163174	161713	160085	158525	156803	154921	153053	151198	149748	148360	146872	145229	143652	142194	140905	139678
1967	481816	488526	494435	502621	508724	512598	516271	518305	521370	522893	524201	525620	527369	529559	531864	534174	536268	537262	537593	538698	538035	537041	535717	534504	533293	532413	531205	529699	528573	527697	526275
1968	223721	221845	219978	218257	216543	214769	212934	211041	209022	206947	204884	202699	200724	198498	196415	194409	192477	190620	188836	187251	185610	183914	181977	179804	177829	175744	173916	172098	170652	169213	167899
1969	570688	573882	575253	576168	576626	577084	577199	577428	577428	577314	576970	576397	576970	578116	577428	576512	575024	573539	572284	571144	570005	570232	568867	566936	565121	562744	560710	558567	556541	554183	551493
1970	315949	315022	314098	313090	311917	310496	308912	307497	306087	305093	304101	302698	301053	299494	297857	295981	294355	292815	291199	289587	287820	285818	283666	281443	279383	277498	275380	273194	270785	268234	265849
1971	234944	234015	233230	232376	231382	230107	228765	227288	225745	224209	222747	221291	219840	218257	216817	215177	213748	212528	211311	209828	208218	206614	204817	203095	201381	199544	197716	195896	193957	191900	189918
1972	112258	111166	110083	108962	107804	106567	105339	104208	102998	101798	100565	99342	98004	96720	95406	93983	92374	91140	89683	88048	86702	85446	84391	83345	82198	80953	79866	78861	77936	77019	76040
1973	398974	397933	396516	395195	393783	392091	390685	388907	386946	385084	383133	380910	378417	375840	373181	370166	367163	364173	362908	360385	357064	353491	350645	346927	344195	340774	337195	333721	329835	326228	322896
1974	470913	470191	469160	468028	466583	465049	463512	461262	459426	457187	455055	452726	450504	448288	446178	444073	441773	439579	437391	434912	432341	430172	427910	425948	424382	422331	420091	417663	415242	412925	410999
1975	337282	336064	335022	333461	332078	330696	329404	328029	326571	325115	323152	321195	319582	317721	314434	312420	310162	307830	305507	303028	300560	298102	295575	292815	289989	287098	284223	281364	278442	275537	272805
1976	130995	129436	128037	126550	124779	122829	120756	118705	116676	114669	112869	110904	108873	107176	105717	104401	103227	102060	100860	99585	98446	97107	95739	94343	93163	92073	91272	90355	89722	89170	88737
1977	78023	77521	76878	76133	75392	74691	73891	73053	72070	71053	69945	68949	67831	66791	65762	64808	63894	62928	61941	61025	60209	59342	58513	57808	57052	56360	55675	54966	54237	53514	52799
1978	485035	485874	486084	486294	486294	487029	488080	488712	489132	489975	490608	490608	490186	490502	491030	491451	491346	490818	489659	488080	486189	484406	482627	480851	478766	477309	476581	475439	473366	470780	468614
1979	411663	409408	407256	404916	402873	400642	398707	396487	393782	391106	388812	386238	383863	381306	378663	375653	372564	369206	365587	362446	358769	355383	351925	348753	345506	342008	338350	334798	331269	327844	324352
1980	583870	585264	585381	584451	582592	580161	577965	575543	573010	570138	567732	565327	562702	560311	558151	556564	555883	555883	555996	555316	554182	553505	553052	552600	552034	551130	550342	548988	546962	544266	540904
1981	281644	279872	278106	276426	274353	272210	269918	267794	265447	263031	260551	258007	255555	252963	250688	248275	245951	243936	242079	240230	238243	236338	234515	232410	230532	228807	227018	225095	223252	221208	219244
1982	559516	559061	558492	557810	557356	556677	556110	555542	554862	554069	553279	552373	551356	550116	548762	547525	546062	544153	542136	539896	537328	534655	532099	529882	527226	524797	522264	519846	517434	514917	512295
1983	627576	627696	628659	629623	630705	630825	629141	626256	622658	617995	612995	608252	604114	600108	595179	589220	583521	576925	570827	564644	558492	553279	547863	541688	535546	529992	525460	522044	519956	518967	518528
1984	395041	394367	393792	393023	391871	390436	388621	386334	384053	381874	379606	377346	375465	373498	372377	372377	371442	370602	369485	368554	367813	366512	365217	364384	362907	361250	359685	358035	356297	355018	353470
1985	365587	364461	361432	359042	356663	354470	352196	349659	347129	344968	342545	340042	337726	335241	332325	329599	326883	324352	321746	319409	317340	314935	312115	309390	306679	303898	300877	297789	294390	291011	288060
1986	551243	550003	548875	548088	547412	545949	544041	541688	539004	536104	533433	531213	528995	526452	523584	520176	516557	512732	509140	505666	502204	498647	495745	492744	489751	486554	483260	479874	476391	473026	469360
1987	252051	250461	249028	247374	245951	244234	242599	240748	238977	237215	235244	233353	231398	229526	227447	225166	222899	220928	219106	217083	215349	213486	211632	209924	208224	206466	204716	203042	201377	199719	198268
1988	142287	141064	139796	138326	136711	135211	133619	132090	130775	129369	127825	126390	124820	123215	121672	120285	118767	117308	115677	113923	112142	110380	108727	107178	105645	104299	103223	102069	100967	99999	99120
1989	171438	170717	169879	168984	168091	167025	165668	164026	162568	161235	159966	158704	156765	155293	153998	152711	151208	149825	148341	146866	145456	144161	142875	141436	139849	138326	136763	135314	133926	132497	130977
1990	89189	88648	88071	87459	86810	86129	85338	84478	83771	83328	82739	82116	81534	80882	80304	79659	78947	78169	77326	76489	75797	75006	74222	73444	72537	71772	70979	70192	69445	68606	67775
1991	170597	170179	169939	169760	169580	169222	168806	168151	167262	166374	165492	164669	163909	163149	162219	161061	159851	158646	157560	156765	155745	154616	153437	152097	150598	148999	147357	145781	144054	142340	140695
1992	142768	142022	141171	140271	139481	138693	137908	137074	136347	135726	134953	134285	133721	133210	132548	131787	130876	129921	128820	127626	126390	124967	123700	122635	121672	120715	119571	118296	116982	115492	114015
1993	416883	416784	416784	416685	416388	416388	416290	416191	415996	415897	415699	415206	414219	412646	410761	409016	407061	404916	402582	400157	397740	395234	392831	390723	388908	386810	384623	382345	380076	378003	376123
1994	236625	234442	232482	230460	228592	226732	224811	222828	220717	218546	216388	214243	212043	209924	207817	205724	203711	201643	199521	197478	195516	193693	191946	190144	188289	186381	184549	182604	180609	178627	176658
1995	509249	513168	517105	521713	526231	530880	534989	538445	542694	546512	548649	549552	549552	549439	549213	549213	549777	551921	551921	551020	550342	550229	549326	548201	546512	544378	542024	540456	539116	537775	535992
1996	519956	517653	515133	512732	510117	507509	504907	502204	499399	496280	493491	490924	488576	486234	483579	480507	477549	474393	471244	468314	465184	461753	458129	454414	450920	447642	444784	442035	439194	436463	433540
1997	479557	477549	475443	473657	472083	469986	467791	465601	463104	460406	457819	455651	453695	451432	448769	445907	442850	440107	437879	435556	432835	430323	428019	426618	424723	422632	420348	417971	415600	413040	410388
1998	537775	540008	542136	543929	544828	545612	546399	547525	549439	551695	553166	553955	555089	556223	557469	558492	559403	560652	561564	561906	562134	561906	562362	562474	562020	560994	559855	558606	557015	555089	552939
1999	322962	321399	319755	317857	316224	314508	312625	310835	308881	307271	306004	304738	303393	301965	299873	297789	295713	293893	292162	290436	288551	286755	285291	283991	282696	281162	279389	277146	274672	272289	270313
Max.	627576	627696	628659	629623	630705	630825	629141	626256	622658	617995	612995	608252	604114	600108	595179	589220	583521	576925	572284	571144	570005	570232	568867	566936	565121	562744	560710	558606	557015	555089	552939
Min.	39372	38886	38473	37955	37283	36519	35830	35204	34588	34147	33565	32963	32302	31723	31280	30802	30487	30228	29970	29730	29471	29175	28903	28603	28284	27948	27523	27089	26650	26209	25804
Ave.	306159	305621	305012	304406	303633	302765	301777	300641	299431	298173	296849	295439	294035	292621	291096	289592	288060	286569	285018	283412	281719	280066	278379	276697	274974	273198	271454	269691	267884	266099	264310

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

AUGUST

Units in acre-feet

Year	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
1954	44513	43448	42436	41226	40016	38770	37830	37279	36418	35536	34740	33880	33010	32269	31566	30882	30160	29495	28878	28338	27852	27438	27114	26753	26286	25783	25290	24899	24508	24083	23573
1955	25439	25100	24648	24212	23847	23847	24115	24115	24051	23816	23585	23339	23123	22784	22342	21886	21490	21123	20723	20318	19926	19522	19243	19030	18869	18763	18750	18750	18710	18683	18657
1956	250828	248831	246920	244863	242659	240492	237964	235435	232949	230606	227914	225261	222538	219704	216821	213880	210912	208010	205154	202170	199610	198698	197655	196548	195440	194337	193121	192032	190880	189727	188639
1957	146803	145715	144684	143490	142242	141212	140100	139095	138142	137454	136660	135920	135199	134477	133600	132826	132001	131125	130162	129359	128456	127552	126799	126046	125258	124379	123500	122671	121889	121255	120866
1958	367437	363363	359220	355275	351362	347715	344641	341742	338844	335809	332513	329402	326320	323409	320430	318149	315362	312834	310335	307585	304509	301634	298677	295816	292984	289989	287099	284229	281678	279465	277346
1959	93334	92614	91734	90935	89987	89133	88436	87738	87000	86233	85516	84954	84315	83751	83187	82554	81899	81316	80734	80333	80005	79750	79568	79350	79095	78884	78637	78426	78215	78073	77862
1960	55001	54244	53475	52717	52014	51284	50525	49664	48779	47868	46839	45869	45025	44277	43674	43115	42604	42068	41557	41100	40696	40269	39798	39259	38799	38430	38063	37694	37305	36980	36644
1961	30506	29952	29415	28921	28532	28160	27806	27434	27038	26667	26531	26788	26751	26650	26430	26192	25871	25520	25293	25116	24970	24890	24954	25068	25164	25132	25100	24987	24841	24648	24390
1962	129158	128707	128054	127351	126749	126046	125209	124428	123500	122964	122280	121547	120866	120201	119632	119015	118493	117971	117450	116880	116215	115523	114877	114324	113771	113218	112618	112019	111334	110842	110394
1963	336156	333640	330952	328289	325721	323238	320937	319501	318572	316967	315108	312667	310335	307668	304837	301962	299170	296059	293226	290232	287258	284069	281120	278367	276012	273345	270710	267930	265536	263250	260591
1964	122182	121206	120248	119490	118635	117829	117307	116642	115891	115108	114186	113356	112664	112019	111468	110887	110260	109722	109051	108469	107931	107350	106732	106123	105426	104773	104119	103510	102988	102429	101837
1965	275463	274835	273737	272486	271251	270169	268934	267699	266231	264769	263858	263934	263782	263250	262566	261883	261047	260060	258996	257705	256357	254937	253667	252396	251127	249933	248757	247435	246259	244937	243541
1966	138353	137508	136302	135049	133806	132569	131289	130019	128606	127203	125712	124381	123158	121992	120690	119444	118161	116700	115485	114233	113082	111848	110669	109499	108249	107052	106040	104990	103862	102913	101970
1967	524419	522240	519848	517137	513893	510552	506900	503048	499104	494330	489262	484222	478688	473083	467410	461569	454954	448690	441973	435308	428499	421746	414855	408024	401821	396705	391435	386108	381280	377035	372815
1968	166474	164937	163408	161771	160085	158237	156459	154410	152433	150472	148582	146542	144520	142517	141066	139413	137772	136144	134686	133135	131749	131137	130577	130120	129715	129260	128756	128404	128103	127903	127703
1969	551157	548810	545800	542243	538256	534174	531534	528682	523983	519305	515730	511952	507436	503689	499424	495601	491582	487474	483175	478896	474326	469778	465151	460548	456171	451412	447282	443372	439380	435506	431650
1970	263477	261041	258618	255983	253286	250535	247799	245006	242014	239186	236449	233586	230956	228343	225815	223443	221084	218945	216612	214224	212054	209963	207883	205948	204088	202237	200396	198890	197650	196415	195184
1971	187821	185862	183789	181603	179618	177644	175744	173794	171857	169871	167899	165822	163936	162296	160607	158813	156917	155091	153222	151422	149803	148305	146982	145884	144792	143814	142840	142086	141334	140531	139678
1972	74967	74041	73191	72348	71512	70617	69697	68752	67784	66793	65812	64747	63693	62712	61922	61169	60512	59859	59210	58538	57870	57351	56380	55505	54694	53975	53480	53207	52908	52690	52528
1973	319837	317214	314686	312336	309912	307497	305341	302863	300314	298021	295981	293869	291602	289185	286618	284303	283268	280651	277970	275537	272805	270397	267540	265159	263172	261193	259374	258014	256659	255232	253835
1974	409174	407545	404677	402201	399922	397644	395007	392373	389842	386760	384247	381465	378694	375932	373181	370348	367618	364806	361736	359216	356616	354115	351800	349847	347634	345340	342702	340161	337543	335109	332942
1975	270088	267386	264700	261877	258920	255983	253064	250312	247799	245299	242742	240199	237455	234801	232305	229753	226866	223791	221014	218463	216133	213952	211986	210098	208084	206014	203889	201974	200527	199282	198041
1976	88346	87760	86945	86096	85330	84530	83848	83095	82272	81566	80900	80275	79617	79071	78456	77879	77270	76700	76062	75603	75111	74552	73995	73338	72548	71934	71357	70884	70414	69879	69214
1977	51981	51227	50427	49588	48751	47546	46412	45446	44470	43653	42964	42494	42074	41634	41221	40924	40878	40765	41015	41083	41106	41083	40947	40742	40561	40335	40110	39886	39663	39441	39242
1978	466556	464400	461839	459388	457045	454607	451973	449549	446728	444118	441415	438621	435736	432861	429503	426158	422826	419898	416979	414362	411367	408671	405697	402734	399877	397505	394856	392499	390055	387899	385843
1979	320707	317168	313566	309815	306340	302720	299123	295713	292162	288633	285372	282210	278989	275946	273083	270234	267558	265134	262332	259548	256703	253801	251067	248576	246474	244680	242894	241042	239345	237802	236631
1980	537775	534766	531435	528222	524356	520286	516009	512079	508379	504149	500046	495638	490617	485808	480930	476391	471768	466955	462169	457198	452254	447745	443359	438788	433941	429119	424025	419257	415008	411564	408528
1981	217432	215626	213692	212043	210470	208836	207142	205522	203711	201776	200050	198532	196955	195579	194082	192591	191107	189631	188161	186762	185623	184928	184299	183481	182604	181729	180920	180236	179555	178688	178011
1982	509249	505992	502420	498860	495208	491780	488790	485808	482520	478711	474709	470615	466955	463416	459888	456478	452871	449176	445396	441629	437980	434243	430725	427419	424224	421043	418169	415798	413433	410781	408137
1983	519516	521933	524245	525128	522925	520943	519297	518857	518309	518857	519077	518309	517653	516557	516338	516338	515790	515024	516776	518089	517653	516338	514042	511207	507726	504799	501879	498753	494993	492101	489323
1984	351834	349928	347939	345866	343889	341650	339239	336570	333827	331357	328721	326358	323656	321225	319582	317944	316310	314764	313823	313053	312200	311346	310326	309050	307949	306594	305076	303729	302217	300542	298790
1985	285291	282858	280839	278829	276746	274035	271340	268816	266541	264354	262254	259932	257624	255402	253267	251370	249632	247975	246251	244458	242671	240748	238905	237215	235461	233714	232047	230316	229022	227518	226163
1986	465601	462065	458336	454723	451229	447438	443764	440107	436584	433036	429822	426818	423825	420845	417971	414910	411957	408918	406086	403360	400448	397643	395041	392447	389862	387094	384433	381685	379040	376781	374623
1987	197086	195775	194342	193044	191688	190208	188864	187587	186191	184738	183167	181604	180236	178997	177949	176781	175497	174157	172643	171559	170717	169999	169222	168389	167616	166907	166197	165550	164904	164377	163850
1988	97999	97050	96027	95011	94204	93360	92683	92850	90944	90161	89460	88725	88148	87534	86925	86356	85638	84925	84217	83587	82886	82116	81570	81243	80989	80882	81025	80989	80882	80845	80629
1989	129469	127974	126588	125359	124284	123119	121817	120142	118578	117543	116561	115585	114429	113190	112052	111011	110112	109395	108771	108194	107575	107002	106388	105776	105296	104862	104429	103954	103524	103094	102794
1990	68888	65979	65202	64647	64095	63486	62881	62281	61585	60915	60241	59572	58879	58221	57540	56921	56418	55863	55313	54711	54222	53899	53630	53389	53175	52962	52671	52353	52038	51724	51515
1991	138955	137178	135417	133721	131989	130323	128570	126738	124918	123071	121288	119525	117637	115817	114061	112507	111327	110246	109173	108327	107796	107222	106739	106169	105601	104992	104429	103954	103567	103223	103009
1992	112688	111373	110067	108818	107442	106125	104776	103438	102155	100840	99915	99204	98537	97874	97380	97050	96435	95538	94727	94204	93661	93121	92603	92206	91810	91455	91062	90669	90317	89966	89615
1993	374060	371629	369020	366512	364014	361618	359685	357669	355566	353288	351017	348844	346768	344968	343171	341202	339150	337282	335241	333119	331357	329511	327583	325572	323308	321139	319323	317599	315794	313737	311773
1994	174583	172402	170238	168151	166138	164143	162103	160024	157960	155915	153886	151985	150322	148615	146812	145077	143410	141915	140642	139534	138535	137543	136503	135314	134183	133108	132192	131432	130624	129870	129120
1995	533544	530547	526783	522925	519407	515462	510989	506534	501988	496925	492208	487406	482414	477655	472501	466854	461340	456374	451843	447540	443664	439904	436260	433036	429721	426418	422931	419356	415798	412351	409016
1996	430424	427419	424423	421439	418466	415008	411564	408332	405111	401804	398610	395523	392351	388908	385286	381874	378851	375935	372845	369765	366791	364199	361800	359410	356936	354470	352107	349749	347400	345148	343084
1997	407647	404721	401610	398513	395330	392351	389290	386238	383199	380265	377158	374247	371722	369299	366884	364661	362261	359502	356844	354199	351743	349387	347038	344788	342635	340489	338350	336306	334533	332854	331180
1998	550681	549100	548762	547976	546962	544490	540792	537552	533767	529549	525349	521383	516995	512841	508270	504149	499399	494457	490071	485383	481036	476813	472396	468000	463208	458440	453901	449381	445192	440513	436061
1999	268344	265914	263420	261015	258623	256473	254638	252811	250840	248726	246624	244829	243266	242005	240378	238243	236265	234515	233135	231903	230748	229597	228233	226661	225166	223819	222688	221489	219804	217988	216458
Max.	551157	549100	548762	547976	546962	544490	540792	537552	533767	529549	525349	521383	517653	516557	516338	516338	515790	515024	516776	518089	517653	516338	514042	511207	507726	504799	501879	498753	494993	492101	489323
Min.	25439	25100	24648	24212	23847	23847	24115	24115	24051	23816	23585	23339	23123	22784	22342	21886	21490	21123	20723	20318	19926	19522	19243	19030	18869	18763	18750	18750	18710	18683	18657
Ave.	262582	260848	259003	257122	255156	253128	251138	249213	247162	245108	243108	241129	239123	237158	235198	233282	231349	229402	227547	225734	223925	222209	220487	218797	217120	215488	213892	212362	210881	209471	208115

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

SEPTEMBER

Units in acre-feet

Year	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
1954	23182	22774	22355	21980	21590	21200	20788	20410	19962	19500	19092	18684	18384	18000	17712	17364	17023	16715	16418	16187	15934	15659	15384	15054	14735	14449	14163	13877	13591	13349	
1955	18643	18617	18590	18550	18324	18080	17877	17625	17347	17044	16646	16287	16012	15773	15626	15469	15333	15232	15187	15176	15165	15154	15131	15120	15097	15086	15029	14916	14815	14714	
1956	187562	186494	185550	184482	183413	182219	180855	179621	178448	177337	175856	174704	173494	172222	170891	169680	168612	167426	166001	164696	163457	162295	161074	160086	158982	157822	156799	155776	154695	153728	
1957	120343	119869	119300	118683	118066	117402	116785	116168	115523	114923	114370	113863	113448	113079	112711	112296	111973	111650	111379	111065	110797	110529	110215	109901	109499	109141	108693	108290	107842	107439	
1958	275463	273580	271637	269397	267544	265845	264313	263478	262718	261807	260743	259528	258465	257402	256506	255236	253966	252695	251201	249933	248537	246994	245671	244496	243541	242442	241575	240636	239625	238614	
1959	77616	77264	76912	76559	76277	75995	75749	75539	75403	75232	75130	75198	75266	75198	75130	75028	74994	74960	74926	74892	74824	74790	74756	74688	74654	74586	74484	74416	74347	74313	
1960	36331	35997	35768	35559	35330	34996	34688	34428	34207	34066	33966	33946	33906	33766	33484	33303	33143	32963	32764	32552	32321	32090	31877	31704	31530	31357	31164	30971	30802	30654	
1961	24099	23893	23677	23416	23092	22738	22357	21960	21564	21123	20667	20234	19954	19786	19618	19442	19283	19269	19230	19150	19057	18963	18856	18803	18790	18710	18643	18550	18431	18364	
1962	109946	109409	108782	108110	107395	106732	106036	105426	104817	104163	103467	102857	102133	101540	100990	100481	99930	99370	98914	98575	98202	97790	97420	97008	96638	96226	95814	95526	95320	95114	
1963	258920	257253	255385	253891	252396	251201	250305	249271	248096	246626	245084	243541	242009	240636	239119	237674	236374	235293	234725	233731	232665	231245	229966	228475	226657	224982	223097	221077	219086	217027	
1964	101455	101286	101244	101159	101074	100947	100778	100566	100396	100226	100099	99888	99591	99295	99083	98787	98532	98366	98243	98078	97955	97790	97667	97543	97461	97379	97255	97131	97049	96967	
1965	242154	240853	239552	238325	237097	235724	234441	233304	232239	231174	230109	228922	227914	226657	225400	224004	222817	222049	221008	220322	219361	218331	217233	216066	214761	213475	212126	210777	209764	208954	
1966	101330	100862	100439	99974	99553	99007	98422	97963	97423	96968	96472	95979	95447	95039	94713	94347	94023	93579	93297	92975	92654	92374	92095	91736	91299	90863	90469	90076	89605	89175	
1967	368436	364987	361285	357691	354472	351000	347280	343316	339462	335543	331732	328544	325201	322130	319159	315949	313007	310246	307414	304679	301875	299084	296470	293869	291360	288702	285978	283030	279861	276712	
1968	127502	127203	126904	126555	126208	125910	125663	125416	125120	124837	124627	124431	124185	124087	123940	123891	123793	123598	123451	123207	123061	123012	122963	122915	122866	122817	122671	122574	122380	122186	
1969	427910	424382	420772	417178	413793	410518	407449	404677	401821	399069	396610	394253	391810	389187	386667	384061	381558	378970	376392	373913	371626	369619	367345	365259	363360	361105	358857	356706	355186	354382	
1970	183828	182477	181196	179600	178519	177378	176303	175232	174227	173413	172725	171915	171044	170175	169185	168383	167563	166723	165866	165133	164524	163916	163127	162521	161796	161254	160772	160277	159692	159093	
1971	138882	138088	137561	137035	136511	135988	135466	135049	134582	134064	133599	133083	132620	132056	131340	130577	129968	129260	128605	127953	127502	127003	126555	126059	125515	125021	124726	124332	124038	123744	
1972	52528	52528	52501	52420	52339	52258	52555	52663	52663	52582	52474	52447	52420	52366	52312	52231	52150	51989	51855	51748	51641	51508	51321	51135	51003	50844	50739	50633	50528	50397	
1973	252915	252170	251129	250164	248980	247799	246474	245373	244128	242814	241577	240271	239186	237959	236880	235731	234729	233729	232732	231665	230956	230107	229471	228554	228061	227358	226516	225675	224488	223443	
1974	330869	328802	326399	323834	321280	318905	316707	314434	312169	309912	307747	305590	303440	301464	299740	297939	296307	295005	293625	292491	291521	290392	289667	288381	287018	285579	284223	282791	281285	279624	
1975	196675	195443	194280	193184	192285	191324	190492	189727	189154	188709	187884	187188	186556	185862	185169	184451	183851	183225	182538	181852	181292	180485	179804	179185	178568	178013	177460	176907	176417	175866	
1976	68487	67799	67148	66565	66083	65507	65061	64681	64523	64713	65316	67375	68257	68553	68619	68588	68553	68520	68553	68553	68520	68520	68520	68586	68520	68520	68520	68487	70012	70280	
1977	39088	38934	38780	38649	38540	38453	38323	38193	38085	37977	37826	37762	37633	37462	37356	37228	37143	37101	37016	36932	36848	36784	36721	36700	36658	36595	36533	36491	36407	36386	
1978	383979	382213	380543	379061	382120	388461	391652	393158	394196	394573	395139	395423	395234	394478	393441	392687	391276	390055	388555	386871	385097	383421	381563	379709	377860	375924	374176	372158	370237	368230	
1979	235607	234806	233932	233062	232265	231543	230748	230172	229454	228735	227948	227089	226234	225451	224811	224102	223323	222547	221841	221208	220576	219874	219314	219036	218686	218546	218337	217918	218057	218267	
1980	405306	401901	398417	394945	391778	388908	386238	383483	380927	378474	376029	373685	371536	369206	366791	364569	362261	359594	357119	354562	352377	350019	347400	344878	342456	340042	337637	335330	332854	330388	
1981	177334	176720	176292	175925	175741	175558	175436	175191	174949	174827	174705	174522	174279	174097	173975	173793	173672	173430	173188	172946	172704	172402	172281	171980	171920	171920	171920	171800	171619	171498	
1982	405696	403360	401224	399479	397740	395812	393600	391480	389099	387189	385382	383388	381117	378663	375935	373404	371069	369020	366791	364661	362538	360421	358219	356480	358402	369020	374247	375559	376029	375465	
1983	486660	484322	481778	478817	475654	472186	468837	465601	462688	459784	456992	453901	450612	447642	444580	441527	438487	435455	432332	429119	425821	422632	419158	416094	412646	409212	405696	402096	399092	396391	
1984	297625	296627	295550	294390	293234	292079	291011	290271	289453	288469	287570	286755	285859	285372	285209	284965	284965	284803	284722	284315	284234	283991	283263	282615	281887	281081	280355	279631	278748	277545	
1985	224740	223394	221982	220928	220155	219594	219106	218546	217778	216805	216180	215833	215626	215280	214934	214381	213417	212660	212181	211495	211015	210197	209311	208360	207546	206668	205656	204985	204313	203510	
1986	372377	370231	367906	365773	364014	362446	360697	358677	356663	354835	353197	351571	349840	348211	346497	344698	343261	341739	340221	338882	337637	336306	334887	333915	332413	331180	330212	329072	328019	326970	
1987	163383	162743	162045	161640	161177	160714	160253	159909	159563	159161	158704	158417	158131	157789	157389	156992	156537	156084	155745	155293	154954	154559	154111	153605	153157	152822	152487	152152	151708	151208	
1988	80268	80089	79982	79803	79481	79089	78734	78415	78169	77922	77746	77535	77396	77256	77151	77046	76906	76697	76489	76212	75935	75762	75625	75522	75384	75281	75178	75178	75109	75075	
1989	102582	102368	102069	101771	101475	101094	100798	100503	100251	99999	99789	99579	99329	99037	98828	98912	98787	98828	98828	98745	98662	98495	98289	97874	97503	97091	96681	96190	95864	95497	
1990	51437	51359	51255	51125	50996	50867	50712	50558	50404	50250	50097	49893	49689	49538	49336	49209	49159	49083	49033	49008	48983	48933	48908	48908	48883	48833	48783	48783	48783	48758	
1991	102794	102709	102453	102155	101942	101814	101686	101644	101518	101306	101221	101094	100925	100798	100713	100629	100461	100377	100251	100083	99747	99455	99204	99037	98912	98703	98579	98495	98413	98330	
1992	89344	89034	88802	88570	88379	88225	88032	87879	87802	87687	87572	87459	87344	87268	87153	87039	86886	86734	86696	86544	86356	86129	85789	85488	85150	84813	84552	84403	84254	84105	
1993	309986	308204	306594	305076	303645	302300	300877	299374	297873	296544	295301	294141	292904	291505	290107	288633	287327	286185	285128	283991	282858	281644	280355	279070	277865	276666	275150	273637	271972	270313	
1994	128371	127626	126883	126193	125506	124869	124284	123700	123071	122587	122153	121769	121432	121145	120857	120667	120476	120285	120047	119761	119430	119145	118956	118767	118625	118483	118389	118201	118060	118296	
1995	405891	403360	401030	399576	397547	395041	392543	390149	387762	385191	382535	379890	377158	374529	371909	369392	366884	364106	361339	358861	356663	354744	352832	350926	348753	346407	344069	341560	339507	337548	
1996	341292	339328	337282	335153	332854	330740	328808	326883	324963	322962	320967	318893	316996	315193	313395	311432	309560	307864	306089	304233	302552	300961	299374	297625	295796	294059	292491	290929	289453	288060	
1997	329335	327756	327320	326183	324876	323743	322353	320621	318977	317254	315450	313908	312710	311517	310071	308711	307441	306256	304991	304064	303141	302217	301128	300040	299290	298706	298206	297625	296793	295879	
1998	431929	428119	424324	421538	419356	417080	414712	412154	409800	407452	405111	402970	400545	397837	395426	393119	390723	388430	386429	384528	382440	380455	378474	376687	374716	373123	371536	369858	368092	366420	
1999	215211	213899	212729	211637	211152	210265	209242	208157	207006	205724	204447	203310	202174	201177	200183	199190	198071	197086	196168	195189	194277	193369	192591	191881	191236	190594	189823	188928	188034	187207	
Max.	486660	484322	481778	478817	475654	472186	468837	465601	462688	459784	456992	453901	450612	447642	444580	441527	438487	435455	432332	429119	425821	422632	419158	416094	412646	409212	405696	402096	399092	396391	
Min.	18643	18617	18590	18550	18324	18080	17877	17625	17347	17044	16646	16287	16012	15773	15626	15469	15333	15232	15187	15176	15165	15154	15131	15120	15097	15086	15029	14916	14815	14714	
Ave.	206855	205677	204512	203390	202418	201512	200555	199588	198618	197642	196697	195816	194901	193971	193044	192114	191209	190332	189468	188609	187789	186947	186094	185268	184510	183946	183271	182507	181745	180989	

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

OCTOBER

Units in acre-feet

Year	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
1954	13110	12900	12674	12465	12243	12000	11777	11512	11317	11122	10943	10790	10710	10694	10718	10742	10774	10799	10816	10824	10824	10816	10816	10816	10816	10816	10841	10867	10900	10900	10900
1955	14614	14529	14434	14360	14317	14264	14264	14264	14264	14254	14233	14211	14201	14180	14158	14148	14127	14106	14085	14064	14043	14032	14011	14000	13990	13969	13947	13937	13916	13894	13873
1956	152591	151583	150750	149916	149193	148359	147971	147415	146748	146095	145390	144901	144358	143761	143273	142676	141971	141053	140206	139518	138618	137666	136819	135972	135147	134373	133806	133188	132878	132775	132775
1957	106994	106558	106079	105644	105209	104773	104381	104076	103858	103684	103510	103380	103336	103336	103293	103249	103206	103075	102944	102857	102726	102599	102472	102429	102387	102387	102387	102387	102344	102260	102217
1958	237313	236302	235579	234796	233873	232807	231813	230748	229753	228759	227775	226657	225540	224353	223097	221700	220322	218811	217370	215929	214487	213205	212193	211586	210709	209967	209089	208213	207342	206679	206083
1959	74245	74177	74109	74073	74006	73938	73904	73838	73768	73700	73666	73632	73598	73564	73530	73462	73428	73360	73292	73224	73190	73122	73088	73020	72985	72917	72849	72815	72747	72679	72610
1960	30543	30432	30302	30173	30062	29970	29933	29915	29896	29878	29859	29822	29804	29785	29767	29748	29730	29711	29693	29674	29656	29637	29619	29582	29563	29526	29508	29489	29452	29452	29434
1961	18364	18364	18364	18351	18324	18298	18271	18231	18193	18168	18143	18118	18105	18092	18092	18080	18054	18029	17991	17953	17902	17877	17852	17839	17814	17789	17764	17751	17739	17713	17701
1962	94826	94373	93973	93573	93134	92774	92374	92014	91654	91095	90535	89987	89521	88978	88630	88203	87815	87427	87039	86690	86308	86045	85857	85631	85443	85255	85142	84992	84954	84842	84766
1963	214556	212126	209899	207409	205287	202899	200653	198438	196418	194465	192864	191392	189984	188639	187060	186368	186620	186431	185739	185048	184293	183350	182533	181719	180855	179868	179127	178818	178201	177646	177090
1964	96884	96843	96802	96720	96638	96596	96514	96391	96226	96144	96020	95938	95855	95773	95690	95608	95526	95484	95402	95361	95320	95278	95196	95155	95114	95032	95073	95196	95196	95196	95196
1965	208078	207210	206083	204822	203562	202369	201175	200066	198894	197851	196874	195701	194593	193313	192160	190880	189727	188511	187625	186682	185739	184796	183916	182973	182093	181164	180115	179127	178139	177152	176165
1966	88746	88358	87971	87662	87354	87086	86856	86703	86549	86359	86130	85902	85485	85220	84993	84842	84729	84616	84541	84466	84391	84353	84316	84316	84279	84241	84091	83979	83755	83531	83345
1967	273862	270475	267155	263706	260359	257186	254109	250906	247651	244421	241723	241359	240851	240416	239982	239475	238897	238392	237959	236880	235445	234300	233088	231736	230461	229259	228202	227077	226095	225186	224348
1968	121992	121895	121798	121557	121363	121267	121171	121074	120978	120930	120833	120737	120737	120737	120785	120737	120689	120641	120593	120545	120449	120401	120353	120257	120209	120161	120113	120066	120018	119922	119874
1969	351800	349315	347192	344811	342439	340074	337805	335195	332769	330352	328029	325543	322982	320346	317805	315359	313007	310747	308329	306004	303936	301628	299030	297041	294924	292653	290634	288943	287579	285978	284064
1970	168734	168257	167899	167483	167007	166296	165822	165173	164583	164230	163878	163525	163232	162881	162530	162238	162004	161713	161421	160956	160549	160259	159969	159796	159333	159033	159160	158813	158468	158237	158122
1971	123598	123451	123304	123207	123061	122963	122817	122720	122623	122477	122331	122234	122089	121895	121798	121702	121557	121460	121412	121412	121412	121412	121315	121267	121267	121171	121074	121026	120930	120785	120689
1972	50265	50239	50213	50187	50213	50344	50344	50318	50239	50239	50187	50161	50161	50135	50056	50030	50056	50082	50108	50239	50318	50397	50449	50475	50475	50475	50475	50449	50475	50475	50397
1973	222261	220876	219633	218463	217091	215791	214769	214292	213816	213477	213138	212934	212799	212595	212460	212392	212257	212054	211986	211784	211581	211446	211243	210973	210771	210501	210367	210098	209963	209761	209157
1974	277498	275537	273896	272493	271018	269237	268311	266771	265389	263935	262715	261573	260283	259072	257864	256584	255307	253960	252691	251203	250164	249349	248536	247799	246915	246327	245593	245593	245006	244494	242762
1975	175820	175276	174914	174492	174251	173831	173351	173231	173111	172931	172871	172931	172871	172931	172931	172931	172811	172692	172632	172453	172273	172154	172094	172094	171975	171796	171855	172034	172094	172094	172214
1976	70447	70447	70481	70481	70514	70548	70649	70649	70514	70380	70280	70213	70179	70079	70012	70012	70012	69945	69945	69979	69945	69945	69912	69812	69778	69712	69745	69712	69645	69645	69612
1977	36407	36407	36345	36345	36303	36261	36261	36282	36282	36261	36240	36220	36178	36136	36116	36074	36033	35991	35909	35847	35826	35826	35805	35785	35764	35743	35723	35702	35620	35620	35620
1978	368229	364142	361971	359808	357561	355232	353000	350775	348381	345907	343618	341337	339063	336972	334627	332378	330050	327903	325677	323459	321419	319301	317107	314836	312658	310488	308326	306089	303614	301395	299594
1979	217918	217709	217569	217432	217292	217083	216805	216527	216249	216041	215763	215557	215280	215003	214657	214312	213899	213348	213072	213417	213624	213624	213348	213210	212935	212729	212454	211975	212112	211769	211769
1980	327931	325484	323136	320681	318634	316138	313652	311091	308456	306804	303561	300793	297708	294804	292739	291093	289615	288060	286674	285128	283585	282129	280758	279389	277865	276506	275388	273955	272686	271103	269997
1981	171800	171498	171258	171198	171137	171017	170897	170777	170717	170478	170418	170478	170418	170478	170298	170179	170119	170059	169999	169939	169819	169700	169520	169341	169222	168984	168984	169162	169281	169281	169162
1982	374716	373779	372564	370975	369485	367441	365495	363736	361892	360053	358219	356297	354381	352377	350472	348863	346587	344608	342456	340132	337548	334710	331621	328721	325659	323482	321485	318893	315966	314337	313395
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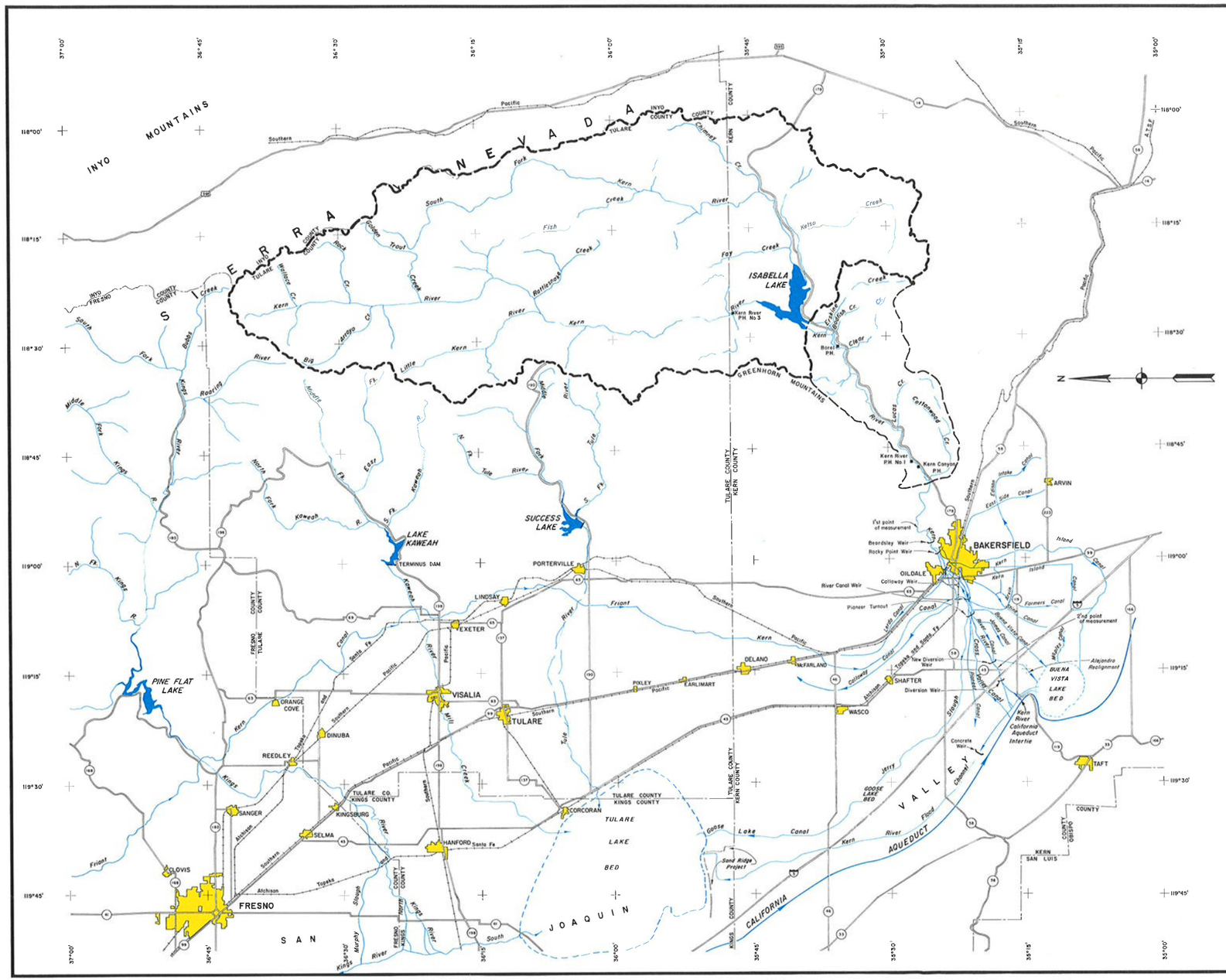
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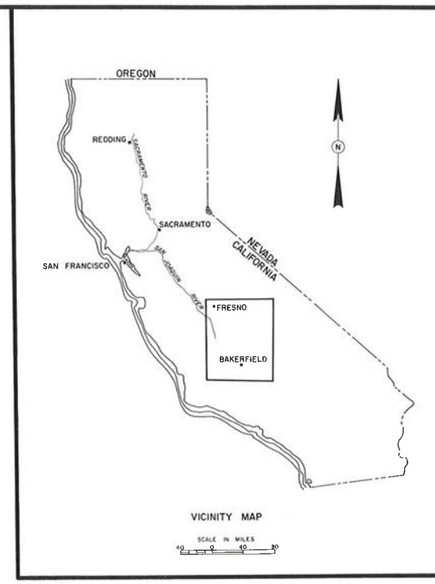
ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

DECEMBER

Units in acre-feet

Year	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
1954	8537	8537	8558	8600	8607	8600	8607	8607	8621	8649	8649	8649	8656	8656	8656	8663	8663	8663	8670	8670	8677	8684	8684	8670	8670	8670	8670	8670	8670	8670	8670
1955	12814	12863	12863	12863	12863	13419	13863	13905	14487	14646	14669	14680	14680	14680	14669	14657	14657	14646	14646	14657	14657	14871	39080	51798	59205	64531	69135	72406	74960	76912	78567
1956	131125	131125	131021	130970	130970	130918	130918	130867	130765	130715	130715	130715	130765	130765	130664	130664	130614	130614	130564	130564	130514	130464	130464	130413	130413	130413	130413	130363	130313	130313	130313
1957	101244	101201	101201	101159	101328	101286	101286	101286	101286	101244	101201	101117	101117	101074	101201	101328	101540	101582	101582	101540	101497	101455	101455	101413	101413	101413	101413	101413	101413	101413	101413
1958	199154	199089	199089	199024	198894	198894	198894	198829	198698	198698	198763	198763	198763	198763	198698	198633	198633	198568	198503	198503	198503	198503	198503	198438	198373	198307	198242	198242	198177	198112	198112
1959	71805	71772	71739	71706	71674	71641	71608	71575	71542	71509	71509	71476	71443	71410	71410	71377	71377	71377	71344	71476	71476	71476	71509	71608	71608	71608	71608	71575	71575	71641	71608
1960	29378	29360	29341	29341	29323	29304	29286	29286	29286	29286	29286	29304	29304	29304	29304	29286	29267	29267	29267	29267	29267	29249	29230	29230	29212	29212	29193	29175	29156	29138	29119
1961	17575	17663	17650	17638	17638	17625	17625	17613	17613	17600	17575	17575	17575	17575	17575	17562	17562	17562	17549	17549	17549	17549	17549	17549	17549	17549	17537	17537	17537	17524	17524
1962	83751	81714	83676	83676	83676	83676	83676	83638	83601	83563	83526	83526	83488	83450	83413	83375	83338	83300	83262	83225	83150	83112	83074	83037	82999	82924	82886	82886	82849	82849	82849
1963	170527	170467	170467	170406	170346	170346	170346	170285	170527	170527	170467	170467	170467	170467	170467	170467	170406	170346	170285	170285	170164	170104	170104	170043	170043	170043	169983	169983	169983	169983	170043
1964	94867	94949	94908	94867	94867	94826	94785	94785	94744	94744	94703	94661	94661	94620	94579	94579	94538	94497	94620	94620	94620	94661	95526	99973	103249	105122	112711	115523	116785	117687	118303
1965	170104	169983	169983	169983	169922	169922	169922	169922	169983	169983	169983	169922	169862	169862	169740	169561	169502	169502	169443	169502	169443	169443	169443	169443	169443	169443	169443	169443	170588	171012	171193
1966	82714	83011	84616	85295	111121	260358	292653	304514	311918	317467	321960	325372	328458	330869	333029	334848	336325	336760	336934	337195	337369	336760	335369	333288	331128	328888	326228	322897	319752	316623	313258
1967	200593	200330	200265	200068	200068	199937	199937	199871	199871	199806	199806	199806	199675	199282	199413	199544	199740	200265	200199	200199	200134	200068	200068	200068	200068	200068	200134	200134	200068	200002	199937
1968	119444	119397	119397	119397	119397	119397	119349	119683	120161	120593	121171	121605	121992	122623	123304	124087	124136	124087	124038	124038	123989	123989	124038	124185	124283	124431	124381	124431	124529	124480	124480
1969	225186	224976	224906	224767	224767	224697	224627	224557	224557	224488	224418	224418	224418	224488	224557	224557	224557	224557	224557	225326	225326	225815	225745	225605	225605	226235	226235	226025	225885	225675	225535
1970	160027	160491	160607	160782	161130	161946	162705	163467	164348	165291	166059	166651	167067	167304	167542	167899	168317	168615	168734	168914	169811	170171	170351	170532	170652	170953	171193	171434	171615	171857	172038
1971	120689	120641	120641	120593	120497	120497	120497	120449	120401	120401	120449	120689	120785	120785	120930	120930	120930	121026	121026	121026	121026	121219	121460	121943	122137	122186	122137	122089	121992	121992	122040
1972	52070	51989	51989	52638	52799	52935	53125	53289	53316	53316	53344	53371	53398	53426	53480	53562	53645	53810	51030	54334	54528	54722	54945	55113	55280	55308	55365	55533	55589	55589	55589
1973	204884	204817	204751	204685	204618	204552	204486	204353	204353	204287	204022	204083	204751	205482	205415	205415	205349	205349	205282	205216	205017	205083	205083	205083	205017	204950	204751	205282	205216	205748	205948
1974	224697	224697	224837	225885	225815	225535	225396	224976	224767	224627	224627	224552	224837	224837	224837	224837	224697	224697	224627	224697	224348	224348	224209	224139	224069	224139	224209	224209	224209	224209	223930
1975	170190	170249	170309	170309	170368	170368	170309	170249	170249	170249	170131	170071	170071	170131	169953	169953	169893	169953	169953	169953	169953	169953	169953	169953	170012	170131	170131	170190	170190	170131	170190
1976	68586	68553	68553	68520	68487	68454	68454	68389	68389	68356	68323	68257	68224	68192	68159	68126	68093	68061	68025	67995	67930	67897	67864	67831	67799	67766	67734	67701	67668	67766	67701
1977	34988	34967	34947	34907	34927	34907	34785	34805	34765	34745	34644	34644	34584	34504	34544	34504	35028	35702	35805	35743	35723	35764	35847	35888	35929	36033	38431	41634	42823	43438	43820
1978	248126	247825	247675	247149	247299	247224	246849	246326	246101	245951	245726	245577	245278	245128	245128	244829	245128	245577	245502	245427	245427	245427	245427	245352	245352	245352	245203	245278	245203	245054	244904
1979	209719	209583	209651	209379	209651	209719	209651	209651	209583	209515	209515	209311	209106	209106	209106	209106	209106	209038	209106	208768	208700	208836	208768	208700	208768	208700	208632	208632	208768	208632	208768
1980	230532	230460	230748	231543	231903	231903	231903	231903	231903	231903	232047	231975	232047	232047	232047	232120	231975	231686	231543	231254	230893	230604	230460	230316	230172	230028	229956	230028	230028	229956	229813
1981	167676	167676	167616	167499	167380	167321	167321	167380	167321	167380	167321	167025	167143	167203	167084	167203	167143	167084	166966	167025	167735	167499	167321	167203	167143	167025	166907	167143	167262	167794	168210
1982	267794	267168	266306	265056	263498	261170	258777	256243	253677	251825	249934	247900	247074	246399	245876	245577	245278	245203	244979	244904	245054	249934	256549	258546	259625	260551	261170	261480	261633	261711	261558
1983	300040	299123	299290	299040	298539	297956	297789	297542	297042	296039	297292	297625	296793	296378	295879	294886	294307	293399	292162	290847	289943	289043	288551	288224	293482	299541	303645	307356	309220	310579	311944
1984	254104	253724	253115	252507	251977	251143	250385	249481	248576	247975	247074	246326	245502	244904	244755	244979	245054	245128	245652	245577	245577	245577	245502	245502	245352	245352	245352	245278	245203	245054	244979
1985	191688	193304	194733	195059	195124	195059	194993	195189	195189	195320	195320	195254	195254	195320	195385	195450	195516	195385	195385	195385	195320	195320	195320	195254	195189	195189	195124	194993	195124	195385	195516
1986	245577	245203	245054	244979	244904	244979	245203	245203	245128	245128	245054	244979	244904	244904	244829	244680	244606	244531	244458	244531	244531	244458	244458	244458	244383	244383	244309	244309	244160	244160	244085
1987	142661	142768	142875	143303	143518	143464	143785	143731	143731	143624	143624	143731	143518	143410	143410	143357	143303	143303	143410	143410	143464	143357	143464	143357	143250	143303	143357	143357	143464	143464	143410
1988	73074	73007	73007	72939	72872	72906	72973	72839	72638	72671	72671	72671	72738	72705	72671	72805	72906	72805	72939	73107	73140	73040	73107	73816	74018	73849	73579	73579	73613	73477	73545
1989	89576	89460	89305	89189	88957	88725	88455	88186	87917	87649	87382	87115	86886	86734	86620	86544	86432	86356	86280	86280	86260	86280	86280	86242	86280	86204	86167	86129	86091	86053	85978
1990	46303	46303	46303	46279	46255	46255	46231	46207	46207	46183	46134	46134	46086	46110	46038	45966	45942	45895	45990	46086	46062	46062	46014	45966	46038	46158	46207	46134	46110	46062	46014
1991	92326	92206	92048	91929	91771	91573	91415	91415	91337	91258	91101	90865	90669	90434	90161	89888	89654	89576	89615	89654	89576	89499	89499	89460	89499	89499	89460	89499	89538	89615	89654
1992	82849	82703	82556	82519	82409	82336	82519	82409	82446	82482	82519	82482	82446	82409	82336	82226	82189	82262	82262	82262	82226	82262	82262	82226	82153	82080	82080	82080	82226	82262	82262
1993	243787	243638	243415	243117	242969	242746	242599	242376	242226	242079	242376	242671	242746	242746	242894	242969	242969	242894	242820	242820	242820	242746	242746	242671	242671	242599	242525	242525	242525	242525	242525
1994	116328	116374	116374	116421	116374	116328	116281	116281	116141	115956	115910	115817	115724	115677	115631	115631	115585	115538	115538	115585	115585	115538	115492	115492	115585	115631	115631	115585	115585	115585	115585
1995	246474	246474	246399	245726	245427	245128	244680	244531	244383	244234	244085	244904	246251	246774	246924	247074	247074	247074	246924	246924	246924	246924	247074	247149	246999	246849	246774	246474	246474	246326	246474
1996	246474	245203	245128	244979	245054	245726	246474	246849	247224	249028	258700	262332	262954	262177	260861	259085	256779	254333	251597	248726	246326	246326	246924	246924	246999	246924	246953	250688	251294	252203	252811
1997	244904	244829	244755	244680	244979	245203	245352	246026	246251	246251	246101	245876	245652	245427	245352	245278	245054	244829	244680	244606	244531	244458	244458	244531	244531	244531	244458	243713	242969	242450	242525
1998	244904	244829	244680	244606	244680	244680	244606	244606	244680	244755	244755	244829	244904	245054	245054	245128	244979	244904	244829	244755	244606	244458	244531	244606	244680	244755	244904	244979	244979	244979	244904
1999	173672	173491	173370	173188	173127	173006	172885	172825	172583	172462	172341	172220	172160	172100	171980	171920	171860	171739	171679	171498	171198	170897	170717	170657	170597	170537	170358	170179	169999	169819	169341
Max.	300040	299123	299290	299040	298539	297956	297789	304514	311918	317467	321960	325372	328458	330869	333029	334848	336325	336760	336934	337195	337369	336760	335369	333288	331128	328888	326228	322897	319752	316623	313258
Min.	8537	8537	8558	8600	8607	8600	8607	8607	8621	8649	8649	8649	8656	8656	8656	8663	8663	8663	8670	8670	8677	8684	8684	8670	8670	8670	8670	8670	8670	8670	8670
Ave.	150294	150178	150233	150199	150712	153882	154528	154704	154799	154923	155152	155261	155323	155341	155338	155329	155297	155247	155093	155085	155013	155085	155750	156128	156455	156725	157106	157352	157457	157520	157543





LEGEND

- Drainage Boundary
- U.S. Highway (91) State Highway
- Interstate Highway
- Railroad
- Levee
- Intermittent Stream
- Perennial Stream
- Canal
- Reservoir or Lake
- Authorized Reservoir

ISABELLA LAKE
KERN RIVER, CALIFORNIA

GENERAL MAP

CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA

Prepared : C.D.M.
Drawn : T.K.B.

Date: NOVEMBER 1977

Chart 1



May 25, 1952

Looking easterly from present day Coffee Road bridge