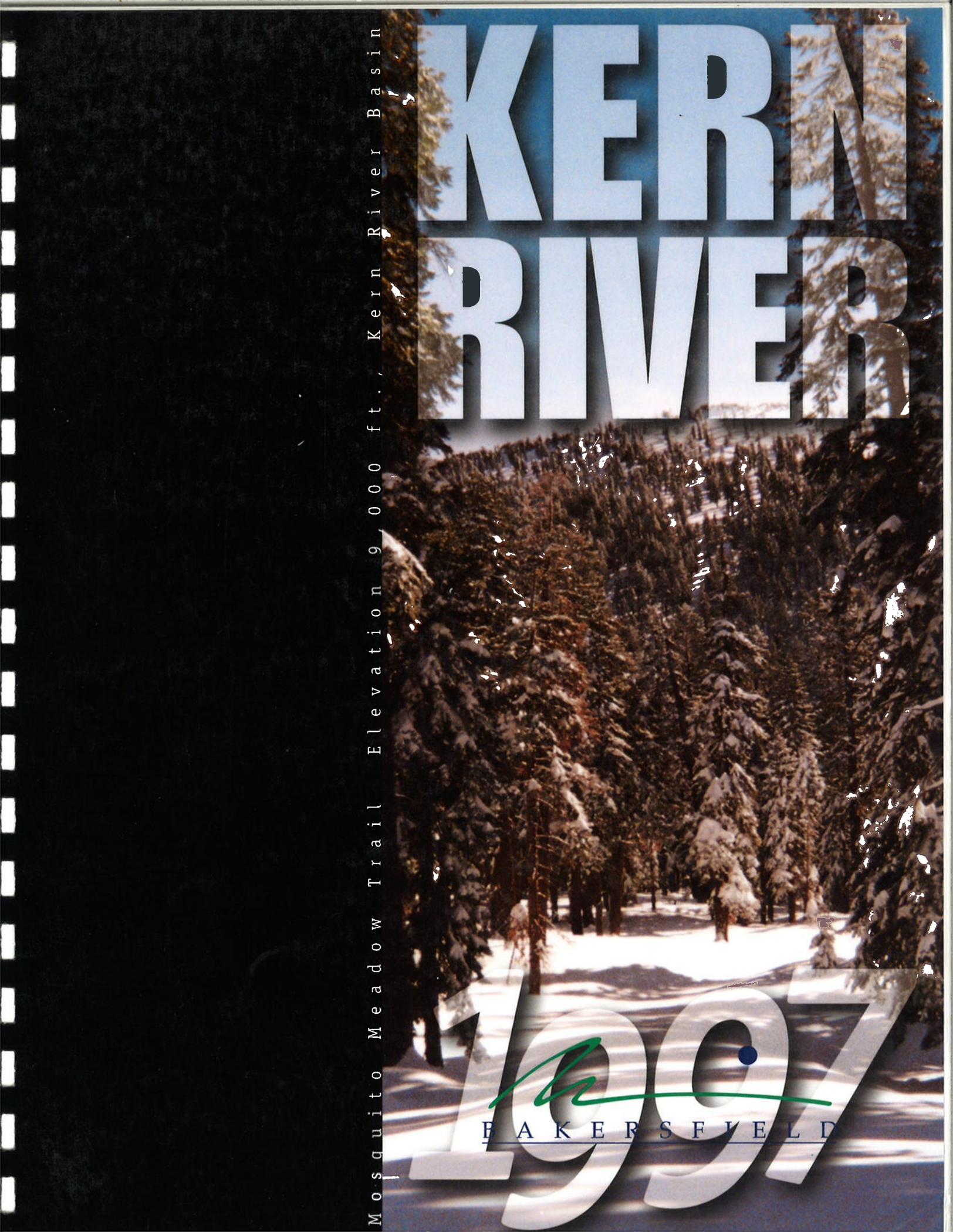


Mosquito Meadow Trail Elevation 9,000 ft., Kern River Basin

# KERN RIVER

# 1997

BAKERSFIELD



*Prepared for:*

**NKWSD Field Office**

1997  
HYDROGRAPHIC ANNUAL REPORT

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**HISTORICAL DATA**

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 mean s.f.d.										32,864	30,827	31,757	—	—	—	—	
1894	acre-feet mean s.f.d.	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	—	—	—	
1895	acre-feet mean s.f.d.	49,769	69,521	84,456	162,071	288,635	172,890	91,133	38,672	20,452	20,091	20,604	24,758	1,023,052	2,208	172	737	
1896	acre-feet 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	
1897	acre-feet mean s.f.d.	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	—	—	—	
1898	acre-feet mean s.f.d.	747	617	951	972	1,401	2,458	1,346	486	304	267	355	347	—	3,611	223	854	
1899	acre-feet mean s.f.d.	22,949	44,941	56,756	173,393	281,639	137,393	61,842	28,842	17,728	20,888	21,146	25,922	893,434	—	—	—	
1900	acre-feet 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	
1901	acre-feet mean s.f.d.	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	—	—	—	
1902	acre-feet mean s.f.d.	363	434	388	710	735	551	244	120	116	160	166	199	—	1,342	80	348	
1903	acre-feet mean s.f.d.	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	—	—	—	
1904	acre-feet mean s.f.d.	263	302	590	893	835	1,331	489	158	105	160	221	278	—	4,932	86	468	
1905	acre-feet mean s.f.d.	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	—	—	—	
1906	acre-feet mean s.f.d.	362	280	413	472	1,111	1,283	392	144	166	160	349	373	—	1,969	101	459	
1907	acre-feet mean s.f.d.	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	—	—	—	
1908	acre-feet 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	
1909	acre-feet mean s.f.d.	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	—	—	—	
1910	acre-feet mean s.f.d.	283	371	790	1,805	1,787	2,165	706	312	197	199	281	269	—	3,758	160	763	
1911	acre-feet mean s.f.d.	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	—	—	—	
1912	acre-feet mean s.f.d.	350	454	579	1,249	2,148	2,340	868	303	191	174	203	201	—	3,374	150	755	
1913	acre-feet mean s.f.d.	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	—	—	—	
1914	acre-feet mean s.f.d.	195	346	667	1,005	1,841	1,746	646	467	267	438	286	241	—	3,167	156	679	
1915	acre-feet mean s.f.d.	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	—	—	—	
1916	acre-feet mean s.f.d.	281	396	823	1,043	1,915	2,231	876	327	211	207	236	261	—	3,247	165	735	
1917	acre-feet mean s.f.d.	42,623	34,750	126,844	173,143	360,234	458,418	399,841	141,384	57,925	37,464	29,831	37,983	1,900,540	—	—	—	
1918	acre-feet 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	
1919	acre-feet mean s.f.d.	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	—	—	—	
1920	acre-feet mean s.f.d.	678	1,023	1,354	3,323	3,252	3,092	1,579	682	414	365	332	351	—	—	—	—	
1921	acre-feet mean s.f.d.	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	—	—	—	
1922	acre-feet mean s.f.d.	453	565	1,058	1,333	1,292	1,013	681	527	366	349	306	298	—	—	—	—	
1923	acre-feet mean s.f.d.	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	—	—	—	
1924	acre-feet 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	
1925	acre-feet mean s.f.d.	73,523	48,904	85,085	102,883	127,733	79,484	42,046	24,216	17,201	18,976	18,881	19,999	658,911	—	—	—	
1926	acre-feet 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-foot	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-foot	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	1,688	539	271	183	192	198	192	—	3,220	147	534
1913	acre-foot	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-foot	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-foot	22,500	30,254	48,536	80,916	124,506	172,324	77,496	24,688	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-foot	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	7,893	6,583	3,662	923	568	679	519	526	—	17,962	274	3,481
1917	acre-foot	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	2,884	3,153	1,322	602	331	292	311	315	—	4,331	267	1,137
1918	acre-foot	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-foot	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-foot	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-foot	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-foot	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-foot	26,863	25,720	31,372	73,355	120,848	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-foot	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-foot	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-foot	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-foot	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	1,085
1928	acre-foot	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-foot	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-foot	12,234	20,089	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-foot	12,284	13,785	15,784	23,440	41,867	24,262	8,493	6,302	6,860	6,817	8,241	17,510	185,045	—	—	—
	mean s.f.d.	200	248	257	394	681	408	138	102	115	111	138	285	—	2,261	—	71
1932	acre-foot	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-foot	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-foot	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	—	314
1935	acre-foot	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-foot	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	—	1,097
1937	acre-foot	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	278	275	851	—	20,000	223	1,741
1938	acre-foot	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	—	1,877
1939	acre-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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	—	454
1949	acre-foot	11,982	12,992	21,136	50,517	84,508	57,685	17,201	8,682	6,541	7,704	11,131	12,781	302,870	—	—	—
	mean s.f.d.	195	234	344	849	1,374	969	280	141	110	125	187	208	—	2,128	—	418
1950	acre-foot	17,119	39,761	37,087	78,155	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	588	198	175	162	1,630	1,288	—	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-foot	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-foot	60,387	53,873	84,726	222,633	434,769	302,557	159,856	68,200	30,870	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-foot	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-foot	22,019	30,361	44,575	101,203	139,719	73,553	39,642	19,198	12,571	12,951	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	63,580	65,831	86,200	99,509	269,631	311,063	243,802	94,834	55,255	36,230	34,548	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	33,628	36,395	52,778	110,892	288,652	230,390	93,834	41,028	23,030	18,995	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-foot	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-foot	21,521	26,725	42,815	46,602	147,001	140,660	51,917	22,625	17,133	16,209	15,049	16,310	584,567	—	—	—
	mean s.f.d.	350	481	696	783	2,391	2,364	844	368	288	264	253	265	—	3,783	164	780
1976	acre-foot	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-foot	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-foot	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-foot	34,062	41,825	72,299	102,079	184,935	106,112	46,733	27,243	19,583	19,781	18,779	19,230	672,861	—	—	—
	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	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-foot	42,668	149,966	204,775	208,147	293,335	263,784	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	1,966
1987	acre-foot	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-foot	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-foot	15,947	23,528	67,430	91,330	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-foot	12,916	13,127	23,048	32,019	38,600	29,345	13,380	8,388	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	200,884	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	3,875	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

**KERN RIVER AT FIRST POINT OF MEASUREMENT  
HISTORICAL MONTHLY NATURAL FLOWS**

YEAR: 1997

October 1893 to Date...

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Monthly Flow (acre-foot)	37,891	43,651	65,910	100,255	156,969	139,870	72,545	31,454	18,458	17,543	19,935	28,140	732,621
Mean Monthly Flow (second foot days)	616	779	1,072	1,685	2,553	2,351	1,180	512	310	285	335	458	1,011
Maximum Monthly Flow (acre-foot)	246,022	202,510	378,116	481,749	617,968	571,846	399,841	154,935	68,503	53,300	96,968	313,811	
Minimum Monthly Flow (acre-foot)	10,931	9,215	14,221	23,391	25,630	14,069	8,225	5,881	5,494	6,817	8,241	9,148	
Number Months of Record	104	104	104	104	104	104	104	104	104	105	105	105	
Cumulative Monthly Flow (All Months - acre-foot)	3,940,635	4,539,757	6,854,637	10,426,517	16,324,754	14,546,533	7,544,690	3,271,188	1,919,631	1,841,971	2,093,177	2,954,679	
Median Monthly Flow (acre-foot)	23,451	30,841	47,819	77,133	121,279	114,448	50,251	22,253	14,182	14,656	16,126	19,644	552,083
Median Monthly Flow (second foot days)	381	550	778	1,296	1,972	1,923	817	362	238	238	271	319	762

MEAN APRIL - JULY RUNOFF TO DATE = 469,639 AcFt      MEAN MARCH - OCTOBER RUNOFF TO DATE = 603,004 AcFt  
 MEDIAN APRIL - JULY RUNOFF TO DATE = 363,111 AcFt      MEDIAN MARCH - OCTOBER RUNOFF TO DATE = 462,021 AcFt

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

Year: 1997

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	462	750	868	1,310	2,133	2,725	1,700	727	368	303	293	355
2	516	703	903	1,316	2,157	2,691	1,677	701	364	300	290	358
3	614	660	985	1,333	2,196	2,677	1,654	684	360	297	288	374
4	513	615	960	1,329	2,259	2,672	1,627	668	350	294	285	398
5	506	617	991	1,361	2,302	2,684	1,570	644	364	286	287	509
6	482	679	951	1,390	2,347	2,692	1,525	629	369	294	287	1,136
7	474	808	909	1,411	2,380	2,690	1,476	613	345	284	289	533
8	478	748	926	1,438	2,422	2,667	1,429	599	332	290	288	436
9	459	798	1,016	1,467	2,459	2,616	1,384	583	321	291	288	443
10	473	765	1,060	1,495	2,485	2,597	1,342	575	311	286	294	452
11	493	698	1,064	1,598	2,488	2,559	1,295	565	307	284	307	466
12	556	715	1,013	1,614	2,493	2,540	1,261	552	312	281	311	447
13	577	825	1,017	1,607	2,522	2,521	1,232	525	302	280	305	423
14	678	784	1,027	1,624	2,557	2,481	1,209	507	291	276	310	396
15	595	784	994	1,645	2,579	2,439	1,172	499	291	276	306	393
16	600	775	1,026	1,691	2,599	2,381	1,146	496	286	277	308	385
17	593	801	1,052	1,713	2,624	2,341	1,112	484	284	284	318	387
18	667	910	1,116	1,743	2,657	2,302	1,083	482	282	280	334	380
19	631	910	1,105	1,786	2,694	2,264	1,050	480	276	280	471	373
20	588	899	1,096	1,833	2,691	2,230	1,024	466	276	281	418	370
21	599	838	1,134	1,874	2,690	2,197	989	447	277	280	371	378
22	701	810	1,119	1,908	2,696	2,164	957	429	276	277	382	409
23	723	803	1,121	1,920	2,684	2,120	942	419	275	277	367	546
24	725	802	1,131	1,936	2,690	2,059	943	406	275	276	387	494
25	968	824	1,173	1,958	2,710	2,003	903	395	292	274	386	492
26	945	824	1,205	1,992	2,753	1,938	876	383	335	281	366	468
27	786	830	1,240	2,015	2,762	1,894	858	381	308	286	382	503
28	737	820	1,247	2,058	2,768	1,844	828	384	291	288	375	477
29	650	878	1,247	2,074	2,786	1,792	796	384	295	288	363	457
30	627	-	1,249	2,106	2,781	1,738	773	379	291	294	395	498
31	687	-	1,285	-	2,774	-	742	372	-	299	-	451
<b>TOTAL</b>	<b>19,103</b>	<b>22,008</b>	<b>33,230</b>	<b>50,545</b>	<b>79,138</b>	<b>70,518</b>	<b>36,575</b>	<b>15,858</b>	<b>9,306</b>	<b>8,844</b>	<b>10,051</b>	<b>14,187</b>
<b>MAXIMUM DAY</b>	<b>968</b>	<b>910</b>	<b>1,285</b>	<b>2,106</b>	<b>2,786</b>	<b>2,725</b>	<b>1,700</b>	<b>727</b>	<b>369</b>	<b>303</b>	<b>471</b>	<b>1,136</b>
<b>MINIMUM DAY</b>	<b>459</b>	<b>615</b>	<b>868</b>	<b>1,310</b>	<b>2,133</b>	<b>1,738</b>	<b>742</b>	<b>372</b>	<b>275</b>	<b>274</b>	<b>285</b>	<b>355</b>
<b>MEAN</b>	<b>616</b>	<b>779</b>	<b>1,072</b>	<b>1,685</b>	<b>2,553</b>	<b>2,351</b>	<b>1,180</b>	<b>512</b>	<b>310</b>	<b>285</b>	<b>335</b>	<b>458</b>
<b>TOTAL AC.FT.</b>	<b>37,891</b>	<b>43,651</b>	<b>65,910</b>	<b>100,255</b>	<b>156,969</b>	<b>139,870</b>	<b>72,545</b>	<b>31,454</b>	<b>18,458</b>	<b>17,543</b>	<b>19,935</b>	<b>28,140</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>369,363</b>	<b>MAX.,</b>	<b>2,786</b>	<b>MIN.,</b>	<b>274</b>	<b>MEAN,</b>	<b>1,011</b>	<b>TOTAL AC.FT.,</b>	<b>732,621</b>		

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

Year : 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	346	442	615	1,038	1,618	2,219	1,307	506	273	239	245	285
2	345	435	634	1,204	1,652	2,237	1,234	478	263	239	258	281
3	344	452	628	1,005	1,645	2,242	1,206	477	257	231	253	305
4	351	460	638	1,021	1,720	2,265	1,193	475	265	241	255	317
5	353	468	700	1,068	1,731	2,199	1,116	446	259	233	259	321
6	364	480	684	1,114	1,717	2,183	1,046	426	260	231	256	326
7	365	497	651	1,215	1,706	2,416	1,039	434	258	233	260	312
8	370	523	654	1,203	1,736	2,327	1,011	423	251	235	259	312
9	376	542	668	1,222	1,874	2,285	977	394	252	239	259	312
10	365	557	637	1,275	1,908	2,308	920	384	249	232	264	304
11	366	561	658	1,193	1,875	2,294	894	373	248	232	264	312
12	377	562	666	1,219	1,905	2,297	870	384	244	232	267	314
13	379	578	623	1,223	2,019	2,235	846	371	238	233	270	318
14	390	557	683	1,249	2,000	2,198	839	352	229	229	273	319
15	371	535	708	1,178	1,946	2,090	802	344	239	231	273	319
16	380	570	704	1,217	1,922	1,978	740	362	239	236	269	328
17	367	603	723	1,299	2,076	1,874	741	345	232	235	269	323
18	372	608	746	1,276	2,184	1,825	731	329	229	242	282	313
19	384	607	821	1,326	2,146	1,728	715	324	227	247	281	319
20	394	593	846	1,333	2,085	1,635	718	314	221	246	289	319
21	390	576	893	1,431	2,037	1,650	706	308	229	243	269	311
22	397	576	867	1,436	2,034	1,633	652	300	226	236	275	316
23	392	574	882	1,440	2,044	1,640	612	319	219	237	286	339
24	411	580	875	1,516	2,100	1,613	605	310	213	239	287	329
25	400	600	921	1,521	2,129	1,510	606	301	214	237	290	336
26	395	602	991	1,558	2,093	1,441	579	289	226	245	288	327
27	397	620	1,014	1,517	2,166	1,377	559	306	222	250	281	326
28	404	637	993	1,517	2,230	1,352	533	286	219	248	278	340
29	411	642	964	1,497	2,289	1,348	519	288	218	249	283	329
30	427	-	999	1,577	2,291	1,302	523	282	231	242	288	339
31	440	-	1,023	-	2,267	-	496	289	-	247	-	353
TOTAL	11,823	15,549	24,109	38,888	61,145	57,701	25,335	11,219	7,150	7,389	8,130	9,904
MAXIMUM DAY	440	642	1,023	1,577	2,291	2,416	1,307	506	273	250	290	353
MINIMUM DAY	344	435	615	1,005	1,618	1,302	496	282	213	229	245	281
MEAN	381	550	778	1,296	1,972	1,923	817	362	238	238	271	319
TOTAL AC.FT.	23,451	30,841	47,819	77,133	121,279	114,448	50,251	22,253	14,182	14,656	16,126	19,644
WHOLE YEAR:-	TOTAL,	278,342	MAX.,	2,416	MIN.,	213	MEAN,	762	TOTAL AC.FT.,	552,083		

## 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	90,539	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	387,783
1956	41,377	40,326	62,779	94,291	94,887	115,428	124,007	99,489	52,098	16,990	16,534	17,500	755,500
1957	17,958	22,425	34,935	39,677	52,885	66,466	70,175	39,943	22,471	17,282	13,795	17,847	445,859
1958	19,137	28,175	42,125	76,472	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	13,803	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	66,164	22,623	12,448	12,054	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	61,313	76,268	71,078	10,989	47,220	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	47,986	31,579	10,286	12,460	12,460	16,524	311,281
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	745,900
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	93,088	70,927	30,458	1,390,675
1979	55,976	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	14,324	14,324	18,426	21,578	480,469
1982	30,363	43,374	49,110	57,060	66,469	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	136,034	195,546	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
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	1,337,087	1,602,874	2,407,613	3,021,167	3,774,923	5,003,471	4,928,860	3,725,102	1,900,936	1,547,619	1,247,194	1,155,186	31,653,032
Acft AVERAGE	30,388	36,429	54,718	68,663	85,794	113,715	112,042	84,661	43,203	35,173	28,345	26,254	719,385
S.F.D. AVERAGE	494	650	890	1,154	1,395	1,911	1,822	1,377	726	572	476	427	993
% OF TOTAL	4.22%	5.06%	7.61%	9.54%	11.93%	15.81%	15.57%	11.77%	6.01%	4.89%	3.94%	3.65%	100.00%

Kern River Mean Regulated Flow at First Point of Measurement  
(1954 to Date)

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	467	547	829	989	1298	1550	1917	1581	911	669	482	452
2	480	554	817	1011	1314	1597	1865	1557	890	681	473	419
3	469	561	822	1015	1308	1652	1870	1583	871	667	471	403
4	464	566	839	1011	1340	1709	1831	1579	863	653	473	408
5	464	564	835	1019	1341	1750	1857	1594	841	645	476	423
6	464	575	831	1012	1343	1777	1882	1598	814	671	480	510
7	468	571	841	1038	1337	1818	1902	1561	791	638	474	428
8	466	576	837	1078	1366	1843	1926	1542	774	623	476	415
9	456	685	831	1117	1373	1858	1931	1558	756	625	477	411
10	446	663	858	1136	1371	1874	1923	1558	743	615	481	407
11	442	621	890	1148	1355	1892	1903	1548	734	594	492	405
12	447	617	860	1154	1369	1914	1898	1515	719	560	488	411
13	458	631	874	1153	1370	1930	1885	1490	708	559	491	405
14	461	633	867	1160	1363	1955	1898	1463	703	556	479	401
15	462	652	884	1179	1344	1956	1900	1445	698	547	476	407
16	486	643	891	1188	1350	1980	1883	1430	699	537	479	400
17	484	637	899	1193	1349	2040	1849	1405	691	524	483	408
18	489	646	890	1195	1364	2055	1813	1418	677	530	475	429
19	489	661	890	1209	1386	2063	1802	1386	666	531	477	427
20	487	711	906	1201	1427	2038	1764	1350	662	536	478	423
21	486	707	922	1198	1448	2049	1797	1312	657	541	481	421
22	490	707	926	1206	1458	2062	1780	1257	657	534	473	424
23	503	717	935	1219	1463	2043	1780	1234	663	533	459	424
24	546	741	942	1233	1458	2063	1761	1213	663	532	443	435
25	570	736	941	1241	1454	2054	1740	1180	664	536	461	435
26	597	743	948	1248	1441	2032	1733	1139	660	530	473	434
27	580	757	957	1264	1449	1960	1720	1115	654	523	477	448
28	553	771	954	1260	1454	1932	1698	1085	650	516	484	455
29	538	696	938	1261	1477	1953	1681	1042	662	519	477	450
30	548	-	959	1282	1518	1933	1667	993	641	514	481	454
31	560	-	974	-	1566	-	1632	952	-	494	-	464
TOTAL	15,320	18,367	27,587	34,618	43,254	57,332	56,488	42,683	21,782	17,733	14,290	13,236
MAXIMUM INSTAN.	3,331	8,280	5,691	7,394	6,675	7,576	7,327	4,694	3,103	7,000	2,275	9,289
MINIMUM INSTAN.	111	67	143	181	223	215	349	84	64	40	66	22
MEAN	494	650	890	1,154	1,395	1,911	1,822	1,377	726	572	476	427
TOTAL AC.FT.	30,388	36,429	54,718	68,663	85,794	113,715	112,042	84,661	43,203	35,173	28,345	26,254
WHOLE YEAR:-	TOTAL,	362,690	MAX.,	9,289	MIN.,	22	MEAN,	993	TOTAL AC.FT.,	719,385		

**ACCRETIONS TO KERN RIVER BELOW ISABELLA DAM  
APRIL 1954 TO DATE**

Quantities in acre-feet

<u>Year</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Total</u>
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	3,298	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	3,320	1,303	2,095	803	(63)	1,229	1,932	(58)	1,214	1,740	14,810	28,288
1967	3,856	1,300	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	1,383	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	6,054	1,704	1,011	817	2,357	3,055	2,717	2,303	2,894	34,453
1975	704	1,299	2,925	2,641	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
Max. Month	19,079	26,353	37,912	40,391	20,384	13,375	18,659	17,163	7,454	6,473	5,718	14,810	146,802
Min. Month	551	472	446	(51)	(1,854)	(1,528)	(4,348)	(2,100)	(383)	(1,509)	(1,397)	669	669
AcFt Totals	145,583	175,114	218,686	207,366	132,818	105,767	111,226	108,355	48,618	48,654	53,378	108,237	1,463,802
AcFt Ave.	3,386	4,072	5,086	4,713	3,019	2,404	2,528	2,463	1,105	1,106	1,213	2,460	33,553
SFD Ave.	55	73	83	79	49	40	41	40	19	18	20	40	46

Year: 1997

Isabella Reservoir Daily Mean Storage (1954-1997)

MIDNIGHT STORAGE IN ACRE-FEET

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	149,796	162,868	173,404	185,858	214,056	282,510	300,513	255,914	201,549	175,880	156,442	147,613
2	150,068	163,271	173,809	186,637	215,608	284,716	299,935	254,182	200,434	175,061	156,020	147,497
3	150,826	163,402	174,148	187,325	217,158	286,768	299,288	252,317	199,329	174,052	155,610	147,561
4	151,172	163,503	174,614	187,955	218,798	288,644	298,657	250,423	198,241	173,499	155,192	147,531
5	151,450	163,639	175,208	188,560	220,377	290,473	297,866	248,445	197,290	172,727	154,746	148,067
6	151,621	163,814	175,568	189,184	222,100	292,184	296,979	246,430	196,414	171,920	154,331	151,384
7	151,772	164,025	175,826	189,770	223,793	293,869	295,971	244,475	195,490	171,173	153,903	152,063
8	151,921	164,350	176,171	190,292	225,507	295,392	294,798	242,578	194,562	170,422	153,498	152,249
9	152,026	164,889	176,478	190,874	227,344	296,781	293,534	240,565	193,628	169,673	153,075	152,352
10	152,150	165,394	176,888	191,454	229,325	298,077	292,205	238,562	192,690	168,924	152,672	152,483
11	152,346	165,668	177,405	192,416	231,277	299,201	290,815	236,613	191,784	168,219	152,291	152,725
12	152,855	165,899	177,783	193,426	233,205	300,227	289,353	234,675	190,937	167,599	151,892	152,840
13	153,507	166,449	178,060	194,375	235,243	301,032	287,890	232,714	190,062	166,945	151,526	152,905
14	154,173	166,883	178,384	195,283	237,318	301,785	286,417	230,783	189,174	166,306	151,165	152,921
15	154,541	167,259	178,610	196,184	239,516	302,364	284,842	228,874	188,283	165,683	150,826	152,921
16	155,053	167,678	178,825	197,063	241,776	302,800	283,294	227,014	187,385	165,096	150,462	152,911
17	155,495	168,101	179,115	197,994	244,070	303,045	281,720	225,146	186,518	164,559	150,160	152,882
18	155,749	169,068	179,350	198,939	246,478	303,168	280,174	223,262	185,676	163,994	149,938	152,834
19	156,130	169,904	179,617	199,888	249,054	303,316	278,571	221,453	184,839	163,426	149,674	152,676
20	156,454	170,768	179,852	200,900	251,643	303,469	276,923	219,692	184,007	162,876	149,385	152,674
21	156,812	171,295	180,197	201,954	254,189	303,533	275,191	217,927	183,218	162,259	149,153	152,609
22	157,158	171,639	180,602	203,031	256,807	303,515	273,509	216,255	182,403	161,676	149,022	152,694
23	157,481	171,889	180,993	204,061	259,427	303,475	271,768	214,586	181,574	161,099	148,849	153,392
24	157,960	172,089	181,397	205,054	262,014	303,273	270,036	212,955	180,768	160,533	148,733	153,787
25	159,363	172,410	181,785	206,088	264,503	302,994	268,275	211,344	180,034	159,933	148,657	154,128
26	160,273	172,867	182,216	207,148	267,050	302,676	266,477	209,777	179,495	159,375	148,474	154,411
27	160,835	159,363	182,720	208,312	269,631	302,428	264,719	208,237	178,843	158,873	148,210	154,809
28	161,200	173,094	183,303	209,589	272,232	302,115	262,956	206,768	178,103	158,367	147,982	155,069
29	161,438	186,961	183,852	210,974	274,877	301,645	261,158	205,353	177,367	158,087	147,787	155,183
30	161,618	-	184,405	212,493	277,444	301,105	259,390	204,027	176,633	157,389	147,747	155,253
31	162,097	-	185,106	-	280,026	-	257,614	202,745	-	156,956	-	155,290
MAXIMUM DAY	162,097	186,961	185,106	212,493	280,026	303,533	300,513	255,914	201,549	175,880	156,442	155,290
MINIMUM DAY	149,796	159,363	173,404	185,858	214,056	282,510	257,614	202,745	176,633	156,956	147,747	147,497

**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	4.77	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	0.09	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	6.48	0.08	1.28	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	0.34	0.34	0.00	0.00	1.20	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	0.72	0.00	12.18
1962-63	0.03	0.00	0.00	1.52	3.06	2.06	1.07	0.13	0.00	0.00	1.16	0.00	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	0.00	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	0.23	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	0.34	0.00	0.02	0.00	0.10	22.11
1969-70	0.07	0.56	0.24	3.91	0.54	0.45	0.66	0.89	0.00	0.06	0.54	0.00	9.22
1970-71	0.04	3.47	2.20	0.00	0.37	0.00	0.37	0.05	0.80	0.00	0.34	0.03	5.54
1971-72	0.05	0.05	3.04	0.00	2.57	2.65	1.82	0.05	0.00	0.00	0.00	0.00	15.95
1972-73	0.66	3.13	2.48	3.96	0.09	2.00	1.95	0.39	0.00	0.78	0.00	0.00	10.58
1973-74	0.11	1.26	0.10	2.75	1.82	2.77	0.49	0.04	0.00	0.00	0.03	0.87	12.46
1974-75	2.30	0.10	0.65	0.02	1.25	1.61	0.86	0.05	0.00	0.41	0.00	5.20	10.10
1975-76	0.41	0.22	0.07	1.50	1.04	0.75	0.00	0.91	0.39	0.00	0.00	0.00	6.38
1976-77	0.23	0.07	0.62	1.50	6.96	3.46	0.87	0.00	0.00	0.00	0.00	1.33	22.37
1977-78	0.02	0.17	5.02	4.51	3.22	2.54	0.00	0.19	0.00	0.03	0.14	0.71	11.44
1978-79	0.02	0.39	0.74	3.24	4.32	1.85	0.51	0.55	0.00	0.00	0.00	0.00	16.56
1979-80	0.95	0.33	0.34	7.71	4.32	3.05	0.23	0.34	0.00	0.00	0.00	0.04	8.53
1980-81	0.09	0.01	0.63	2.65	1.49	3.05	0.23	0.01	0.00	0.00	0.13	0.13	15.32
1981-82	1.05	1.17	1.16	4.04	1.15	4.27	1.59	0.09	0.04	0.00	1.14	0.20	24.34
1982-83	0.78	3.14	3.78	4.31	4.36	5.96	0.58	0.00	0.00	0.00	0.63	0.00	12.25
1983-84	0.63	3.49	3.56	0.00	1.13	0.27	0.51	0.00	0.02	2.01	0.00	0.15	9.18
1984-85	0.62	2.90	1.16	0.68	3.58	3.58	0.10	0.00	0.00	0.00	0.00	0.27	14.65
1985-86	0.10	2.27	1.43	2.94	2.03	1.88	0.10	0.42	0.00	0.38	0.00	0.00	8.65
1986-87	0.24	0.54	0.27	2.65	2.03	2.28	1.41	0.50	0.05	0.51	0.00	0.00	7.76
1987-88	0.62	0.87	1.36	1.80	2.24	2.28	0.09	0.04	0.00	0.00	0.00	0.35	10.46
1988-89	0.00	1.75	3.15	0.29	2.24	6.43	0.44	0.26	0.02	0.00	0.00	0.19	4.48
1989-90	0.11	0.30	0.00	1.33	1.00	0.67	0.03	0.09	0.00	0.00	0.01	0.00	10.27
1990-91	0.01	0.74	0.99	0.99	1.17	6.43	0.03	0.00	0.00	0.00	0.00	0.00	9.34
1991-92	0.53	1.30	1.45	1.02	3.10	0.79	0.00	0.12	0.00	0.00	0.00	0.00	13.41
1992-93	0.94	0.00	2.80	4.09	4.15	0.76	0.87	0.19	0.00	0.00	0.00	0.25	9.07
1993-94	0.12	1.52	1.60	0.66	3.10	3.83	0.76	0.38	0.40	0.00	0.51	0.00	16.75
1994-95	0.31	1.45	0.71	7.26	1.35	1.47	0.53	0.00	0.00	0.00	0.00	0.00	13.18
1995-96	0.00	0.00	1.79	4.36	5.03	0.00	0.00	0.00	0.00	0.00	0.00	1.02	12.46
1996-97	0.66	2.38	4.29	3.90	0.13	0.00	0.00	0.00	0.00	0.08	0.00	0.00	11.26
1997-98	1.19	1.19	1.89	2.48	2.00	1.72	0.69	0.21	0.09	0.12	0.18	0.36	24.34
AVERAGE	0.33	3.49	11.53	9.56	6.96	6.43	2.77	1.03	0.80	2.01	1.20	5.20	8.00
MAXIMUM	2.30	2.85	5.20	2.40	3.40	1.72	1.45	0.75	0.50	0.88	1.01	3.09	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	24.34
DATE OF OCCURRENCE	10/17/63	11/20/50	12/05/66	01/16/96	02/01/60	03/04/91	04/02/74	05/19/57	06/08/72	07/16/84	08/08/63	08/30/76	

**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	58.3	72.7	81.6	80.1	69.6	56.4	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	56.8	45.7	39.6	59.1
1972	42.0	49.1	56.1	56.1	65.6	73.5	80.5	76.1	68.2	56.8	46.9	44.9	57.6
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	74.9	69.6	69.6	62.7	49.4	37.4	58.5
1991	42.7	50.8	43.6	51.2	56.7	82.1	82.1	77.8	77.2	67.6	53.4	45.2	59.9
1992	43.4	49.2	52.4	62.5	65.3	70.5	76.7	77.0	74.5	62.7	51.3	42.0	62.1
1993	42.5	45.5	54.9	56.8	65.3	79.1	86.8	85.5	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
Normal	44.1	47.3	50.3	55.5	63.3	72.6	79.2	77.9	71.8	61.8	51.0	44.3	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	4.38	6.31	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	13.66	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	96.25
1978-79	7.56	3.24	1.67	2.14	2.18	4.37	7.83	11.87	15.08	15.97	13.96	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	84.99
1994-95	6.06	2.95	1.94	1.34	3.09	5.83	6.64	6.64	14.96	14.20	14.96	11.02	92.74
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
MEAN	6.26	3.36	2.16	2.20	2.81	4.71	7.17	10.42	13.14	14.79	13.31	9.67	90.00

# 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	1,694	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	928	744	31,288
1967	970	1,071	1,874	1,700	3,931	5,960	8,805	4,574	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	780	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	8,622	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	2,898	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
Average	797	933	1,558	2,461	4,221	6,116	6,938	5,888	4,106	2,647	1,388	853	37,906

**KERN RIVER OPERATIONS**

**1997**

## KERN RIVER IN REVIEW 1997

### Introduction

New Year's Day celebrations had just ended when a warm subtropical storm track, having deluged Northern and Central California for much of the previous week, pulled south into the Kern River Basin, producing extreme rainfall in the higher elevations of the watershed. By the early morning hours of January 3, 1997, the Kern River North Fork had amassed a flood flow in excess of 32,000 cubic feet per second, threatening life and property along the river's banks upstream from Lake Isabella. Full natural flow for January 3, 1997 amounted to 19,794 cubic feet per second, third highest Kern River flow this century, exceeded only by the great rainfloods of December 6, 1966 (80,029 cfs) and January 25, 1969 (24,216 cfs). Kern River runoff during January 1997 soared to 246,022 acre-feet, maximum of record, nearly 700% of normal January runoff. Characteristic of California's changing weather, a complete turnabout in storm patterns began around the first of February. Following was the driest spring on record for the southern Sierra, dating back to at least 1922 when detailed rainfall records were first maintained. The final tally for Kern River 1997 April-July snowmelt runoff at First Point of Measurement was 571,476 acre-feet, 122% of normal.

### Precipitation

Monthly precipitation amounts in inches as recorded at selected Kern County stations during the 1996-97 Water Year were as follows:

	Bakersfield-City (Elev. 403 ft.)			Isabella Dam (Elev. 2660 ft.)			Glennville (Elev. 3140 ft.)		
	96-97	Ave.	% of Ave.	96-97	Ave.	% of Ave.	96-97	Ave.	% of Ave.
Oct	0.54	0.30	180%	0.66	0.33	200%	1.22	0.75	163%
Nov	1.13	0.65	174%	2.38	1.19	200%	5.06	1.85	274%
Dec	1.49	0.65	229%	4.29	1.89	227%	7.01	2.96	237%
Jan	1.74	0.98	178%	3.90	2.48	157%	8.03	3.32	242%
Feb	0.58	1.07	54%	0.13	2.00	7%	1.25	2.99	42%
Mar	0.19	0.87	22%	0.00	1.72	0%	0.06	3.05	2%
Apr	0.00	0.70	0%	0.00	0.69	0%	0.00	2.06	0%
May	0.00	0.24	0%	0.00	0.21	0%	0.00	0.75	0%
Jun	0.00	0.07	0%	0.00	0.09	0%	0.00	0.18	0%
Jul	0.00	0.01	0%	0.08	0.12	67%	0.07	0.04	175%
Aug	0.00	0.05	0%	0.00	0.18	0%	0.00	0.10	0%
Sep	0.04	0.13	31%	1.02	0.36	283%	0.56	0.37	151%
<b>TOTAL</b>	<b>5.71</b>	<b>5.72</b>	<b>100%</b>	<b>12.46</b>	<b>11.26</b>	<b>111%</b>	<b>23.26</b>	<b>18.42</b>	<b>126%</b>

Precipitation amounts during the first quarter (Oct-Dec, 1996) of the 1996-97 water year exceeded 200% of normal throughout the Kern River Basin. January 1997 saw a continuation of tropical storms differing only with a pattern of intermixing cold storms originating in the Gulf of Alaska. With a normal seasons rain and snowfall already in the place, the Kern was poised for massive flooding in late January 1997, as forecast models corroborated in predicting the "storm of the century". Fortunately, the immense potential of this system never materialized, however, the runoff produced from the storm pushed Isabella Reservoir storage over the 400,000 acre-foot level as of January 25, 1997, the earliest date of this storage magnitude on record. In February 1997, the infamous blocking high pressure over California took hold, dramatically reducing rainfall amounts to record lows. Isabella Dam and Glennville set new minimum precipitation amounts for the February-June period at 0.13 inches and 1.31 inches, respectively.

Temperature

Isabella, California 1997, mean air temperatures (°F) with comparative averages were as follows:

	<u>1997</u> <u>Actual</u>	<u>Normal</u>	<u>Variance</u> <u>from</u> <u>Norm</u>		<u>1997</u> <u>Actual</u>	<u>Normal</u>	<u>Variance</u> <u>from</u> <u>Norm</u>
Jan	46.4	44.1	+2.3	Jul	78.8	79.2	- 0.4
Feb	48.1	47.3	+0.8	Aug	80.0	77.9	+2.1
Mar	<b>57.1</b>	50.3	+6.8	Sep	74.6	71.8	+2.8
Apr	58.3	55.5	+2.8	Oct	61.4	61.8	- 0.4
May	71.2	63.3	+7.9	Nov	52.6	51.0	+1.6
Jun	72.4	72.6	- 0.2	Dec	44.2	44.3	- 0.1

The mean annual temperature for 1997 was 62.1° Fahrenheit, 2.2° above average. The mean monthly temperature for March 1997 was a blistering 57.1°F, maximum of record since the Corps of Engineers began record-keeping, surpassing the previous record set in 1959 by 0.6°F. May's mean monthly temperature exceeded 70°F for only the 2<sup>nd</sup> time since 1956. Temperature extremes reached 107°F on August 6<sup>th</sup> with the low of 24°F occurring on December 25, 1997.

Snowpack

Listed below are approximate readings, in inches of water content, for the eight remote snow sensor sites located within the Kern River Basin on April 1, 1997, with April 1<sup>st</sup> historical average water contents of same shown for comparison:

	<u>Upper</u> <u>Tyndall</u> <u>Creek</u>	<u>Crabtree</u> <u>Meadow</u>	<u>Chagoopa</u> <u>Plateau</u>	<u>Pascoe</u>	<u>Wet</u> <u>Meadow</u>	<u>Tunnel</u> <u>Guard</u>	<u>Casa</u> <u>Vieja</u> <u>Meadow</u>	<u>Beach</u> <u>Meadows</u>
April 1, 1997	40.8	21.6	29.2	37.7	19.0	12.7	17.6	0.3
April 1, Average	27.7	19.8	21.8	24.9	30.3	15.6	20.9	11.0

The snowpack accumulation season got an early jump-start beginning mid-November 1996, as heavy precipitation rocked the Kern River Basin, dumping 1.67" of rain at Glennville and leaving five inches of snow water content in the higher elevations of the southern Sierra. During December 1996, the Kern snowpack stair-stepped its way to much above average accumulation levels, finally achieving 215% of normal snowpack for the first of January. With no storms to speak of during February and with an extremely warm March, most of the low level snowpack had been stripped by April 1<sup>st</sup>, evidenced by the meager snow water content reading of 0.3" at Beach Meadows.

Forecasts

The State of California, Department of Water Resources, issued the following forecasts of Kern River runoff into Isabella Reservoir for the 1997 April-July snowmelt period:

February 1, 1997:	199% of average (880,000 acre-feet)
March 1, 1997:	174% of average (770,000 acre-feet)
April 1, 1997:	136% of average (600,000 acre-feet)
May 1, 1997:	124% of average (550,000 acre-feet)

Snow course measurements in the Kern River Basin during the last week of January 1997 indicated a basin-wide average water content of nearly 25 inches, over 200% of average for February 1<sup>st</sup>, leading to a healthy February 1<sup>st</sup> forecast of snowmelt runoff. Record low precipitation for the following months, coupled with above normal temperatures, led to the steady decline in each of the subsequent forecasts.

Runoff

Actual 1997 April-July Kern River inflow to Isabella Reservoir was **562,549** acre-feet (127% of average). Calendar year runoff at First Point of Measurement near Bakersfield totaled **1,181,969** acre-feet, **161%** of the long-term average (732,621 acre-feet) and **214%** of the historical median (552,083 acre-feet). 1997 Kern River runoff marked the first time in history that the Kern has yielded in excess of one million acre-feet of water three consecutive years.

Storage

- MAXIMUM 1997 STORAGE = 491,994 Acre-Feet (June 6, 1997)
- MINIMUM 1997 STORAGE = 242,450 Acre-Feet (December 30, 1997)

Isabella Reservoir storage for 1997 began at **252,811** acre-feet. The major New Year's storm system produced three of the top ten largest daily storage gains on record for the month of January, the greatest of which occurred January 3<sup>rd</sup> when dam storage increased by 35,723 acre-feet. As a result of January 1997 record runoff, maximum storage levels were established for each day between the 4<sup>th</sup> of January and the 2<sup>nd</sup> of March, 1997. Isabella Lake year-end storage was **242,525** acre-feet, constituting **43%** of the lake capacity and **156%** of the average December 31<sup>st</sup> carryover storage figure of **155,290** acre-feet. The following table summarizes the history of winter carryover storage levels at Lake Isabella:

ISABELLA RESERVOIR  
DECEMBER 31<sup>st</sup> STORAGE  
In Order of Magnitude

Rank	Year	Storage									
1	1966	313,258	12	1969	225,535	23	1981	168,210	34	1992	82,262
2	1983	311,944	13	1974	223,930	24	1987	143,410	35	1955	78,567
3	1982	261,558	14	1979	208,768	25	1956	130,313	36	1988	73,545
4	1996	252,811	15	1973	205,948	26	1968	124,480	37	1959	71,608
5	1995	246,474	16	1967	199,937	27	1971	122,040	38	1976	67,701
6	1984	244,979	17	1958	198,112	28	1964	118,303	39	1972	55,589
7	1978	244,904	18	1985	195,516	29	1994	115,585	40	1990	46,014
8	1986	244,085	19	1970	172,038	30	1957	101,413	41	1977	43,820
9	1997	242,525	20	1965	171,193	31	1991	89,654	42	1960	29,119
9	1993	242,525	21	1975	170,190	32	1989	85,978	43	1961	17,524
11	1980	229,813	22	1963	170,043	33	1962	82,849	44	1954	8,670

Operations

Kern River regulated flow during the 1997 calendar year amounted to 1,133,463 acre-feet, 158% of the 1954-1997 average regulated flow at First Point of Measurement of 719,385 acre-feet. Peak regulated flow during 1997 occurred on March 4<sup>th</sup>, with a mean daily discharge of 3,495 cubic feet per second. February regulated flow of 142,831 acre-feet became the new maximum of record. This was due in large part to the rapid evacuation of Isabella Reservoir storage space by order of the U.S. Army Corps of Engineers. The only other time February regulated flow exceeded 100,000 acre-feet was in 1969.

The total water yield of the Kern River drainage basin and its surface storage reservoir in acre-feet during 1997 is summarized as follows:

Kern River Computed Natural Flow . . . . .	1,181,969	+
Isabella Reservoir Storage . . . . .	10,287	+
Isabella Reservoir Evaporation . . . . .	55,815	-
Kern River Diversion Above First Point . . . . .	2,978	-
Kern River Regulated Flow at First Point . . . . .	1,133,463	=

The delivery of *Kern River* water to canal and conveyance facilities located below First Point of Measurement during 1997 was as follows:

<u>Delivery Point</u>	<u>Flow in Acre-Feet</u>
Beardsley Canal	291,379
Calloway Canal (Net of River Loss)	117,299
Kern Island Canal	153,467
Eastside Canal	19,099
Stine Canal	32,112
Truxtun Lakes	7,047
Arvin-Edison Turnout	84,925
Buena Vista Canal	41,064
James Canal	13,277
Rosedale Channel	55,112
Pioneer Canal	13,398
Berrenda Mesa Spreading Grounds	4,363
Pioneer Property	23,931
Basin 9 Turntable Pump	565
Boswell Turnout	1,626
2800 Acre Recharge Facility	22,690
Second Point of Measurement	160,861
Seepage Loss (River & Carrier)	91,248

The Kern River Channel was utilized extensively during 1997 for recharge purposes and conveyance of water to downstream canals and facilities. Total water recharged in the Kern River Channel below First Point of Measurement during 1997 amounted to 89,487 acre-feet.

The Kern River Intertie with the California Aqueduct was activated on January 9, 1997 to receive Friant-Kern flood flows entering the Kern River Channel. During January and February of 1997, 124,796 acre-feet of Friant-Kern water was introduced to the Kern River, of which 51,055 acre-feet was diverted via the Intertie. During February 1997, mandatory release operations at Isabella Reservoir resulted in 1,793 acre-feet of Kern River water entering the California Aqueduct over a seven-day period.

Year: 1997

Kern River at First Point of Measurement "Computed Natural"

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2,151	2,697	1,477	2,535	3,191	3,970	1,314	848	395	407	349	458
2	8,653	2,589	1,389	2,450	3,185	3,629	1,283	799	519	372	332	441
3	19,794	2,454	1,462	2,319	3,162	3,449	1,273	776	1,043	355	309	436
4	9,127	2,330	1,498	2,199	3,140	3,226	1,266	785	693	348	306	495
5	5,897	2,272	1,506	2,101	3,161	3,018	1,284	821	544	320	296	559
6	4,408	2,192	1,467	2,045	3,225	2,863	1,292	828	491	299	304	671
7	3,668	2,095	1,476	1,986	3,328	2,770	1,290	824	427	286	315	631
8	3,167	2,003	1,481	1,959	3,424	2,760	1,292	816	394	284	332	832
9	2,823	1,926	1,539	1,924	3,449	2,692	1,268	795	400	317	337	604
10	2,550	1,870	1,584	1,909	3,405	2,551	1,269	750	401	334	453	502
11	2,349	1,800	1,682	1,902	3,389	2,369	1,292	693	396	367	390	498
12	2,425	1,778	1,730	1,889	3,498	2,284	1,296	664	388	391	383	493
13	2,304	1,766	1,809	1,869	3,681	2,189	1,262	657	379	397	386	477
14	2,036	1,776	1,809	1,868	3,902	2,118	1,198	646	333	393	407	485
15	2,453	1,737	1,835	1,887	4,057	1,987	1,155	611	308	371	400	493
16	2,155	1,730	1,856	1,972	4,459	1,980	1,103	588	311	368	381	502
17	2,060	1,731	1,896	2,093	4,314	2,048	1,060	561	330	364	355	502
18	2,003	1,745	1,910	2,230	4,045	2,244	1,036	559	325	348	358	503
19	1,908	1,671	1,969	2,369	3,781	2,429	1,027	540	336	331	363	501
20	2,133	1,628	2,066	2,566	3,502	2,513	1,004	556	358	328	580	488
21	2,044	1,668	2,161	2,789	3,350	2,420	1,030	549	379	311	443	471
22	2,478	1,702	2,242	2,994	3,359	2,244	1,068	539	366	295	422	462
23	3,794	1,694	2,272	3,039	3,393	2,052	1,275	501	358	295	401	455
24	3,164	1,591	2,352	2,988	3,257	1,953	1,592	464	389	317	399	434
25	4,889	1,540	2,381	2,895	3,014	1,880	1,239	450	427	331	404	416
26	6,464	1,569	2,503	2,933	2,845	1,828	1,013	447	539	319	582	400
27	4,675	1,628	2,637	3,018	2,875	1,737	995	448	552	319	551	395
28	3,724	1,640	2,755	3,128	3,201	1,636	968	444	464	324	465	408
29	3,102	-	2,748	3,150	3,489	1,565	956	428	451	343	470	428
30	2,909	-	2,683	3,044	3,751	1,368	940	415	432	356	480	455
31	2,729	-	2,551	-	4,206	-	919	380	-	360	-	498
TOTAL	124,036	52,822	60,726	72,050	108,038	71,772	36,259	19,182	13,128	10,550	11,953	15,393
MAXIMUM DAY	19,794	2,697	2,755	3,150	4,459	3,970	1,592	848	1,043	407	582	832
MINIMUM DAY	1,908	1,540	1,389	1,868	2,845	1,368	919	380	308	284	296	395
MEAN	4,001	1,887	1,959	2,402	3,485	2,392	1,170	619	438	340	398	497
TOTAL AC.FT.	246,022	104,771	120,448	142,909	214,290	142,358	71,919	38,047	26,039	20,926	23,708	30,532
WHOLE YEAR:-	TOTAL,	595,909	MAX.,	19,794	MIN.,	284	MEAN,	1,633	TOTAL AC.FT.,	1,181,969		

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

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1,765	2,057	1,089	2,112	3,077	4,051	1,094	714	326	320	290	385
2	9,661	1,957	1,093	1,968	2,986	3,503	974	659	334	354	284	359
3	20,664	1,817	1,074	1,871	2,942	3,347	938	603	572	332	274	349
4	8,512	1,721	1,057	1,765	2,974	3,089	972	658	529	312	271	347
5	6,160	1,656	1,039	1,693	2,981	2,881	1,015	653	445	303	269	387
6	4,431	1,569	1,040	1,627	3,167	2,621	1,029	670	408	293	268	526
7	3,680	1,498	1,055	1,580	3,340	2,403	1,041	650	377	293	268	507
8	3,223	1,463	1,078	1,579	3,460	2,428	1,021	649	360	302	271	626
9	2,862	1,382	1,101	1,472	3,442	2,425	1,010	655	345	300	265	463
10	2,606	1,372	1,162	1,428	3,286	2,178	1,133	618	332	297	283	422
11	2,432	1,352	1,248	1,386	3,265	2,046	1,231	571	321	346	342	442
12	2,269	1,321	1,349	1,361	3,488	2,084	1,183	527	316	347	311	425
13	1,721	1,285	1,435	1,351	3,901	1,977	1,147	488	305	352	329	427
14	1,529	1,254	1,448	1,392	4,075	1,781	1,137	473	298	350	347	416
15	1,595	1,258	1,479	1,439	4,587	1,657	1,121	464	251	337	313	418
16	1,499	1,269	1,533	1,527	4,868	1,570	1,072	457	283	318	297	403
17	1,448	1,278	1,485	1,677	4,516	1,731	1,007	451	277	303	300	406
18	1,405	1,253	1,485	1,837	4,356	1,925	951	440	275	301	306	406
19	1,408	1,220	1,573	1,981	3,733	2,219	934	421	281	294	357	387
20	1,453	1,272	1,697	2,207	3,368	2,440	892	416	281	297	428	376
21	1,467	1,251	1,766	2,465	3,322	2,326	877	400	278	295	361	374
22	1,626	1,236	1,767	2,739	3,272	2,047	964	389	276	299	346	347
23	3,284	1,220	1,822	2,895	3,297	1,810	1,198	378	269	294	344	350
24	2,650	1,184	1,866	2,686	3,103	1,659	1,489	377	264	298	335	356
25	4,304	1,144	1,929	2,468	2,777	1,592	1,164	371	271	291	324	324
26	5,554	1,159	2,121	2,533	2,515	1,563	964	359	416	284	433	321
27	3,824	1,159	2,251	2,891	2,506	1,538	854	347	457	282	427	333
28	3,031	1,147	2,329	3,122	2,879	1,440	819	336	388	283	397	349
29	2,584	-	2,303	3,054	3,338	1,307	817	329	352	283	409	353
30	2,299	-	2,265	2,962	3,735	1,192	814	323	335	283	409	357
31	2,157	-	2,223	-	4,270	-	782	321	-	279	-	368
TOTAL	113,103	38,754	48,162	61,068	106,826	64,830	31,644	15,167	10,222	9,522	9,858	12,309
MAXIMUM DAY	20,664	2,057	2,329	3,122	4,868	4,051	1,489	714	572	354	433	626
MINIMUM DAY	1,405	1,144	1,039	1,351	2,506	1,192	782	321	251	279	265	321
MEAN	3,648	1,384	1,554	2,036	3,446	2,161	1,021	489	341	307	329	397
TOTAL AC.FT.	224,336	76,867	95,528	121,127	211,886	128,588	62,765	30,083	20,275	18,887	19,553	24,415
WHOLE YEAR:-	TOTAL,	521,465	MAX.,	20,664	MIN.,	251	MEAN,	1,429	TOTAL AC.FT.,	1,034,310		

Year: 1997

Kern River at First Point of Measurement "Regulated"

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1,917	1,918	3,248	1,997	1,518	2,329	2,187	2,111	1,210	828	716	566
2	2,235	1,906	3,304	2,127	1,622	2,341	2,176	2,098	1,241	797	691	474
3	1,774	1,965	3,420	2,063	1,572	2,113	2,120	2,141	1,196	676	777	435
4	1,107	2,165	3,495	1,901	1,490	2,196	2,018	2,195	1,149	518	818	426
5	949	2,161	3,368	1,758	1,509	2,413	1,942	2,242	1,112	469	838	470
6	934	2,148	3,129	1,681	1,549	2,502	2,115	2,185	958	474	824	515
7	876	2,145	3,061	1,750	1,611	2,620	2,241	2,182	981	461	853	497
8	763	2,122	2,946	1,866	1,650	2,692	2,230	2,187	1,105	490	867	489
9	707	2,122	2,892	1,954	1,673	2,703	2,365	2,170	1,120	472	852	486
10	688	2,219	2,830	1,845	1,556	2,404	2,435	2,107	1,143	528	882	482
11	707	2,458	2,749	1,649	1,454	2,262	2,419	2,114	1,158	523	861	537
12	715	2,577	2,737	1,416	1,551	2,274	2,259	1,979	1,101	539	850	577
13	726	2,565	2,655	1,375	1,578	2,206	2,104	1,813	876	595	871	559
14	730	2,567	2,502	1,485	1,671	1,860	2,169	1,710	828	652	869	556
15	754	2,634	2,335	1,537	1,789	1,751	2,323	1,665	882	661	869	540
16	777	2,636	2,344	1,539	1,827	1,891	2,425	1,534	915	658	823	531
17	764	2,628	2,409	1,520	1,751	2,225	2,393	1,658	897	622	782	580
18	753	2,541	2,493	1,483	1,797	2,248	2,246	1,803	826	611	765	610
19	739	2,684	2,516	1,448	1,917	2,256	2,020	1,776	810	643	822	569
20	750	2,902	2,535	1,447	2,165	2,254	2,026	1,739	764	652	836	491
21	753	2,985	2,517	1,483	2,593	2,123	2,191	1,676	749	645	849	493
22	798	2,989	2,426	1,457	2,763	2,070	2,345	1,597	737	644	857	482
23	886	3,029	2,246	1,480	2,649	2,137	2,343	1,528	797	592	855	425
24	959	3,131	2,131	1,515	2,487	2,190	2,168	1,463	782	814	817	400
25	1,029	3,090	2,128	1,486	2,453	2,249	2,046	1,390	777	1,006	734	382
26	1,177	3,209	2,095	1,411	2,503	2,248	1,929	1,405	754	1,027	692	385
27	1,080	3,252	2,002	1,369	2,486	2,209	1,984	1,405	721	988	614	431
28	1,045	3,263	1,937	1,419	2,473	2,139	2,013	1,344	689	914	603	754
29	1,269	-	1,767	1,431	2,402	2,137	2,011	1,217	760	947	607	793
30	1,716	-	1,809	1,474	2,426	2,171	2,079	1,129	812	985	590	698
31	1,863	-	1,974	-	2,413	-	2,097	1,115	-	884	-	447
TOTAL	31,940	72,011	80,000	48,366	60,898	67,213	67,419	54,678	27,850	21,315	23,684	16,080
MAXIMUM INSTAN.	2,767	3,272	3,587	2,170	2,895	2,857	2,520	2,324	1,358	1,060	1,066	821
MINIMUM INSTAN.	634	1,871	1,656	1,202	1,345	1,736	1,908	1,097	680	392	300	340
MEAN	1,030	2,572	2,581	1,612	1,964	2,240	2,175	1,764	928	688	789	519
TOTAL AC.FT.	63,352	142,831	158,678	95,933	120,789	133,315	133,724	108,452	55,240	42,278	46,977	31,894
WHOLE YEAR:-	TOTAL,	571,454	MAX.,	3,587	MIN.,	300	MEAN,	1,566	TOTAL AC.FT.,	1,133,463		

Year: 1997

Kern River Conduit at Alternate Second Point (Total Flow)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	228	285	298	203	188	433	144	260	63	29	5	0
2	283	210	298	199	188	433	148	257	78	27	0	0
3	364	184	326	198	198	413	162	274	73	23	0	0
4	350	182	352	200	190	508	171	269	47	34	0	0
5	342	180	348	199	193	629	222	286	43	32	0	0
6	341	175	319	199	151	601	260	279	31	31	0	0
7	298	180	299	199	140	598	285	270	27	26	0	0
8	262	181	273	203	154	616	280	267	25	32	0	0
9	274	162	250	198	143	546	276	275	0	51	0	0
10	275	138	258	202	136	336	286	261	0	31	0	0
11	272	168	261	203	139	209	246	244	0	52	0	0
12	271	178	224	213	137	203	184	180	0	54	0	0
13	274	236	207	210	133	214	151	126	0	34	0	0
14	297	306	207	203	131	160	125	126	0	46	0	0
15	372	301	208	201	136	148	131	134	0	56	0	0
16	372	307	206	198	131	108	133	125	0	55	0	0
17	364	302	206	194	135	93	112	141	0	55	0	0
18	339	304	204	209	137	85	120	168	0	55	0	0
19	365	358	200	211	164	86	105	156	0	55	0	0
20	369	398	199	208	231	89	96	151	0	56	0	0
21	371	395	202	197	344	108	125	121	0	65	0	0
22	353	400	197	200	439	145	187	102	0	67	0	0
23	360	401	201	200	468	140	244	99	0	66	0	0
24	368	342	204	197	406	121	248	105	0	67	0	0
25	371	294	202	187	378	141	235	88	0	68	0	0
26	372	300	203	196	375	156	190	67	0	67	0	0
27	367	297	202	195	378	144	206	68	0	65	0	0
28	361	300	200	191	374	134	215	70	0	65	0	0
29	346	-	199	186	343	128	204	67	0	66	0	0
30	336	-	200	190	377	139	221	79	23	64	0	0
31	293	-	202	-	414	-	237	77	-	51	-	0
TOTAL	10,210	7,464	7,355	5,989	7,451	7,864	5,949	5,192	410	1,545	5	0
MAXIMUM DAY	372	401	352	213	468	629	286	286	78	68	5	0
MINIMUM DAY	228	138	197	186	131	85	96	67	0	23	0	0
MEAN	329	267	237	200	240	262	192	167	14	50	0	0
TOTAL AC.FT.	20,251	14,805	14,588	11,879	14,779	15,598	11,800	10,298	813	3,064	10	0
WHOLE YEAR:-	TOTAL,	59,434	MAX.,	629	MIN.,	0	MEAN,	163	TOTAL AC.FT.,	117,885		

Year: 1997

Kern River Channel at Second Point of Measurement (Total Flow)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	868	602	174	0	0	0	0	0	0	0	0
2	0	866	680	194	0	0	0	0	0	0	0	0
3	0	790	713	171	0	0	0	0	0	0	0	0
4	97	661	767	103	0	0	0	0	0	0	0	0
5	147	607	766	82	0	0	0	0	0	0	0	0
6	282	622	730	86	0	0	0	0	0	0	0	0
7	317	657	659	97	0	0	0	0	0	0	0	0
8	476	642	606	111	0	0	0	0	0	0	0	0
9	424	652	546	121	0	0	0	0	0	0	0	0
10	461	719	480	140	0	0	0	0	0	0	0	0
11	455	858	420	116	0	0	0	0	0	0	0	0
12	418	886	405	79	0	0	0	0	0	0	0	0
13	476	921	384	34	0	0	0	0	0	0	0	0
14	493	997	317	0	0	0	0	0	0	0	0	0
15	624	1,180	233	0	0	0	0	0	0	0	0	0
16	919	1,211	233	0	0	0	0	0	0	0	0	0
17	865	1,299	234	0	0	0	0	0	0	0	0	0
18	876	1,295	234	0	0	0	0	0	0	0	0	0
19	837	1,342	232	10	0	0	0	0	0	0	0	0
20	823	1,451	236	6	0	0	0	0	0	0	0	0
21	782	1,469	245	0	0	0	0	0	0	0	0	0
22	768	1,425	294	0	0	0	0	0	0	0	0	0
23	791	1,400	205	0	0	0	0	0	0	0	0	0
24	814	1,278	189	0	0	0	0	0	0	0	0	0
25	824	848	193	0	0	0	0	0	0	0	0	0
26	973	545	162	8	0	0	0	0	0	0	0	0
27	919	520	144	0	0	0	0	0	0	0	0	0
28	804	567	181	0	0	0	0	0	0	0	0	0
29	782	-	168	0	0	0	0	0	0	0	0	0
30	1,015	-	162	0	0	0	0	0	0	0	0	0
31	1,026	-	187	-	0	-	0	0	-	0	-	0
TOTAL	18,488	26,576	11,607	1,532	0	0	0	0	0	0	0	0
MAXIMUM DAY	1,026	1,469	767	194	0	0	0	0	0	0	0	0
MINIMUM DAY	0	520	144	0	0	0	0	0	0	0	0	0
MEAN	596	949	374	51	0	0	0	0	0	0	0	0
TOTAL AC.FT.	36,670	52,712	23,023	3,039	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	58,203	MAX.,	1,469	MIN.,	0	MEAN,	159	TOTAL AC.FT.,	115,444		

Year: 1997

Friant-Kern Inflow to Kern River Channel (Total Flow)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	1,170	0	0	0	0	0	0	0	0	0	0
2	0	1,170	0	0	0	0	0	0	0	0	0	0
3	83	1,007	0	0	0	0	0	0	0	0	0	0
4	925	667	0	0	0	0	0	0	0	0	0	0
5	1,100	538	0	0	0	0	0	0	0	0	0	0
6	1,100	520	0	0	0	0	0	0	0	0	0	0
7	1,137	520	0	0	0	0	0	0	0	0	0	0
8	1,366	520	0	0	0	0	0	0	0	0	0	0
9	1,485	520	0	0	0	0	0	0	0	0	0	0
10	1,433	558	0	0	0	0	0	0	0	0	0	0
11	1,436	573	0	0	0	0	0	0	0	0	0	0
12	1,457	450	0	0	0	0	0	0	0	0	0	0
13	1,420	450	0	0	0	0	0	0	0	0	0	0
14	1,399	585	0	0	0	0	0	0	0	0	0	0
15	1,633	727	0	0	0	0	0	0	0	0	0	0
16	1,974	750	0	0	0	0	0	0	0	0	0	0
17	1,960	777	0	0	0	0	0	0	0	0	0	0
18	2,005	819	0	0	0	0	0	0	0	0	0	0
19	2,020	850	0	0	0	0	0	0	0	0	0	0
20	2,020	850	0	0	0	0	0	0	0	0	0	0
21	1,970	782	0	0	0	0	0	0	0	0	0	0
22	1,940	725	0	0	0	0	0	0	0	0	0	0
23	1,932	698	0	0	0	0	0	0	0	0	0	0
24	1,840	553	0	0	0	0	0	0	0	0	0	0
25	1,870	287	0	0	0	0	0	0	0	0	0	0
26	1,900	69	0	0	0	0	0	0	0	0	0	0
27	1,898	0	0	0	0	0	0	0	0	0	0	0
28	1,862	0	0	0	0	0	0	0	0	0	0	0
29	1,749	-	0	0	0	0	0	0	0	0	0	0
30	1,508	-	0	0	0	0	0	0	0	0	0	0
31	1,362	-	0	-	0	-	0	0	-	0	-	0
TOTAL	45,784	17,135	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	2,020	1,170	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	1,477	612	0	0	0	0	0	0	0	0	0	0
TOTAL AC.FT.	90,810	33,986	0	0	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	62,919	MAX.,	2,020	MIN.,	0	MEAN,	172	TOTAL AC.FT.,	124,796		

Year: 1997

Friant-Kern Inflow to Poso Creek Channel (Total Flow)

DISCHARGE IN CUBIC FEET PER SECOND

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	68	0	0	0	0	0	0
5	0	0	0	0	0	100	0	0	0	0	0	0
6	0	0	0	0	0	97	0	0	0	0	0	0
7	0	0	0	0	0	33	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	34	0	0	0	0	0	0	0	0
15	0	0	0	51	0	0	0	0	0	0	0	0
16	0	0	0	48	0	0	0	0	0	0	0	0
17	0	0	0	48	0	0	0	0	0	0	0	16
18	0	0	0	48	0	0	0	0	0	0	0	25
19	0	0	0	46	0	0	0	0	0	0	0	24
20	0	0	0	43	0	0	0	0	0	0	0	8
21	0	0	0	44	0	0	0	0	0	0	0	0
22	0	0	0	47	0	0	0	0	0	0	0	0
23	0	0	0	48	0	0	0	0	0	0	0	0
24	0	0	0	50	0	0	0	0	0	0	0	0
25	0	0	0	50	0	0	0	0	0	0	0	0
26	0	0	0	48	0	0	0	0	0	0	0	0
27	0	0	0	50	0	0	0	0	0	0	0	0
28	0	0	0	50	0	0	0	0	0	0	0	0
29	0	-	0	17	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	722	0	298	0	0	0	0	0	73
MAXIMUM DAY	0	0	0	51	0	100	0	0	0	0	0	25
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	24	0	10	0	0	0	0	0	2
TOTAL AC.FT.	0	0	0	1,432	0	591	0	0	0	0	0	145
WHOLE YEAR:-	TOTAL,	1,093	MAX.,	100	MIN.,	0	MEAN,	3	TOTAL AC.FT.,	2,168		

Quantities in acre—feet

CITY OF BAKERSFIELD  
SUMMARY OF KERN RIVER ENTITLEMENTS

Year: 1997

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Buena Vista W.S.D. Entitlement	48,922	6,827	33,162	41,669	70,560	41,774	17,016	6,234	0	0	0	0	266,164
Hacienda W.D. Entitlement	0	33,262	39,748	0	0	0	0						73,010
K.C.L. Entitlement @ 2nd Point	2,337	333	1,376	1,997	3,374	1,997	817	298	0	0	0	0	12,529
Kern Island (1-st) Eastside	22,439	16,661	18,315	17,851	18,446	17,851	18,446	18,446	17,845	18,256	17,794	18,446	220,796
Kern River Conduit			27,137	23,808	30,391	23,693	18,785	11,288					135,102
Castro	371	165	0	119	171	127	99	18	264	193	238	308	2,073
KCC & W Co.	1,010	432	0	417	460	413	272	28	700	502	628	847	5,709
South Fork	716	319	0	298	332	294	190	22	498	313	448	609	4,039
Buena Vista (1-st)	5,482	2,380	0	2,151	2,559	2,172	1,450	172	2,906	986	2,535	4,554	27,347
James (1-st)	8,229	3,574	0	3,231	3,840	3,263	2,164	261	1,773		1,178	3,846	31,359
Anderson (1-st)	1,381	597	0	536	631	540	371	46	159		113	191	4,565
Stine	10,294	4,463	4	4,042	4,800	4,074	2,711	326	571		119	801	32,205
Meacham	2,057	888	0	809	958	817	538	65	60		58		6,250
Farmers	10,294	4,463	4	4,042	4,800	4,074	2,711	167	294			196	31,045
Plunket	2,745	1,190	0	1,081	1,283	1,087	710		77				8,173
Joyce	2,745	1,190	0	1,081	1,283	1,087	688		77				8,151
Johnson	2,745	1,190	0	1,081	1,283	1,087	651		77				8,114
Pioneer	8,914	3,864	2	3,509	4,160	3,529	1,724		83				25,785
Beardsley (1-st)	4,120	1,781	0	1,614	1,916	1,632	696						11,759
Lerdo (NKWSD)													
Anderson (2-nd)	682	294	0	274	325	278	103						1,956
James & Dixon	2,745	1,190	0	1,081	1,283	1,087	421						7,807
Wilson	428	180	0	155	200	159	60						1,182
KCC & W Co.	254	113	0	119	125	119	32						762
McCaffrey	1,781	772	0	698	829	708	240						5,028
McCord: Lerdo 30%	2,057	888	0	809	960	813	54						5,581
Beardsley 70%	4,798	2,081	0	1,894	2,239	1,894	127						13,033
Calloway: Central 20%	11,227	2,737	4	3,954	5,438	3,867	34						27,261
NKWSD 80%	44,906	10,951	10	15,818	21,755	15,470	133						109,043
Railroad: KCC & W Co. 20%	2,101	161	0	524	1,283	540							4,609
NKWSD 80%	8,400	645	6	2,094	5,119	2,162							18,426
Buena Vista (2-nd)	4,300	240	0	1,021	2,880	966							9,407
James (2-nd)	8,091	329	4	1,726	5,754	1,606							17,510
Pioneer (2-nd)	7,105			1,493	5,411	1,142							15,151
Beardsley (3-rd)	9,548			1,200	7,157	1,146							19,051
Kern Island (2-nd)	2,122			58	1,609	235							4,024
Computed Loss	676	611	676	655	676	655	676	676	655	676	655	676	7,963
Total 1st Point Group Entitlement	197,100	64,682	47,538	101,240	143,730	100,584	54,903	31,813	26,039	20,926	23,708	30,532	842,795

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

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>FIRST POINT REGULATED FLOW</b>	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
BEARDSLEY CANAL	5,937	12,109	27,630	25,847	33,876	34,556	35,679	30,704	22,100	16,528	29,217	17,196	291,379
CALLOWAY CANAL (Net of River Loss)	10,641	12,642	17,361	10,332	14,979	17,548	17,298	12,218	4,280	0	0	0	117,299
KERN ISLAND CANAL	6,474	8,864	16,566	16,241	22,756	22,629	22,088	18,016	9,957	5,766	1,446	2,664	153,467
EASTSIDE CANAL	315	682	1,749	2,348	3,406	3,176	3,148	2,311	910	885	119	50	19,099
STINE CANAL	1,470	3,094	4,600	1,188	1,029	5,857	7,065	5,544	2,265	0	0	0	32,112
TRUXTUN LAKES	446	575	482	549	748	482	1,105	1,172	456	514	125	393	7,047
ARVIN-EDISON TURNOUT	976	6,910	1,741	270	9,019	15,118	16,756	15,134	7,273	6,262	972	4,494	84,925
BUENA VISTA CANAL	734	5,129	5,691	3,483	3,771	6,696	7,375	5,098	1,849	700	133	405	41,064
JAMES CANAL	1,220	5,704	3,707	492	1,511	643	0	0	0	0	0	0	13,277
ROSEDALE CHANNEL	7,119	12,797	12,385	4,544	3,836	2,822	2,388	0	0	1,646	6,682	893	55,112
PIONEER CANAL	1,523	8,104	2,279	1,093	399	0	0	0	0	0	0	0	13,398
BERRENDA MESA SPREADING GROUNDS	139	1,728	2,468	28	0	0	0	0	0	0	0	0	4,363
PIONEER PROPERTY	1,355	8,864	9,590	3,940	182	0	0	0	0	0	0	0	23,931
BASIN 9 TURNTABLE PUMP	0	357	208	0	0	0	0	0	0	0	0	0	565
BOSWELL TURNOUT	700	926	0	0	0	0	0	0	0	0	0	0	1,626
2800 ACRE RECHARGE FACILITY	3,024	7,363	6,682	3,941	1,680	0	0	0	0	0	0	0	22,690
CARRIER CANAL LOSS/REFILL	676	625	670	659	686	772	817	714	530	527	224	331	7,231
RIVER LOSS & SPREADING	6,015	8,976	7,258	6,060	8,132	7,418	8,205	7,243	4,807	6,386	8,049	5,468	84,017
<b>FIRST POINT CANALS TOTAL FLOW</b>	48,764	105,449	121,067	81,015	106,010	117,717	121,924	98,154	54,427	39,214	46,967	31,894	972,602
<b>TOTAL FLOW AT SECOND POINT</b>	14,588	37,382	37,611	14,918	14,779	15,598	11,800	10,298	813	3,064	10	0	160,861

1997 Summary of Kern River Water  
Diversions by Entity

(Acre–Feet)

<u>Area of Use</u>	<u>Diverted</u>
<u>Above First Point</u>	
City of Bakersfield	0
Kern Valley Golf Course	181
La Hacienda, Inc.	469
Lake Ming	790
Olcese WD	1,538
Sub–total	2,978
 <u>Below First Point</u>	
Arvin–Edison WSD	23,405
Buena Vista WSD	149,795
Cawelo WD	74,660
City of Bakersfield, Irrigation and Spreading	79,571
Henry Miller WD	2,731
Improvement District #4	107,133
Kern County Water Agency	9,182
Kern Delta WD	254,420
Kern–Tulare WD	10,945
Kern Water Bank Authority	42,057
North Kern WSD	262,024
Olcese WD/La Hacienda	10,000
Rag Gulch WD	1,641
Rosedale Ranch Improvement District	17,379
Rosedale Rio Bravo WSD	87,926
South Fork	594
Sub–total	1,133,463
Grand Total	1,136,441

**UTILIZATION OF STORAGE - ISABELLA RESERVOIR  
KERN RIVER FIRST POINT GROUP**

Year: 1997

*End of Month Unit Storage*

*Quantities in acre-feet*

STORAGE UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern Island	2,500	15,000	15,000	15,000	13,093	6,639	2,115	2,500	2,500	2,500	2,500	2,500	81,847
Buena Vista	1,500	4,106	1,527	3,726	7,777	6,843	5,780	2,000	1,500	1,500	1,500	1,500	39,259
Stine	1,500	5,945	2,166	4,848	8,029	7,634	5,000	1,486	1,500	1,500	1,500	1,500	42,608
Farmers	1,500	5,945	3,517	6,000	6,000	5,726	4,000	1,321	2,000	1,500	1,500	1,500	40,509
<b>KERN DELTA WD TOTAL</b>	<b>7,000</b>	<b>30,996</b>	<b>22,210</b>	<b>29,574</b>	<b>34,899</b>	<b>26,842</b>	<b>16,895</b>	<b>7,307</b>	<b>7,500</b>	<b>7,000</b>	<b>7,000</b>	<b>7,000</b>	<b>204,223</b>
City of Bakersfield	145,491	46,665	39,062	48,597	65,821	52,070	33,819	21,270	16,986	14,428	9,295	7,293	500,797
Kern River Canal & Irr. Co.	26,608	15,753	14,339	16,274	22,334	23,595	21,904	19,799	18,580	17,635	17,383	18,129	232,333
South Fork	600	919	911	1,315	1,932	2,200	2,461	2,399	2,980	3,644	600	600	20,561
<b>CITY OF BAKERSFIELD TOTAL</b>	<b>172,699</b>	<b>63,337</b>	<b>54,312</b>	<b>66,186</b>	<b>90,087</b>	<b>77,865</b>	<b>58,184</b>	<b>43,468</b>	<b>38,546</b>	<b>35,707</b>	<b>27,278</b>	<b>26,022</b>	<b>753,691</b>
<b>NORTH KERN WSD</b>	<b>85,537</b>	<b>94,332</b>	<b>59,929</b>	<b>77,853</b>	<b>100,262</b>	<b>117,622</b>	<b>105,211</b>	<b>92,412</b>	<b>89,887</b>	<b>95,534</b>	<b>86,380</b>	<b>88,179</b>	<b>1,093,138</b>
<b>TOTAL 1ST POINT STORAGE</b>	<b>265,236</b>	<b>188,665</b>	<b>136,451</b>	<b>173,613</b>	<b>225,248</b>	<b>222,329</b>	<b>180,290</b>	<b>143,187</b>	<b>135,933</b>	<b>138,241</b>	<b>120,658</b>	<b>121,201</b>	<b>2,051,052</b>

**KERN DELTA WATER DISTRICT**

**KERN DELTA WATER DISTRICT**  
**Monthly Summary of Kern River Entitlements, Diversions,**  
**Deliveries and Storage ... All Canals**

Quantities in acre-feet

Year: 1997

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	54,931	28,207	18,323	29,165	35,094	29,372	25,318	19,111	21,616	19,242	20,448	23,997	324,824
Release	(45,944)	0	(430)	(636)	(1,031)	(321)	(737)	(561)	(7,938)	(12,943)	(17,679)	(18,443)	(106,663)
Entitlement + or - Releases	= 8,987	28,207	17,893	28,529	34,063	29,051	24,581	18,550	13,678	6,299	2,769	5,554	218,161
Into Isabella Storage	- 18	24,094	712	7,923	8,725	634	1,007	2,411	2,348	94	48	38	48,052
From Isabella Storage	+ 0	0	9,239	221	2,804	8,123	10,478	11,726	1,999	468	0	0	45,058
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	- 0	0	0	0	0	0	0	0	0	0	0	0	0
To 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	0	0	0	0	0	0	0	0
Other	+ or - 0	12,300	0	0	0	0	0	0	0	(232)	0	0	12,068
Diverted at Heads of Canals	= 8,969	16,413	26,420	20,827	28,142	36,540	34,052	27,865	13,329	6,441	2,541	5,322	226,861
From Cawelo Water District	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
From North Kern WSD	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Total Utility Supply	= 8,969	16,413	26,420	20,827	28,142	36,540	34,052	27,865	13,329	6,441	2,541	5,322	226,861
Utility Deliveries	3,100	8,177	19,108	14,507	20,564	27,157	26,124	19,356	6,896	2,679	1,146	2,703	151,517
Contract Deliveries	11	317	703	640	741	902	892	774	837	472	24	15	6,328
Total Irrigation Deliveries	- 3,111	8,494	19,811	15,147	21,305	28,059	27,016	20,130	7,733	3,151	1,170	2,718	157,845
Canal Conveyance Losses	= 5,858	7,919	6,609	5,680	6,837	8,481	7,036	7,735	5,596	3,290	1,371	2,604	69,016
Delivery Percentage	35%	52%	75%	73%	76%	77%	79%	72%	58%	49%	46%	51%	70%

Reservoir Evaporation Loss	18	98	259	338	596	568	476	273	156	126	48	38	2,994
End of Month Reservoir Storage	7,000	30,996	22,210	29,574	34,899	26,842	16,895	7,307	7,500	7,000	7,000	7,000	7,000

Year: 1997

Kern Island Canal at 30th Street

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	125	180	157	240	283	291	415	356	206	107	0	21
2	126	178	156	258	252	349	396	361	229	112	0	26
3	145	169	182	275	231	398	365	410	214	108	0	30
4	137	157	224	261	227	418	280	435	201	97	0	24
5	109	155	267	208	260	413	258	437	189	99	0	0
6	110	174	285	198	308	365	274	412	156	101	0	0
7	104	162	304	246	327	403	325	358	151	101	0	0
8	104	158	323	256	355	422	317	337	188	129	10	27
9	104	153	327	291	383	406	392	356	231	118	20	53
10	109	167	352	289	385	341	417	347	246	119	37	54
11	111	179	329	252	361	402	440	359	256	96	36	63
12	113	196	327	215	374	409	433	330	216	87	38	54
13	111	178	305	217	381	334	362	259	162	93	40	48
14	110	190	300	261	392	280	352	240	155	94	38	48
15	110	168	294	292	437	275	365	253	173	92	40	45
16	106	162	282	300	440	330	410	247	189	96	36	44
17	112	135	253	303	424	394	367	258	178	85	42	65
18	124	134	252	316	408	383	327	310	151	81	55	70
19	130	135	268	285	423	362	286	300	162	87	60	74
20	127	140	270	282	451	385	303	302	144	107	57	67
21	131	138	267	292	470	398	361	276	122	111	58	65
22	129	125	261	294	457	341	423	260	130	108	61	63
23	75	123	258	295	436	380	432	237	149	91	69	50
24	23	137	255	307	421	404	407	226	156	94	32	47
25	14	149	274	292	413	420	376	225	139	86	0	46
26	9	172	311	268	421	423	350	225	115	78	0	46
27	44	175	305	271	405	435	355	238	111	75	0	46
28	52	180	272	296	396	417	348	213	90	86	0	41
29	109	-	237	318	325	413	316	172	106	87	0	39
30	178	-	213	310	307	418	339	167	105	59	0	38
31	173	-	242	-	320	-	345	177	-	23	-	49
TOTAL	3,264	4,469	8,352	8,188	11,473	11,409	11,136	9,083	5,020	2,907	729	1,343
MAXIMUM DAY	178	196	352	318	470	435	440	437	256	129	69	74
MINIMUM DAY	9	123	156	198	227	275	258	167	90	23	0	0
MEAN	105	160	269	273	370	380	359	293	167	94	24	43
TOTAL AC.FT.	6,474	8,864	16,566	16,241	22,756	22,629	22,088	18,016	9,957	5,766	1,446	2,664
WHOLE YEAR:-	TOTAL,	77,373	MAX.,	470	MIN.,	0	MEAN,	212	TOTAL AC.FT.,	153,467		

Year: 1997

Kern Island Water Delivered via Arvin-Edison Turnout

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	31	31	30	0	0	0	0
2	0	0	0	0	0	29	30	30	0	0	0	0
3	0	0	0	0	0	28	30	28	0	0	0	0
4	0	0	0	0	0	29	30	29	0	0	0	0
5	0	0	0	0	0	29	31	32	0	0	0	0
6	0	0	0	0	0	30	32	29	0	0	0	0
7	0	0	0	0	0	30	31	32	0	0	0	0
8	0	0	0	0	0	30	30	32	0	0	0	15
9	0	0	0	0	0	29	28	32	0	0	0	68
10	0	0	0	0	0	32	31	29	0	0	0	66
11	0	0	0	0	0	24	29	29	0	0	0	66
12	0	0	0	0	0	30	29	29	0	0	0	71
13	0	0	0	0	0	31	29	29	0	0	0	69
14	0	0	0	0	0	32	32	0	0	0	22	67
15	0	0	0	0	0	58	32	0	0	0	79	69
16	0	0	0	0	0	0	28	0	0	0	0	68
17	0	0	0	0	0	31	31	0	0	0	0	111
18	0	0	0	0	0	30	31	0	0	0	0	108
19	0	0	0	0	0	32	31	0	0	0	8	101
20	0	0	0	0	0	30	28	0	0	0	49	90
21	0	0	0	0	0	29	30	0	0	0	81	85
22	0	0	0	0	0	30	29	0	0	0	78	63
23	0	0	0	0	0	28	31	0	0	0	75	0
24	0	0	0	0	0	30	31	0	0	0	60	0
25	0	0	0	0	0	29	30	0	0	0	26	0
26	0	0	0	0	0	30	30	0	0	0	12	0
27	0	0	0	0	0	30	31	0	0	0	0	0
28	0	0	0	0	0	30	32	0	0	0	0	0
29	0	-	0	0	0	29	31	0	0	0	0	0
30	0	-	0	0	32	30	29	0	0	0	0	12
31	0	-	0	-	28	-	31	0	-	0	-	67
TOTAL	0	0	0	0	60	890	939	390	0	0	490	1,196
MAXIMUM DAY	0	0	0	0	32	58	32	32	0	0	81	111
MINIMUM DAY	0	0	0	0	0	0	28	0	0	0	0	0
MEAN	0	0	0	0	2	30	30	13	0	0	16	39
TOTAL AC.FT.	0	0	0	0	119	1,765	1,862	774	0	0	972	2,372
WHOLE YEAR:-	TOTAL,	3,965	MAX.,	111	MIN.,	0	MEAN,	11	TOTAL AC.FT.,	7,864		

KERN DELTA WATER DISTRICT  
KERN ISLAND CANAL SERVICE AREA

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+ 24,561	16,661	18,315	17,909	20,055	18,086	18,446	18,446	17,845	18,256	17,794	18,446	224,820
Release	- 18,769	0	979	1,403	0	0	0	691	8,917	12,709	15,198	13,339	72,005
Entitlement + or - Releases	= 5,792	16,661	17,336	16,506	20,055	18,086	18,446	17,755	8,928	5,547	2,596	5,107	152,815
Into Storage	- 6	12,548	686	259	1,160	0	107	2,407	54	42	18	14	17,301
From Storage	+ 0	0	537	58	2,800	6,272	4,544	1,992	0	0	0	0	16,203
From City of Bakersfield	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal & River Loss	- 0	0	0	0	0	0	0	0	0	0	170	176	346
Other	+/- 0	4,509	0	0	0	0	0	0	0	0	0	0	4,509
Transfer in Storage	+/- 0	0	0	0	0	0	0	0	0	0	0	0	0
Eastside Canal Entitlement	- 0	0	723	1,663	2,313	2,404	2,067	954	0	0	0	0	10,124
To City of Bakersfield	- 0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted at Head	= 5,786	8,622	16,464	14,642	19,382	21,954	20,816	16,386	8,874	5,505	2,408	4,917	145,756
Utility Deliveries	3,060	4,783	11,899	10,214	14,556	16,661	16,481	11,400	4,650	2,451	1,116	2,703	99,974
Contract Deliveries	11	317	698	593	633	844	861	763	837	472	24	15	6,068
Total Irrigation Deliveries	- 3,071	5,100	12,597	10,807	15,189	17,505	17,342	12,163	5,487	2,923	1,140	2,718	106,042
Canal Conveyance Losses	= 2,715	3,522	3,867	3,835	4,193	4,449	3,474	4,223	3,387	2,582	1,268	2,199	39,714
Delivery Percentage	53%	59%	77%	74%	78%	80%	83%	74%	62%	53%	47%	55%	73%

Into Reservoir Storage	6	12,548	686	259	1,160	0	107	2,407	54	42	18	14	17,301
Reservoir Evaporation Loss	6	48	149	201	267	182	87	30	54	42	18	14	1,098
From Reservoir Storage	0	0	537	58	2,800	6,272	4,544	1,992	0	0	0	0	16,203
End of Month Reservoir Storage	2,500	15,000	15,000	15,000	13,093	6,639	2,115	2,500	2,500	2,500	2,500	2,500	

State Exchange Diverted	0	674	1,067	815	1,080	1,407	4,213	1,876	698	313	10	119	12,272
State Exchange Delivered	0	674	1,067	815	1,080	1,407	3,204	1,876	698	313	10	119	11,263
City of Bakersfield Miscellaneous Diverted	24	0	0	0	0	0	127	498	0	0	0	0	649
City of Bakersfield Miscellaneous Delivered	24	0	0	0	0	0	127	498	0	0	0	0	649
Arvin-Edison Payback Diverted	0	0	0	0	0	0	0	0	0	123	0	0	123
Arvin-Edison Payback Delivered	0	0	0	0	0	0	0	0	0	123	0	0	123

KERN ISLAND CANAL  
ENTITLEMENT AND DIVERSION OF CONTRACT WATER  
BALFOUR - GUTHRIE CONTRACT

Year: 1997

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

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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**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	18,315	17,851	18,446	17,851	18,446	18,446	17,845	18,256	17,794	18,446	216,803
Maximum Percentage	100.00%	100.00%	99.41%	100.00%	100.00%	100.00%	100.00%	100.00%	99.97%	98.97%	99.68%	100.00%	

**CONTRACT ENTITLEMENT:**

Maximum	269	242	269	260	269	260	269	269	260	269	260	--	2,896
Actual	269	242	267	260	269	260	269	269	260	266	259	--	2,890
Sum to Date	269	511	778	1,038	1,307	1,567	1,836	2,105	2,365	2,631	2,890		

**CONTRACT DIVERTED:**

For Month	0	88	409	256	261	487	603	179	149	5	0	0	2,437
To Date	0	88	497	753	1,014	1,501	2,104	2,283	2,432	2,437	2,437	2,437	

**UNUSED ENTITLEMENT:**

For Month	269	154	(142)	4	8	(227)	(334)	90	111	261	259	0	453
Sum to Date	269	423	281	285	293	66	(268)	(178)	(67)	194	453	453	

KERN ISLAND CANAL  
ENTITLEMENT AND DIVERSION OF CONTRACT WATER  
BLOOMFIELD CONTRACT

Year: 1997

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

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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**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	18,315	17,851	18,446	17,851	18,446	18,446	17,845	18,256	17,794	18,446	216,803
Maximum Percentage	100.00%	100.00%	99.41%	100.00%	100.00%	100.00%	100.00%	100.00%	99.97%	98.97%	99.68%	100.00%	

**CONTRACT ENTITLEMENT:**

Maximum	336	303	336	325	336	325	336	336	325	336	325	--	3,619
Actual	336	303	334	325	336	325	336	336	325	333	324	--	3,613
Sum to Date	336	639	973	1,298	1,634	1,959	2,295	2,631	2,956	3,289	3,613		

**CONTRACT DIVERTED:**

For Month	11	229	289	337	372	357	258	584	688	467	24	15	3,631
To Date	11	240	529	866	1,238	1,595	1,853	2,437	3,125	3,592	3,616	3,631	

**UNUSED ENTITLEMENT:**

For Month	325	74	45	(12)	(36)	(32)	78	(248)	(363)	(134)	300	(15)	(18)
Sum to Date	325	399	444	432	396	364	442	194	(169)	(303)	(3)	(18)	

Year: 1997

Total Flow for the Eastside Canal via Headgate

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	8	25	42	37	58	45	43	15	17	0	6
2	0	8	20	47	38	63	37	34	16	14	0	6
3	0	4	25	42	40	61	37	39	17	6	0	8
4	0	3	24	41	48	56	36	45	14	4	0	5
5	0	2	25	36	51	49	36	47	17	7	0	0
6	0	2	27	38	51	47	48	47	16	11	0	0
7	0	2	25	42	55	50	52	50	15	13	0	0
8	0	7	29	39	57	50	56	49	19	18	0	0
9	0	15	37	38	47	49	57	39	19	17	0	0
10	4	19	34	30	37	46	61	41	20	15	0	0
11	16	19	30	26	47	50	59	46	21	9	0	0
12	17	18	22	26	60	60	56	46	19	11	0	0
13	17	15	21	28	62	50	49	44	18	18	0	0
14	16	14	22	38	64	29	48	39	16	21	0	0
15	8	11	20	41	63	37	50	37	17	20	0	0
16	6	8	20	40	59	57	55	35	19	18	0	0
17	6	2	32	46	56	66	51	38	21	14	0	0
18	6	14	41	47	57	67	53	40	24	9	2	0
19	6	14	46	39	63	64	57	40	18	9	10	0
20	4	8	45	34	67	63	61	43	16	12	10	0
21	8	14	40	31	66	53	63	43	11	18	10	0
22	0	14	13	38	69	49	65	41	9	18	10	0
23	0	14	29	45	69	53	66	26	10	17	10	0
24	0	16	39	46	60	57	64	32	11	16	3	0
25	0	18	40	44	56	59	48	37	10	16	0	0
26	1	24	22	35	59	58	43	35	7	15	0	0
27	6	25	17	44	58	56	42	34	3	19	0	0
28	12	26	25	49	59	53	42	28	7	22	0	0
29	13	-	16	49	58	45	45	21	17	22	0	0
30	7	-	35	43	56	46	52	16	17	18	5	0
31	6	-	36	-	48	-	53	10	-	2	-	0
TOTAL	159	344	882	1,184	1,717	1,601	1,587	1,165	459	446	60	25
MAXIMUM DAY	17	26	46	49	69	67	66	50	24	22	10	8
MINIMUM DAY	0	2	13	26	37	29	36	10	3	2	0	0
MEAN	5	12	28	39	55	53	51	38	15	14	2	1
TOTAL AC.FT.	315	682	1,749	2,348	3,406	3,176	3,148	2,311	910	885	119	50
WHOLE YEAR:-	TOTAL,	9,629	MAX.,	69	MIN.,	0	MEAN,	26	TOTAL AC.FT.,	19,099		

KERN DELTA WATER DISTRICT  
EASTSIDE CANAL SERVICE AREA

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	0	0	723	1,663	2,313	2,404	2,067	954	0	0	0	0	10,124
State Exchange Diverted	0	682	992	631	1,012	708	1,045	1,323	886	587	107	50	8,023
City Miscellaneous Diverted	0	0	34	54	81	64	36	34	24	10	12	0	349
Friant-Kern Floodwater Diverted	315	0	0	0	0	0	0	0	0	0	0	0	315
Arvin-Edison Payback Diverted	0	0	0	0	0	0	0	0	0	288	0	0	288
Eastside Canal from Head	315	682	1,749	2,348	3,406	3,176	3,148	2,311	910	885	119	50	19,099
Utility Deliveries	0	0	643	1,310	1,841	2,070	1,727	870	0	0	0	0	8,461
Contract Deliveries	0	0	5	47	108	58	31	11	0	0	0	0	260
Total Utility Deliveries	0	0	648	1,357	1,949	2,128	1,758	881	0	0	0	0	8,721
State Exchange Delivered	0	427	878	631	1,012	708	1,045	1,232	819	475	12	15	7,254
City Miscellaneous Delivered	0	0	34	54	81	64	36	34	24	10	12	0	349
Friant-Kern Floodwater Delivered	149	0	0	0	0	0	0	0	0	0	0	0	149
Arvin-Edison Payback Delivered	0	0	0	0	0	0	0	0	0	250	0	0	250
Total Irrigation Deliveries	149	427	1,560	2,042	3,042	2,900	2,839	2,147	843	735	24	15	16,723
Canal Loss (Utility)	0	0	75	306	364	276	309	73	0	0	0	0	1,403
Canal Loss (State)	0	255	114	0	0	0	0	91	67	112	95	35	769
Canal Loss (Other)	166	0	0	0	0	0	0	0	0	38	0	0	204
Total Canal Loss	166	255	189	306	364	276	309	164	67	150	95	35	2,376
Delivery Percentage	47%	63%	89%	87%	89%	91%	90%	93%	93%	83%	20%	30%	88%

Year: 1997

Total Flow via the Buena Vista Canal Headgate

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16	57	142	66	58	88	129	122	33	14	0	0
2	17	73	134	95	52	87	121	117	37	14	0	0
3	20	64	114	105	44	89	113	107	37	14	0	0
4	22	65	93	99	48	101	101	103	35	14	0	0
5	22	70	92	86	46	101	100	104	33	13	0	0
6	19	78	106	61	42	96	96	107	32	12	0	0
7	18	82	102	52	40	103	101	107	35	13	0	0
8	20	83	94	51	42	105	103	112	36	8	0	0
9	19	93	91	51	42	97	117	110	31	12	0	0
10	17	109	96	47	37	97	131	107	33	12	0	0
11	17	107	102	52	42	103	134	110	32	12	0	0
12	17	97	107	60	47	103	125	113	30	12	0	0
13	17	93	112	59	46	110	116	109	27	12	0	0
14	17	82	112	59	48	91	123	100	30	12	0	0
15	17	86	110	66	51	90	125	99	32	14	0	0
16	17	86	99	65	46	101	131	77	34	14	0	10
17	17	85	95	68	47	112	136	71	36	14	0	14
18	17	83	95	74	54	126	138	71	33	13	0	12
19	18	77	81	60	73	153	137	82	33	13	0	13
20	18	76	89	57	77	158	140	86	34	13	0	13
21	17	90	92	51	95	153	138	75	33	13	0	12
22	23	95	94	50	93	134	127	72	36	14	11	13
23	41	99	96	46	81	117	117	68	37	13	15	14
24	39	108	85	42	78	118	117	54	37	13	22	13
25	38	116	85	34	69	123	115	39	29	12	19	14
26	38	146	90	30	74	121	112	53	23	12	0	14
27	37	144	63	38	87	119	115	51	22	12	0	14
28	40	142	52	40	88	122	118	50	19	9	0	12
29	45	-	48	42	85	127	113	42	18	0	0	12
30	48	-	47	50	81	131	116	29	15	0	0	12
31	52	-	51	-	88	-	113	23	-	0	-	12
TOTAL	780	2,586	2,869	1,756	1,901	3,376	3,718	2,570	932	353	67	204
MAXIMUM DAY	52	146	142	105	95	158	140	122	37	14	22	14
MINIMUM DAY	16	57	47	30	37	87	96	23	15	0	0	0
MEAN	25	92	93	59	61	113	120	83	31	11	2	7
TOTAL AC.FT.	1,547	5,129	5,691	3,483	3,771	6,696	7,375	5,098	1,849	700	133	405
WHOLE YEAR:-	TOTAL,	21,112	MAX.,	158	MIN.,	0	MEAN,	58	TOTAL AC.FT.,	41,877		

KERN DELTA WATER DISTRICT  
BUENA VISTA CANAL SERVICE AREA

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	9,782	2,620	0	3,172	5,439	3,138	1,450	172	2,906	986	2,535	4,554	36,754
Release	(8,729)	0	549	803	1,349	177	875	130	(1,517)	(260)	(2,382)	(4,123)	(13,128)
Entitlement + or - Releases	= 1,053	2,620	549	3,975	6,788	3,315	2,325	302	1,389	726	153	431	23,626
Into Storage	4	2,620	26	2,372	4,154	360	706	4	30	26	10	8	10,320
From Storage	0	0	2,577	143	0	1,156	1,644	3,689	490	0	0	0	9,699
To North Kern WSD	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	3,429	0	0	0	0	0	0	0	0	0	0	3,429
Transfer in Storage	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	10	18	28
Diverted at Head of Canal	= 1,049	3,429	3,100	1,746	2,634	4,111	3,263	3,987	1,849	700	133	405	26,406
From North Kern WSD	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Utility Supply	= 1,049	3,429	3,100	1,746	2,634	4,111	3,263	3,987	1,849	700	133	405	26,406
Utility Deliveries	40	1,954	2,656	1,354	1,812	3,236	2,641	3,283	893	26	30	0	17,925
Contract Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Deliveries	- 40	1,954	2,656	1,354	1,812	3,236	2,641	3,283	893	26	30	0	17,925
Canal Conveyance Losses	= 1,009	1,475	444	392	822	875	622	704	956	674	103	405	8,481
Delivery Percentage	4%	57%	86%	78%	69%	79%	81%	82%	48%	4%	23%	0%	68%

Into Reservoir Storage	4	2,620	26	2,372	4,154	360	706	4	30	26	10	8	10,320
Reservoir Evaporation Loss	4	14	28	30	103	138	125	95	40	26	10	8	621
From Reservoir Storage	0	0	2,577	143	0	1,156	1,644	3,689	490	0	0	0	9,699
End of Month Reservoir Storage	1,500	4,106	1,527	3,726	7,777	6,843	5,780	2,000	1,500	1,500	1,500	1,500	1,500

State Exchange Diverted	0	0	0	345	524	922	1,948	0	0	0	0	0	3,739
State Exchange Delivered	0	0	0	299	424	788	1,725	0	0	0	0	0	3,236
Friant-Kern Floodwater Diverted	498	0	0	0	0	0	0	0	0	0	0	0	498
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

KERN DELTA WATER DISTRICT  
BUENA VISTA CANAL  
DISTRIBUTION OF WATER

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Buena Vista Canal at Headworks	1,547	5,129	5,691	3,483	3,771	6,696	7,375	5,098	1,849	700	133	405	41,877
Buena Vista Canal from Maples Canal	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL BUENA VISTA CANAL SUPPLY</b>	<b>1,547</b>	<b>5,129</b>	<b>5,691</b>	<b>3,483</b>	<b>3,771</b>	<b>6,696</b>	<b>7,375</b>	<b>5,098</b>	<b>1,849</b>	<b>700</b>	<b>133</b>	<b>405</b>	<b>41,877</b>

**Deliveries: Head to Section 17**

Buena Vista Utility	0	557	1,605	712	1,339	2,372	1,916	2,573	893	26	30	0	12,023
Buena Vista State Exchange	0	0	0	228	424	567	1,281	0	0	0	0	0	2,500
Stine Utility	0	0	0	0	16	8	46	0	0	0	0	0	70
Arvin-Edison Payback	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Floodwater (Spreading)	0	712	0	0	0	0	0	0	0	0	0	0	712
Friant-Kern Floodwater (Spreading)	147	0	0	0	0	0	0	0	0	0	0	0	147
<b>Sub-Total</b>	<b>147</b>	<b>1,269</b>	<b>1,605</b>	<b>940</b>	<b>1,779</b>	<b>2,947</b>	<b>3,243</b>	<b>2,573</b>	<b>893</b>	<b>26</b>	<b>30</b>	<b>0</b>	<b>15,452</b>

**Deliveries: At or Below Section 17**

Buena Vista Utility	40	1,397	1,051	642	473	864	725	710	0	0	0	0	5,902
Buena Vista State Exchange	0	0	0	71	0	221	444	0	0	0	0	0	736
Stine Utility	0	209	397	101	173	307	260	110	0	0	0	0	1,557
Stine State Exchange	0	0	0	315	0	102	0	0	0	0	0	0	417
Kern Island Utility	0	1,202	1,809	693	303	960	891	862	0	0	0	0	6,720
Kern Island State	0	0	0	0	0	0	694	0	0	0	0	0	694
Arvin-Edison Payback	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Floodwater (Spreading)	0	480	0	0	0	0	0	0	0	0	0	0	480
Friant-Kern Floodwater (Spreading)	351	0	0	0	0	0	0	0	0	0	0	0	351
<b>Sub-Total</b>	<b>391</b>	<b>3,288</b>	<b>3,257</b>	<b>1,822</b>	<b>949</b>	<b>2,454</b>	<b>3,014</b>	<b>1,682</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16,857</b>

**TOTAL DELIVERED**

	538	4,557	4,862	2,762	2,728	5,401	6,257	4,255	893	26	30	0	32,309
Canal Conveyance Losses	1,009	572	829	721	1,043	1,295	1,118	843	956	674	103	405	9,568
Delivery Percentage	35%	89%	85%	79%	72%	81%	85%	83%	48%	4%	23%	0%	77%

**DISTRIBUTION:**

Buena Vista Utility	1,049	2,237	3,100	1,746	2,634	4,111	3,263	3,987	1,849	700	133	405	25,214
Buena Vista State Exchange	0	0	0	345	524	922	1,948	0	0	0	0	0	3,739
Stine Utility	0	248	506	111	242	405	349	137	0	0	0	0	1,998
Stine State Exchange	0	0	0	349	0	129	0	0	0	0	0	0	478
Kern Island Utility	0	1,452	2,085	932	371	1,129	1,027	974	0	0	0	0	7,970
Kern Island State	0	0	0	0	0	0	788	0	0	0	0	0	788
Arvin-Edison Payback	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Floodwater	0	1,192	0	0	0	0	0	0	0	0	0	0	1,192
Friant-Kern Floodwater	498	0	0	0	0	0	0	0	0	0	0	0	498
<b>TOTAL</b>	<b>1,547</b>	<b>5,129</b>	<b>5,691</b>	<b>3,483</b>	<b>3,771</b>	<b>6,696</b>	<b>7,375</b>	<b>5,098</b>	<b>1,849</b>	<b>700</b>	<b>133</b>	<b>405</b>	<b>41,877</b>

Year: 1997

Total Flow via the Stine Canal Headgate

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16	27	71	71	0	71	110	98	41	0	0	0
2	17	27	69	70	0	76	102	91	40	0	0	0
3	25	31	77	69	0	78	87	109	41	0	0	0
4	25	34	79	63	0	73	72	140	39	0	0	0
5	25	35	84	58	0	76	64	148	39	0	0	0
6	26	38	87	51	0	84	76	141	39	0	0	0
7	27	39	88	45	0	88	86	129	44	0	0	0
8	26	48	84	34	0	89	98	121	48	0	0	0
9	25	50	84	27	0	92	111	108	52	0	0	0
10	25	51	100	27	0	90	124	107	53	0	0	0
11	25	52	100	29	0	92	138	109	47	0	0	0
12	25	53	107	31	0	94	137	110	43	0	0	0
13	25	56	107	24	0	89	134	111	43	0	0	0
14	25	55	90	0	0	89	139	101	42	0	0	0
15	25	55	84	0	0	97	148	89	50	0	0	0
16	25	57	77	0	0	105	149	86	62	0	0	0
17	25	58	75	0	0	109	149	86	62	0	0	0
18	24	57	76	0	0	109	131	81	54	0	0	0
19	25	61	77	0	0	123	119	76	45	0	0	0
20	25	61	76	0	0	121	116	75	41	0	0	0
21	24	62	70	0	18	111	112	72	38	0	0	0
22	24	59	60	0	30	108	116	65	24	0	0	0
23	24	57	57	0	35	104	130	59	24	0	0	0
24	22	72	55	0	35	105	129	64	24	0	0	0
25	20	86	55	0	40	104	126	70	26	0	0	0
26	22	96	53	0	42	111	120	71	28	0	0	0
27	23	95	46	0	44	121	115	72	33	0	0	0
28	23	88	48	0	54	117	109	66	20	0	0	0
29	24	-	48	0	70	113	102	51	0	0	0	0
30	24	-	65	0	76	114	106	46	0	0	0	0
31	25	-	70	-	75	-	107	43	-	0	-	0
TOTAL	741	1,560	2,319	599	519	2,953	3,562	2,795	1,142	0	0	0
MAXIMUM DAY	27	96	107	71	76	123	149	148	62	0	0	0
MINIMUM DAY	16	27	46	0	0	71	64	43	0	0	0	0
MEAN	24	56	75	20	17	98	115	90	38	0	0	0
TOTAL AC.FT.	1,470	3,094	4,600	1,188	1,029	5,857	7,065	5,544	2,265	0	0	0
WHOLE YEAR:-	TOTAL,	16,190	MAX.,	149	MIN.,	0	MEAN,	44	TOTAL AC.FT.,	32,112		

KERN DELTA WATER DISTRICT  
STINE CANAL SERVICE AREA

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	10,294	4,463	4	4,042	4,800	4,074	2,711	326	571	0	119	801	32,205
Release	(8,705)	0	0	0	0	0	(914)	0	1,496	26	(109)	(793)	(8,999)
Entitlement + or - Releases	= 1,589	4,463	4	4,042	4,800	4,074	1,797	326	2,067	26	10	8	23,206
Into Storage	- 4	4,463	0	2,744	3,304	155	0	0	1,109	26	10	8	11,823
From Storage	+ 0	0	3,741	20	4	407	2,487	3,431	1,071	0	0	0	11,161
To North Kern WSD	- 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	- 0	0	0	0	0	0	0	0	0	0	0	0	0
Other	+ or - 0	2,097	0	0	0	0	0	0	0	0	0	0	2,097
Diverted at Head	= 1,585	2,097	3,745	1,318	1,500	4,326	4,284	3,757	2,029	0	0	0	24,641
Utility Deliveries	0	561	2,164	756	921	2,549	2,576	1,840	948	0	0	0	12,315
Contract Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Deliveries	- 0	561	2,164	756	921	2,549	2,576	1,840	948	0	0	0	12,315
Canal Conveyance Losses	= 1,585	1,536	1,581	562	579	1,777	1,708	1,917	1,081	0	0	0	12,326
Delivery Percentage	0%	27%	58%	57%	61%	59%	60%	49%	47%	0%	0%	0%	50%

Into Reservoir Storage	4	4,463	0	2,744	3,304	155	0	0	1,109	26	10	8	11,823
Reservoir Evaporation Loss	4	18	38	42	119	143	147	83	24	26	10	8	662
From Reservoir Storage	0	0	3,741	20	4	407	2,487	3,431	1,071	0	0	0	11,161
End of Month Reservoir Storage	1,500	5,945	2,166	4,848	8,029	7,634	5,000	1,486	1,500	1,500	1,500	1,500	

State Exchange Diverted	0	0	0	534	218	367	0	0	0	0	0	0	1,119
State Exchange Delivered	0	0	0	474	193	279	0	0	0	0	0	0	946
Arvin-Edison Payback Diverted	0	0	0	0	0	0	0	0	0	139	0	0	139
Arvin-Edison Payback Delivered	0	0	0	0	0	0	0	0	0	63	0	0	63

KERN DELTA WATER DISTRICT  
FARMERS CANAL SERVICE AREA

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	10,294	4,463	4	4,042	4,800	4,074	2,711	167	294	0	0	196	31,045
Release	(9,741)	0	0	(36)	(2,380)	(498)	(698)	0	1,000	0	10	(188)	(12,531)
Entitlement + or - Releases	= 553	4,463	4	4,006	2,420	3,576	2,013	167	1,294	0	10	8	18,514
Into Storage	- 4	4,463	0	2,548	107	119	194	0	1,155	0	10	8	8,608
From Storage	+ 0	0	2,384	0	0	288	1,803	2,614	438	468	0	0	7,995
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	2,265	0	0	0	0	0	0	0	(232)	0	0	2,033
Diverted at Head	= 549	2,265	2,388	1,458	2,313	3,745	3,622	2,781	577	236	0	0	19,934
Utility Deliveries	0	879	1,746	873	1,434	2,641	2,699	1,963	405	202	0	0	12,842
Contract Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Deliveries	- 0	879	1,746	873	1,434	2,641	2,699	1,963	405	202	0	0	12,842
Canal Conveyance Losses	= 549	1,386	642	585	879	1,104	923	818	172	34	0	0	7,092
Delivery Percentage	0%	39%	73%	60%	62%	71%	75%	71%	70%	86%	0%	0%	64%

Into Reservoir Storage	4	4,463	0	2,548	107	119	194	0	1,155	0	10	8	8,608
Reservoir Evaporation Loss	4	18	44	65	107	105	117	65	38	32	10	8	613
From Reservoir Storage	0	0	2,384	0	0	288	1,803	2,614	438	468	0	0	7,995
End of Month Reservoir Storage	1,500	5,945	3,517	6,000	6,000	5,726	4,000	1,321	2,000	1,500	1,500	1,500	

State Exchange Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0
State Exchange Delivered	0	0	0	0	0	0	0	0	0	0	0	0	0

City of Bakersfield Diverted to Kern Delta Water District  
(Miscellaneous) Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	1	0	0	0	2	0	0	0	0
2	0	0	0	0	1	0	0	0	0	0	0	0
3	3	0	0	0	3	1	0	2	3	0	0	0
4	3	0	0	0	2	0	3	0	0	0	0	0
5	4	0	0	0	1	3	0	8	0	0	0	0
6	2	0	0	1	1	2	0	10	0	0	0	0
7	0	0	0	1	2	0	2	9	0	2	0	0
8	0	0	0	2	2	0	7	12	0	2	0	0
9	0	0	1	0	1	3	8	10	0	1	0	0
10	0	0	1	0	1	3	3	11	0	0	0	0
11	0	0	2	0	0	3	3	15	0	0	0	0
12	0	0	2	1	1	2	0	8	0	0	0	0
13	0	0	2	2	2	2	3	0	2	0	0	0
14	0	0	1	0	2	1	2	1	0	0	0	0
15	0	0	1	2	2	1	0	2	2	0	0	0
16	0	0	2	0	1	0	1	20	2	0	0	0
17	0	0	1	0	2	0	11	23	0	0	0	0
18	0	0	1	3	2	1	12	26	3	0	0	0
19	0	0	1	1	2	2	13	21	0	0	0	0
20	0	0	1	2	2	2	5	20	0	0	0	0
21	0	0	1	2	2	0	3	34	0	0	2	0
22	0	0	0	0	2	0	2	28	0	0	2	0
23	0	0	0	1	1	0	0	0	0	0	1	0
24	0	0	0	0	2	0	0	0	0	0	1	0
25	0	0	0	2	2	2	0	0	0	0	0	0
26	0	0	0	2	1	1	2	3	0	0	0	0
27	0	0	0	2	1	0	0	0	0	0	0	0
28	0	0	0	1	0	2	0	0	0	0	0	0
29	0	-	0	1	0	1	0	0	0	0	0	0
30	0	-	0	0	0	0	2	3	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	12	0	17	27	41	32	82	268	12	5	6	0
MAXIMUM DAY	4	0	2	3	3	3	13	34	3	2	2	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	1	1	1	1	3	9	0	0	0	0
TOTAL AC.FT.	24	0	34	54	81	64	163	532	24	10	12	0
WHOLE YEAR:-	TOTAL,	502	MAX.,	34	MIN.,	0	MEAN,	1	TOTAL AC.FT.,	998		

# KERN DELTA WATER DISTRICT

## PIONEER PROPERTY RECHARGE OPERATIONS

Year: 1997

Quantities in acre-feet

LOCATION	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	TOTAL
+ SOUTH PIONEER	743	706	0	0	0	0	0	0	0	0	0	0	1,449
Kern River	42	706	0	0	0	0	0	0	0	0	0	0	748
Friant-Kern	701	0	0	0	0	0	0	0	0	0	0	0	701
SWP	0	0	0	0	0	0	0	0	0	0	0	0	0
+ CENTRAL PIONEER	504	204	0	0	0	0	0	0	0	0	0	0	708
Kern River	0	204	0	0	0	0	0	0	0	0	0	0	204
Friant-Kern	504	0	0	0	0	0	0	0	0	0	0	0	504
SWP	0	0	0	0	0	0	0	0	0	0	0	0	0
+ NORTH PIONEER	1,641	437	0	0	0	0	0	0	0	0	0	0	2,078
Kern River	19	437	0	0	0	0	0	0	0	0	0	0	456
Friant-Kern	1,622	0	0	0	0	0	0	0	0	0	0	0	1,622
SWP	0	0	0	0	0	0	0	0	0	0	0	0	0
= TOTAL PIONEER	2,888	1,347	0	0	0	0	0	0	0	0	0	0	4,235
Kern River	61	1,347	0	0	0	0	0	0	0	0	0	0	1,408
Friant-Kern	2,827	0	0	0	0	0	0	0	0	0	0	0	2,827
SWP	0	0	0	0	0	0	0	0	0	0	0	0	0

Year: 1997

**KERN DELTA WATER DISTRICT**  
**State Aqueduct Exchange Diversion and Storage Recapitulation**

Quantities in acre-feet

	Kern Island	Eastside	East of Kern Island	Buena Vista	Stine	Farmers	Pioneer Project	State Payback	Reservoir Loss	Total	Storage
											Balance
1996 Carry Over	0	0	0	0	0	0	0	0	0	0	3,989
November	0	0	0	0	0	0	0	0	0	0	3,989
December	0	0	0	0	0	0	0	0	0	0	3,989
January	0	0	0	0	0	0	0	0	0	0	3,989
February	246	682	428	0	0	0	1,347	0	0	2,703	1,286
March	163	780	343	0	0	0	0	0	0	1,286	0
<b>Total</b>	<b>409</b>	<b>1,462</b>	<b>771</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,347</b>	<b>0</b>	<b>0</b>	<b>3,989</b>	

	Kern Island	Eastside	East of Kern Island	Buena Vista	Stine	Farmers	Pioneer Project	State Payback	Reservoir Loss	Total	Storage
											Balance
1997 Contract	0	0	0	0	0	0	0	0	0	0	25,500
March	326	212	235	0	0	0	0	0	0	773	24,727
April	349	631	466	345	534	0	0	0	0	2,325	22,402
May	455	1,012	625	524	218	0	0	0	0	2,834	19,568
June	628	708	779	922	367	0	0	0	0	3,404	16,164
July	2,881	1,045	1,332	1,948	0	0	0	4,245	0	11,451	4,713
August	766	127	222	0	0	0	0	0	0	1,115	3,598
September	121	886	577	0	0	0	0	0	0	1,584	2,014
October	69	587	244	0	0	0	0	0	0	900	1,114
November	0	0	0	0	0	0	0	0	0	0	1,114
<b>Total</b>	<b>5,595</b>	<b>5,208</b>	<b>4,480</b>	<b>3,739</b>	<b>1,119</b>	<b>0</b>	<b>0</b>	<b>4,245</b>	<b>0</b>	<b>24,386</b>	

1997 Carry Over	0	0	0	0	0	0	0	0	0	0	1,114
November	0	0	0	0	0	0	0	0	0	0	1,114
December	113	50	6	0	0	0	0	0	0	169	945
<b>Total</b>	<b>113</b>	<b>50</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>169</b>	

KERN DELTA WATER DISTRICT  
1988 State Pool Payback Diversion Recapitulation

Year: 1997

Quantities in acre-feet

	Kern Island	Eastside	East of Kern Island	Buena Vista	Stine	Farmers	Total	Payback	
								Balance	827
January	0	0	0	0	0	0	0	827	0
February	0	0	0	0	0	0	0	827	0
March	0	0	0	0	0	0	0	827	0
April	0	0	0	0	0	0	0	827	0
May	0	0	0	0	0	0	0	827	0
June	0	0	0	0	0	0	0	827	0
July	0	0	0	0	0	0	0	827	0
August	481	171	175	0	0	0	827	0	0
September	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>481</b>	<b>171</b>	<b>175</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>827</b>	<b>0</b>	<b>0</b>

KERN DELTA WATER DISTRICT  
1990 State Pool Payback Diversion Recapitulation

Year: 1997

Quantities in acre-feet

	Quantities in acre-feet						Payback	
	Kern Island	Eastside	East of Kern Island	Buena Vista	Stine	Farmers	Total	Balance
January	0	0	0	0	0	0	0	7,945
February	0	0	0	0	0	0	0	7,945
March	0	0	0	0	0	0	0	7,945
April	0	0	0	0	0	0	0	7,945
May	0	0	0	0	0	0	0	7,945
June	0	0	0	0	0	0	0	7,945
July	0	0	0	0	0	0	0	7,945
August	32	1,025	200	0	0	0	1,257	6,688
September	0	0	0	0	0	0	0	6,688
October	0	0	0	0	0	0	0	6,688
November	0	107	10	0	0	0	117	6,571
December	0	0	0	0	0	0	0	6,571
<b>Total</b>	<b>32</b>	<b>1,132</b>	<b>210</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,374</b>	

**KERN DELTA WATER DISTRICT**  
**Arvin-Edison WSD Water Exchange Recapitulation**

Year: 1997

Quantities in acre-feet

	Kern Island	Eastside	East of Kern Island	Buena Vista	Stine	Farmers	Transportation		Total	Payback Balance
							Loss			
January	0	0	0	0	0	0	0	0	0	4,751
February	0	0	0	0	0	0	0	0	0	4,751
March	0	0	0	0	0	0	0	0	0	4,751
April	0	0	0	0	0	0	0	0	0	4,751
May	0	0	0	0	0	0	6	6	6	4,745
June	0	0	0	0	0	0	88	88	88	4,657
July	0	0	0	0	0	0	93	93	93	4,564
August	0	0	0	0	0	0	39	39	39	4,525
September	0	0	0	0	0	0	0	0	0	4,525
October	123	288	0	0	139	0	0	0	550	3,975
November	0	0	0	0	0	0	49	49	49	3,926
December	0	0	0	0	0	0	119	119	119	3,807
<b>Total</b>	<b>123</b>	<b>288</b>	<b>0</b>	<b>0</b>	<b>139</b>	<b>0</b>	<b>394</b>	<b>394</b>	<b>944</b>	

**CITY OF BAKERSFIELD**

**KERN RIVER CHANNEL OPERATIONS  
CITY OF BAKERSFIELD**

Year: 1997

Quantities in acre-feet

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
+ Kern River at First Point of Measurement	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
- Computed Loss	676	611	676	655	676	655	676	676	655	676	655	676	7,963
- Beardsley Canal at Head	5,937	12,109	27,630	25,847	33,876	34,556	35,679	30,704	22,100	16,528	29,217	17,196	291,379
- Carrier Canal at Head	24,589	22,125	29,720	24,887	31,730	34,326	36,839	30,244	21,160	18,823	1,745	2,766	278,954
= Rocky Point Weir	32,150	107,986	100,652	44,544	54,507	63,778	60,530	46,828	11,325	6,251	15,360	11,256	555,167
+ Carrier Waste Gate	0	0	0	0	0	0	0	0	0	10	123	52	185
+ Farmers-Stine-Anderson: to River	0	0	0	0	542	0	0	0	1,186	0	0	0	1,728
- Farmers-Stine-Anderson: from River	865	10,806	12,932	7,793	11,923	19,561	20,297	18,169	4,353	728	1,641	5,984	115,052
- Calloway Canal at Head	10,641	12,642	17,361	10,459	15,479	18,369	18,095	13,065	4,837	0	0	0	120,948
- River Loss: Rocky Point to Calloway Weir	764	734	752	696	805	823	881	720	363	563	690	526	8,317
= Calloway River Weir	19,880	83,804	69,607	25,596	26,842	25,025	21,257	14,874	2,958	4,970	13,152	4,798	312,763
+ CVC T.O. #4 to River	0	0	0	0	0	0	0	0	674	0	0	0	674
+ CVC T.O. #3 to River	0	0	0	127	500	821	797	847	557	0	0	0	3,649
+ Friant-Kern Inflow	90,810	33,986	0	0	0	0	0	0	0	0	0	0	124,796
- River Canal from River	14,116	14,964	8,761	7,311	16,014	18,294	14,394	10,017	168	0	0	0	104,039
- River Loss: Cally. Weir to River Canal Weir	3,404	3,347	3,065	2,955	4,420	3,810	4,280	3,893	2,997	2,335	4,020	2,836	41,362
= River Canal Weir	93,170	99,479	57,781	15,457	6,908	3,742	3,380	1,811	1,024	2,635	9,132	1,962	296,481
+ Pioneer Turnout	2,099	1,507	1,619	2,882	1,420	1,210	1,376	143	442	1,823	234	389	15,144
+ CVC T.O. #2 to River	52	0	0	0	0	0	0	0	0	0	0	0	52
- Rosedale Channel at Head	13,557	12,797	12,385	4,544	3,836	2,822	2,388	0	0	1,646	6,682	893	61,550
- Pioneer Canal at Head	10,322	8,104	2,279	1,093	399	0	0	0	0	0	0	0	22,197
- Berranda Mesa Pipeline Turnout	4,955	3,435	2,501	28	0	0	0	0	0	0	0	0	10,919
- River Loss: River Canal to Bellevue Weir	1,680	1,347	1,269	1,160	1,664	1,636	1,827	1,613	1,216	2,190	2,097	1,228	18,927
= Flow at Bellevue Weir	64,807	75,303	40,966	11,514	2,429	494	541	341	250	622	587	230	198,084
- River Loss: Bellevue Weir to ID#4 Boundary	662	556	510	297	488	494	541	341	250	622	587	230	5,578
- River Loss: ID#4 Boundary to 2800 Acres	662	556	510	297	79	0	0	0	0	0	0	0	2,104
+ Outflow from Berranda Mesa Spdg. Grounds	0	0	33	0	0	0	0	0	0	0	0	0	33
+ CVC T.O. #1 to River	93	0	0	0	0	0	0	0	0	0	0	3,711	3,804
+ River Canal Turnout to 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
- Pioneer Central from 2800 Acres	13,733	9,741	9,590	3,940	182	0	0	0	0	0	0	1,214	38,400
- Pioneer North from 2800 Acres	462	2,114	208	0	0	0	0	0	0	0	0	0	2,784
- Turntable Pump from 2800 Acres	2,499	2,261	476	0	0	0	0	0	0	0	0	0	5,236
- River Loss: 2800 Acres to Second Point	10,212	7,363	6,682	3,941	1,680	0	0	0	0	0	0	2,497	32,375
= Second Point via Kern River Channel	36,670	52,712	23,023	3,039	0	0	0	0	0	0	0	0	115,444

CARRIER CANAL OPERATIONS  
CITY OF BAKERSFIELD

Year: 1997

Quantities in acre-feet

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
+ Carrier Canal at Head	24,589	22,125	29,720	24,887	31,730	34,326	36,839	30,244	21,160	18,823	1,745	2,766	278,954
- Carrier Waste Gate	0	0	0	0	0	0	0	0	0	10	123	52	185
+ 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	34	0	34
= Carrier Reclamation Weir	24,589	22,125	29,720	24,887	31,730	34,326	36,839	30,244	21,160	18,813	1,588	2,714	278,735
+ Oilfield Discharge (Arco Oil)	14	0	0	0	0	0	0	0	0	0	0	0	14
+ Storm Drain Inflow	14	0	0	0	0	0	0	0	0	0	48	48	110
- Eastside Canal from Head	315	682	1,749	2,348	3,406	3,176	3,148	2,311	910	885	119	50	19,099
- Kern Island Canal at 30th Street	6,474	8,864	16,566	16,241	22,756	22,629	22,088	18,016	9,957	5,766	1,446	2,664	153,467
= Levee No. 1	17,828	12,579	11,405	6,298	5,568	8,521	11,603	9,917	10,293	12,162	71	48	106,293
- Farmers-Stine-Anderson: to River	0	0	0	0	542	0	0	0	1,186	0	0	0	1,728
+ Farmers-Stine-Anderson: from River	865	10,806	12,932	7,793	11,923	19,561	20,297	18,169	4,353	728	1,641	5,984	115,052
= Carrier Canal at Oak Street	18,693	23,385	24,337	14,091	16,949	28,082	31,900	28,086	13,460	12,890	1,712	6,032	219,617
- Stine Canal at Head	1,470	3,094	4,600	1,188	1,029	5,857	7,065	5,544	2,265	0	0	0	32,112
- Carrier to Truxtun Lakes	1,069	990	974	942	1,125	962	2,003	2,019	1,242	1,313	329	865	13,833
+ Truxtun Lakes to Carrier	623	415	492	393	377	480	898	847	786	799	190	466	6,766
- Arvin-Edison Turnout	976	6,910	1,741	270	9,019	15,118	16,756	15,134	7,273	6,262	972	4,494	84,925
- Total Carrier Canal Loss	704	625	670	659	686	772	817	714	530	527	224	345	7,273
+ River Canal from River	14,116	14,964	8,761	7,311	16,014	18,294	14,394	10,017	168	0	0	0	104,039
= River Canal at Stockdale Highway	29,213	27,145	25,605	18,736	21,481	24,147	20,551	15,539	3,104	5,587	377	794	192,279
- Buena Vista Canal at Head	1,547	5,129	5,691	3,483	3,771	6,696	7,375	5,098	1,849	700	133	405	41,877
- Pioneer Turnout	2,099	1,507	1,619	2,882	1,420	1,210	1,376	143	442	1,823	294	389	15,144
- James Canal at Head	5,316	5,704	3,707	492	1,511	643	0	0	0	0	0	0	17,373
= River Canal at Alternate Second Point	20,251	14,805	14,588	11,879	14,779	15,598	11,800	10,298	813	3,064	10	0	117,885
+ 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	2,142	926	0	0	0	0	0	0	0	0	0	0	3,068
- 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	766	1,345	889	0	0	0	0	0	3,000
- 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	18,109	13,879	14,588	11,879	14,013	14,253	10,911	10,298	813	3,064	10	0	111,817

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

Quantities in acre-feet

Year: 1997

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	101,078	3,788	27,141	29,096	49,639	28,918	19,282	11,334	964	695	866	1,155	273,956
Release	53,559	0	278	372	599	232	351	119	244	535	324	168	56,781
<b>ENTITLEMENT + OR - RELEASE</b>	<b>154,637</b>	<b>3,788</b>	<b>27,419</b>	<b>29,468</b>	<b>50,238</b>	<b>29,150</b>	<b>19,633</b>	<b>11,453</b>	<b>1,208</b>	<b>1,230</b>	<b>1,190</b>	<b>1,323</b>	<b>330,737</b>
NKWSD to City	0	0	0	0	0	0	0	0	0	0	0	0	0
From Reservoir Storage	3,747	109,602	9,364	1,394	1,045	16,559	17,699	13,670	3,826	2,806	8,466	2,281	190,459
Into Reservoir Storage	126,002	11,240	2,167	11,486	19,285	3,777	294	1,728	0	579	3,445	335	180,338
Other	0	(453)	0	0	0	0	0	0	0	643	3,669	4	3,863
<b>TOTAL SUPPLY</b>	<b>32,382</b>	<b>101,697</b>	<b>34,616</b>	<b>19,376</b>	<b>31,998</b>	<b>41,932</b>	<b>37,038</b>	<b>23,395</b>	<b>5,034</b>	<b>4,100</b>	<b>9,880</b>	<b>3,273</b>	<b>344,721</b>

Lake Ming	16	16	44	60	77	105	127	121	91	65	42	26	790
Kern Valley Golf Course	0	6	12	18	28	28	29	27	19	12	0	2	181
Oicese Water District	0	0	0	0	0	0	0	0	0	0	0	0	0
Glen Grundeis	0	0	0	0	0	0	0	0	0	0	0	0	0
North Kern WSD	38	873	3,200	3,200	6,400	10,000	10,000	10,000	0	0	0	0	30,000
Cawelo WD	0	0	3,192	4,127	11,467	6,400	6,400	6,400	0	0	0	549	33,460
Kern-Tulare WD	0	0	479	619	1,718	4,490	7,438	1,747	2,184	0	0	0	34,645
Rag Guich WD	0	0	0	0	0	672	1,116	259	328	0	0	0	5,191
Rosedale RBWSD	9,836	14,119	13,874	5,539	4,262	10,308	2,355	0	0	1,646	9,247	2,202	73,388
Rosedale Ranch ID	256	329	1,908	2,285	2,521	2,761	2,319	1,849	1,596	1,174	254	127	17,379
Bolthouse Farms, Inc.	0	25	120	30	0	88	33	0	0	0	23	0	319
Kern Delta WD	24	0	34	54	81	64	163	532	24	10	12	0	998
Arvin-Edison WSD	976	6,910	1,741	270	1,400	1,564	1,700	0	0	604	0	0	14,561
California Water Service Company	0	0	0	0	0	0	0	0	0	0	0	0	604
Pioneer Participants	0	2,694	0	0	0	0	0	0	0	0	0	0	2,694
J.G. Boswell Company	0	357	0	0	0	0	0	0	0	0	0	0	357
Berrenda Mesa Spreading Grounds	0	641	0	0	0	0	0	0	0	0	0	0	641
Kern County Water Agency	1,817	1,797	2,760	332	1,511	643	0	0	0	0	0	0	8,860
Kern Water Bank Authority	4,250	17,807	0	0	0	0	0	0	0	0	0	0	22,057
Improvement District #4	0	2,122	0	0	0	0	0	0	0	0	0	317	2,439
Kern River Canal & Irrigating Co.	0	0	0	0	0	0	0	0	0	0	0	0	0
Truxtun Lakes (Direct)	446	575	0	0	0	0	0	0	0	0	0	0	1,021
Truxtun Lakes (via I.D. #4)	0	0	0	0	0	0	0	0	0	0	0	0	0
First Point Passing Second Point	0	37,075	0	0	0	0	0	0	0	0	0	0	37,075
2800 Acre Banking	8,772	7,363	0	0	0	0	0	0	0	0	0	0	16,135
River and Carrier Canal Loss	5,951	8,988	7,252	2,842	2,533	4,809	5,358	2,460	792	589	302	50	41,926
<b>TOTAL DIVERTED</b>	<b>32,382</b>	<b>101,697</b>	<b>34,616</b>	<b>19,376</b>	<b>31,998</b>	<b>41,932</b>	<b>37,038</b>	<b>23,395</b>	<b>5,034</b>	<b>4,100</b>	<b>9,880</b>	<b>3,273</b>	<b>344,721</b>

Into Reservoir Storage	126,002	11,240	2,167	11,486	19,285	3,777	294	1,728	0	579	3,445	335	180,338
Reservoir Evaporation Loss	242	464	406	557	1,016	969	846	607	458	331	112	56	6,064
From Reservoir Storage	3,747	109,602	9,364	1,394	1,045	16,559	17,699	13,670	3,826	2,806	8,466	2,281	190,459
<b>End of Month Reservoir Storage</b>	<b>145,491</b>	<b>46,665</b>	<b>39,062</b>	<b>48,597</b>	<b>65,821</b>	<b>52,070</b>	<b>33,819</b>	<b>21,270</b>	<b>16,986</b>	<b>14,428</b>	<b>9,295</b>	<b>7,293</b>	

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

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)

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	28,332	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)

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)

**CITY OF BAKERSFIELD**  
Deliveries to Long Term Contractors

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**Basic Contract**

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Year: 1997

Quantities in acre-feet

	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	3,200	3,200	3,192	3,192	479	479	6,871	6,871
April	0	0	3,200	6,400	4,127	7,319	619	1,098	7,946	14,817
May	0	0	6,400	12,800	4,893	12,212	734	1,832	12,027	26,844
June	5,000	5,000	6,400	19,200	4,490	16,702	672	2,504	16,562	43,406
July	5,000	10,000	6,400	25,600	5,251	21,953	787	3,291	17,438	60,844
August	10,000	20,000	6,400	32,000	1,747	23,700	259	3,550	18,406	79,250
September	0	20,000	0	32,000	0	23,700	0	3,550	0	79,250
October	0	20,000	0	32,000	0	23,700	0	3,550	0	79,250
November	0	20,000	0	32,000	0	23,700	0	3,550	0	79,250
December	0	20,000	0	32,000	0	23,700	0	3,550	0	79,250
<b>Year Total</b>	<b>20,000</b>		<b>32,000</b>		<b>23,700</b>		<b>3,550</b>		<b>79,250</b>	



**CAWELO WATER DISTRICT OPERATIONS**

Quantities in acre-feet

Year: 1997

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
+ Cawelo WD via Pump Station "B"	42	843	3,290	6,145	11,329	11,703	12,547	11,008	5,587	3,753	1,672	1,107	69,026
+ Lerdo Delivery Gate No. 8-0-2	0	0	10	14	44	44	38	38	24	24	0	0	236
+ Lerdo Delivery Gate No. 8-0-10	0	0	0	101	36	180	0	0	0	77	51	0	445
+ Lerdo Delivery Gate No. 8-0-22	0	0	65	167	56	173	232	189	198	32	78	0	1,190
+ Lerdo Delivery Gate No. 8-0-25	0	0	32	24	38	40	65	44	30	105	0	0	378
+ Lerdo Delivery Gate No. 8-0-100	0	0	0	18	4	2	6	6	6	4	0	0	46
+ 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	4	24	48	69	95	107	71	87	61	14	2	582
+ Lerdo Delivery Gate No. 8-0-291	4	14	50	88	151	117	157	109	111	79	26	0	906
+ Lerdo Delivery Gate No. 8-0-292	0	4	12	22	30	30	36	8	0	0	0	0	142
+ Lerdo Delivery Gate No. 8-23-006	0	0	0	48	123	188	260	237	40	52	0	0	948
+ Total Lerdo Gate Deliveries	4	22	193	530	551	869	901	702	496	434	169	2	4,873
+ Beardsley Canal Loss	4	50	61	60	61	60	61	61	60	61	56	61	656
+ Lerdo Loss	0	8	36	71	125	132	143	124	65	46	20	12	782
+ Total Loss	4	58	97	131	186	192	204	185	125	107	76	73	1,438
= Total Diverted for Cawelo WD	50	923	3,580	6,806	12,066	12,764	13,652	11,895	6,208	4,294	1,917	1,182	75,337

**Cawelo Water District Source of Supply:**

+ City of Bakersfield Basic Contract	0	0	3,200	3,200	6,400	6,400	6,400	6,400	0	0	0	0	32,000
+ City of Bakersfield Miscellaneous	38	0	0	0	0	0	0	0	0	0	0	549	587
+ City of Bakersfield Non-Kern River	6	50	67	60	67	73	63	60	52	57	56	60	671
+ Buena Vista WSD Exchange	0	0	313	3,546	5,599	6,291	7,189	5,435	6,156	3,671	0	0	38,200
+ Buena Vista WSD Purchase	0	0	0	0	0	0	0	0	0	566	1,861	573	3,000
+ 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	0	0	0
+ Improvement District #4 Exchange	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Kern River Floodwater	0	873	0	0	0	0	0	0	0	0	0	0	873
+ via CVC Conduit "A"	6	0	0	0	0	0	0	0	0	0	0	0	6
+ North Kern WSD Non-Kern River	0	0	0	0	0	0	0	0	0	0	0	0	0
= Total Cawelo Water District Supply	50	923	3,580	6,806	12,066	12,764	13,652	11,895	6,208	4,294	1,917	1,182	75,337

Year: 1997

Cawelo Water District Total Diverted via Beardsley-Lerdo Canal System

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18	0	19	66	119	198	218	226	140	119	48	19
2	0	0	18	124	177	219	217	217	152	134	49	19
3	0	0	38	124	174	218	214	217	145	125	50	19
4	0	18	20	127	172	221	221	227	119	107	40	20
5	0	18	41	125	171	225	220	229	110	106	48	19
6	0	18	41	124	173	206	214	226	105	99	46	20
7	0	18	40	89	193	204	220	222	106	63	46	19
8	7	18	40	87	172	199	224	225	117	52	45	19
9	0	19	37	90	170	218	223	219	116	44	46	19
10	0	18	39	104	172	222	228	217	105	48	49	19
11	0	18	38	98	170	127	227	217	101	42	49	20
12	0	18	39	99	198	113	220	216	105	41	48	19
13	0	18	41	95	198	219	218	202	95	112	44	19
14	0	18	37	104	190	222	220	171	97	110	40	19
15	0	19	38	143	199	204	222	175	101	109	42	19
16	0	18	37	144	193	227	225	164	94	109	40	19
17	0	18	51	129	200	234	224	159	96	77	40	20
18	0	18	66	124	192	233	223	177	94	78	20	19
19	0	18	97	120	225	237	223	207	98	74	19	19
20	0	18	117	117	220	230	220	205	100	83	19	19
21	0	18	130	132	219	225	222	202	97	50	20	19
22	0	19	130	142	223	221	231	198	100	50	19	20
23	0	18	131	138	223	228	229	201	103	44	20	19
24	0	21	96	136	227	229	229	191	104	45	19	19
25	0	20	64	126	200	231	225	193	115	43	19	19
26	0	19	62	97	221	233	224	193	88	41	19	19
27	0	21	67	97	224	226	221	163	79	49	2	19
28	0	21	57	108	215	227	217	134	76	30	0	20
29	0	-	57	99	221	222	218	135	86	31	0	19
30	0	-	55	123	222	217	221	134	86	24	20	19
31	0	-	62	-	210	-	225	135	-	26	-	20
TOTAL	25	465	1,805	3,431	6,083	6,435	6,883	5,997	3,130	2,165	966	596
MAXIMUM DAY	18	21	131	144	227	237	231	229	152	134	50	20
MINIMUM DAY	0	0	18	66	119	113	214	134	76	24	0	19
MEAN	1	17	58	114	196	215	222	193	104	70	32	19
TOTAL AC.FT.	50	923	3,580	6,806	12,066	12,764	13,652	11,895	6,208	4,294	1,917	1,182
WHOLE YEAR:-	TOTAL,	37,981	MAX.,	237	MIN.,	0	MEAN,	104	TOTAL AC.FT.,	75,337		

City of Bakersfield Diverted to Cawelo Water District  
(Basic Contract)

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	15	65	118	197	217	225	0	0	0	0
2	0	0	17	123	176	218	216	216	0	0	0	0
3	0	0	37	123	173	217	213	216	0	0	0	0
4	0	0	19	126	171	220	220	226	0	0	0	0
5	0	0	40	124	170	224	219	228	0	0	0	0
6	0	0	40	123	171	205	213	225	0	0	0	0
7	0	0	39	88	192	203	219	221	0	0	0	0
8	0	0	39	86	171	198	223	224	0	0	0	0
9	0	0	36	89	169	217	222	218	0	0	0	0
10	0	0	38	103	171	221	227	216	0	0	0	0
11	0	0	37	97	169	126	226	216	0	0	0	0
12	0	0	38	98	197	112	219	215	0	0	0	0
13	0	0	40	94	197	218	217	201	0	0	0	0
14	0	0	36	103	189	221	219	170	0	0	0	0
15	0	0	36	142	198	203	157	174	0	0	0	0
16	0	0	36	29	191	226	0	36	0	0	0	0
17	0	0	50	0	198	0	0	0	0	0	0	0
18	0	0	65	0	191	0	0	0	0	0	0	0
19	0	0	96	0	14	0	0	0	0	0	0	0
20	0	0	116	0	0	0	0	0	0	0	0	0
21	0	0	129	0	0	0	0	0	0	0	0	0
22	0	0	129	0	0	0	0	0	0	0	0	0
23	0	0	130	0	0	0	0	0	0	0	0	0
24	0	0	95	0	0	0	0	0	0	0	0	0
25	0	0	63	0	0	0	0	0	0	0	0	0
26	0	0	61	0	0	0	0	0	0	0	0	0
27	0	0	66	0	0	0	0	0	0	0	0	0
28	0	0	56	0	0	0	0	0	0	0	0	0
29	0	-	14	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	1,613	1,613	3,226	3,226	3,227	3,227	0	0	0	0
MAXIMUM DAY	0	0	130	142	198	226	227	228	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	52	54	104	108	104	104	0	0	0	0
TOTAL AC.FT.	0	0	3,200	3,200	6,400	6,400	6,400	6,400	0	0	0	0
WHOLE YEAR:-	TOTAL,	16,132	MAX.,	228	MIN.,	0	MEAN,	44	TOTAL AC.FT.,	32,000		

Year: 1997

City of Bakersfield Diverted to Cawelo Water District  
(Miscellaneous)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	17	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	2	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	3
17	0	0	0	0	0	0	0	0	0	0	0	19
18	0	0	0	0	0	0	0	0	0	0	0	18
19	0	0	0	0	0	0	0	0	0	0	0	18
20	0	0	0	0	0	0	0	0	0	0	0	18
21	0	0	0	0	0	0	0	0	0	0	0	18
22	0	0	0	0	0	0	0	0	0	0	0	18
23	0	0	0	0	0	0	0	0	0	0	0	18
24	0	0	0	0	0	0	0	0	0	0	0	18
25	0	0	0	0	0	0	0	0	0	0	0	18
26	0	0	0	0	0	0	0	0	0	0	0	18
27	0	0	0	0	0	0	0	0	0	0	0	18
28	0	0	0	0	0	0	0	0	0	0	0	19
29	0	-	0	0	0	0	0	0	0	0	0	18
30	0	-	0	0	0	0	0	0	0	0	0	18
31	0	-	0	-	0	-	0	0	-	0	-	19
TOTAL	19	0	0	0	0	0	0	0	0	0	0	277
MAXIMUM DAY	17	0	0	0	0	0	0	0	0	0	0	19
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1	0	0	0	0	0	0	0	0	0	0	9
TOTAL AC.FT.	38	0	0	0	0	0	0	0	0	0	0	549
WHOLE YEAR:-	TOTAL,	296	MAX.,	19	MIN.,	0	MEAN,	1	TOTAL AC.FT.,	587		

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

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1	0	4	1	1	1	1	1	1	1	1	1
2	0	0	1	1	1	1	1	1	1	1	1	1
3	0	0	1	1	1	1	1	1	1	1	1	1
4	0	1	1	1	1	1	1	1	1	1	1	1
5	0	1	1	1	1	1	1	1	1	1	1	1
6	0	1	1	1	2	1	1	1	1	0	1	0
7	0	1	1	1	1	1	1	1	1	0	1	1
8	2	1	1	1	1	1	1	1	1	0	1	1
9	0	1	1	1	1	1	1	1	1	0	1	1
10	0	1	1	1	1	1	1	1	1	1	1	1
11	0	1	1	1	1	1	1	1	1	3	1	1
12	0	1	1	1	1	1	1	1	1	1	1	1
13	0	1	1	1	1	1	1	1	1	1	1	1
14	0	1	1	1	1	1	1	1	0	1	1	1
15	0	1	2	1	1	1	1	1	1	1	1	1
16	0	2	1	1	2	1	1	1	1	1	1	1
17	0	1	1	1	2	1	1	1	1	1	1	1
18	0	1	1	1	1	1	1	1	1	1	1	1
19	0	1	1	1	1	1	1	1	1	1	1	1
20	0	1	1	1	1	6	1	1	1	1	1	1
21	0	1	1	1	1	3	1	1	0	1	1	1
22	0	1	1	1	1	1	1	1	0	1	1	1
23	0	1	1	1	1	1	1	1	0	1	1	1
24	0	1	1	1	1	1	1	1	0	1	1	1
25	0	0	1	1	1	1	1	1	2	1	1	1
26	0	1	1	1	1	1	1	0	1	1	1	1
27	0	1	1	1	1	1	1	1	1	1	1	1
28	0	1	1	1	1	1	1	1	1	1	0	1
29	0	-	1	1	1	1	1	1	1	1	0	1
30	0	-	1	1	1	1	1	1	1	1	1	1
31	0	-	0	-	1	-	2	1	-	1	-	1
TOTAL	3	25	34	30	34	37	32	30	26	29	28	30
MAXIMUM DAY	2	2	4	1	2	6	2	1	2	3	1	1
MINIMUM DAY	0	0	0	1	1	1	1	0	0	0	0	0
MEAN	0	1	1	1	1	1	1	1	1	1	1	1
TOTAL AC.FT.	6	50	67	60	67	73	63	60	52	57	56	60
WHOLE YEAR:-	TOTAL,	338	MAX.,	6	MIN.,	0	MEAN,	1	TOTAL AC.FT.,	671		

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

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	139	118	0	0
2	0	0	0	0	0	0	0	0	151	133	0	0
3	0	0	0	0	0	0	0	0	144	124	0	0
4	0	0	0	0	0	0	0	0	118	106	0	0
5	0	0	0	0	0	0	0	0	109	105	0	0
6	0	0	0	0	0	0	0	0	104	99	0	0
7	0	0	0	0	0	0	0	0	105	63	0	0
8	0	0	0	0	0	0	0	0	116	52	0	0
9	0	0	0	0	0	0	0	0	115	44	0	0
10	0	0	0	0	0	0	0	0	104	47	0	0
11	0	0	0	0	0	0	0	0	100	39	0	0
12	0	0	0	0	0	0	0	0	104	40	0	0
13	0	0	0	0	0	0	0	0	94	111	0	0
14	0	0	0	0	0	0	0	0	97	109	0	0
15	0	0	0	0	0	0	64	0	100	108	0	0
16	0	0	0	114	0	0	224	127	93	108	0	0
17	0	0	0	128	0	233	223	158	95	76	0	0
18	0	0	0	123	0	232	222	176	93	77	0	0
19	0	0	0	119	210	236	222	206	97	73	0	0
20	0	0	0	116	219	224	219	204	99	82	0	0
21	0	0	0	131	218	222	221	201	97	49	0	0
22	0	0	0	141	222	220	230	197	100	49	0	0
23	0	0	0	137	222	227	228	200	103	39	0	0
24	0	0	0	135	226	228	228	190	104	0	0	0
25	0	0	0	125	199	230	224	192	113	0	0	0
26	0	0	0	96	220	232	223	193	87	0	0	0
27	0	0	0	96	223	225	220	162	78	0	0	0
28	0	0	0	107	214	226	216	133	75	0	0	0
29	0	-	42	98	220	221	217	134	85	0	0	0
30	0	-	54	122	221	216	220	133	85	0	0	0
31	0	-	62	-	209	-	223	134	-	0	-	0
TOTAL	0	0	158	1,788	2,823	3,172	3,624	2,740	3,104	1,851	0	0
MAXIMUM DAY	0	0	62	141	226	236	230	206	151	133	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	75	0	0	0
MEAN	0	0	5	60	91	106	117	88	103	60	0	0
TOTAL AC.FT.	0	0	313	3,546	5,599	6,291	7,189	5,435	6,156	3,671	0	0
WHOLE YEAR:-	TOTAL,	19,260	MAX.,	236	MIN.,	0	MEAN,	53	TOTAL AC.FT.,	38,200		

Buena Vista WSD Diverted to Cawelo WD  
(Kern River Water Purchase)

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	47	18
2	0	0	0	0	0	0	0	0	0	0	48	18
3	0	0	0	0	0	0	0	0	0	0	49	18
4	0	0	0	0	0	0	0	0	0	0	39	19
5	0	0	0	0	0	0	0	0	0	0	47	18
6	0	0	0	0	0	0	0	0	0	0	45	20
7	0	0	0	0	0	0	0	0	0	0	45	18
8	0	0	0	0	0	0	0	0	0	0	44	18
9	0	0	0	0	0	0	0	0	0	0	45	18
10	0	0	0	0	0	0	0	0	0	0	48	18
11	0	0	0	0	0	0	0	0	0	0	48	19
12	0	0	0	0	0	0	0	0	0	0	47	18
13	0	0	0	0	0	0	0	0	0	0	43	18
14	0	0	0	0	0	0	0	0	0	0	39	18
15	0	0	0	0	0	0	0	0	0	0	41	18
16	0	0	0	0	0	0	0	0	0	0	39	15
17	0	0	0	0	0	0	0	0	0	0	39	0
18	0	0	0	0	0	0	0	0	0	0	19	0
19	0	0	0	0	0	0	0	0	0	0	18	0
20	0	0	0	0	0	0	0	0	0	0	18	0
21	0	0	0	0	0	0	0	0	0	0	19	0
22	0	0	0	0	0	0	0	0	0	0	18	0
23	0	0	0	0	0	0	0	0	0	4	19	0
24	0	0	0	0	0	0	0	0	0	44	18	0
25	0	0	0	0	0	0	0	0	0	42	18	0
26	0	0	0	0	0	0	0	0	0	40	18	0
27	0	0	0	0	0	0	0	0	0	48	1	0
28	0	0	0	0	0	0	0	0	0	29	0	0
29	0	-	0	0	0	0	0	0	0	30	0	0
30	0	-	0	0	0	0	0	0	0	23	19	0
31	0	-	0	-	0	-	0	0	-	25	-	0
TOTAL	0	0	0	0	0	0	0	0	0	285	938	289
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	48	49	20
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	9	31	9
TOTAL AC.FT.	0	0	0	0	0	0	0	0	0	566	1,861	573
WHOLE YEAR-- TOTAL,	TOTAL AC.FT.,											3,000
	TOTAL AC.FT.,											4
	MEAN,											0
	MIN.,											49
	MAX.,											1,512

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

Year: 1997

Quantities in acre-feet

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
+ Total Basic Contract Diverted	0	0	3,671	4,746	5,627	5,162	6,038	2,006	0	0	0	0	27,250
- Kern-Tulare Water District	0	0	3,192	4,127	4,893	4,490	5,251	1,747	0	0	0	0	23,700
= Rag Gulch Water District	0	0	479	619	734	672	787	259	0	0	0	0	3,550
+ Total Misc. Quantity Diverted	0	0	0	0	7,558	0	2,516	0	2,512	0	0	0	12,586
- Kern-Tulare Water District	0	0	0	0	6,574	0	2,187	0	2,184	0	0	0	10,945
= Rag Gulch Water District	0	0	0	0	984	0	329	0	328	0	0	0	1,641
<b>= Total Diverted</b>	<b>0</b>	<b>0</b>	<b>3,671</b>	<b>4,746</b>	<b>13,185</b>	<b>5,162</b>	<b>8,554</b>	<b>2,006</b>	<b>2,512</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>39,836</b>

+ via Calloway Canal	0	0	3,092	4,080	4,861	4,660	4,921	1,587	0	0	0	0	23,201
+ River Transportation Loss/Spreading	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Carrier Canal Recharge	0	0	482	559	748	482	1105	419	0	0	0	0	3,795
+ via Kern River Canal & Irrigating Co.	0	0	97	107	18	20	12	0	0	0	0	0	254
= Total Diverted to I.D. #4	0	0	3,671	4,746	5,627	5,162	6,038	2,006	0	0	0	0	27,250
- Kern-Tulare Water District	0	0	3,192	4,127	4,893	4,490	5,251	1,747	0	0	0	0	23,700
= Rag Gulch Water District	0	0	479	619	734	672	787	259	0	0	0	0	3,550

+ via Arvin-Edison Turnout	0	0	0	0	7,500	0	2,500	0	1,671	0	0	0	11,671
+ Canal Transportation Loss	0	0	0	0	58	0	16	0	12	0	0	0	86
= Total Diverted to Arvin-Edison T.O.	0	0	0	0	7,558	0	2,516	0	1,683	0	0	0	11,757
- Kern-Tulare Water District	0	0	0	0	6,574	0	2,187	0	1,462	0	0	0	10,223
= Rag Gulch Water District	0	0	0	0	984	0	329	0	221	0	0	0	1,534

= Via North Kern Water Storage District	0	0	0	0	0	0	0	0	829	0	0	0	829
- Kern-Tulare Water District	0	0	0	0	0	0	0	0	722	0	0	0	722
= Rag Gulch Water District	0	0	0	0	0	0	0	0	107	0	0	0	107

City of Bakersfield Diverted for Kern-Tulare WD (Kern-Tulare WD/Improvement District No. 4 Exchange)												Year: 1997		
DISCHARGE IN CUBIC FEET PER SECOND (Basic Contract)														
DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	0	0	43	66	79	79	79	84	0	0	0	0	0	0
2	0	0	45	63	71	79	76	83	0	0	0	0	0	0
3	0	0	41	65	64	80	83	79	0	0	0	0	0	0
4	0	0	37	69	67	81	83	84	0	0	0	0	0	0
5	0	0	41	59	72	70	78	90	0	0	0	0	0	0
6	0	0	51	51	79	70	80	90	0	0	0	0	0	0
7	0	0	57	64	82	74	85	92	0	0	0	0	0	0
8	0	0	55	71	82	75	90	86	0	0	0	0	0	0
9	0	0	57	73	83	69	85	84	0	0	0	0	0	0
10	0	0	53	73	77	73	84	84	0	0	0	0	0	0
11	0	0	48	75	75	81	83	25	0	0	0	0	0	0
12	0	0	48	59	80	71	82	0	0	0	0	0	0	0
13	0	0	46	47	82	61	83	0	0	0	0	0	0	0
14	0	0	50	58	89	61	88	0	0	0	0	0	0	0
15	0	0	58	75	99	63	90	0	0	0	0	0	0	0
16	0	0	66	85	85	71	94	0	0	0	0	0	0	0
17	0	0	70	82	72	78	95	0	0	0	0	0	0	0
18	0	0	60	80	83	81	83	0	0	0	0	0	0	0
19	0	0	57	67	89	79	79	0	0	0	0	0	0	0
20	0	0	54	53	87	74	82	0	0	0	0	0	0	0
21	0	0	51	68	83	66	89	0	0	0	0	0	0	0
22	0	0	50	78	83	59	95	0	0	0	0	0	0	0
23	0	0	56	76	66	71	89	0	0	0	0	0	0	0
24	0	0	57	78	66	86	87	0	0	0	0	0	0	0
25	0	0	60	79	70	99	84	0	0	0	0	0	0	0
26	0	0	56	72	77	92	84	0	0	0	0	0	0	0
27	0	0	61	64	88	83	84	0	0	0	0	0	0	0
28	0	0	47	71	90	78	90	0	0	0	0	0	0	0
29	0	-	44	77	90	78	91	0	0	0	0	0	0	0
30	0	-	43	83	78	81	84	0	0	0	0	0	0	0
31	0	-	48	-	79	-	88	0	-	-	-	-	-	0
TOTAL	0	0	1,610	2,081	2,467	2,263	2,647	881	0	0	0	0	0	0
MAXIMUM DAY	0	0	70	85	99	99	95	92	0	0	0	0	0	0
MINIMUM DAY	0	0	37	47	64	59	76	0	0	0	0	0	0	0
MEAN	0	0	52	69	80	75	85	28	0	0	0	0	0	0
TOTAL AC.FT.	0	0	3,192	4,127	4,893	4,490	5,251	1,747	0	0	0	0	0	0
WHOLE YEAR--	TOTAL,	11,949	MAX.,	99	MIN.,	0	MEAN,	33	TOTAL AC.FT.,	23,700				

City of Bakersfield Diverted for Kern-Tulare WD  
via Arvin-Edison Turnout  
(Miscellaneous)

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	31	0	49	0	0	0
2	0	0	0	0	0	0	32	0	50	0	0	0
3	0	0	0	0	0	0	32	0	49	0	0	0
4	0	0	0	0	0	0	32	0	49	0	0	0
5	0	0	0	0	0	0	32	0	44	0	0	0
6	0	0	0	0	0	0	31	0	16	0	0	0
7	0	0	0	0	0	0	32	0	19	0	0	0
8	0	0	0	0	0	0	30	0	33	0	0	0
9	0	0	0	0	0	0	31	0	33	0	0	0
10	0	0	0	0	0	0	30	0	34	0	0	0
11	0	0	0	0	0	0	32	0	34	0	0	0
12	0	0	0	0	0	0	32	0	37	0	0	0
13	0	0	0	0	0	0	32	0	0	0	0	0
14	0	0	0	0	0	0	41	0	0	0	0	0
15	0	0	0	0	21	0	47	0	0	0	0	0
16	0	0	0	0	112	0	48	0	0	0	0	0
17	0	0	0	0	111	0	48	0	0	0	0	0
18	0	0	0	0	110	0	48	0	0	0	0	0
19	0	0	0	0	109	0	42	0	0	0	0	0
20	0	0	0	0	137	0	41	0	0	0	0	0
21	0	0	0	0	233	0	43	0	5	0	0	0
22	0	0	0	0	256	0	41	0	24	0	0	0
23	0	0	0	0	250	0	37	0	33	0	0	0
24	0	0	0	0	259	0	25	0	33	0	0	0
25	0	0	0	0	255	0	25	0	33	0	0	0
26	0	0	0	0	258	0	24	0	33	0	0	0
27	0	0	0	0	238	0	28	0	33	0	0	0
28	0	0	0	0	225	0	37	0	34	0	0	0
29	0	-	0	0	244	0	38	0	33	0	0	0
30	0	-	0	0	243	0	40	0	29	0	0	0
31	0	-	0	-	253	-	41	0	-	0	-	0
TOTAL	0	0	0	0	3,314	0	1,103	0	737	0	0	0
MAXIMUM DAY	0	0	0	0	259	0	48	0	50	0	0	0
MINIMUM DAY	0	0	0	0	0	0	24	0	0	0	0	0
MEAN	0	0	0	0	107	0	36	0	25	0	0	0
TOTAL AC.FT.	0	0	0	0	6,574	0	2,187	0	1,462	0	0	0
WHOLE YEAR--	TOTAL,	5,154	MAX.,	259	MIN.,	0	MEAN,	14	TOTAL AC.FT.,	10,223		

City of Bakersfield Diverted for Kern-Tulare WD  
via North Kern Water Storage District  
(Miscellaneous) Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

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	19	0	0	0
14	0	0	0	0	0	0	0	0	33	0	0	0
15	0	0	0	0	0	0	0	0	33	0	0	0
16	0	0	0	0	0	0	0	0	33	0	0	0
17	0	0	0	0	0	0	0	0	33	0	0	0
18	0	0	0	0	0	0	0	0	33	0	0	0
19	0	0	0	0	0	0	0	0	33	0	0	0
20	0	0	0	0	0	0	0	0	33	0	0	0
21	0	0	0	0	0	0	0	0	33	0	0	0
22	0	0	0	0	0	0	0	0	33	0	0	0
23	0	0	0	0	0	0	0	0	33	0	0	0
24	0	0	0	0	0	0	0	0	15	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	364	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	33	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	12	0	0	0
TOTAL AC.FT.	0	0	0	0	0	0	0	0	722	0	0	0
WHOLE YEAR:-	TOTAL,	364	MAX.,	33	MIN.,	0	MEAN,	1	TOTAL AC.FT.,	722		

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

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	7	10	12	12	12	12	0	0	0	0
2	0	0	7	9	11	12	11	12	0	0	0	0
3	0	0	6	10	10	12	12	12	0	0	0	0
4	0	0	5	10	10	12	13	12	0	0	0	0
5	0	0	6	9	11	11	12	14	0	0	0	0
6	0	0	8	8	12	10	12	13	0	0	0	0
7	0	0	8	10	12	11	13	14	0	0	0	0
8	0	0	8	10	12	11	13	13	0	0	0	0
9	0	0	8	11	12	10	13	12	0	0	0	0
10	0	0	8	11	12	11	13	12	0	0	0	0
11	0	0	7	11	11	12	13	4	0	0	0	0
12	0	0	7	9	12	11	12	0	0	0	0	0
13	0	0	7	7	12	9	13	0	0	0	0	0
14	0	0	8	9	13	9	13	0	0	0	0	0
15	0	0	9	11	15	10	13	0	0	0	0	0
16	0	0	10	13	13	11	14	0	0	0	0	0
17	0	0	11	12	11	12	14	0	0	0	0	0
18	0	0	9	12	12	12	13	0	0	0	0	0
19	0	0	9	10	13	12	12	0	0	0	0	0
20	0	0	8	8	13	11	12	0	0	0	0	0
21	0	0	8	10	13	10	13	0	0	0	0	0
22	0	0	8	12	12	9	14	0	0	0	0	0
23	0	0	8	11	10	11	13	0	0	0	0	0
24	0	0	8	12	10	13	13	0	0	0	0	0
25	0	0	9	12	10	13	13	0	0	0	0	0
26	0	0	8	11	12	13	13	0	0	0	0	0
27	0	0	9	10	13	13	13	0	0	0	0	0
28	0	0	7	11	14	12	13	0	0	0	0	0
29	0	-	7	11	13	12	13	0	0	0	0	0
30	0	-	6	12	12	12	13	0	0	0	0	0
31	0	-	7	-	12	-	13	0	-	0	-	0
TOTAL	0	0	241	312	370	339	397	130	0	0	0	0
MAXIMUM DAY	0	0	11	13	15	13	14	14	0	0	0	0
MINIMUM DAY	0	0	5	7	10	9	11	0	0	0	0	0
MEAN	0	0	8	10	12	11	13	4	0	0	0	0
TOTAL AC.FT.	0	0	479	619	734	672	787	259	0	0	0	0
WHOLE YEAR:-	TOTAL,	1,789	MAX.,	15	MIN.,	0	MEAN,	5	TOTAL AC.FT.,	3,550		

Year: 1997

City of Bakersfield Diverted for Rag Gulch WD  
via Arvin-Edison Turnout  
(Miscellaneous)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	5	0	8	0	0	0
2	0	0	0	0	0	0	5	0	8	0	0	0
3	0	0	0	0	0	0	5	0	8	0	0	0
4	0	0	0	0	0	0	5	0	8	0	0	0
5	0	0	0	0	0	0	5	0	7	0	0	0
6	0	0	0	0	0	0	5	0	3	0	0	0
7	0	0	0	0	0	0	5	0	3	0	0	0
8	0	0	0	0	0	0	5	0	5	0	0	0
9	0	0	0	0	0	0	5	0	5	0	0	0
10	0	0	0	0	0	0	5	0	5	0	0	0
11	0	0	0	0	0	0	5	0	5	0	0	0
12	0	0	0	0	0	0	5	0	5	0	0	0
13	0	0	0	0	0	0	5	0	0	0	0	0
14	0	0	0	0	0	0	6	0	0	0	0	0
15	0	0	0	0	3	0	6	0	0	0	0	0
16	0	0	0	0	16	0	7	0	0	0	0	0
17	0	0	0	0	17	0	6	0	0	0	0	0
18	0	0	0	0	16	0	6	0	0	0	0	0
19	0	0	0	0	17	0	6	0	0	0	0	0
20	0	0	0	0	20	0	6	0	0	0	0	0
21	0	0	0	0	35	0	6	0	1	0	0	0
22	0	0	0	0	39	0	6	0	2	0	0	0
23	0	0	0	0	37	0	6	0	5	0	0	0
24	0	0	0	0	38	0	4	0	6	0	0	0
25	0	0	0	0	39	0	4	0	5	0	0	0
26	0	0	0	0	38	0	4	0	5	0	0	0
27	0	0	0	0	37	0	4	0	5	0	0	0
28	0	0	0	0	33	0	6	0	5	0	0	0
29	0	-	0	0	36	0	6	0	5	0	0	0
30	0	-	0	0	37	0	6	0	3	0	0	0
31	0	-	0	-	38	-	6	0	-	0	-	0
TOTAL	0	0	0	0	496	0	166	0	112	0	0	0
MAXIMUM DAY	0	0	0	0	39	0	7	0	8	0	0	0
MINIMUM DAY	0	0	0	0	0	0	4	0	0	0	0	0
MEAN	0	0	0	0	16	0	5	0	4	0	0	0
TOTAL AC.FT.	0	0	0	0	984	0	329	0	221	0	0	0
WHOLE YEAR:-	TOTAL,	774	MAX.,	39	MIN.,	0	MEAN,	2	TOTAL AC.FT.,	1,534		

City of Bakersfield Diverted for Rag Gulch WD  
via North Kern Water Storage District  
(Miscellaneous)

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

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	2	0	0	0
14	0	0	0	0	0	0	0	0	5	0	0	0
15	0	0	0	0	0	0	0	0	5	0	0	0
16	0	0	0	0	0	0	0	0	5	0	0	0
17	0	0	0	0	0	0	0	0	5	0	0	0
18	0	0	0	0	0	0	0	0	5	0	0	0
19	0	0	0	0	0	0	0	0	5	0	0	0
20	0	0	0	0	0	0	0	0	5	0	0	0
21	0	0	0	0	0	0	0	0	5	0	0	0
22	0	0	0	0	0	0	0	0	5	0	0	0
23	0	0	0	0	0	0	0	0	5	0	0	0
24	0	0	0	0	0	0	0	0	2	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	54	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	5	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	2	0	0	0
TOTAL AC.FT.	0	0	0	0	0	0	0	0	107	0	0	0
WHOLE YEAR:-	TOTAL,	54	MAX.,	5	MIN.,	0	MEAN,	0	TOTAL AC.FT.,	107		

**IMPROVEMENT DISTRICT NO. 4  
KERN RIVER SUPPLY AND DIVERSION**

Quantities in acre-feet

YEAR: 1997

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
+ Treatment Plant	1412	1376	2100	2798	3702	3799	3954	3817	2481	0	0	0	25439
+ Calloway Canal Operational Losses	167	171	191	185	210	220	228	212	139	0	0	0	1723
+ Calloway Canal Below '99'	0	0	0	1785	1837	1755	1432	1710	941	0	0	0	9460
+ Cross Valley Canal Filling Losses	127	89	65	115	135	129	142	159	85	0	0	0	1046
+ Cross Valley Canal Reverse Flow	500	486	736	1109	1314	1333	1394	1376	898	0	0	0	9146
+ Sub--total Calloway Canal	2206	2122	3092	5992	7198	7236	7150	7274	4544	0	0	0	46814
+ KRC& Co. #1 Ditch Spreading	0	0	97	107	18	20	12	6	13	54	0	0	327
+ KRC& Co. #1 Ditch to Cally. Spreading	0	0	0	0	0	0	0	0	62	95	8	0	165
+ Truxtun Lakes	0	0	482	549	748	482	1105	1172	456	514	125	393	6026
+ Avin--Edison WSD Turnout	0	0	0	0	0	9789	8694	4517	0	5387	0	2122	30509
+ Carrier Canal Loss/Spdg.	0	0	0	10	0	0	0	0	0	0	38	171	219
+ Sub--total via Carrier Canal	0	0	482	559	748	10271	9799	5689	456	5901	163	2686	36754
+ River Loss/Spdg. Above Cally. Weir	0	0	0	0	0	0	0	0	87	332	690	492	1601
+ River Spreading Below Cally. Weir	65	0	0	2435	4637	1832	2100	3895	3232	4714	6406	4216	33532
+ Sub--total River Loss/Spreading	65	0	0	2435	4637	1832	2100	3895	3319	5046	7096	4708	35133
+ Via Pioneer Canal Inlet	0	0	1122	0	0	0	0	0	0	0	0	0	1122
+ Via James Canal	0	0	89	0	0	0	0	0	0	0	0	0	89
+ Via Pioneer North	0	0	238	0	0	0	0	0	0	0	0	0	238
+ Kern Water Bank at 2nd Point	0	0	34	0	0	0	0	0	0	0	0	0	34
= Improvement District #4 Total Diverted	2271	2122	5154	9093	12601	19359	19061	16864	8394	11096	7267	7394	120676
+ Kern--Tulare WD Basic	0	0	3192	4127	4893	4490	5251	1747	0	0	0	0	23700
+ Rag Gulch WD Basic	0	0	479	619	734	672	787	259	0	0	0	0	3550
+ Sub--total K--TWD/RGWD Basic	0	0	3671	4746	5627	5162	6038	2006	0	0	0	0	27250
+ Kern--Tulare WD 1997 Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Rag Gulch WD 1997 Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Sub--total K--TWD/RGWD '97 Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0
+ City Truxtun Lake Exchange	0	0	0	0	0	0	0	0	0	0	0	317	317
+ City Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Sub--total City	0	0	0	0	0	0	0	0	0	0	0	317	317
+ North Kern WSD Exchange	0	0	0	0	0	0	0	0	0	0	0	3882	3882
+ Buena Vista WSD SWP Exchange	0	0	1483	4347	6548	6623	13023	14858	3118	0	0	0	50000
+ Buena Vista WSD Friant--Kern Exchange	0	0	0	0	0	0	0	0	4929	0	0	0	4929
+ Hacienda WD 1996 Exchange	625	0	0	0	0	0	0	0	347	6177	0	0	7149
+ Hacienda WD 1997 Exchange	0	0	0	0	0	0	0	0	0	4919	4679	1886	11484
+ Rosedale RBWSD Exchange (12--23--96)	65	0	0	0	0	0	0	0	0	0	0	0	65
+ Rosedale RBWSD Exchange (6--03--97)	0	0	0	0	426	7574	0	0	0	0	0	0	8000
+ Rosedale RBWSD Exchange (11--21--97)	0	0	0	0	0	0	0	0	0	0	2588	1309	3897
+ Friant--Kern Floodwater	1581	0	0	0	0	0	0	0	0	0	0	0	1581
+ Kern River Floodwater	0	2122	0	0	0	0	0	0	0	0	0	0	2122
= Improvement District #4 Total Supply	2271	2122	5154	9093	12601	19359	19061	16864	8394	11096	7267	7394	120676

Total Flow via the Rosedale Channel at Head (All Sources)  
(Diverted from Kern River Channel)

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	208	208	241	201	0	47	49	0	0	0	156	43
2	228	210	241	168	0	50	50	0	0	0	161	0
3	229	214	239	167	0	48	49	0	0	0	136	0
4	224	227	240	170	0	47	36	0	0	0	158	0
5	226	228	239	168	0	51	48	0	0	0	174	0
6	224	226	237	165	0	50	51	0	0	0	162	0
7	225	228	238	167	0	51	55	0	0	0	166	0
8	233	228	239	168	56	36	51	0	0	0	164	0
9	229	228	245	166	140	50	50	0	0	0	168	0
10	208	226	241	143	96	52	49	0	0	0	171	0
11	223	225	239	92	0	48	43	0	0	0	167	0
12	221	227	242	91	0	51	37	0	0	0	160	0
13	204	225	238	90	0	52	39	0	0	0	134	0
14	207	224	207	93	0	48	25	0	0	0	81	0
15	202	225	167	92	0	15	51	0	0	0	77	0
16	201	224	166	88	0	56	42	0	0	0	79	0
17	200	225	165	62	0	51	50	0	0	0	75	0
18	200	234	167	0	0	50	52	0	0	0	77	0
19	206	244	166	0	0	48	26	0	0	0	76	0
20	212	243	168	0	35	53	41	0	0	0	76	0
21	218	242	168	0	153	52	46	0	0	0	74	0
22	223	241	172	0	154	38	53	0	0	0	72	0
23	226	240	169	0	149	46	55	0	0	0	71	0
24	239	240	169	0	146	32	53	0	0	0	71	0
25	254	240	171	0	153	53	45	0	0	0	79	0
26	247	247	169	0	153	52	28	0	0	56	80	0
27	227	244	167	0	153	51	30	0	0	163	77	0
28	224	239	171	0	149	48	0	0	0	148	77	90
29	225	-	173	0	143	46	0	0	0	152	77	131
30	229	-	185	0	146	51	0	0	0	163	73	132
31	213	-	205	-	108	-	0	0	-	148	-	54
TOTAL	6,835	6,452	6,244	2,291	1,934	1,423	1,204	0	0	830	3,369	450
MAXIMUM DAY	254	247	245	201	154	56	55	0	0	163	174	132
MINIMUM DAY	200	208	165	0	0	15	0	0	0	0	71	0
MEAN	220	230	201	76	62	47	39	0	0	27	112	15
TOTAL AC.FT.	13,557	12,797	12,385	4,544	3,836	2,822	2,388	0	0	1,646	6,682	893
WHOLE YEAR:-	TOTAL,	31,032	MAX.,	254	MIN.,	0	MEAN,	85	TOTAL AC.FT.,	61,550		

City of Bakersfield Diverted for Rosedale--Rio Bravo WSD  
(Rosedale RBWSD/Improvement District No. 4 Exchange) Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33	0	0	0	0	298	0	0	0	0	0	55
2	0	0	0	0	0	239	0	0	0	0	0	30
3	0	0	0	0	0	54	0	0	0	0	0	0
4	0	0	0	0	0	47	0	0	0	0	0	0
5	0	0	0	0	0	123	0	0	0	0	0	0
6	0	0	0	0	0	281	0	0	0	0	0	0
7	0	0	0	0	0	321	0	0	0	0	0	0
8	0	0	0	0	0	320	0	0	0	0	0	0
9	0	0	0	0	0	330	0	0	0	0	0	0
10	0	0	0	0	0	314	0	0	0	0	0	0
11	0	0	0	0	0	286	0	0	0	0	0	0
12	0	0	0	0	0	296	0	0	0	0	0	0
13	0	0	0	0	0	299	0	0	0	0	0	0
14	0	0	0	0	0	203	0	0	0	0	37	0
15	0	0	0	0	0	151	0	0	0	0	90	0
16	0	0	0	0	0	128	0	0	0	0	90	0
17	0	0	0	0	0	129	0	0	0	0	90	0
18	0	0	0	0	0	0	0	0	0	0	90	0
19	0	0	0	0	0	0	0	0	0	0	90	0
20	0	0	0	0	0	0	0	0	0	0	90	0
21	0	0	0	0	0	0	0	0	0	0	90	0
22	0	0	0	0	0	0	0	0	0	0	90	0
23	0	0	0	0	0	0	0	0	0	0	84	0
24	0	0	0	0	0	0	0	0	0	0	96	0
25	0	0	0	0	0	0	0	0	0	0	90	0
26	0	0	0	0	0	0	0	0	0	0	58	0
27	0	0	0	0	0	0	0	0	0	0	55	0
28	0	0	0	0	0	0	0	0	0	0	55	245
29	0	-	0	0	75	0	0	0	0	0	55	225
30	0	-	0	0	73	0	0	0	0	0	55	105
31	0	-	0	-	67	-	0	0	-	0	-	0
TOTAL	33	0	0	0	215	3,819	0	0	0	0	1,305	660
MAXIMUM DAY	33	0	0	0	75	330	0	0	0	0	96	245
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	1	0	0	0	7	127	0	0	0	0	44	21
TOTAL AC.FT.	65	0	0	0	426	7,574	0	0	0	0	2,588	1,309
WHOLE YEAR:-	TOTAL,	6,032	MAX.,	330	MIN.,	0	MEAN,	17	TOTAL AC.FT.,	11,962		

**DISCHARGE IN CUBIC FEET PER SECOND**      **Rosedale-Rio Bravo Water Storage District Diverted**      **Year: 1997**  
**via Kern River Canal**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	10	30	23	0	0	0	0	0
2	0	0	0	0	10	30	23	0	0	0	0	0
3	0	0	0	0	10	30	23	0	0	0	0	0
4	0	0	0	0	10	25	23	0	0	0	0	0
5	0	0	0	0	10	25	23	0	0	0	0	0
6	0	0	0	0	10	20	23	0	0	0	0	0
7	0	0	0	0	10	20	23	0	0	0	0	0
8	0	0	0	0	10	20	23	0	0	0	0	0
9	0	0	0	0	10	20	23	0	0	0	0	0
10	0	0	0	0	10	20	23	0	0	0	0	0
11	0	0	0	0	10	20	20	0	0	0	0	0
12	0	0	0	0	10	19	20	0	0	0	0	0
13	0	0	0	0	10	8	10	0	0	0	0	0
14	0	0	0	0	8	8	10	0	0	0	0	0
15	0	0	0	0	3	8	10	0	0	0	0	0
16	0	0	0	0	3	25	20	0	0	0	0	0
17	0	0	0	0	3	25	20	0	0	0	0	0
18	0	0	0	0	3	25	20	0	0	0	0	0
19	0	0	0	0	3	25	30	0	0	0	0	0
20	0	0	0	0	3	25	30	0	0	0	0	0
21	0	0	0	0	20	25	28	0	0	0	0	0
22	0	0	0	0	20	25	0	0	0	0	0	0
23	0	0	0	0	20	20	0	0	0	0	0	0
24	0	0	0	0	20	20	0	0	0	0	0	0
25	0	0	0	0	20	20	0	0	0	0	0	0
26	0	0	0	0	20	20	0	0	0	0	0	0
27	0	0	0	0	20	30	0	0	0	0	0	0
28	0	0	0	0	20	30	0	0	0	0	0	0
29	0	-	0	0	20	30	0	0	0	0	0	0
30	0	-	0	0	20	30	0	0	0	0	0	0
31	0	-	0	-	30	-	0	0	-	-	-	0
<b>TOTAL</b>	0	0	0	0	386	678	448	0	0	0	0	0
<b>MAXIMUM DAY</b>	0	0	0	0	30	30	30	0	0	0	0	0
<b>MINIMUM DAY</b>	0	0	0	0	3	8	0	0	0	0	0	0
<b>MEAN</b>	0	0	0	0	12	23	14	0	0	0	0	0
<b>TOTAL AC.FT.</b>	0	0	0	0	766	1,345	889	0	0	0	0	0
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>1,512</b>	<b>MAX.,</b>	<b>30</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>4</b>	<b>TOTAL AC.FT.,</b>	<b>3,000</b>		

Year: 1997

Rosedale-Rio Bravo Water Storage District Diverted  
via Arvin-Edison Turnout

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	46	28	146	0	0	0	0
2	0	0	0	0	0	33	28	140	0	0	0	0
3	0	0	0	0	0	0	30	140	0	0	0	0
4	0	0	0	0	0	0	30	134	0	0	0	0
5	0	0	0	0	0	7	29	136	0	0	0	0
6	0	0	0	0	0	34	28	139	0	0	0	0
7	0	0	0	0	0	47	28	135	0	0	0	0
8	0	0	0	0	0	48	28	136	0	0	0	0
9	0	0	0	0	0	47	29	140	0	0	0	0
10	0	0	0	0	0	47	28	138	0	0	0	0
11	0	0	0	0	0	46	29	110	0	0	0	0
12	0	0	0	0	0	46	29	107	0	0	0	0
13	0	0	0	0	0	44	29	113	0	0	0	0
14	0	0	0	0	0	30	37	116	0	0	0	0
15	0	0	0	0	0	16	43	120	0	0	0	0
16	0	0	0	0	0	10	44	116	0	0	0	0
17	0	0	0	0	0	46	44	115	0	0	0	0
18	0	0	0	0	0	45	44	108	0	0	0	0
19	0	0	0	0	0	46	39	111	0	0	0	0
20	0	0	0	0	0	43	38	114	0	0	0	0
21	0	0	0	0	0	33	39	115	0	0	0	0
22	0	0	0	0	0	32	38	112	0	0	0	0
23	0	0	0	0	0	33	34	118	0	0	0	0
24	0	0	0	0	0	33	23	110	0	0	0	0
25	0	0	0	0	0	34	23	109	0	0	0	0
26	0	0	0	0	0	32	22	112	0	0	0	0
27	0	0	0	0	0	32	25	114	0	0	0	0
28	0	0	0	0	0	33	35	115	0	0	0	0
29	0	-	0	0	0	33	35	116	0	0	0	0
30	0	-	0	0	0	32	36	120	0	0	0	0
31	0	-	0	-	0	-	36	114	-	0	-	0
TOTAL	0	0	0	0	0	1,008	1,008	3,769	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	48	44	146	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	22	107	0	0	0	0
MEAN	0	0	0	0	0	34	33	122	0	0	0	0
TOTAL AC.FT.	0	0	0	0	0	2,000	2,000	7,476	0	0	0	0
WHOLE YEAR:-	TOTAL,	5,785	MAX.,	146	MIN.,	0	MEAN,	16	TOTAL AC.FT.,	11,476		

City of Bakersfield Diverted to Wm. Bolthouse Farms, Inc.  
via Rosedale Channel (Miscellaneous) Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	1	0	0	4	0	0	0	0	0
2	0	0	0	0	0	0	4	0	0	0	0	0
3	0	0	0	1	0	0	2	0	0	0	0	0
4	0	0	0	0	0	0	1	0	0	0	0	0
5	0	0	0	1	0	4	1	0	0	0	0	0
6	0	0	0	0	0	4	1	0	0	0	0	0
7	0	0	0	0	0	4	1	0	0	0	0	0
8	0	0	0	3	0	0	1	0	0	0	0	0
9	0	0	0	1	0	2	2	0	0	0	0	0
10	0	0	0	1	0	0	0	0	0	0	0	0
11	0	0	0	3	0	0	0	0	0	0	0	0
12	0	0	4	0	0	0	0	0	0	0	4	0
13	0	0	4	0	0	0	0	0	0	0	4	0
14	0	0	4	0	0	0	0	0	0	0	1	0
15	0	2	7	0	0	0	0	0	0	0	0	0
16	0	1	6	1	0	0	0	0	0	0	0	0
17	0	1	4	3	0	0	0	0	0	0	0	0
18	0	2	4	1	0	0	0	0	0	0	0	0
19	0	2	4	0	0	0	0	0	0	0	0	0
20	0	1	4	1	0	0	0	0	0	0	0	0
21	0	2	3	1	0	0	0	0	0	0	0	0
22	0	2	2	0	0	0	0	0	0	0	0	0
23	0	0	2	0	0	0	0	0	0	0	0	0
24	0	0	2	8	0	4	0	0	0	0	0	0
25	0	0	2	7	0	5	0	0	0	0	0	0
26	0	0	2	4	0	6	0	0	0	0	0	0
27	0	0	2	0	0	4	0	0	0	0	0	0
28	0	0	2	0	0	3	0	0	0	0	2	0
29	0	-	2	0	0	4	0	0	0	0	0	0
30	0	-	0	0	0	4	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	13	60	37	0	44	17	0	0	0	11	0
MAXIMUM DAY	0	2	7	8	0	6	4	0	0	0	4	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	2	1	0	1	1	0	0	0	0	0
TOTAL AC.FT.	0	25	120	73	0	88	33	0	0	0	23	0
WHOLE YEAR:-	TOTAL,	182	MAX.,	8	MIN.,	0	MEAN,	0	TOTAL AC.FT.,	362		



**ROSEDALE RBWSD DIVERSION RECAPITULATION**

Quantities in acre – feet

YEAR: 1997

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Rosedale Channel at Headworks	+	13,557	12,797	12,385	4,544	3,836	2,822	2,388	0	1,646	6,682	893	61,550
City to Bolthouse Farms	-	0	25	120	30	0	88	33	0	0	23	0	319
<b>for Rosedale RBWSD</b>	=	<b>13,557</b>	<b>12,772</b>	<b>12,265</b>	<b>4,514</b>	<b>3,836</b>	<b>2,734</b>	<b>2,355</b>	<b>0</b>	<b>1,646</b>	<b>6,659</b>	<b>893</b>	<b>61,231</b>
- City Contract Water		9,771	0	12,265	4,514	3,836	2,734	2,355	0	1,646	6,659	893	44,673
= Other Water		3,786	12,772	0	0	0	0	0	0	0	0	0	16,558
RRBWS for City (Bolthouse Exch.)	+	0	0	0	0	0	0	0	0	0	0	0	0
via James Canal to Pioneer South	+	744	707	0	0	0	0	0	0	0	0	0	1,451
via 2800 Acres to Pioneer North	+	1,641	437	901	0	0	0	0	0	0	0	0	2,979
Pioneer Central	+	503	203	708	0	0	0	0	0	0	0	0	1,414
via Pioneer Canal Inlet	+	0	0	0	1,025	0	0	0	0	0	0	0	1,025
2800 Acre Spreading	+	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
At Second Point of Measurement	+	0	0	0	0	766	1,345	889	0	0	0	0	3,000
via Arvin – Edison T.O.	+	0	0	0	0	0	2,000	2,000	7,476	0	0	0	11,476
For Improvement District #4	+	65	0	0	0	426	7,574	0	0	0	2,588	1,309	11,962
For Semitropic WSD	+	0	0	0	0	0	0	0	0	2,524	0	0	2,524
<b>Total Diverted</b>	=	<b>16,510</b>	<b>14,119</b>	<b>13,874</b>	<b>5,539</b>	<b>5,028</b>	<b>13,653</b>	<b>5,244</b>	<b>7,476</b>	<b>4,170</b>	<b>9,247</b>	<b>2,202</b>	<b>97,062</b>

City of Bakersfield Basic Contract	+	9,836	0	164	0	0	0	0	0	0	0	0	10,000
City of Bakersfield Miscellaneous	+	0	0	13,710	5,539	4,219	10,308	2,355	0	1,646	9,247	2,202	49,226
City of Bakersfield (Bolthouse Exch.)	+	0	0	0	0	43	0	0	0	0	0	0	43
Hacienda WD	+	0	0	0	0	766	3,345	2,889	7,476	0	2,524	0	17,000
Improvement District #4 Exchange	+	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Floodwater	+	62	14,119	0	0	0	0	0	0	0	0	0	14,181
Friant – Kern Floodwater	+	6,612	0	0	0	0	0	0	0	0	0	0	6,612
<b>Total Supply</b>	=	<b>16,510</b>	<b>14,119</b>	<b>13,874</b>	<b>5,539</b>	<b>5,028</b>	<b>13,653</b>	<b>5,244</b>	<b>7,476</b>	<b>4,170</b>	<b>9,247</b>	<b>2,202</b>	<b>97,062</b>

**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	

- (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

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

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
City Entitlement + or - Release	154,637	0	27,419	29,468	50,238	29,150	19,633	11,453	1,208	1,269	1,190	1,323	326,988
Lake Ming	16	0	44	60	77	105	127	121	91	65	42	26	774
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	3,200	3,200	6,400	6,400	6,400	6,400	0	0	0	0	32,000
Kern-Tulare Water District	0	0	3,192	4,127	4,893	4,490	5,251	1,747	0	0	0	0	23,700
Rag Gulch Water District	0	0	479	619	734	672	787	259	0	0	0	0	3,550
Rosedale Rio Bravo WSD	9,836	0	164	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	446	0	0	0	0	0	0	0	0	0	0	0	446
First Point Floodwater	1,529	0	0	0	0	0	0	0	0	0	0	0	1,529
First Point Passing Second Point	0	0	0	0	0	0	0	0	0	0	0	0	0
Isabella Reservoir Loss	242	0	406	557	1,016	969	846	607	458	331	112	56	5,600
River Transportation Loss	5,951	0	7,252	2,842	2,533	4,809	5,358	2,460	792	589	302	50	32,938
Total Basic Commitments	18,020	0	14,737	11,405	15,653	22,445	23,769	21,594	1,341	985	456	132	130,537

Note: October Entitlement + or - Release includes 39 AcFt received in Isabella Reservoir storage...

Total City Miscellaneous Water.....	196,451
Rosedale Rio Bravo WSD 1/3 Share.....	65,484

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Misc. Water Delivered to RRBWSD	0	0	13,710	5,539	4,219	10,308	2,355	0	0	1,646	9,247	2,202	49,226
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	0	13,710	5,539	4,219	10,308	2,355	0	0	1,646	9,247	2,202	49,226

Over (Under) City Miscellaneous Water Obligation.....	(16,258)
Prior Year Miscellaneous Water Delivery Balance.....	7,060
Cumulative Miscellaneous Water Delivery Balance.....	(9,198)

**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 WATER	(B) RRBWS 1/3 SHARE OF MISC.	(C) MISC. WATER DELIVERED TO RRBWS (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)

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

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+ 18,466	3,862	0	4,708	11,312	4,672	823	0	0	0	0	0	43,843
Release	+ or - (18,466)	0	0	0	0	0	0	0	149	0	311	847	(17,159)
ENTITLEMENT + OR - RELEASE	= 0	3,862	0	4,708	11,312	4,672	823	0	149	0	311	847	26,684
Oilfield Discharge	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Other	+ or - 0	0	97	107	18	20	12	6	75	149	8	0	492
Into Isabella Storage	- 0	3,822	0	2,135	6,405	1,682	36	0	79	0	305	847	15,311
From Isabella Storage	+ 0	0	1,262	2	0	6	1,229	1,575	891	642	434	0	6,041
To NKWSD in Isabella Storage	- 0	0	0	0	0	0	0	0	0	0	0	0	0
DIVERTED AT HEAD	= 0	40	1,359	2,682	4,925	3,016	2,028	1,581	1,036	791	448	0	17,906
Irrigation Deliveries	- 0	22	966	871	1,157	1,265	1,464	1,281	753	447	260	0	8,486
NKWSD at Seventh Standard Line	- 0	0	0	1,413	3,394	1,402	247	0	0	0	0	0	6,456
Cawelo WD at Pump Station "B"	- 0	0	0	0	0	0	0	0	0	0	0	0	0
Spreading Deliveries	- 0	0	97	107	18	20	12	6	75	149	8	0	492
Canal Loss	= 0	18	296	291	356	329	305	294	208	195	180	0	2,472
Irrigation Delivery Percentage	0%	55%	71%	85%	92%	88%	84%	81%	73%	57%	58%	0%	83%

Into Isabella Storage	0	3,822	0	2,135	6,405	1,682	36	0	79	0	305	847	15,311
Isabella Evaporation Loss	73	69	152	198	345	415	498	530	407	303	123	101	3,214
From Isabella Storage	0	0	1,262	2	0	6	1,229	1,575	891	642	434	0	6,041
Transfer in Storage	0	14,608	0	0	0	0	0	0	0	0	0	0	14,608
End of Month Isabella Storage	26,608	15,753	14,339	16,274	22,334	23,595	21,904	19,799	18,580	17,635	17,383	18,129	

SOUTH FORK DIVERSION RIGHT SUMMARY

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	716	319	0	298	332	294	190	22	498	313	448	609	4,039
Release	(716)	0	85	160	309	89	188	63	127	331	177	(609)	204
Entitlement + or - Release	0	319	85	458	641	383	378	85	625	644	625	0	4,243
Into Isabella Storage	0	319	64	404	617	274	283	65	581	664	625	0	3,896
From Isabella Storage	0	0	72	0	0	6	22	127	0	0	0	0	227
Other	0	0	0	0	0	0	0	0	0	20	0	0	20
Total Deliveries	0	0	93	54	24	115	117	147	44	0	0	0	594
Old South Fork	0	0	0	0	0	0	0	0	0	0	0	0	0
Panama Ranch	0	0	93	54	24	115	117	147	44	0	0	0	594

Into Isabella Storage	0	319	64	404	617	274	283	65	581	664	625	0	3,896
From Isabella Storage	0	0	72	0	0	6	22	127	0	0	0	0	227
Transfer in Storage	0	0	0	0	0	0	0	0	0	0	3,669	0	3,669
End of Month Isabella Storage	600	919	911	1,315	1,932	2,200	2,461	2,399	2,980	3,644	600	600	600

Year: 1997

City of Bakersfield Diverted to Kern Valley Golf Course

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	1	0	0	0	1	0	0	1	1	0	0
2	0	0	0	0	1	0	1	1	0	0	0	0
3	0	0	1	1	0	1	0	0	1	0	0	0
4	0	0	0	0	1	0	1	1	0	0	0	0
5	0	0	0	0	0	1	0	0	0	1	0	0
6	0	0	0	0	0	0	1	1	0	0	0	0
7	0	0	0	1	1	1	0	0	1	0	0	0
8	0	0	0	0	0	0	1	1	0	0	0	0
9	0	0	1	0	0	1	0	0	1	1	0	0
10	0	0	0	1	1	0	1	1	0	0	0	0
11	0	0	0	0	0	1	0	0	1	0	0	0
12	0	0	0	1	1	0	1	1	0	0	0	0
13	0	0	1	0	0	1	0	0	0	0	0	0
14	0	0	0	0	1	0	1	1	0	1	0	0
15	0	0	0	0	1	0	0	0	1	0	0	0
16	0	1	0	0	1	1	1	1	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	1	1	1	1	0	0	0	0
19	0	0	1	1	0	0	0	0	1	0	0	0
20	0	0	0	0	1	1	1	1	0	0	0	0
21	0	0	0	0	0	0	0	0	1	1	0	0
22	0	0	0	1	1	1	0	1	0	0	0	0
23	0	0	1	0	0	0	1	0	1	0	0	0
24	0	0	0	0	1	0	0	1	0	0	0	0
25	0	0	0	0	1	0	1	0	0	0	0	0
26	0	0	0	0	1	1	0	0	0	0	0	0
27	0	1	1	0	0	0	1	1	1	1	0	0
28	0	0	0	1	1	1	0	0	0	0	0	0
29	0	-	0	0	0	0	1	0	0	0	0	0
30	0	-	0	0	1	1	0	1	0	0	0	1
31	0	-	0	-	0	-	1	0	-	0	-	0
TOTAL	0	3	6	9	14	14	15	14	10	6	0	1
MAXIMUM DAY	0	1	1	1	1	1	1	1	1	1	0	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.	0	6	12	18	28	28	29	27	19	12	0	2
WHOLE YEAR:-	TOTAL,	92	MAX.,	1	MIN.,	0	MEAN,	0	TOTAL AC.FT.,	181		

Year: 1997

City of Bakersfield Diverted for California Water Service Company

DISCHARGE IN CUBIC FEET PER SECOND

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	206	0	0
25	0	0	0	0	0	0	0	0	0	98	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	304	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	206	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	10	0	0
TOTAL AC.FT.	0	0	0	0	0	0	0	0	0	604	0	0
WHOLE YEAR:-	TOTAL,	304	MAX.,	206	MIN.,	0	MEAN,	1	TOTAL AC.FT.,	604		

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

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	181	132	140	89	57	0	0	0	0	0	0	0
2	233	149	129	106	95	0	0	0	0	0	0	0
3	60	147	117	101	189	0	0	0	0	0	0	0
4	90	132	121	91	157	0	0	0	0	0	0	0
5	118	126	119	99	97	0	0	0	0	0	0	0
6	47	108	132	94	92	0	0	0	0	0	0	0
7	33	92	132	90	86	0	0	0	0	0	0	0
8	36	79	136	137	74	0	0	0	0	0	0	0
9	144	62	122	115	0	0	0	0	0	0	0	0
10	160	109	105	100	0	0	0	0	0	0	0	0
11	165	140	123	80	0	0	0	0	0	0	0	0
12	212	107	122	16	0	0	0	0	0	0	0	0
13	129	70	100	19	0	0	0	0	0	0	0	0
14	85	51	116	19	0	0	0	0	0	0	0	0
15	126	101	99	22	0	0	0	0	0	0	0	0
16	190	115	109	37	0	0	0	0	0	0	0	0
17	219	123	100	38	0	0	0	0	0	0	0	0
18	201	140	114	56	0	0	0	0	0	0	0	0
19	206	155	92	62	0	0	0	0	0	0	0	0
20	222	190	108	54	0	0	0	0	0	0	0	198
21	218	180	93	56	0	0	0	0	0	0	0	194
22	218	172	80	31	0	0	0	0	0	0	0	194
23	214	185	98	54	0	0	0	0	0	0	0	188
24	185	209	114	58	0	0	0	0	0	0	0	189
25	198	196	87	64	0	0	0	0	0	0	0	187
26	215	168	90	62	0	0	0	0	0	0	0	109
27	190	139	90	40	0	0	0	0	0	0	0	0
28	234	135	90	60	0	0	0	0	0	0	0	0
29	284	-	97	56	0	0	0	0	0	0	0	0
30	171	-	109	81	0	0	0	0	0	0	0	0
31	164	-	85	-	0	-	0	0	-	0	-	0
TOTAL	5,148	3,712	3,369	1,987	847	0	0	0	0	0	0	1,259
MAXIMUM DAY	284	209	140	137	189	0	0	0	0	0	0	198
MINIMUM DAY	33	51	80	16	0	0	0	0	0	0	0	0
MEAN	166	133	109	66	27	0	0	0	0	0	0	41
TOTAL AC.FT.	10,212	7,363	6,682	3,941	1,680	0	0	0	0	0	0	2,497
WHOLE YEAR:-	TOTAL,	16,322	MAX.,	284	MIN.,	0	MEAN,	45	TOTAL AC.FT.,	32,375		

City of Bakersfield													Year: 1997	
2800 Acre Spreading Operations														
(Kern River Supply)														
DISCHARGE IN CUBIC FEET PER SECOND														
DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	0	132	0	0	0	0	0	0	0	0	0	0	0	0
2	0	149	0	0	0	0	0	0	0	0	0	0	0	0
3	0	147	0	0	0	0	0	0	0	0	0	0	0	0
4	90	132	0	0	0	0	0	0	0	0	0	0	0	0
5	45	126	0	0	0	0	0	0	0	0	0	0	0	0
6	47	108	0	0	0	0	0	0	0	0	0	0	0	0
7	23	92	0	0	0	0	0	0	0	0	0	0	0	0
8	0	79	0	0	0	0	0	0	0	0	0	0	0	0
9	0	62	0	0	0	0	0	0	0	0	0	0	0	0
10	0	109	0	0	0	0	0	0	0	0	0	0	0	0
11	0	140	0	0	0	0	0	0	0	0	0	0	0	0
12	0	107	0	0	0	0	0	0	0	0	0	0	0	0
13	0	70	0	0	0	0	0	0	0	0	0	0	0	0
14	0	51	0	0	0	0	0	0	0	0	0	0	0	0
15	0	101	0	0	0	0	0	0	0	0	0	0	0	0
16	0	115	0	0	0	0	0	0	0	0	0	0	0	0
17	0	123	0	0	0	0	0	0	0	0	0	0	0	0
18	0	140	0	0	0	0	0	0	0	0	0	0	0	0
19	0	155	0	0	0	0	0	0	0	0	0	0	0	0
20	0	190	0	0	0	0	0	0	0	0	0	0	0	0
21	0	180	0	0	0	0	0	0	0	0	0	0	0	0
22	0	172	0	0	0	0	0	0	0	0	0	0	0	0
23	0	185	0	0	0	0	0	0	0	0	0	0	0	0
24	0	209	0	0	0	0	0	0	0	0	0	0	0	0
25	45	196	0	0	0	0	0	0	0	0	0	0	0	0
26	192	168	0	0	0	0	0	0	0	0	0	0	0	0
27	91	139	0	0	0	0	0	0	0	0	0	0	0	0
28	43	135	0	0	0	0	0	0	0	0	0	0	0	0
29	172	-	0	0	0	0	0	0	0	0	0	0	0	0
30	171	-	0	0	0	0	0	0	0	0	0	0	0	0
31	164	-	0	-	0	-	0	0	-	0	-	0	0	0
TOTAL	1,083	3,712	0	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	192	209	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	51	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	35	133	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC.FT.	2,149	7,363	0	0	0	0	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	4,795	MAX.,	209	MIN.,	0	MEAN,	13	TOTAL AC.FT.,	9,512				

City of Bakersfield													Year: 1997	
2800 Acre Spreading Operations														
(Friant-Kern Supply)														
DISCHARGE IN CUBIC FEET PER SECOND														
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	0	0
2	0	0	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	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	73	0	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	0	0
7	10	0	0	0	0	0	0	0	0	0	0	0	0	0
8	36	0	0	0	0	0	0	0	0	0	0	0	0	0
9	144	0	0	0	0	0	0	0	0	0	0	0	0	0
10	160	0	0	0	0	0	0	0	0	0	0	0	0	0
11	165	0	0	0	0	0	0	0	0	0	0	0	0	0
12	212	0	0	0	0	0	0	0	0	0	0	0	0	0
13	129	0	0	0	0	0	0	0	0	0	0	0	0	0
14	85	0	0	0	0	0	0	0	0	0	0	0	0	0
15	126	0	0	0	0	0	0	0	0	0	0	0	0	0
16	190	0	0	0	0	0	0	0	0	0	0	0	0	0
17	219	0	0	0	0	0	0	0	0	0	0	0	0	0
18	201	0	0	0	0	0	0	0	0	0	0	0	0	0
19	206	0	0	0	0	0	0	0	0	0	0	0	0	0
20	222	0	0	0	0	0	0	0	0	0	0	0	0	0
21	218	0	0	0	0	0	0	0	0	0	0	0	0	0
22	218	0	0	0	0	0	0	0	0	0	0	0	0	0
23	214	0	0	0	0	0	0	0	0	0	0	0	0	0
24	185	0	0	0	0	0	0	0	0	0	0	0	0	0
25	153	0	0	0	0	0	0	0	0	0	0	0	0	0
26	23	0	0	0	0	0	0	0	0	0	0	0	0	0
27	99	0	0	0	0	0	0	0	0	0	0	0	0	0
28	191	0	0	0	0	0	0	0	0	0	0	0	0	0
29	112	-	0	0	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0	0	0
TOTAL	3,591	0	0	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	222	0	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	0	0
MEAN	116	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC.FT.	7,123	0	0	0	0	0	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	3,591	MAX.,	222	MIN.,	0	MEAN,	10	TOTAL AC.FT.,	7,123				

Olcese/La Hacienda												Year: 1997			
2800 Acre Spreading Operations															
(Kern River Supply)															
DISCHARGE IN CUBIC FEET PER SECOND															
DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
1	0	0	140	89	0	0	0	0	0	0	0	0			
2	0	0	129	106	0	0	0	0	0	0	0	0			
3	0	0	117	101	0	0	0	0	0	0	0	0			
4	0	0	121	91	0	0	0	0	0	0	0	0			
5	0	0	119	99	0	0	0	0	0	0	0	0			
6	0	0	132	94	0	0	0	0	0	0	0	0			
7	0	0	132	90	0	0	0	0	0	0	0	0			
8	0	0	136	137	0	0	0	0	0	0	0	0			
9	0	0	122	115	0	0	0	0	0	0	0	0			
10	0	0	105	100	0	0	0	0	0	0	0	0			
11	0	0	123	80	0	0	0	0	0	0	0	0			
12	0	0	122	16	0	0	0	0	0	0	0	0			
13	0	0	100	19	0	0	0	0	0	0	0	0			
14	0	0	116	19	0	0	0	0	0	0	0	0			
15	0	0	99	22	0	0	0	0	0	0	0	0			
16	0	0	109	37	0	0	0	0	0	0	0	0			
17	0	0	100	38	0	0	0	0	0	0	0	0			
18	0	0	114	56	0	0	0	0	0	0	0	0			
19	0	0	92	62	0	0	0	0	0	0	0	0			
20	0	0	108	54	0	0	0	0	0	0	0	0			
21	0	0	93	56	0	0	0	0	0	0	0	0			
22	0	0	80	31	0	0	0	0	0	0	0	0			
23	0	0	98	54	0	0	0	0	0	0	0	0			
24	0	0	114	58	0	0	0	0	0	0	0	0			
25	0	0	87	49	0	0	0	0	0	0	0	0			
26	0	0	90	0	0	0	0	0	0	0	0	0			
27	0	0	90	0	0	0	0	0	0	0	0	0			
28	0	0	90	0	0	0	0	0	0	0	0	0			
29	0	-	97	0	0	0	0	0	0	0	0	0			
30	0	-	109	0	0	0	0	0	0	0	0	0			
31	0	-	85	-	0	-	0	0	-	0	-	0			
TOTAL	0	0	3,369	1,673	0	0	0	0	0	0	0	0			
MAXIMUM DAY	0	0	140	137	0	0	0	0	0	0	0	0			
MINIMUM DAY	0	0	80	0	0	0	0	0	0	0	0	0			
MEAN	0	0	109	56	0	0	0	0	0	0	0	0			
TOTAL AC.FT.	0	0	6,682	3,318	0	0	0	0	0	0	0	0			
WHOLE YEAR:--	TOTAL,	5,042	MAX.,	140	MIN.,	0	MEAN,	14	TOTAL AC.FT.,	10,000					

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

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	181	0	0	0	57	0	0	0	0	0	0	0
2	233	0	0	0	95	0	0	0	0	0	0	0
3	60	0	0	0	189	0	0	0	0	0	0	0
4	0	0	0	0	157	0	0	0	0	0	0	0
5	0	0	0	0	97	0	0	0	0	0	0	0
6	0	0	0	0	92	0	0	0	0	0	0	0
7	0	0	0	0	86	0	0	0	0	0	0	0
8	0	0	0	0	74	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	198
21	0	0	0	0	0	0	0	0	0	0	0	194
22	0	0	0	0	0	0	0	0	0	0	0	194
23	0	0	0	0	0	0	0	0	0	0	0	188
24	0	0	0	0	0	0	0	0	0	0	0	189
25	0	0	0	0	0	0	0	0	0	0	0	187
26	0	0	0	0	0	0	0	0	0	0	0	109
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
TOTAL	474	0	0	314	847	0	0	0	0	0	0	1,259
MAXIMUM DAY	233	0	0	81	189	0	0	0	0	0	0	198
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	15	0	0	10	27	0	0	0	0	0	0	41
TOTAL AC.FT.	940	0	0	623	1,680	0	0	0	0	0	0	2,497
WHOLE YEAR:-	TOTAL,	2,894	MAX.,	233	MIN.,	0	MEAN,	8	TOTAL AC.FT.,	5,740		

Year: 1997

Total Flow via the James Canal Headgate

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	92	81	110	10	13	35	0	0	0	0	0	0
2	92	95	107	10	17	35	0	0	0	0	0	0
3	91	102	102	10	13	35	0	0	0	0	0	0
4	89	102	100	11	11	35	0	0	0	0	0	0
5	90	102	96	11	11	31	0	0	0	0	0	0
6	89	102	90	10	13	0	0	0	0	0	0	0
7	90	102	90	10	14	0	0	0	0	0	0	0
8	90	101	90	8	14	0	0	0	0	0	0	0
9	90	101	90	0	14	6	0	0	0	0	0	0
10	90	101	75	0	14	13	0	0	0	0	0	0
11	90	101	50	8	13	12	0	0	0	0	0	0
12	90	101	49	10	18	12	0	0	0	0	0	0
13	90	101	53	11	16	11	0	0	0	0	0	0
14	90	100	55	12	13	11	0	0	0	0	0	0
15	90	101	55	14	16	11	0	0	0	0	0	0
16	90	101	56	18	28	9	0	0	0	0	0	0
17	90	102	56	12	35	7	0	0	0	0	0	0
18	90	101	55	0	35	7	0	0	0	0	0	0
19	90	101	55	5	35	7	0	0	0	0	0	0
20	90	101	55	7	36	7	0	0	0	0	0	0
21	90	105	56	9	35	7	0	0	0	0	0	0
22	90	111	55	7	34	7	0	0	0	0	0	0
23	90	111	56	0	35	8	0	0	0	0	0	0
24	90	109	56	0	35	8	0	0	0	0	0	0
25	90	110	56	6	35	8	0	0	0	0	0	0
26	76	110	41	8	35	2	0	0	0	0	0	0
27	69	110	15	8	35	0	0	0	0	0	0	0
28	70	111	13	8	35	0	0	0	0	0	0	0
29	70	-	11	12	35	0	0	0	0	0	0	0
30	70	-	11	13	34	0	0	0	0	0	0	0
31	72	-	10	-	35	-	0	0	-	0	-	0
TOTAL	2,680	2,876	1,869	248	762	324	0	0	0	0	0	0
MAXIMUM DAY	92	111	110	18	36	35	0	0	0	0	0	0
MINIMUM DAY	69	0	10	0	11	0	0	0	0	0	0	0
MEAN	86	103	60	8	25	11	0	0	0	0	0	0
TOTAL AC.FT.	5,316	5,704	3,707	492	1,511	643	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	8,759	MAX.,	111	MIN.,	0	MEAN,	24	TOTAL AC.FT.,	17,373		

Year: 1997

Total Flow via the Pioneer Canal Headgate

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	106	160	253	9	0	0	0	0	0	0	0	0
2	176	162	253	43	0	0	0	0	0	0	0	0
3	193	161	250	40	0	0	0	0	0	0	0	0
4	195	151	251	41	0	0	0	0	0	0	0	0
5	196	131	142	42	0	0	0	0	0	0	0	0
6	194	131	0	41	0	0	0	0	0	0	0	0
7	178	131	0	40	0	0	0	0	0	0	0	0
8	169	128	0	40	0	0	0	0	0	0	0	0
9	163	129	0	40	0	0	0	0	0	0	0	0
10	166	128	0	40	0	0	0	0	0	0	0	0
11	166	132	0	39	0	0	0	0	0	0	0	0
12	164	133	0	25	0	0	0	0	0	0	0	0
13	165	130	0	0	0	0	0	0	0	0	0	0
14	164	132	0	0	0	0	0	0	0	0	0	0
15	172	132	0	0	0	0	0	0	0	0	0	0
16	170	115	0	0	0	0	0	0	0	0	0	0
17	166	90	0	0	0	0	0	0	0	0	0	0
18	164	90	0	0	0	0	0	0	0	0	0	0
19	163	91	0	0	9	0	0	0	0	0	0	0
20	164	92	0	0	67	0	0	0	0	0	0	0
21	163	109	0	0	54	0	0	0	0	0	0	0
22	166	133	0	0	41	0	0	0	0	0	0	0
23	165	131	0	14	30	0	0	0	0	0	0	0
24	164	156	0	34	0	0	0	0	0	0	0	0
25	166	228	0	36	0	0	0	0	0	0	0	0
26	167	272	0	27	0	0	0	0	0	0	0	0
27	164	256	0	0	0	0	0	0	0	0	0	0
28	163	252	0	0	0	0	0	0	0	0	0	0
29	165	-	0	0	0	0	0	0	0	0	0	0
30	164	-	0	0	0	0	0	0	0	0	0	0
31	163	-	0	-	0	-	0	0	-	0	-	0
TOTAL	5,204	4,086	1,149	551	201	0	0	0	0	0	0	0
MAXIMUM DAY	196	272	253	43	67	0	0	0	0	0	0	0
MINIMUM DAY	106	0	0	0	0	0	0	0	0	0	0	0
MEAN	168	146	37	18	6	0	0	0	0	0	0	0
TOTAL AC.FT.	10,322	8,104	2,279	1,093	399	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	11,191	MAX.,	272	MIN.,	0	MEAN,	31	TOTAL AC.FT.,	22,197		

Year: 1997

Total Flow via the Berrenda Mesa Pipeline at Head

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	51	96	44	14	0	0	0	0	0	0	0	0
2	45	94	45	0	0	0	0	0	0	0	0	0
3	54	94	51	0	0	0	0	0	0	0	0	0
4	57	94	53	0	0	0	0	0	0	0	0	0
5	58	92	51	0	0	0	0	0	0	0	0	0
6	60	79	52	0	0	0	0	0	0	0	0	0
7	60	67	46	0	0	0	0	0	0	0	0	0
8	61	60	46	0	0	0	0	0	0	0	0	0
9	63	54	46	0	0	0	0	0	0	0	0	0
10	63	48	43	0	0	0	0	0	0	0	0	0
11	69	54	42	0	0	0	0	0	0	0	0	0
12	76	56	44	0	0	0	0	0	0	0	0	0
13	77	54	47	0	0	0	0	0	0	0	0	0
14	79	64	42	0	0	0	0	0	0	0	0	0
15	76	68	39	0	0	0	0	0	0	0	0	0
16	71	71	37	0	0	0	0	0	0	0	0	0
17	81	64	38	0	0	0	0	0	0	0	0	0
18	82	43	36	0	0	0	0	0	0	0	0	0
19	86	42	36	0	0	0	0	0	0	0	0	0
20	78	45	37	0	0	0	0	0	0	0	0	0
21	83	42	39	0	0	0	0	0	0	0	0	0
22	92	41	38	0	0	0	0	0	0	0	0	0
23	95	40	35	0	0	0	0	0	0	0	0	0
24	118	50	29	0	0	0	0	0	0	0	0	0
25	123	55	36	0	0	0	0	0	0	0	0	0
26	112	56	37	0	0	0	0	0	0	0	0	0
27	115	59	34	0	0	0	0	0	0	0	0	0
28	106	50	34	0	0	0	0	0	0	0	0	0
29	106	-	35	0	0	0	0	0	0	0	0	0
30	103	-	35	0	0	0	0	0	0	0	0	0
31	98	-	34	-	0	-	0	0	-	0	-	0
TOTAL	2,498	1,732	1,261	14	0	0	0	0	0	0	0	0
MAXIMUM DAY	123	96	53	14	0	0	0	0	0	0	0	0
MINIMUM DAY	45	40	29	0	0	0	0	0	0	0	0	0
MEAN	81	62	41	0	0	0	0	0	0	0	0	0
TOTAL AC.FT.	4,955	3,435	2,501	28	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	5,505	MAX.,	123	MIN.,	0	MEAN,	15	TOTAL AC.FT.,	10,919		

Cross Valley Canal - Turnout #1 to Kern River Channel  
(As reported by Kern County Water Agency)

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	47	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	198
21	0	0	0	0	0	0	0	0	0	0	0	287
22	0	0	0	0	0	0	0	0	0	0	0	301
23	0	0	0	0	0	0	0	0	0	0	0	297
24	0	0	0	0	0	0	0	0	0	0	0	300
25	0	0	0	0	0	0	0	0	0	0	0	301
26	0	0	0	0	0	0	0	0	0	0	0	187
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	47	0	0	0	0	0	0	0	0	0	0	1,871
MAXIMUM DAY	47	0	0	0	0	0	0	0	0	0	0	301
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	2	0	0	0	0	0	0	0	0	0	0	60
TOTAL AC.FT.	93	0	0	0	0	0	0	0	0	0	0	3,711
WHOLE YEAR:-	TOTAL,	1,918	MAX.,	301	MIN.,	0	MEAN,	5	TOTAL AC.FT.,	3,804		

**Cross Valley Canal - Turnout #2 to Kern River Channel**  
**(As reported by Kern County Water Agency)**  
**Year: 1997**

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	26	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
<b>TOTAL</b>	26	0	0	0	0	0	0	0	0	0	0	0
<b>MAXIMUM DAY</b>	26	0	0	0	0	0	0	0	0	0	0	0
<b>MINIMUM DAY</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>MEAN</b>	1	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL AC.FT.</b>	52	0	0	0	0	0	0	0	0	0	0	0
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	26	<b>MAX.,</b>	26	<b>MIN.,</b>	0	<b>MEAN,</b>	0	<b>TOTAL AC.FT.,</b>	52		

Cross Valley Canal - Turnout #3 to Kern River Channel  
(As reported by Kern County Water Agency)

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	31	17	10	17	11	0	0	0
2	0	0	0	0	9	11	10	18	10	0	0	0
3	0	0	0	0	0	10	10	19	10	0	0	0
4	0	0	0	0	0	10	17	13	10	0	0	0
5	0	0	0	0	0	10	16	10	17	0	0	0
6	0	0	0	0	0	17	17	10	17	0	0	0
7	0	0	0	0	0	20	10	10	18	0	0	0
8	0	0	0	0	0	20	10	14	11	0	0	0
9	0	0	0	0	4	13	10	18	10	0	0	0
10	0	0	0	0	6	10	10	18	8	0	0	0
11	0	0	0	0	7	12	17	14	8	0	0	0
12	0	0	0	0	2	11	17	10	13	0	0	0
13	0	0	0	0	0	16	16	10	18	0	0	0
14	0	0	0	0	0	18	10	10	19	0	0	0
15	0	0	0	0	0	18	10	13	14	0	0	0
16	0	0	0	0	5	12	10	18	9	0	0	0
17	0	0	0	0	15	9	10	16	8	0	0	0
18	0	0	0	0	15	9	17	12	9	0	0	0
19	0	0	0	0	8	9	19	10	15	0	0	0
20	0	0	0	0	7	16	19	8	20	0	0	0
21	0	0	0	0	7	18	13	10	19	0	0	0
22	0	0	0	0	7	18	10	17	7	0	0	0
23	0	0	0	0	19	18	10	19	0	0	0	0
24	0	0	0	0	18	11	10	19	0	0	0	0
25	0	0	0	0	18	9	17	13	0	0	0	0
26	0	0	0	0	14	9	17	10	0	0	0	0
27	0	0	0	0	10	16	18	10	0	0	0	0
28	0	0	0	14	8	18	12	9	0	0	0	0
29	0	-	0	25	8	18	10	16	0	0	0	0
30	0	-	0	25	17	11	10	18	0	0	0	0
31	0	-	0	-	17	-	10	18	-	0	-	0
TOTAL	0	0	0	64	252	414	402	427	281	0	0	0
MAXIMUM DAY	0	0	0	25	31	20	19	19	20	0	0	0
MINIMUM DAY	0	0	0	0	0	9	10	8	0	0	0	0
MEAN	0	0	0	2	8	14	13	14	9	0	0	0
TOTAL AC.FT.	0	0	0	127	500	821	797	847	557	0	0	0
WHOLE YEAR:-	TOTAL,	1,840	MAX.,	31	MIN.,	0	MEAN,	5	TOTAL AC.FT.,	3,649		

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

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

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	27	0	0	0
23	0	0	0	0	0	0	0	0	36	0	0	0
24	0	0	0	0	0	0	0	0	41	0	0	0
25	0	0	0	0	0	0	0	0	48	0	0	0
26	0	0	0	0	0	0	0	0	60	0	0	0
27	0	0	0	0	0	0	0	0	60	0	0	0
28	0	0	0	0	0	0	0	0	52	0	0	0
29	0	-	0	0	0	0	0	0	16	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	340	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	60	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	11	0	0	0
TOTAL AC.FT.	0	0	0	0	0	0	0	0	674	0	0	0
WHOLE YEAR:-	TOTAL,	340	MAX.,	60	MIN.,	0	MEAN,	1	TOTAL AC.FT.,	674		

**NORTH KERN WATER STORAGE DISTRICT**

Quantities in acre-feet

Year: 1997

**NORTH KERN WATER STORAGE DISTRICT**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
NKWSD River Entitlement	21,233	27,895	1,398	37,318	46,677	36,673	8,614	670	2,306	0	1,291	4,095	188,170
Release	+ 11,567	0	67	104	123	0	198	379	7,418	12,077	16,867	18,037	66,837
<b>ENTITLEMENT + OR - RELEASE</b>	<b>= 32,800</b>	<b>27,895</b>	<b>1,465</b>	<b>37,422</b>	<b>46,800</b>	<b>36,673</b>	<b>8,812</b>	<b>1,049</b>	<b>9,724</b>	<b>12,077</b>	<b>18,158</b>	<b>22,132</b>	<b>255,007</b>
From KFC & Irr. Company	0	0	0	1,413	3,394	1,402	247	0	0	0	0	0	6,456
From City of Bakersfield	256	329	1,908	2,285	2,521	12,761	12,319	11,849	1,596	1,174	254	127	47,379
From Isabella Reservoir Storage	12,091	13,025	33,654	0	4,776	1,726	19,339	19,454	2,520	538	8,871	399	116,393
From Kern-Tulare WD	0	0	0	0	0	0	0	0	722	0	0	0	722
From Rag Gulch WD	0	0	0	0	0	0	0	0	107	0	0	0	107
From Buena Vista WSD	0	0	0	0	0	0	0	0	2,444	2,783	0	0	5,227
From Hacienda WD	0	0	0	0	0	0	0	0	0	2,524	0	0	2,524
To La Hacienda, Inc.	0	0	0	0	0	0	0	0	0	0	0	16	16
To City of Bakersfield	0	0	0	0	0	0	0	0	0	0	0	0	0
To Improvement District #4	0	0	0	0	0	0	0	0	0	0	0	3,882	3,882
Into Isabella Reservoir Storage	30,813	22,294	0	18,821	28,864	21,178	9,463	9,273	1,912	7,769	375	2,692	153,454
Other	0	2,761	0	0	0	0	0	0	0	173	0	6	2,940
<b>TOTAL DIVERTED FROM RIVER</b>	<b>= 14,334</b>	<b>21,716</b>	<b>37,027</b>	<b>22,299</b>	<b>28,627</b>	<b>31,384</b>	<b>31,254</b>	<b>23,079</b>	<b>15,201</b>	<b>11,500</b>	<b>26,908</b>	<b>16,074</b>	<b>279,403</b>
Loss to Seventh Standard Line	2,349	1,752	1,899	166	170	175	178	150	123	136	258	152	7,508
Oilfield Discharge	106	147	164	149	142	153	149	156	119	149	165	151	1,750
City of Bakersfield (Non-Kern River)	0	0	0	0	0	0	0	0	0	0	0	0	0
NKWSD Deep Well Production	0	0	0	0	0	0	0	0	0	0	0	0	0
Poso Creek Natural Flow	19,642	8,275	2,220	153	0	0	0	0	0	0	0	0	30,290
Friant-Kern Inflow to Poso Creek	0	0	0	1,432	0	591	0	0	0	0	0	0	2,168
Rosedale Ranch Improvement District	256	329	1,908	2,285	2,521	2,761	2,319	1,849	1,596	1,174	254	127	17,379
Semitropic WSD via Poso Creek	9,775	2,755	218	0	0	0	0	0	0	470	0	10	12,748
Shafter-Wasco Irrigation District Inflow	0	0	0	0	0	0	0	0	0	0	0	0	0
Cawelo Water District (Non-Kern River)	0	0	0	0	0	0	0	0	0	0	0	0	0
CVC Conduit "A" Inflow	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL DISTRICT SUPPLY</b>	<b>= 21,702</b>	<b>25,302</b>	<b>35,386</b>	<b>21,582</b>	<b>26,078</b>	<b>29,192</b>	<b>28,906</b>	<b>21,236</b>	<b>13,601</b>	<b>10,809</b>	<b>26,561</b>	<b>16,101</b>	<b>276,456</b>
Class 1 Irrigation Deliveries	5	1,176	6,865	8,683	12,744	14,636	14,374	10,270	6,383	3,095	606	20	78,857
Class 2 Irrigation Deliveries	0	696	4,719	6,377	8,957	9,396	10,476	7,545	4,709	3,219	706	0	56,800
Semitropic WSD Irrigation Deliveries	0	0	363	425	825	716	598	224	242	66	0	0	3,459
Shafter-Wasco ID Irrigation Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL IRRIGATION USE</b>	<b>= 5</b>	<b>1,872</b>	<b>11,947</b>	<b>15,485</b>	<b>22,526</b>	<b>24,748</b>	<b>25,448</b>	<b>18,039</b>	<b>11,334</b>	<b>6,380</b>	<b>1,312</b>	<b>20</b>	<b>139,116</b>
District Spreading Ponds (Kern)	10,335	15,523	18,146	2,317	238	99	10	0	0	1,517	22,887	15,195	86,267
District Spreading Ponds (Other)	1,809	1,392	71	571	0	50	0	0	0	0	0	0	3,893
Poso Creek Spreading (Kern)	0	0	0	0	0	0	0	0	0	0	482	258	740
Poso Creek Spreading (Other)	8,058	4,128	1,931	841	0	174	0	0	0	0	0	155	15,287
<b>TOTAL DISTRICT SPREADING</b>	<b>= 20,202</b>	<b>21,043</b>	<b>20,148</b>	<b>3,729</b>	<b>238</b>	<b>323</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>1,517</b>	<b>23,369</b>	<b>15,608</b>	<b>106,187</b>
<b>TOTAL DISTRICT USE</b>	<b>= 20,207</b>	<b>22,915</b>	<b>32,095</b>	<b>19,214</b>	<b>22,764</b>	<b>25,071</b>	<b>25,458</b>	<b>18,039</b>	<b>11,334</b>	<b>7,897</b>	<b>24,681</b>	<b>15,628</b>	<b>245,303</b>
Total NKWSD Canal Loss	1,495	2,387	3,291	2,368	3,314	4,121	3,448	3,197	2,267	2,912	1,880	473	31,153
Into Reservoir Storage	30,813	22,294	0	18,821	28,864	21,178	9,463	9,273	1,912	7,769	375	2,692	153,454
Reservoir Evaporation Loss	254	474	749	897	1,679	2,092	2,535	2,618	1,917	1,584	658	494	15,951
From Reservoir Storage	12,091	13,025	33,654	0	4,776	1,726	19,339	19,454	2,520	538	8,871	399	116,393
<b>END OF MONTH RESERVOIR STORAGE</b>	<b>85,537</b>	<b>94,332</b>	<b>59,929</b>	<b>77,853</b>	<b>100,262</b>	<b>117,622</b>	<b>105,211</b>	<b>92,412</b>	<b>89,887</b>	<b>95,534</b>	<b>86,380</b>	<b>88,179</b>	

Year: 1997

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

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	346	198	310	463	487	543	574	557	367	443	416	388
2	293	199	322	505	508	572	608	552	376	433	415	319
3	128	205	381	488	449	559	621	512	359	417	466	256
4	141	220	383	428	439	541	627	500	350	319	517	268
5	143	220	403	389	508	530	555	541	360	274	543	380
6	140	214	451	361	547	534	564	547	345	293	547	376
7	139	191	475	358	579	560	605	606	396	241	546	373
8	143	185	417	357	558	604	606	641	418	255	536	286
9	130	187	437	377	534	613	635	595	426	196	531	224
10	0	192	448	414	477	614	641	590	435	194	536	207
11	0	197	464	368	478	587	626	608	426	163	525	324
12	0	197	504	354	566	594	590	601	405	182	525	396
13	0	194	496	393	590	622	567	564	352	273	529	387
14	0	195	465	470	626	543	589	507	353	301	537	391
15	0	194	445	480	597	519	603	465	375	284	526	373
16	0	192	465	473	555	577	643	452	393	263	515	355
17	0	185	529	461	506	632	665	480	387	225	521	328
18	0	180	574	441	531	640	603	524	358	213	497	334
19	0	195	612	418	589	617	544	544	363	245	494	274
20	0	192	611	441	578	598	534	516	329	244	494	176
21	0	197	614	487	620	561	570	514	343	218	500	186
22	0	212	583	490	655	549	597	528	372	214	496	191
23	77	231	486	490	606	588	559	485	379	216	503	237
24	139	263	417	485	536	599	527	422	344	216	493	228
25	140	298	402	464	534	617	526	413	351	207	494	203
26	145	322	403	416	571	617	524	416	351	216	440	208
27	160	330	405	404	565	600	523	420	314	275	395	212
28	157	320	372	440	568	568	540	404	307	272	396	216
29	173	-	312	452	570	566	533	376	386	289	400	217
30	202	-	303	464	598	558	541	307	422	369	397	200
31	197	-	441	-	554	-	548	293	-	383	-	157
TOTAL	2,993	6,105	13,930	13,031	17,079	17,422	17,988	15,480	11,142	8,333	14,730	8,670
MAXIMUM DAY	346	330	614	505	655	640	665	641	435	443	547	396
MINIMUM DAY	0	180	303	354	439	519	523	293	307	163	395	157
MEAN	97	218	449	434	551	581	580	499	371	269	491	280
TOTAL AC.FT.	5,937	12,109	27,630	25,847	33,876	34,556	35,679	30,704	22,100	16,528	29,217	17,196
WHOLE YEAR:-	TOTAL,	146,903	MAX.,	665	MIN.,	0	MEAN,	402	TOTAL AC.FT.,	291,379		

Year: 1997

Oilfield Discharge Diverted via Beardsley Canal (Total Flow)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3	4	12	2	4	4	3	4	4	4	4	3
2	4	4	4	4	4	3	3	4	3	4	4	3
3	3	4	4	3	4	3	3	4	3	3	4	3
4	3	4	4	4	4	3	3	4	3	4	4	3
5	4	3	3	3	4	3	4	4	4	4	4	2
6	4	3	4	3	5	3	4	3	4	1	4	1
7	4	3	4	3	3	4	4	3	4	0	4	3
8	5	3	4	4	4	3	3	4	4	1	4	3
9	8	4	4	4	4	3	3	4	2	0	4	3
10	0	3	3	4	4	3	3	4	3	3	3	3
11	0	3	2	4	4	3	3	4	2	9	3	3
12	0	4	3	4	3	3	4	3	3	4	4	4
13	0	4	4	4	2	3	3	3	3	4	3	4
14	0	4	4	4	3	4	3	3	0	3	3	4
15	0	4	5	4	4	4	3	3	3	3	3	3
16	0	5	4	3	5	3	4	4	3	3	4	4
17	0	4	4	4	5	2	4	4	3	3	3	3
18	0	4	3	3	4	3	4	4	3	3	4	4
19	0	3	3	4	2	2	4	3	4	3	4	4
20	0	3	4	3	3	16	4	4	3	3	4	4
21	0	3	4	4	3	10	3	3	1	3	3	4
22	0	4	4	3	2	4	3	3	1	3	4	4
23	0	4	4	3	3	3	3	4	0	4	4	4
24	0	4	3	3	2	3	3	4	1	4	3	4
25	0	1	3	3	3	3	3	4	5	4	4	4
26	1	4	3	4	3	3	4	1	3	4	3	4
27	4	3	4	4	3	3	4	2	4	4	4	4
28	3	3	4	3	3	4	3	3	4	4	4	4
29	4	-	4	4	3	3	3	4	3	4	4	3
30	3	-	2	3	2	3	4	4	3	4	4	4
31	3	-	0	-	4	-	5	4	-	4	-	3
TOTAL	56	99	117	105	106	114	107	109	86	104	111	106
MAXIMUM DAY	8	5	12	4	5	16	5	4	5	9	4	4
MINIMUM DAY	0	1	0	2	2	2	3	1	0	0	3	1
MEAN	2	4	4	4	3	4	3	4	3	3	4	3
TOTAL AC.FT.	112	197	231	209	209	226	212	216	171	206	221	211
WHOLE YEAR:-	TOTAL,	1,220	MAX.,	16	MIN.,	0	MEAN,	3	TOTAL AC.FT.,	2,421		

Total Diverted via  
Cross Valley Canal Conduit "A"

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

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	3	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	3	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	3	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.	6	0	0	0	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	3	MAX.,	3	MIN.,	0	MEAN,	0	TOTAL AC.FT.,	6		

**NORTH KERN WATER STORAGE DISTRICT  
BEARDSLEY CANAL OPERATIONS**

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River	5,937	12,109	27,630	25,847	33,876	34,556	35,679	30,704	22,100	16,528	29,217	17,196	291,379
Oilfield Discharge	112	197	231	209	209	226	212	216	171	206	221	211	2,421
C.V.C. Conduit "A"	6	0	0	0	0	0	0	0	0	0	0	0	6
<b>+ TOTAL BEARDSLEY CANAL SUPPLY</b>	<b>6,055</b>	<b>12,306</b>	<b>27,861</b>	<b>26,056</b>	<b>34,085</b>	<b>34,782</b>	<b>35,891</b>	<b>30,920</b>	<b>22,271</b>	<b>16,734</b>	<b>29,438</b>	<b>17,407</b>	<b>293,806</b>
KRC & Irr. Co. # 1 Lateral (Total Flow)	0	0	272	327	385	409	466	470	327	294	1,553	0	4,503
KRC & Irr. Co. # 4 Lateral	0	0	418	301	427	537	516	442	213	85	75	0	3,014
KRC & Irr. Co. # 5 Lateral	0	0	300	250	310	303	427	377	294	167	131	0	2,559
KRC & Irr. Co. Bidart Boosters	0	22	194	238	218	220	262	242	163	134	4	0	1,697
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	4	3	4	7	5	3	2	0	0	30
Lined Section Loss	0	18	56	60	61	60	61	61	60	61	54	0	552
<b>- TOTAL KRC &amp; IRR. CO. DIVERTED</b>	<b>0</b>	<b>40</b>	<b>1,242</b>	<b>1,180</b>	<b>1,404</b>	<b>1,533</b>	<b>1,739</b>	<b>1,597</b>	<b>1,060</b>	<b>743</b>	<b>1,817</b>	<b>0</b>	<b>12,355</b>
Kern River Supply	0	40	1,242	1,180	1,404	1,533	1,739	1,597	1,060	743	1,817	0	12,355
Oilfield Discharge Supply	0	0	0	0	0	0	0	0	0	0	0	0	0
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"	42	843	3,290	6,145	11,329	11,703	12,547	11,008	5,587	3,753	1,672	1,107	69,026
Cawelo WD Lerdo Gate Deliveries	4	22	193	530	551	869	901	702	496	434	169	2	4,873
Lined Section Loss	4	50	61	60	61	60	61	61	60	61	56	61	656
Lerdo Canal Loss	0	8	36	71	125	132	143	124	65	46	20	12	782
<b>- TOTAL CAWELO WD DIVERTED</b>	<b>50</b>	<b>923</b>	<b>3,580</b>	<b>6,806</b>	<b>12,066</b>	<b>12,764</b>	<b>13,652</b>	<b>11,895</b>	<b>6,208</b>	<b>4,294</b>	<b>1,917</b>	<b>1,182</b>	<b>75,337</b>
Kern River Supply	38	873	3,513	6,746	11,999	12,691	13,589	11,835	6,156	4,237	1,861	1,122	74,660
Oilfield Discharge Supply	6	50	67	60	67	73	63	60	52	57	56	60	671
C.V.C. Conduit "A" Supply	6	0	0	0	0	0	0	0	0	0	0	0	6
Rosedale Ranch ID Diverted	0	0	0	0	0	0	0	34	1,277	1,174	71	127	2,683
KRC & Irr. Co. Diverted	0	0	0	0	0	0	0	0	2	48	12	0	62
Kern-Tulare WD/Rag Gulch WD Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0
Lined Section Loss: NKWSD	104	100	66	60	61	60	61	61	60	61	70	122	886
<b>= NKWSD FROM LERDO CANAL</b>	<b>5,901</b>	<b>11,243</b>	<b>22,973</b>	<b>18,010</b>	<b>20,554</b>	<b>20,425</b>	<b>20,439</b>	<b>17,333</b>	<b>13,664</b>	<b>10,414</b>	<b>25,551</b>	<b>15,976</b>	<b>202,483</b>
Kern River Supply	5,899	11,196	22,875	17,921	20,473	20,332	20,351	17,238	13,605	10,326	25,456	15,947	201,619
Oilfield Discharge Supply	106	147	164	149	142	153	149	156	119	149	165	151	1,750
C.V.C. Conduit "A" Supply	0	0	0	0	0	0	0	0	0	0	0	0	0

Year: 1997

Lerdo Canal at Seventh Standard Line (Total Flow)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	346	199	319	430	464	507	533	517	337	405	410	388
2	294	200	323	476	477	533	568	512	342	407	409	319
3	128	206	382	453	419	526	578	490	330	392	440	256
4	141	221	378	398	428	509	592	481	326	312	483	268
5	144	220	394	365	485	513	537	517	334	262	491	379
6	141	214	440	335	517	511	557	518	335	278	492	374
7	140	191	460	333	548	536	578	573	386	226	509	373
8	148	184	404	330	529	580	579	609	408	245	502	286
9	135	186	432	349	513	579	615	562	418	187	498	224
10	0	192	428	388	459	579	613	560	414	176	488	207
11	0	196	438	345	473	549	592	582	414	161	491	324
12	0	197	480	334	544	562	552	568	392	170	493	397
13	0	194	471	383	561	599	530	531	346	263	496	388
14	0	196	440	452	590	525	563	473	344	292	503	392
15	0	195	425	467	567	504	583	441	365	271	492	373
16	0	194	451	459	530	555	624	441	384	254	484	356
17	0	186	514	447	497	618	647	470	381	213	489	328
18	0	181	556	430	522	628	588	505	349	202	466	335
19	0	195	594	410	575	604	530	530	355	237	462	275
20	0	192	593	430	562	598	523	495	323	230	462	177
21	0	197	600	475	606	554	539	490	335	209	464	187
22	0	213	566	480	639	540	564	501	349	204	462	192
23	74	232	472	480	585	561	533	463	354	207	468	238
24	136	263	394	476	524	572	499	410	322	211	458	229
25	137	294	373	448	528	586	498	388	335	204	461	204
26	143	322	369	410	553	594	498	395	331	214	408	209
27	161	330	372	399	551	569	510	392	301	268	385	213
28	157	319	331	425	548	539	516	382	285	268	397	217
29	174	-	275	425	538	547	500	354	354	286	401	217
30	202	-	284	449	562	526	508	293	385	366	398	201
31	197	-	398	-	521	-	509	279	-	380	-	157
TOTAL	2,998	6,109	13,356	12,481	16,415	16,703	17,156	14,722	10,634	8,000	13,862	8,683
MAXIMUM DAY	346	330	600	480	639	628	647	609	418	407	509	397
MINIMUM DAY	0	181	275	330	419	504	498	279	285	161	385	157
MEAN	97	218	431	416	530	557	553	475	354	258	462	280
TOTAL AC.FT.	5,947	12,116	26,492	24,756	32,559	33,129	34,030	29,201	21,091	15,869	27,495	17,224
WHOLE YEAR:-	TOTAL,	141,119	MAX.,	647	MIN.,	0	MEAN,	387	TOTAL AC.FT.,	279,909		

NORTH KERN WATER STORAGE DISTRICT  
LERDO CANAL OPERATIONS

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Total Beardsley Canal Supply +	6,055	12,306	27,861	26,056	34,085	34,782	35,891	30,920	22,271	16,734	29,438	17,407	293,806
+ KRC & Irr. Co. Laterals	0	0	990	836	1,102	1,223	1,352	1,229	703	451	370	0	8,256
+ KRC & Irr. Co. Boosters	0	22	196	242	221	224	269	247	166	136	4	0	1,727
+ Lined Section Loss: KRC & Irr. Co.	0	18	56	60	61	60	61	61	60	61	54	0	552
= KRC & Irr. Co. from Beardsley	0	40	1,242	1,138	1,384	1,507	1,682	1,537	929	648	428	0	10,535
Rosedale Ranch ID via 1-1-0	0	0	0	42	20	26	57	60	69	0	183	0	457
KCWA-ID4 via 1-1-0 Lateral	0	0	0	0	0	0	0	0	62	95	8	0	165
North Kern WSD via 1-1-0	0	0	0	0	0	0	0	0	0	0	1,198	0	1,198
Lined Section Loss: Cawelo WD	4	50	61	60	61	60	61	61	60	61	56	61	656
Lined Section Loss: NKWSD	104	100	66	60	61	60	61	61	60	61	70	122	886
Lerdo Canal Total Flow =	5,947	12,116	26,492	24,756	32,559	33,129	34,030	29,201	21,091	15,869	27,495	17,224	279,909
KRC & Irr. Co. via 8-1-0	0	0	0	0	0	0	0	0	2	48	12	0	62
City via 8-1-0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rosedale Ranch ID via Lerdo	0	0	0	0	0	0	0	34	1,277	1,174	71	127	2,683
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"	42	843	3,290	6,145	11,329	11,703	12,547	11,008	5,587	3,753	1,672	1,107	69,026
+ Cawelo WD 8-0 Deliveries	4	22	193	530	551	869	901	702	496	434	169	2	4,873
+ Lerdo Loss: to Station "B"	0	8	33	61	113	117	125	110	56	38	17	12	690
+ Lerdo Loss: 8-0 Deliveries	0	0	3	10	12	15	18	14	9	8	3	0	92
= Cawelo WD Total from Lerdo	46	873	3,519	6,746	12,005	12,704	13,591	11,834	6,148	4,233	1,861	1,121	74,681
North Kern WSD from Lerdo =	5,901	11,243	22,973	18,010	20,554	20,425	20,439	17,333	13,664	10,414	25,551	15,976	202,483

Year: 1997

Total Flow via the Calloway Canal Headgate

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	45	209	271	185	209	294	310	242	127	0	0	0
2	85	203	267	188	187	296	308	247	120	0	0	0
3	203	202	290	184	163	293	315	246	108	0	0	0
4	170	209	292	176	167	298	306	242	122	0	0	0
5	133	203	287	165	171	273	290	247	124	0	0	0
6	132	205	298	157	178	254	315	244	119	0	0	0
7	129	218	315	160	220	261	313	252	118	0	0	0
8	117	232	314	174	203	289	318	247	124	0	0	0
9	113	231	318	177	245	289	324	252	120	0	0	0
10	114	226	304	176	239	296	317	249	110	0	0	0
11	141	215	310	177	232	322	319	243	113	0	0	0
12	164	205	307	166	236	306	317	235	112	0	0	0
13	172	212	308	153	240	291	322	233	110	0	0	0
14	176	222	307	163	255	295	318	233	114	0	0	0
15	188	240	316	180	283	293	316	222	119	0	0	0
16	195	237	319	189	275	300	340	201	109	0	0	0
17	192	242	351	190	269	320	344	210	113	0	0	0
18	189	195	346	185	274	345	335	199	105	0	0	0
19	182	207	349	169	284	340	276	203	94	0	0	0
20	204	228	335	155	276	336	269	216	112	0	0	0
21	193	237	329	168	280	336	281	219	100	0	0	0
22	225	220	284	180	290	328	286	223	46	0	0	0
23	229	225	291	174	283	339	277	220	0	0	0	0
24	227	244	257	177	280	345	273	219	0	0	0	0
25	218	260	270	178	287	328	263	200	0	0	0	0
26	205	278	254	166	287	325	249	161	0	0	0	0
27	201	288	235	166	296	322	249	153	0	0	0	0
28	206	281	196	184	297	315	246	154	0	0	0	0
29	213	-	144	200	298	316	241	121	0	0	0	0
30	200	-	142	211	300	316	245	124	0	0	0	0
31	204	-	147	-	300	-	241	130	-	0	-	0
TOTAL	5,365	6,374	8,753	5,273	7,804	9,261	9,123	6,587	2,439	0	0	0
MAXIMUM DAY	229	288	351	211	300	345	344	252	127	0	0	0
MINIMUM DAY	45	195	142	153	163	254	241	121	0	0	0	0
MEAN	173	228	282	176	252	309	294	212	81	0	0	0
TOTAL AC.FT.	10,641	12,642	17,361	10,459	15,479	18,369	18,095	13,065	4,837	0	0	0
WHOLE YEAR:-	TOTAL,	60,979	MAX.,	351	MIN.,	0	MEAN,	167	TOTAL AC.FT.,	120,948		

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

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	141	197	48	49	119	152	108	0	0	0	0
2	0	143	188	52	57	127	157	111	0	0	0	0
3	71	136	207	32	52	130	157	105	0	0	0	0
4	91	140	199	29	64	124	144	98	0	0	0	0
5	60	134	184	53	54	121	147	96	0	0	4	0
6	66	139	193	43	43	113	162	85	0	0	13	0
7	71	132	191	31	63	101	152	91	0	0	23	0
8	67	138	195	37	34	143	147	89	0	0	28	0
9	76	137	192	38	55	126	152	89	0	0	29	0
10	75	135	199	35	60	119	157	84	0	0	28	0
11	79	145	195	34	54	129	153	90	0	0	28	0
12	79	138	209	25	47	118	151	87	0	0	25	0
13	84	144	200	28	80	108	159	89	0	0	25	0
14	90	136	195	14	88	113	163	82	0	0	28	0
15	105	139	196	15	122	113	161	72	0	0	22	0
16	108	143	199	19	106	121	183	55	0	0	11	0
17	97	154	198	21	119	132	187	65	0	0	21	0
18	104	156	202	25	116	178	181	61	0	0	25	0
19	102	154	211	47	100	148	135	43	0	0	17	0
20	124	165	214	50	107	151	145	53	0	0	22	0
21	97	166	212	46	113	166	134	49	0	0	31	0
22	130	156	167	38	126	177	125	44	0	0	26	0
23	128	166	178	11	122	161	119	67	0	0	22	0
24	129	189	161	14	116	160	109	72	0	0	25	0
25	135	196	151	31	124	155	101	46	0	0	28	0
26	135	190	134	15	123	141	79	14	0	0	26	0
27	127	198	90	39	123	144	81	10	0	0	7	0
28	137	195	69	36	117	153	83	15	0	0	0	0
29	140	-	44	52	112	161	89	0	0	0	0	0
30	148	-	45	44	117	170	99	0	0	0	0	0
31	137	-	34	-	122	-	105	0	-	-	-	0
TOTAL	2,992	4,305	5,249	1,002	2,785	4,122	4,269	1,970	0	0	514	0
MAXIMUM DAY	148	198	214	53	126	178	187	111	0	0	31	0
MINIMUM DAY	0	132	34	11	34	101	79	0	0	0	0	0
MEAN	97	154	169	33	90	137	138	64	0	0	17	0
TOTAL AC.FT.	5,934	8,539	10,411	1,987	5,524	8,176	8,467	3,907	0	0	1,020	0
WHOLE YEAR:-	TOTAL,	27,208	MAX.,	214	MIN.,	0	MEAN,	75	TOTAL AC.FT.,	53,965		

**NORTH KERN WATER STORAGE DISTRICT  
CALLOWAY CANAL OPERATIONS**

Quantities in acre-feet

Year: 1997

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>FLOW AT HEADWORKS</b>	+ 10,641	12,642	17,361	10,459	15,479	18,369	18,095	13,065	4,837	0	0	0	120,948
KCWA Aranco Turnout	- 2,093	2,005	2,955	4,064	5,205	5,314	5,544	5,406	3,504	0	0	0	36,090
Seepage Loss	- 121	121	137	143	156	167	174	158	99	0	0	0	1,276
<b>FLOW AT MEASURING STATION</b>	= 8,427	10,516	14,269	6,252	10,118	12,888	12,377	7,501	1,234	0	0	0	83,582
CVC Turnout to Calloway	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Seepage Loss	- 585	371	403	423	441	414	319	411	230	0	0	0	3,597
<b>FLOW AT STANDARD WEIR</b>	= 7,842	10,145	13,866	5,829	9,677	12,474	12,058	7,090	1,004	0	0	0	79,985
Bartell Spreading	- 0	0	0	0	0	0	0	0	0	0	0	0	0
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	36	56	101	131	214	214	177	95	1,367	0	2,391
KRC & Irr. Co. Calloway Delivery	- 0	0	0	0	0	0	0	0	0	0	0	0	0
Seepage Loss	- 1,416	1,138	1,271	1,291	1,287	1,226	996	1,210	743	95	65	0	10,738
<b>FLOW AT LABORER WEIR</b>	= 6,426	9,007	12,631	4,594	8,491	11,379	11,276	6,094	438	0	1,302	0	71,638
KRC & Irr. Co. Calloway Delivery	- 0	0	122	118	176	167	208	152	71	36	36	0	1,086
Rosedale Ranch ID at Headworks	- 256	329	1,559	1,561	1,880	1,896	1,371	1,470	1,045	678	254	127	12,426
Seepage Loss	- 236	139	190	204	270	275	282	224	113	87	85	30	2,135
NKWSD 8-1-0 Inflow	+ 0	0	0	0	0	0	0	38	1,144	801	93	157	2,233
<b>FLOW AT SEVENTH STANDARD LINE for Rosedale Ranch ID for North Kern WSD</b>	= 5,934	8,539	10,760	2,711	6,165	9,041	9,415	4,286	353	0	1,020	0	58,224
	- 0	0	349	724	641	865	948	379	353	0	0	0	4,259
	= 5,934	8,539	10,411	1,987	5,524	8,176	8,467	3,907	0	0	1,020	0	53,965

**KERN COUNTY WATER AGENCY / I.D. #4:**

Operating Loss	+ 167	171	191	185	210	220	228	212	139	0	0	0	1,723
Turnout #4 to River	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
ID #4 Treatment Plant	+ 1,412	1,376	2,100	2,798	3,702	3,799	3,954	3,817	2,481	0	0	0	25,439
Cross Valley Canal Filling Losses	+ 127	89	65	115	135	129	142	159	85	0	0	0	1,046
CVC Backflow (Net)	+ 500	486	736	1,109	1,314	1,333	1,394	1,376	898	0	0	0	9,146
Spreading Below Measuring Station	+ 0	0	0	1,785	1,837	1,755	1,432	1,710	1,003	95	8	0	9,625
<b>TOTAL DIVERTED</b>	= 2,206	2,122	3,092	5,992	7,198	7,236	7,150	7,274	4,606	95	8	0	46,979

**KERN RIVER CANAL & IRRIGATING CO.:**

Calloway Irrigation Deliveries	+ 0	0	122	118	176	167	208	152	71	36	36	0	1,086
Delivery Loss/Spreading	+ 0	0	31	27	52	45	48	46	20	12	8	0	289
<b>TOTAL DIVERTED</b>	= 0	0	153	145	228	212	256	198	91	48	44	0	1,375

**ROSEDALE RANCH ID:**

Flow at Headworks	+ 256	329	1,559	1,561	1,880	1,896	1,371	1,470	1,045	678	254	127	12,426
Flow at Seventh Standard Line	+ 0	0	349	724	641	865	948	379	353	0	0	0	4,259
Assigned Loss	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL DIVERTED</b>	= 256	329	1,908	2,285	2,521	2,761	2,319	1,849	1,398	678	254	127	16,685

**NORTH KERN WATER STORAGE DISTRICT:**

Flow at Seventh Standard Line	+ 5,934	8,539	10,411	1,987	5,524	8,176	8,467	3,907	0	0	1,020	0	53,965
Total Loss	+ 2,245	1,652	1,833	106	109	115	117	89	63	75	134	30	6,568
<b>TOTAL DIVERTED</b>	= 8,179	10,191	12,244	2,093	5,633	8,291	8,584	3,996	63	75	1,154	30	60,533

North Kern Water Storage District  
Class 1 Irrigation Deliveries

Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	46	106	197	138	303	214	79	142	27	0
2	0	0	42	134	198	201	318	207	73	112	12	0
3	0	0	51	152	192	237	331	161	78	104	24	0
4	0	5	54	116	144	266	271	227	103	75	32	0
5	0	7	89	85	214	295	239	210	121	50	26	0
6	0	6	95	72	204	257	200	196	99	85	23	0
7	0	4	106	134	212	230	276	235	49	70	36	0
8	0	5	117	118	227	196	283	239	104	60	32	0
9	0	3	113	110	223	250	296	236	119	71	25	0
10	0	10	127	143	213	278	262	155	101	65	31	0
11	0	11	116	158	142	281	248	209	113	50	10	0
12	0	15	123	149	191	273	244	194	113	20	2	0
13	0	15	146	99	199	246	200	200	119	39	2	0
14	2	25	126	136	214	228	223	168	94	30	6	0
15	0	35	133	124	222	185	235	163	140	37	4	0
16	0	30	116	137	178	206	262	142	131	41	2	0
17	0	26	119	129	166	224	297	134	138	35	5	0
18	0	17	134	132	142	246	297	168	127	19	7	0
19	0	12	165	154	224	284	260	176	139	6	0	0
20	0	10	163	116	222	284	196	163	126	23	0	0
21	0	23	159	185	237	231	245	189	95	22	0	0
22	0	21	131	214	286	189	214	177	101	25	0	0
23	0	24	96	210	272	245	158	142	116	37	0	2
24	0	52	119	210	234	244	182	119	103	33	0	0
25	0	54	126	202	207	314	188	129	100	33	0	0
26	0	46	115	157	223	329	150	113	115	23	0	0
27	0	71	143	125	223	302	136	149	87	62	0	0
28	0	66	132	169	212	258	171	133	59	62	0	0
29	0	-	99	211	200	201	192	110	136	63	0	2
30	0	-	57	191	196	261	195	78	140	35	0	3
31	0	-	103	-	211	-	175	42	-	32	-	3
TOTAL	2	593	3,461	4,378	6,425	7,379	7,247	5,178	3,218	1,561	306	10
MAXIMUM DAY	2	71	165	214	286	329	331	239	140	142	36	3
MINIMUM DAY	0	0	42	72	142	138	136	42	49	6	0	0
MEAN	0	21	112	146	207	246	234	167	107	50	10	0
TOTAL AC.FT.	5	1,176	6,865	8,683	12,744	14,636	14,374	10,270	6,383	3,095	606	20
WHOLE YEAR:-	TOTAL,	39,758	MAX.,	331	MIN.,	0	MEAN,	109	TOTAL AC.FT.,	78,857		

Year: 1997

North Kern Water Storage District  
Class 2 Irrigation Deliveries

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	15	109	121	118	156	126	72	91	31	0
2	0	0	15	110	88	130	156	123	77	66	22	0
3	0	0	16	96	76	117	168	113	83	74	35	0
4	0	15	54	92	72	124	172	129	73	47	31	0
5	0	0	54	80	115	141	151	134	80	44	44	0
6	0	0	80	61	123	144	129	124	83	67	35	0
7	0	11	85	103	152	162	179	135	74	57	27	0
8	0	0	58	108	143	134	167	152	112	62	9	0
9	0	0	42	115	135	167	167	133	104	61	6	0
10	0	4	54	106	101	154	202	122	105	59	30	0
11	0	12	68	87	106	194	219	144	102	55	15	0
12	0	15	81	75	147	177	189	144	107	60	20	0
13	0	13	77	58	170	184	170	140	81	59	16	0
14	0	10	87	130	184	156	198	141	56	56	2	0
15	0	22	81	117	183	109	211	124	65	65	3	0
16	0	15	65	135	208	136	215	129	94	41	0	0
17	0	10	90	135	192	178	223	114	88	49	0	0
18	0	9	138	119	158	199	199	120	83	35	5	0
19	0	13	147	88	146	197	172	138	86	27	3	0
20	0	12	126	92	185	181	152	153	72	52	3	0
21	0	14	100	141	167	170	179	147	54	37	3	0
22	0	11	94	135	187	159	187	151	65	40	2	0
23	0	10	93	101	161	169	187	134	72	36	3	0
24	0	21	114	108	128	174	167	102	65	46	5	0
25	0	36	110	109	130	153	162	101	64	43	6	0
26	0	37	88	129	139	173	131	103	72	28	0	0
27	0	33	86	84	151	171	126	111	64	59	0	0
28	0	28	56	121	158	155	147	88	76	55	0	0
29	0	-	45	150	172	137	131	81	66	66	0	0
30	0	-	46	121	156	174	128	86	79	51	0	0
31	0	-	114	-	162	-	142	62	-	35	-	0
TOTAL	0	351	2,379	3,215	4,516	4,737	5,282	3,804	2,374	1,623	356	0
MAXIMUM DAY	0	37	147	150	208	199	223	153	112	91	44	0
MINIMUM DAY	0	0	15	58	72	109	126	62	54	27	0	0
MEAN	0	13	77	107	146	158	170	123	79	52	12	0
TOTAL AC.FT.	0	696	4,719	6,377	8,957	9,396	10,476	7,545	4,709	3,219	706	0
WHOLE YEAR:-	TOTAL,	28,637	MAX.,	223	MIN.,	0	MEAN,	78	TOTAL AC.FT.,	56,800		

Year: 1997

Total Diverted to Rosedale Ranch Improvement District

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	5	15	41	20	51	40	15	17	37	9	10
2	0	5	17	44	24	43	38	10	25	36	9	8
3	0	5	21	51	18	39	38	17	24	33	9	6
4	0	5	43	44	16	47	37	20	27	6	10	0
5	0	5	46	21	17	44	35	25	39	10	14	0
6	0	4	35	31	26	29	41	37	38	20	12	0
7	0	4	39	35	36	36	43	37	38	18	5	0
8	0	4	35	34	52	26	47	31	37	10	0	0
9	0	4	30	32	52	44	46	36	34	14	0	0
10	0	4	30	36	48	53	40	38	38	12	0	0
11	0	4	30	33	55	56	42	38	39	6	0	0
12	0	3	29	45	55	60	44	38	12	9	0	3
13	0	3	28	46	33	62	41	41	27	11	0	5
14	0	2	28	51	33	63	41	41	28	31	0	5
15	0	2	26	55	30	55	38	45	23	30	5	5
16	0	2	26	51	46	50	32	36	22	26	15	4
17	0	2	44	52	38	48	34	26	22	21	6	1
18	0	8	48	50	35	31	35	30	22	0	2	0
19	0	9	55	24	53	57	26	44	19	9	11	0
20	0	9	46	21	41	50	15	37	18	43	4	0
21	17	9	40	20	39	43	28	37	13	47	0	0
22	15	11	36	31	47	34	38	48	13	44	4	0
23	14	8	19	55	48	51	39	30	20	36	9	0
24	14	8	15	49	52	56	44	25	23	32	4	0
25	14	9	20	33	48	48	47	30	34	7	0	0
26	14	9	22	49	41	52	49	28	34	7	0	0
27	11	11	34	36	49	49	46	20	15	9	0	9
28	10	12	29	35	52	43	41	18	21	9	0	4
29	9	-	16	21	56	40	32	18	46	8	0	4
30	6	-	24	26	58	32	31	18	37	5	0	0
31	5	-	36	-	53	-	21	18	-	6	-	0
TOTAL	129	166	962	1,152	1,271	1,392	1,169	932	805	592	128	64
MAXIMUM DAY	17	12	55	55	58	63	49	48	46	47	15	10
MINIMUM DAY	0	2	15	20	16	26	15	10	12	0	0	0
MEAN	4	6	31	38	41	46	38	30	27	19	4	2
TOTAL AC.FT.	256	329	1,908	2,285	2,521	2,761	2,319	1,849	1,596	1,174	254	127
WHOLE YEAR:-	TOTAL,	8,762	MAX.,	63	MIN.,	0	MEAN,	24	TOTAL AC.FT.,	17,379		

**ROSEDALE RANCH IMPROVEMENT DISTRICT**

Year: 1997

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>TOTAL DIVERTED</b>	+	256	329	1,908	2,285	2,521	2,319	1,849	1,596	1,174	254	127	17,379
RRID at Headgate	-	256	329	1,559	1,561	1,896	1,371	1,470	1,045	678	254	127	12,426
RRID via NKWSD 5-2 Lateral	-	0	0	0	0	0	0	0	0	0	0	0	0
RRID via NKWSD 5-7 Lateral	-	0	0	349	724	865	948	379	551	496	0	0	4,953
Upstream Diversion Loss	=	0	0	0	0	0	0	0	0	0	0	0	0
<b>IRRIGATION DELIVERIES</b>	+	0	0	1,002	1,460	2,061	1,764	1,192	1,293	956	142	45	11,849
City of Bakersfield Miscellaneous	-	0	0	1,002	1,460	2,061	1,764	1,192	1,293	956	142	45	11,849
City of Bakersfield Non-Kern River	-	0	0	0	0	0	0	0	0	0	0	0	0
NKWSD Kern River Exchange	-	0	0	0	0	0	0	0	0	0	0	0	0
NKWSD Non-Kern River	=	0	0	0	0	0	0	0	0	0	0	0	0
<b>LOSS &amp; SPREADING</b>	+	256	329	906	825	587	555	657	303	218	112	82	5,530
City of Bakersfield Miscellaneous	-	256	0	906	825	587	555	657	303	218	112	82	5,201
City of Bakersfield Non-Kern River	-	0	0	0	0	0	0	0	0	0	0	0	0
NKWSD Kern River Exchange	-	0	0	0	0	0	0	0	0	0	0	0	0
NKWSD Non-Kern River	-	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Floodwater	=	0	329	0	0	0	0	0	0	0	0	0	329
<b>RECHARGE PURCHASE PROGRAM</b>	+	0	0	0	0	0	0	0	0	0	0	0	0
City of Bakersfield Miscellaneous	-	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
<b>NKWSD/RRID EXCHANGE STATUS</b>													
RRID to NKWSD	+	0	0	0	0	0	0	0	0	0	0	0	0
NKWSD to RRID	-	0	0	0	0	0	0	0	0	0	0	0	0
Exchange Balance	=	10,257	10,257	10,257	10,257	10,257	10,257	10,257	10,257	10,257	10,257	10,257	10,257

Year: 1997

Poso Creek Natural Flow as Measured at Highway #99

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	99	269	99	11	0	0	0	0	0	0	0	0
2	107	248	81	11	0	0	0	0	0	0	0	0
3	538	218	68	17	0	0	0	0	0	0	0	0
4	1,548	201	63	15	0	0	0	0	0	0	0	0
5	670	169	65	4	0	0	0	0	0	0	0	0
6	446	218	72	0	0	0	0	0	0	0	0	0
7	296	149	70	4	0	0	0	0	0	0	0	0
8	223	190	52	5	0	0	0	0	0	0	0	0
9	198	185	64	7	0	0	0	0	0	0	0	0
10	179	183	52	1	0	0	0	0	0	0	0	0
11	158	177	39	0	0	0	0	0	0	0	0	0
12	157	134	31	0	0	0	0	0	0	0	0	0
13	168	159	30	0	0	0	0	0	0	0	0	0
14	234	143	39	0	0	0	0	0	0	0	0	0
15	179	127	37	2	0	0	0	0	0	0	0	0
16	336	132	29	0	0	0	0	0	0	0	0	0
17	286	127	27	0	0	0	0	0	0	0	0	0
18	238	127	21	0	0	0	0	0	0	0	0	0
19	211	136	16	0	0	0	0	0	0	0	0	0
20	192	119	17	0	0	0	0	0	0	0	0	0
21	206	119	15	0	0	0	0	0	0	0	0	0
22	224	113	15	0	0	0	0	0	0	0	0	0
23	262	111	18	0	0	0	0	0	0	0	0	0
24	335	111	16	0	0	0	0	0	0	0	0	0
25	300	106	14	0	0	0	0	0	0	0	0	0
26	343	72	13	0	0	0	0	0	0	0	0	0
27	468	60	3	0	0	0	0	0	0	0	0	0
28	356	69	8	0	0	0	0	0	0	0	0	0
29	333	-	14	0	0	0	0	0	0	0	0	0
30	324	-	15	0	0	0	0	0	0	0	0	0
31	289	-	16	-	0	-	0	0	-	0	-	0
TOTAL	9,903	4,172	1,119	77	0	0	0	0	0	0	0	0
MAXIMUM DAY	1,548	269	99	17	0	0	0	0	0	0	0	0
MINIMUM DAY	99	60	3	0	0	0	0	0	0	0	0	0
MEAN	319	149	36	3	0	0	0	0	0	0	0	0
TOTAL AC.FT.	19,642	8,275	2,220	153	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	15,271	MAX.,	1,548	MIN.,	0	MEAN,	42	TOTAL AC.FT.,	30,290		

**NORTH KERN WATER STORAGE DISTRICT  
STATUS OF EXCHANGE**

Year: 1997

Quantities in acre-feet

	BUENA VISTA WSD		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	5,884	0	2,641	0	0	0	0	0	10,257	0	31,739	0	2,457	0	22,721	0	10,868	
January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	363	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	425	0	0	1,432	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	825	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	716	0	0	591	0	0
July	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	598	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	224	0	0	0	0	0
September	2,444	2,444	0	0	0	0	0	0	722	722	107	107	0	0	0	0	0	242	0	0	3,273	0	0
October	2,783	2,783	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	2,524	0	3,253	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	16	0	3,882	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	5,227	5,227	0	0	16	0	3,882	0	722	722	107	107	0	0	0	0	0	3,459	2,524	0	8,549	0	0
<b>Current Status</b>	0	0	0	0	0	5,868	1,241	0	0	0	0	0	0	10,257	0	31,739	0	1,522	0	31,270	0	10,868	

# NORTH KERN WATER STORAGE DISTRICT

## IMPROVEMENT DISTRICT NO. 4 WATER EXCHANGE SUMMARY

1997

<i>Pursuant to North Kern WSD/Improvement District #4 Accounting Agreement Dated March 1, 1995</i>							
CATEGORY 'A'				CATEGORY 'B'			
<i>Date</i>	<i>NKWSD to ID4</i>	<i>ID4 to NKWSD</i>	<i>Cumulative Exchange Balance</i>	<i>Date</i>	<i>NKWSD to ID4</i>	<i>ID4 to NKWSD</i>	<i>Cumulative Exchange Balance</i>
9-08-88	12,163	7,796	4,367	5-13-91	395	0	395
6-06-90	0	1,630	(1,630)				
8-22-91	0	261	(261)				
4-23-93	12,557	9,434	3,123				
3-02-95	0	8,635	(8,635)				
12-16-97	3,882	0	3,882				
<b>Totals</b>	<b>28,602</b>	<b>27,756</b>	<b>846</b>	<b>Totals</b>	<b>395</b>	<b>0</b>	<b>395</b>

**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 Paragraph D below.

Priority Equation D.

Paybacks within Priority 3 shall be allocated in proportion to time remaining and amount owed. Each exchanger 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 exchanger declines payback the amounts owed will be extinguished on December 31st of the last year.

North Kern Water Storage District												Year: 1997		
Semitropic Water Storage District Irrigation Deliveries														
DISCHARGE IN CUBIC FEET PER SECOND														
DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
1	0	0	0	0	9	11	12	10	0	0	0	0		
2	0	0	0	0	19	11	17	6	0	0	0	0		
3	0	0	0	0	14	11	16	0	0	0	0	0		
4	0	0	2	0	18	11	15	3	0	0	0	0		
5	0	0	8	0	19	11	7	3	0	0	0	0		
6	0	0	8	0	18	12	7	3	0	0	0	0		
7	0	0	8	2	15	12	10	3	0	0	0	0		
8	0	0	6	2	0	13	8	3	3	0	0	0		
9	0	0	6	2	15	7	3	0	3	3	0	0		
10	0	0	8	2	13	7	3	0	3	3	0	0		
11	0	0	11	2	8	7	3	6	10	0	0	0		
12	0	0	10	0	14	7	5	9	10	0	0	0		
13	0	0	11	0	15	7	5	10	7	3	0	0		
14	0	0	11	12	16	5	14	10	6	3	0	0		
15	0	0	11	12	15	13	12	7	10	3	0	0		
16	0	0	11	19	6	15	10	5	15	3	0	0		
17	0	0	10	18	0	15	13	3	14	3	0	0		
18	0	0	11	25	0	15	13	10	12	0	0	0		
19	0	0	10	22	2	14	5	10	12	0	0	0		
20	0	0	11	23	7	13	5	6	7	3	0	0		
21	0	0	11	17	18	13	10	6	6	3	0	0		
22	0	0	7	15	17	13	12	0	4	3	0	0		
23	0	0	7	15	16	13	17	0	0	3	0	0		
24	0	0	5	9	16	18	16	0	0	0	0	0		
25	0	0	0	8	16	18	17	0	0	0	0	0		
26	0	0	0	9	21	18	7	0	0	0	0	0		
27	0	0	0	0	21	13	7	0	0	0	0	0		
28	0	0	0	0	21	13	7	0	0	0	0	0		
29	0	-	0	0	20	13	6	0	0	0	0	0		
30	0	-	0	0	16	12	10	0	0	0	0	0		
31	0	-	0	-	11	-	10	0	-	0	-	0		
TOTAL	0	0	183	214	416	361	302	113	122	33	0	0		
MAXIMUM DAY	0	0	11	25	21	18	17	10	15	3	0	0		
MINIMUM DAY	0	0	0	0	0	5	3	0	0	0	0	0		
MEAN	0	0	6	7	13	12	10	4	4	1	0	0		
TOTAL AC.FT.	0	0	363	425	825	716	598	224	242	66	0	0		
WHOLE YEAR:-	TOTAL,	1,744	MAX.,	25	MIN.,	0	MEAN,	5	TOTAL AC.FT.,	3,459				

Friant-Kern Inflow to Arvin-Edison Intake Canal  
(Shafter-Wasco ID/North Kern WSD Exchange Program)

DISCHARGE IN CUBIC FEET PER SECOND

Year: 1997

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	54	0	0	0
5	0	0	0	0	0	0	0	0	100	0	0	0
6	0	0	0	0	0	0	0	0	0	100	0	0
7	0	0	0	0	0	0	0	0	0	100	0	0
8	0	0	0	0	0	0	0	0	0	100	0	0
9	0	0	0	0	0	0	0	0	0	100	0	0
10	0	0	0	0	0	0	0	0	0	100	0	0
11	0	0	0	0	0	0	0	0	0	100	0	0
12	0	0	0	0	0	0	0	0	0	100	0	0
13	0	0	0	0	0	0	0	0	81	100	0	0
14	0	0	0	0	0	0	0	0	150	100	0	0
15	0	0	0	0	0	0	0	0	150	100	0	0
16	0	0	0	0	0	0	0	0	150	100	0	0
17	0	0	0	0	0	0	0	0	150	100	0	0
18	0	0	0	0	0	0	0	0	150	49	0	0
19	0	0	0	0	0	0	0	0	150	0	0	0
20	0	0	0	0	0	0	0	0	150	0	0	0
21	0	0	0	0	0	0	0	0	150	0	0	0
22	0	0	0	0	0	0	0	0	150	0	0	0
23	0	0	0	0	0	0	0	0	150	0	0	0
24	0	0	0	0	0	0	0	0	69	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	1,650	1,403	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	150	100	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	55	45	0	0
TOTAL AC.FT.	0	0	0	0	0	0	0	0	3,273	2,783	0	0
WHOLE YEAR:-	TOTAL	3,053	MAX.	150	MIN.	0	MEAN	8	TOTAL AC.FT.	6,056		

**Shafter-Wasco ID Diverted to North Kern WSD**  
**(Shafter-Wasco ID/North Kern WSD Exchange Program)**  
 Year: 1997

**DISCHARGE IN CUBIC FEET PER SECOND**

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	13	0	0
7	0	0	0	0	0	0	0	0	0	13	0	0
8	0	0	0	0	0	0	0	0	0	13	0	0
9	0	0	0	0	0	0	0	0	0	7	0	0
10	0	0	0	0	0	0	0	0	0	11	0	0
11	0	0	0	0	0	0	0	0	0	13	0	0
12	0	0	0	0	0	0	0	0	0	9	0	0
13	0	0	0	0	0	0	0	0	0	10	0	0
14	0	0	0	0	0	0	0	0	0	10	0	0
15	0	0	0	0	0	0	0	0	0	14	0	0
16	0	0	0	0	0	0	0	0	0	7	0	0
17	0	0	0	0	0	0	0	0	0	10	0	0
18	0	0	0	0	0	0	0	0	0	9	0	0
19	0	0	0	0	0	0	0	0	0	9	0	0
20	0	0	0	0	0	0	0	0	0	10	0	0
21	0	0	0	0	0	0	0	0	0	12	0	0
22	0	0	0	0	0	0	0	0	0	7	0	0
23	0	0	0	0	0	0	0	0	0	10	0	0
24	0	0	0	0	0	0	0	0	0	12	0	0
25	0	0	0	0	0	0	0	0	0	8	0	0
26	0	0	0	0	0	0	0	0	0	10	0	0
27	0	0	0	0	0	0	0	0	0	10	0	0
28	0	0	0	0	0	0	0	0	0	10	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	237	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	14	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	8	0	0
TOTAL AC.FT.	0	0	0	0	0	0	0	0	0	470	0	0
WHOLE YEAR:-	TOTAL,	237	MAX.,	14	MIN.,	0	MEAN,	1	TOTAL AC.FT.,	470		

North Kern WSD Exchange Water Delivered to Improvement District No. 4  
(Pursuant to North Kern WSD/ID4 Exchange Agreement Dated December 16, 1997) Year: 1997

DISCHARGE IN CUBIC FEET PER SECOND

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	1
3	0	0	0	0	0	0	0	0	0	0	0	78
4	0	0	0	0	0	0	0	0	0	0	0	118
5	0	0	0	0	0	0	0	0	0	0	0	79
6	0	0	0	0	0	0	0	0	0	0	0	44
7	0	0	0	0	0	0	0	0	0	0	0	23
8	0	0	0	0	0	0	0	0	0	0	0	10
9	0	0	0	0	0	0	0	0	0	0	0	46
10	0	0	0	0	0	0	0	0	0	0	0	94
11	0	0	0	0	0	0	0	0	0	0	0	30
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	1
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	24
20	0	0	0	0	0	0	0	0	0	0	0	76
21	0	0	0	0	0	0	0	0	0	0	0	105
22	0	0	0	0	0	0	0	0	0	0	0	124
23	0	0	0	0	0	0	0	0	0	0	0	112
24	0	0	0	0	0	0	0	0	0	0	0	100
25	0	0	0	0	0	0	0	0	0	0	0	108
26	0	0	0	0	0	0	0	0	0	0	0	106
27	0	0	0	0	0	0	0	0	0	0	0	121
28	0	0	0	0	0	0	0	0	0	0	0	133
29	0	-	0	0	0	0	0	0	0	0	0	153
30	0	-	0	0	0	0	0	0	0	0	0	183
31	0	-	0	-	0	-	0	0	-	0	-	88
TOTAL	0	0	0	0	0	0	0	0	0	0	0	1,957
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	183
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	63
TOTAL AC.FT.	0	0	0	0	0	0	0	0	0	0	0	3,882
WHOLE YEAR:-	TOTAL,	1,957	MAX.,	183	MIN.,	0	MEAN,	5	TOTAL AC.FT.,	3,882		

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

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1995													
NKWSD to CITY	7,966	0	0	0	0	0	0	0	0	0	0	0	7,966
CITY to NKWSD	934	0	0	0	0	0	0	0	0	0	0	0	934
Other Purchase Rate	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY Debit to NKWSD	56,292	56,292	56,292	56,292	56,292	56,292	56,292	56,292	56,292	56,292	56,292	56,292	56,292

1996													
NKWSD to CITY	5,669	0	0	0	0	0	0	0	0	0	0	0	5,669
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	61,961	61,961	61,961	61,961	61,961	61,961	61,961	61,961	61,961	61,961	61,961	61,961	61,961

1997													
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	51,961

**COST ALLOCATION  
AND  
WATERMASTER SUMMARIES**

**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*

Year: 1997

Quantities in acre-feet

	1993					1994					1995					1996					1997					Five Year Total		Allocation Percentage		
Carrier Canal at Head	248,721					213,564					258,457					248,201					278,954					1,247,897				99.72%
Oilfield Discharge	365					1,172					635					405					14					2,591				0.21%
Storm Drain Inflow	187					114					188					316					110					915				0.07%
<b>TOTAL CARRIER CANAL FLOW</b>	<b>249,273</b>					<b>214,850</b>					<b>259,280</b>					<b>248,922</b>					<b>279,078</b>					<b>1,251,403</b>				<b>100.00%</b>
<b>Kern Island Canal (1)</b>	<b>136,717</b>					<b>134,703</b>					<b>129,588</b>					<b>151,613</b>					<b>153,501</b>					<b>706,122</b>				<b>56.42%</b>
Eastside Canal	19,528					18,835					18,303					19,358					19,099					95,123				7.60%
Kern Delta WD via Levee #1	43,880					23,249					52,123					46,099					61,761					227,112				18.15%
<b>KERN DELTA WATER DISTRICT TOTAL</b>	<b>200,125</b>					<b>176,787</b>					<b>200,014</b>					<b>217,070</b>					<b>234,361</b>					<b>1,028,357</b>				<b>82.17%</b>
Carrier Waste Gate	9,159					1,759					4,422					2,212					185					17,737				1.42%
Kern River Conduit via Levee #1	39,989					36,304					54,844					29,640					44,592					205,369				16.41%
<b>CITY OF BAKERSFIELD TOTAL</b>	<b>49,148</b>					<b>38,063</b>					<b>59,266</b>					<b>31,852</b>					<b>44,777</b>					<b>223,106</b>				<b>17.83%</b>

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

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

Year: 1997

Quantities in acre-feet

	1993					1994					1995					1996					1997					Five Year Total		Allocation Percentage								
	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997	Total
<b>TOTAL CARRIER CANAL FLOW (1)</b>	177,635	57,061	329,696	304,573	323,656	177,635	57,061	329,696	304,573	323,656	177,635	57,061	329,696	304,573	323,656	177,635	57,061	329,696	304,573	323,656	177,635	57,061	329,696	304,573	323,656	177,635	57,061	329,696	304,573	323,656	1,192,621	100.00%				
Stine Canal Total Diverted (2)	30,925	7,541	35,917	40,193	32,112	30,925	7,541	35,917	40,193	32,112	30,925	7,541	35,917	40,193	32,112	30,925	7,541	35,917	40,193	32,112	30,925	7,541	35,917	40,193	32,112	30,925	7,541	35,917	40,193	32,112	146,688	12.30%				
Arvin-Edison Turnout Total Diverted (2)	0	0	0	0	8,142	0	0	0	0	8,142	0	0	0	0	8,142	0	0	0	0	8,142	0	0	0	0	8,142	0	0	0	0	8,142	8,142	0.68%				
Buena Vista Canal Total Diverted (2)	42,919	14,551	38,005	31,521	41,905	42,919	14,551	38,005	31,521	41,905	42,919	14,551	38,005	31,521	41,905	42,919	14,551	38,005	31,521	41,905	42,919	14,551	38,005	31,521	41,905	42,919	14,551	38,005	31,521	41,905	168,901	14.16%				
River Canal Total Diverted (3)	2,128	2,660	3,632	2,723	1,449	2,128	2,660	3,632	2,723	1,449	2,128	2,660	3,632	2,723	1,449	2,128	2,660	3,632	2,723	1,449	2,128	2,660	3,632	2,723	1,449	2,128	2,660	3,632	2,723	1,449	12,592	1.06%				
<b>KERN DELTA WATER DISTRICT TOTAL DIVERTED FROM CARRIER CANAL</b>	75,972	24,752	77,554	74,437	83,608	75,972	24,752	77,554	74,437	83,608	75,972	24,752	77,554	74,437	83,608	75,972	24,752	77,554	74,437	83,608	75,972	24,752	77,554	74,437	83,608	75,972	24,752	77,554	74,437	83,608	336,323	28.20%				
<b>KERN RIVER CONDUIT (City of Bakersfield)</b>	101,663	32,309	252,142	230,136	240,048	101,663	32,309	252,142	230,136	240,048	101,663	32,309	252,142	230,136	240,048	101,663	32,309	252,142	230,136	240,048	101,663	32,309	252,142	230,136	240,048	101,663	32,309	252,142	230,136	240,048	856,298	71.80%				

- 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

1997

Quantities in acre-feet

BEARDSLEY CANAL USED

Preceding Five Years

Year	Diverted via Beardsley Canal						
	North Kern Water Storage District			CITY	Subtotal	CWD/Other	TOTAL
	NKWSD	RRID	TOTAL				
1993	144,312	8,943	153,255	23,920	177,175	73,033	250,208
1994	113,395	1,434	114,829	19,264	134,093	52,466	186,559
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
Total	895,197	24,699	919,896	110,886	1,030,782	342,659	1,373,441
Percent	86.84%	2.40%	89.24%	10.76%	100.00%		

CALLOWAY CANAL USED

Preceding Ten Years

Year	Diverted via Calloway Canal				
	NKWSD	CITY	Subtotal	ID4	TOTAL
1988	0	0	0	26,406	26,406
1989	0	0	0	17,669	17,669
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
Total	239,871	52,929	292,800	265,914	558,714
Percent	81.92%	18.08%	100.00%		

**IMPROVEMENT DISTRICT NO. 4 USE OF CALLOWAY CANAL**

Pursuant to Calloway Canal Agreement dated April 28, 1982

Year: 1997

Quantities in acre-feet  
except where noted...

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Operating Loss	167	171	191	185	210	220	228	212	139	0	0	0	1,723
Treatment Plant	1,412	1,376	2,100	2,798	3,702	3,799	3,954	3,817	2,481	0	0	0	25,439
Reverse Flow via Pump Plant #7	500	486	736	1,109	1,314	1,333	1,394	1,376	898	0	0	0	9,146
CVC Extension Losses	127	89	65	115	135	129	142	159	85	0	0	0	1,046
T.O. #4 to River	0	0	0	0	0	0	0	0	0	0	0	0	0
Loss to Standard Weir	0	0	0	423	441	414	319	411	230	0	0	0	2,238
Western Reach Flow	0	0	0	1,362	1,396	1,341	1,113	1,299	711	0	0	0	7,222
Trans. Charge Waived	0	0	0	1,785	1,837	1,755	1,432	1,710	941	0	0	0	9,460
<b>SUB-TOTAL DIVERSION</b>	<b>2,206</b>	<b>2,122</b>	<b>3,092</b>	<b>4,207</b>	<b>5,361</b>	<b>5,481</b>	<b>5,718</b>	<b>5,564</b>	<b>3,603</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>37,354</b>
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	1,297	1,297	1,297	1,297	1,297	1,297	1,297	1,297	1,297	1,297	1,297	1,297	
Current Rate	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	
<b>SUB-TOTAL CHARGE</b>	<b>\$2,139.82</b>	<b>\$2,058.34</b>	<b>\$2,999.24</b>	<b>\$4,080.79</b>	<b>\$5,200.17</b>	<b>\$5,316.57</b>	<b>\$5,546.46</b>	<b>\$5,397.08</b>	<b>\$3,494.91</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$36,233.38</b>
<b>W E S T A E R H N</b>													
Bartell Spreading	0	0	0	0	0	0	0	0	0	0	0	0	0
Loss Below Standard Weir	0	0	0	1,362	1,396	1,341	1,113	1,299	711	0	0	0	7,222
NKWSD Exchange Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0
Trans. Charge Waived	0	0	0	1,362	1,396	1,341	1,113	1,299	711	0	0	0	7,222
<b>SUB-TOTAL DIVERSION</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>								
Current Rate	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	\$0.97	
<b>SUB-TOTAL CHARGE</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>								
<b>TOTAL CHARGE</b>	<b>\$2,139.82</b>	<b>\$2,058.34</b>	<b>\$2,999.24</b>	<b>\$4,080.79</b>	<b>\$5,200.17</b>	<b>\$5,316.57</b>	<b>\$5,546.46</b>	<b>\$5,397.08</b>	<b>\$3,494.91</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$36,233.38</b>

**HYDROGRAPHIC SUMMARY**  
**UTILIZATION OF WATER - FIRST POINT GROUP - PRECEDING FIVE YEARS**

Year: 1997

Quantities in acre-feet

Canal	Five Year					Percentage	
	1993	1994	1995	1996	1997		Total
Kern Island	135,092	132,003	130,779	146,701	158,389	702,964	19.31%
Eastside	19,528	18,740	18,303	19,358	19,099	95,028	2.61%
Buena Vista	25,922	12,148	27,623	27,238	29,830	122,761	3.37%
Stine	26,952	6,904	25,655	26,384	25,760	111,655	3.06%
Farmers	17,789	5,596	18,742	20,128	19,934	82,189	2.26%
<b>Subtotal Kern Delta WD</b>	<b>225,283</b>	<b>175,391</b>	<b>221,102</b>	<b>239,809</b>	<b>253,012</b>	<b>1,114,597</b>	<b>30.61%</b>
City of Bakersfield	122,553	50,623	275,218	256,182	282,696	987,272	27.12%
K.R.C. & I. Co. (Beardsley)	10,593	12,258	11,462	11,774	10,762	56,849	1.56%
Central - I.D. #4 (Calloway)	38,418	22,829	62,294	39,140	61,741	224,422	6.16%
James	1,886	0	29,223	14,928	13,277	59,314	1.63%
Pioneer	0	0	38,248	7,161	13,398	58,807	1.62%
<b>Subtotal City of Bakersfield</b>	<b>173,450</b>	<b>85,710</b>	<b>416,445</b>	<b>329,185</b>	<b>381,874</b>	<b>1,386,664</b>	<b>38.09%</b>
<b>North Kern WSD</b>	<b>174,338</b>	<b>107,345</b>	<b>339,558</b>	<b>256,464</b>	<b>262,024</b>	<b>1,139,729</b>	<b>31.30%</b>
<b>Total First Point Group</b>	<b>573,071</b>	<b>368,446</b>	<b>977,105</b>	<b>825,458</b>	<b>896,910</b>	<b>3,640,990</b>	<b>100.00%</b>
South Fork	961	972	880	721	594		
First Point passing 2nd Point	0	0	0	0	0	37,075	
River Loss and Spreading	42,648	28,309	80,345	77,145	87,599		
Flow Above First Point	2,582	2,634	3,584	2,465	2,978		
<b>Total 1st Point Group Diverted</b>	<b>619,262</b>	<b>400,361</b>	<b>1,061,914</b>	<b>905,789</b>	<b>1,025,156</b>		

- 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: 1997**

Year	Acre-Foot Days of Irrigation Storage			Isabella O&M Charges (2)
	NKWSD (1)	BWSD	Total A.F.D.	
1993	52,868,053	27,522,072	80,390,125	\$151,324
1994	37,200,539	20,487,825	57,688,364	\$142,254
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
<b>5-Year Totals</b>	<b>321,231,878</b>	<b>163,438,296</b>	<b>484,670,174</b>	<b>\$725,989</b>

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

- Total 5-Year Operation & Interest Charge..... \$1,869,239

Total 5-Year Cost	\$1,869,239		\$0.0038567
----- =	----- =		-----
Total 5-Year Use	484,670,174		Rental Charge Per Acre-Foot Day

TOTAL 1997 HACIENDA WD Acre-Foot Storage Days = 18,086,083

TOTAL 1997 HACIENDA WD Share of 1997 Storage Costs = \$69,752.60

(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... (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**

Year: 1997

Quantities in acre-feet  
except where noted...

	Total Storage in Reservoir	Total Water Surface Area (Acres)	Area Attributable to Rec. Pool (Acres)	County of Kern		
				Total Reservoir Loss	Ming Lake Net Inflow	Recreation Pool Loss
End of Previous Year	252,811	7,598	540			
January	434,546	10,079	345	918	16	40
February	394,560	9,616	370	1,862	16	69
March	352,923	9,094	410	3,183	44	145
April	395,234	9,624	370	4,350	60	186
May	481,036	10,581	320	7,260	77	238
June	481,566	10,587	320	8,057	105	242
July	410,388	9,804	360	8,941	127	290
August	331,180	8,801	430	8,428	121	367
September	295,879	8,291	475	5,790	91	305
October	270,076	7,886	510	4,219	65	256
November	245,128	7,465	550	1,611	42	105
December	242,525	7,419	555	1,196	26	85
<b>ISABELLA RESERVOIR RECREATION POOL:</b>			<b>TOTALS</b>	<b>55,815</b>	<b>790</b>	<b>2,328</b>

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: 1997

	CALENDAR YEAR				WATER YEAR					
	FIRST POINT		ENTITLEMENT		FIRST POINT		ENTITLEMENT			
	REGULATED	NATURAL	NKWSD	BVWSD	HWD	REGULATED	NATURAL	NKWSD	BVWSD	HWD
JANUARY	63,352	246,022	197,100	48,922	0	43,593	15,788	15,788	0	0
To Date	63,352	246,022	197,100	48,922	0	43,593	15,788	15,788	0	0
FEBRUARY	142,831	104,771	64,682	6,827	33,262	45,201	40,903	39,364	1,539	0
MARCH	206,183	350,793	261,782	55,749	33,262	88,794	56,691	55,152	1,539	0
APRIL	158,678	120,448	47,538	33,162	39,748	82,016	86,438	80,860	5,578	0
MAY	364,861	471,241	309,320	88,911	73,010	170,810	143,129	136,012	7,117	0
JUNE	95,933	142,909	101,240	41,669	0	63,352	246,022	197,100	48,922	0
JULY	460,794	614,150	410,560	130,580	73,010	234,162	389,151	333,112	56,039	0
AUGUST	120,789	214,290	143,730	70,560	0	142,831	104,771	64,682	6,827	33,262
SEPTEMBER	581,583	828,440	554,290	201,140	73,010	376,993	493,922	397,794	62,866	33,262
OCTOBER	133,315	142,358	100,584	41,774	0	158,678	120,448	47,538	33,162	39,748
NOVEMBER	714,898	970,798	654,874	242,914	73,010	535,671	614,370	445,332	96,028	73,010
DECEMBER	133,724	71,919	54,903	17,016	0	95,933	142,909	101,240	41,669	0
JANUARY	848,622	1,042,717	709,777	259,930	73,010	631,604	757,279	546,572	137,697	73,010
FEBRUARY	108,452	38,047	31,813	6,234	0	120,789	214,290	143,730	70,560	0
MARCH	957,074	1,080,764	741,590	266,164	73,010	752,393	971,569	690,302	208,257	73,010
APRIL	55,240	26,039	26,039	0	0	133,315	142,358	100,584	41,774	0
MAY	1,012,314	1,106,803	767,629	266,164	73,010	885,708	1,113,927	790,886	250,031	73,010
JUNE	42,278	20,926	20,926	0	0	133,724	71,919	54,903	17,016	0
JULY	1,054,592	1,127,729	788,555	266,164	73,010	1,019,432	1,185,846	845,789	267,047	73,010
AUGUST	46,977	23,708	23,708	0	0	108,452	38,047	31,813	6,234	0
SEPTEMBER	1,101,569	1,151,437	812,263	266,164	73,010	1,127,884	1,223,893	877,602	273,281	73,010
OCTOBER	31,894	30,532	30,532	0	0	55,240	26,039	26,039	0	0
NOVEMBER	1,133,463	1,181,969	842,795	266,164	73,010	1,183,124	1,249,932	903,641	273,281	73,010
DECEMBER										
Year										

1894 to 1997 Mean April-July Runoff = 469,639 acre-feet (100% of Average)  
 1997 April-July Runoff = 571,476 acre-feet (122% of Average)

1894 to 1997 Mean March-October Runoff = 603,004 acre-feet (100% of Average)  
 1997 March-October Runoff = 776,936 acre-feet (129% of Average)





Quantities in S.F.D. except where noted

JANUARY 1997

REPORT OF THE KERN RIVER WATERMASTER

DAY	ISABELLA RESERVOIR		LOSS	CHANGE IN STORAGE+LOSS		FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	COMPUTED 1ST POINT NATURAL FLOW	MEAN Recreation Pool + Dead Storage = 15.218 S.F.D. (80.184 ACFT)	STORAGE		KERN COUNTY RECREATION POOL LOSS	SECOND POINT GROUP FLOW AT 2ND POINT		KERN RIVER INTERTIE									
	ELEVATION (FEET)	ACRE-FEET		S.F.D.	+1ST POINT					-1ST POINT	IRRIGATION		EXCH.	KERN	FRIANT-	KERN	FRIANT-	KERN	INFLOW	KERN				
Previous Day	2572.61	252,811	127,459	3	1,806	1,496	0	1,806	127,459	112,241	0	63	0	0	0	0								
1	2572.67	253,267	127,689	3	2,151	1,917	1	2,151	127,689	112,471	0	63	0	0	0	0								
2	2574.32	265,992	134,104	3	8,653	2,235	0	8,653	134,104	118,886	0	120	0	0	0	0								
3	2578.73	301,715	152,115	8	19,794	1,774	1	19,794	152,115	136,897	0	176	0	0	83	0								
4	2580.60	317,599	160,123	12	9,127	1,107	0	9,127	160,123	144,905	1	161	0	73	925	0								
5	2581.73	327,408	165,068	3	5,897	949	0	5,897	165,068	149,850	0	151	0	89	1,100	0								
6	2582.51	334,267	168,526	15	4,408	934	1	4,408	168,526	153,308	1	151	0	217	1,100	0								
7	2583.13	339,774	171,303	15	3,668	876	0	3,668	171,303	156,085	1	149	0	276	1,137	0								
8	2583.66	344,518	173,695	12	3,167	763	0	3,167	173,695	158,477	1	117	0	383	1,366	0								
9	2584.12	348,663	175,784	27	2,823	707	0	2,823	175,693	160,475	1	80	0	404	1,485	227								
10	2584.52	352,286	177,611	34	2,550	688	1	2,550	177,544	162,326	2	87	0	461	1,433	305								
11	2584.87	355,475	179,219	34	2,349	707	0	2,349	179,244	164,026	2	80	0	425	1,436	474								
12	2585.24	358,861	180,926	3	2,425	715	0	2,425	180,885	165,667	0	80	0	388	1,457	343								
13	2585.58	361,985	182,501	3	2,304	726	0	2,304	182,411	167,193	0	81	0	435	1,420	322								
14	2585.86	364,569	183,804	3	2,036	730	0	2,036	183,804	168,586	0	124	0	421	1,399	314								
15	2586.22	367,906	185,486	16	2,453	754	1	2,453	185,486	170,268	1	94	230	610	1,633	356								
16	2586.51	370,602	186,845	19	2,155	777	0	2,155	186,845	171,627	1	80	191	919	1,974	422								
17	2586.78	373,123	188,116	25	2,060	764	0	2,060	188,097	172,879	1	80	178	865	1,960	797								
18	2587.04	375,559	189,344	22	2,003	753	0	2,003	189,312	174,094	1	80	150	876	2,005	917								
19	2587.28	377,814	190,481	32	1,908	739	0	1,908	190,556	175,338	1	90	164	837	2,020	581								
20	2587.57	380,549	191,860	3	2,133	750	1	2,133	191,830	176,612	0	80	158	823	2,020	865								
21	2587.84	383,104	193,148	3	2,044	753	0	2,044	193,148	177,930	0	80	173	782	1,970	906								
22	2588.19	386,429	194,825	3	2,478	798	0	2,478	194,825	179,607	0	80	154	768	1,940	802								
23	2588.79	392,159	197,714	19	3,794	886	0	3,794	197,714	182,496	1	85	170	791	1,932	831								
24	2589.24	396,487	199,896	23	3,164	959	0	3,164	199,896	184,678	1	80	167	814	1,840	805								
25	2590.03	404,136	203,752	3	4,889	1,029	1	4,889	203,752	188,534	0	106	143	824	1,870	400								
26	2591.10	414,614	209,035	4	6,464	1,177	0	6,464	209,035	193,817	0	186	74	928	1,900	330								
27	2591.82	421,737	212,626	4	4,675	1,080	0	4,675	212,626	197,408	0	127	130	883	1,898	290								
28	2592.35	427,018	215,288	17	3,724	1,045	0	3,724	215,288	200,070	1	80	104	804	1,862	644								
29	2592.71	430,625	217,107	14	3,102	1,269	0	3,102	217,107	201,889	0	81	170	787	1,749	605								
30	2592.94	432,936	218,272	27	2,909	1,716	1	2,909	218,272	203,054	1	160	0	1,083	1,508	587								
31	2593.10	434,546	219,084	54	2,729	1,863	0	2,729	219,084	203,866	2	158	0	1,029	1,362	767								
<b>TOTAL SECOND FOOT DAYS</b>													463	31,940	8	124,036	124,036	203,866	20	3,347	2,356	17,995	45,784	12,890
<b>TOTAL ACRE-FEET</b>													918	63,352	16	246,022	246,022	404,362	40	6,639	4,673	35,692	90,810	25,566

By: 

Date: February 26, 1997

REPORT OF THE KERN RIVER WATERMASTER

JANUARY 1997

Quantities in S.F.D. except where noted

NORTH KERN WATER STORAGE DISTRICT BUENA VISTA WATER STORAGE DISTRICT HACIENDA WATER DISTRICT

DAY	ENTL AT 1ST	FLOW AT 1ST	FLOW ABOVE FIRST POINT			ENTL AT 1ST	POINT	RESERVOIR STORAGE	LOSS	KERN VALLEY	FLOW ABOVE			ENTL	AT 2ND	POINT	RESERVOIR STORAGE	LOSS	HACIENDA	FLOW ABOVE			ENTL	CONTRIBUTED BY	FOR	OLCESE	WD	RESERVOIR STORAGE	LOSS	DAY														
			LAKE	La	La						La	La	La							La	La	La									La													
Previous Day	1,709	1,408	0	0	0	2	62,934	97	0	0	0	63	0	0	0	1	35,375	0	0	0	0	25	0	0	0	0	13,932																	
1	1,944	1,828	1	0	0	2	63,047	207	0	0	63	0	0	0	1	35,518	0	0	0	0	26	0	0	0	0	13,906	1																	
2	6,377	2,089	0	0	0	2	67,333	2,276	0	0	120	0	0	1	37,673	0	0	0	0	26	0	0	0	0	0	13,880	2																	
3	13,974	1,569	1	0	0	4	79,733	5,820	0	0	176	0	0	3	43,314	0	0	0	0	29	0	0	0	0	0	13,850	3																	
4	6,701	918	0	0	0	7	85,509	2,426	0	0	161	0	0	4	45,575	0	0	0	0	28	0	0	0	0	0	13,821	4																	
5	4,498	769	0	0	0	2	89,236	1,399	0	0	151	0	0	1	46,822	0	0	0	0	29	0	0	0	0	0	13,792	5																	
6	3,483	754	1	0	0	9	91,955	925	0	0	151	0	0	5	47,591	0	0	0	0	29	0	0	0	0	0	13,762	6																	
7	2,978	705	0	0	0	9	94,219	690	0	0	149	0	0	5	48,127	0	0	0	0	22	0	0	0	0	0	13,739	7																	
8	2,637	633	0	0	0	7	96,216	530	0	0	117	0	0	4	48,536	0	0	0	0	13	0	0	0	0	0	13,725	8																	
9	2,340	627	0	0	0	17	97,912	392	0	0	80	0	0	8	48,840	0	0	0	0	0	0	0	0	0	0	2	13,723	9																
10	2,232	601	1	0	0	21	99,521	342	0	0	87	0	0	10	49,085	0	0	0	0	0	0	0	0	0	0	3	13,720	10																
11	2,142	627	0	0	0	21	101,015	299	0	0	80	0	0	10	49,294	0	0	0	0	0	0	0	0	0	0	0	3	13,717	11															
12	2,086	635	0	0	0	2	102,464	273	0	0	80	0	0	1	49,486	0	0	0	0	0	0	0	0	0	0	0	0	13,717	12															
13	2,015	645	0	0	0	2	103,832	240	0	0	81	0	0	1	49,644	0	0	0	0	0	0	0	0	0	0	0	0	13,717	13															
14	1,927	606	0	0	0	2	105,151	199	0	0	124	0	0	1	49,718	0	0	0	0	0	0	0	0	0	0	0	0	13,717	14															
15	2,150	660	1	0	0	10	106,630	303	0	0	94	0	0	5	49,922	0	0	0	0	0	0	0	0	0	0	0	1	13,716	15															
16	1,947	697	0	0	0	12	107,868	208	0	0	80	0	0	6	50,044	0	0	0	0	0	0	0	0	0	0	0	1	13,715	16															
17	1,869	684	0	0	0	16	109,037	172	0	0	80	0	0	7	50,129	0	0	0	0	0	0	0	0	0	0	0	2	13,713	17															
18	1,834	673	0	0	0	14	110,184	156	0	0	80	0	0	6	50,199	0	0	0	0	0	0	0	0	0	0	0	2	13,711	18															
19	1,851	649	0	0	0	21	111,365	164	0	0	90	0	0	9	50,264	0	0	0	0	0	0	0	0	0	0	0	2	13,709	19															
20	1,860	670	1	0	0	2	112,552	168	0	0	80	0	0	1	50,351	0	0	0	0	0	0	0	0	0	0	0	0	13,709	20															
21	1,891	673	0	0	0	2	113,768	183	0	0	80	0	0	1	50,453	0	0	0	0	0	0	0	0	0	0	0	0	13,709	21															
22	2,167	718	0	0	0	2	115,215	311	0	0	80	0	0	1	50,683	0	0	0	0	0	0	0	0	0	0	0	0	13,709	22															
23	3,064	801	0	0	0	13	117,465	730	0	0	85	0	0	5	51,323	0	0	0	0	0	0	0	0	0	0	1	13,708	23																
24	2,635	879	0	0	0	15	119,206	529	0	0	80	0	0	6	51,766	0	0	0	0	0	0	0	0	0	0	0	2	13,706	24															
25	3,811	923	1	0	0	2	122,091	1,078	0	0	106	0	0	1	52,737	0	0	0	0	0	0	0	0	0	0	0	0	13,706	25															
26	4,885	991	0	0	0	3	125,982	1,579	0	0	186	0	0	1	54,129	0	0	0	0	0	0	0	0	0	0	0	0	13,706	26															
27	3,665	953	0	0	0	3	128,691	1,010	0	0	127	0	0	1	55,011	0	0	0	0	0	0	0	0	0	0	0	0	13,706	27															
28	3,017	937	0	0	0	11	130,760	707	0	0	80	0	0	5	55,633	0	0	0	0	28	0	0	0	0	0	1	13,677	28																
29	2,592	1,159	0	0	0	9	132,184	510	0	0	81	0	0	4	56,058	0	0	0	0	29	0	0	0	0	0	1	13,647	29																
30	2,461	1,529	1	0	0	18	133,097	448	0	0	160	0	0	7	56,339	0	0	0	0	27	0	0	0	0	0	2	13,618	30																
31	2,338	1,676	0	0	0	36	133,723	391	0	0	158	0	0	15	56,557	0	0	0	0	29	0	0	0	0	0	3	13,586	31																
S.F.D.	99,371	28,278	8	0	0	296	133,723	24,665	0	0	3,347	0	0	136	56,557	0	0	0	0	315	0	0	0	0	0	31	13,586	S.F.D.																
AC.FT.	197,100	56,088	16	0	0	587	265,236	48,922	0	0	6,639	0	0	270	112,179	0	0	0	0	625	0	0	0	0	0	61	26,947	AC.FT.																
TOTAL ACRE - FOOT STORAGE DAYS															TOTAL ACRE - FOOT STORAGE DAYS															TOTAL ACRE - FOOT STORAGE DAYS														
6,559,258															3,056,172															844,040														

WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
January	3	1	FRIANT--KERN INFLOW	Reflects Friant--Kern Inflow to Kern River channel as a result of Friant Dam flood release operations (48,619 AcFt) and Kaweah River/Tule River pump--in operations (42,191 AcFt).
January	15	1	SECOND POINT GROUP FLOW -- FRIANT--KERN EXCHANGE	Reflects delivery of Kern River water in lieu of Friant--Kern water.

SNOW SURVEY DATA FOR KERN RIVER BASIN

Date: February 1, 1997

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	1-31	122.3	36%	44.0	159%	DWR
Bighorn Plateau		250	11,350	21.9	1-30	98.0	36%	34.9	159%	DWR
Cottonwood Pass		251	11,050	13.4	2-02	56.7	35%	19.7	147%	DWR
Siberian Pass		252	10,900	18.3	1-28	88.9	33%	29.5	161%	DWR
Crabtree Meadow		253	10,700	18.8	1-29	94.7	31%	29.8	159%	DWR
Guyot Flat		254	10,700	19.8	1-29	79.3	31%	24.5	124%	DWR
Tyndall Creek		255	10,650	20.0	1-29	95.2	32%	30.6	153%	DWR
Sandy Meadow		275	10,650	18.3	1-30	90.1	33%	29.6	162%	DWR
Chagoopa Plateau		514	10,300	21.8	1-30	96.2	32%	31.2	170%	DWR
Big Whitney Meadow		257	9,750	16.6	1-27	76.3	31%	23.7	143%	DWR
Rock Creek		256	9,600	17.2	1-29	94.1	29%	27.7	161%	DWR
Round Meadow		258	9,130	24.9	1-28	98.0	33%	32.0	129%	USFS
Tunnel Guard		830	8,960	15.6	1-28	71.8	33%	23.5	94%	USFS
Wet Meadow		518	8,950	30.3	1-25	61.3	30%	18.5	119%	DWR
Ramshaw Meadow		259	8,700	11.3	1-24	46.8	29%	13.7	121%	DWR
Little Whitney Mea.		260	8,500	13.5	1-26	84.2	28%	23.3	173%	DWR
Casa Vieja Meadow		262	8,400	19.6	1-28	75.9	33%	24.8	127%	USFS
Casa Vieja Meadows		262	8,400	20.9	1-28	80.0	33%	26.0	124%	USFS
Quinn Ranger Sta.		264	8,350	19.4						
Bonita Meadows		261	8,300	13.8	1-28	41.8	29%	12.0	87%	USFS
Beach Meadows		265	7,650	8.9	1-28	29.4	32%	9.4	106%	USFS
Beach Meadows		860	7,650	11.0	1-28	41.9	31%	13.0	118%	USFS

CALIFORNIA COOPERATIVE SNOW SURVEYS FORECAST AS OF FEBRUARY 1, 1997 FOR KERN RIVER INFLOW TO ISABELLA RESERVOIR...

April--July = 880,000 acre-feet (199% of Average) \*\*\* Water Year = 1,540,000 acre-feet (222% of Average)

80 Percent Probability Range (Actual runoff should fall within the stated limits eight times out of ten)...

April--July = 700,000 AcFt (158% of Average) to 1,200,000 AcFt (271% of Average)\*\*\* Water Year = 1,300,000 AcFt (187% of Average) to 2,200,000 AcFt (317% of Average)

REPORT OF THE KERN RIVER WATERMASTER

FEBRUARY 1997

Quantities in S.F.D. except where noted

PAGE 1 of 5

DAY	ISABELLA RESERVOIR		LOSS	REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN TOTAL IRRIGATION	STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (90,184 ACFT)	KERN COUNTY RECREATION POOL LOSS	SECOND POINT AT 2ND POINT		KERN RIVER INTERTIE		
	ELEVATION (FEET)	MIDNIGHT STORAGE ACRE- FEET				S.F.D.	1ST POINT + FLOW ABOVE 1ST PT.					1ST POINT FLOW	GROUP FLOW	RIANT - KERN	RIANT - KERN	
Previous Day	2593.10	434,546	219,084	54	1,863	0	2,729	2,729	219,084	203,866	2	158	1,029	1,362	0	767
1	2593.25	436,061	219,848	35	1,918	1	2,718	2,697	219,827	204,609	1	113	1,018	1,170	0	649
2	2593.39	437,474	220,560	35	1,906	1	2,654	2,589	220,474	205,256	1	31	1,022	1,170	0	684
3	2593.47	438,284	220,968	21	1,965	1	2,395	2,454	220,941	205,723	1	95	859	1,007	0	445
4	2593.49	438,487	221,071	44	2,165	1	2,313	2,330	221,061	205,843	1	306	516	667	0	277
5	2593.51	438,687	221,171	21	2,161	1	2,283	2,272	221,150	205,932	1	381	385	538	0	333
6	2593.52	438,788	221,222	21	2,148	1	2,221	2,192	221,172	205,954	1	335	444	520	0	444
7	2593.50	438,588	221,122	27	2,145	1	2,073	2,095	221,094	205,876	1	391	429	520	0	429
8	2593.47	438,284	220,968	21	2,122	1	1,990	2,003	220,953	205,735	1	390	416	520	0	416
9	2593.43	437,879	220,764	27	2,122	1	1,946	1,926	220,729	205,511	1	393	403	520	0	306
10	2593.35	437,069	220,356	30	2,219	1	1,842	1,870	220,349	205,131	1	392	448	558	54	448
11	2593.22	435,758	219,695	24	2,458	2	1,823	1,800	219,665	204,447	1	558	451	573	62	355
12	2593.05	434,042	218,830	21	2,577	1	1,734	1,778	218,844	203,626	1	700	347	450	0	347
13	2592.89	432,432	218,018	24	2,565	1	1,778	1,766	218,020	202,802	1	745	392	450	0	392
14	2592.73	430,826	217,208	29	2,567	1	1,787	1,776	217,199	201,981	1	824	450	585	0	413
15	2592.55	429,019	216,297	38	2,634	1	1,762	1,737	216,263	201,045	1	831	620	727	0	543
16	2592.35	427,018	215,288	32	2,636	2	1,661	1,730	215,323	200,105	1	819	669	750	0	669
17	2592.17	425,222	214,383	44	2,628	1	1,768	1,731	214,381	199,163	2	907	664	777	0	664
18	2592.01	423,826	213,578	26	2,541	1	1,763	1,745	213,558	198,340	1	865	707	819	0	704
19	2591.81	421,637	212,575	23	2,694	1	1,705	1,671	212,521	197,303	1	936	739	850	0	654
20	2591.53	418,860	211,175	43	2,902	1	1,546	1,628	211,203	195,985	2	1,076	750	850	0	672
21	2591.25	416,094	209,781	40	2,985	1	1,632	1,668	209,845	194,627	1	1,066	734	782	34	734
22	2591.01	413,727	208,587	29	2,989	2	1,826	1,702	208,527	193,309	1	1,044	725	725	117	725
23	2590.72	410,879	207,152	52	3,029	1	1,647	1,694	207,139	191,921	2	1,073	698	698	145	698
24	2590.40	407,745	205,572	57	3,131	1	1,609	1,591	205,541	190,323	2	1,037	553	553	279	553
25	2590.07	404,526	203,949	48	3,090	1	1,516	1,540	203,942	188,724	2	855	287	287	213	287
26	2589.71	401,030	202,186	48	3,209	1	1,495	1,569	202,253	187,035	2	845	0	69	0	0
27	2589.38	397,837	200,576	51	3,252	2	1,695	1,628	200,576	185,358	2	817	0	0	0	0
28	2589.04	394,560	198,924	28	3,263	1	1,640	1,640	198,924	183,706	1	867	0	0	0	0
<b>TOTAL SECOND FOOT DAYS</b>				939	72,011	32	52,822	52,822	198,924	183,706	35	18,692	14,726	17,135	904	12,851
<b>TOTAL ACRE-FEET</b>				1,862	142,831	64	104,771	104,771	394,560	364,376	69	37,075	29,209	33,986	1,793	25,489

By:  Date: March 24, 1997

REPORT OF THE KERN RIVER WATERMASTER

FEBRUARY 1997

Quantities in S.F.D. except where noted

NORTH KERN WATER STORAGE DISTRICT BUENA VISTA WATER STORAGE DISTRICT HACIENDA WATER DISTRICT

DAY	FLOW ABOVE 1ST POINT				FLOW ABOVE 1ST POINT				FLOW ABOVE 1ST POINT				FLOW ABOVE 1ST POINT																																								
	ENTL AT 1ST	FLOW AT 1ST	LAKE MING	VALLEY GOLF	ENTL AT 1ST	VIA FOR	VIA KWD	AT 1ST POINT	OLCESE HACIENDA	WD INC.	La	ENTITLEMENT Contributed by:	RESERVOIR LOSS STORAGE	FOR ID4	WD INC.	La	RESERVOIR LOSS STORAGE																																				
Previous Day	2,338	1,676	0	0	391	0	0	0	0	0	0	58,557	0	29	0	0	3	13,586																																			
1	2,088	1,884	0	1	23	133,903	381	34	0	0	0	56,894	228	0	0	0	2	13,812																																			
2	1,388	1,873	0	0	23	133,395	346	33	0	0	0	57,197	855	0	0	1	2	14,664																																			
3	1,341	1,928	0	0	14	132,794	303	37	0	0	0	57,457	810	0	0	1	1	15,472																																			
4	1,297	2,133	1	0	29	131,928	264	32	0	0	0	57,677	789	0	0	0	3	16,238																																			
5	1,276	2,120	0	0	13	131,071	246	41	0	0	0	57,876	750	0	0	1	2	16,985																																			
6	1,249	2,104	0	0	13	130,203	220	44	0	0	0	58,046	723	0	0	1	2	17,705																																			
7	1,215	2,103	0	0	17	129,298	189	42	0	0	0	58,185	691	0	0	1	2	18,393																																			
8	1,182	2,075	1	0	13	128,391	160	47	0	0	0	58,292	661	0	0	0	2	19,052																																			
9	1,154	2,073	0	0	17	127,455	136	49	0	0	0	58,371	636	0	0	1	2	19,685																																			
10	1,135	2,163	0	0	19	126,408	118	56	0	0	0	58,425	617	0	0	1	3	20,298																																			
11	1,111	2,398	1	0	15	125,105	95	60	0	0	0	58,453	594	0	0	1	2	20,889																																			
12	1,103	2,511	0	0	13	123,684	88	66	0	0	0	58,469	587	0	0	1	2	21,473																																			
13	1,098	2,506	0	0	15	122,261	85	59	0	0	0	58,488	583	0	0	1	2	22,053																																			
14	1,102	2,515	1	0	18	120,829	88	52	0	0	0	58,516	586	0	0	0	3	22,636																																			
15	1,089	2,579	0	0	23	119,316	75	55	0	0	0	58,525	573	0	0	1	4	23,204																																			
16	1,086	2,588	0	1	19	117,794	73	48	0	0	0	58,541	571	0	0	1	4	23,770																																			
17	1,087	2,589	1	0	26	116,265	73	39	0	0	0	58,562	571	0	0	0	5	24,336																																			
18	1,091	2,485	0	0	15	114,856	78	56	0	0	0	58,576	576	0	0	1	3	24,908																																			
19	1,066	2,627	0	0	13	113,282	54	57	0	0	0	58,566	551	0	0	1	3	25,455																																			
20	1,050	2,863	1	0	25	111,443	41	39	0	0	0	58,555	537	0	0	0	5	25,987																																			
21	1,065	2,938	0	0	23	109,547	53	47	0	0	0	58,549	550	0	0	1	5	26,531																																			
22	1,076	2,942	0	0	16	107,665	64	47	0	0	0	58,557	562	0	0	1	4	27,087																																			
23	1,073	2,982	1	0	29	105,726	62	47	0	0	0	58,556	559	0	0	0	7	27,639																																			
24	1,037	3,082	0	0	32	103,649	29	49	0	0	0	58,519	525	0	0	1	8	28,155																																			
25	1,019	3,044	0	0	26	101,598	13	46	0	0	0	58,471	508	0	0	1	7	28,655																																			
26	1,029	3,155	1	0	26	99,445	22	54	0	0	0	58,424	518	0	0	0	7	29,166																																			
27	1,050	3,190	0	1	27	97,277	41	62	0	0	0	58,387	537	0	0	1	8	29,694																																			
28	1,054	3,198	0	0	15	95,118	45	65	0	0	0	58,358	541	0	0	1	4	30,230																																			
S.F.D.	32,611	70,648	8	3	557	95,118	3,442	1,363	0	0	0	278	58,358	16,769	0	13	8	104	30,230 S.F.D.																																		
AC.FT.	64,682	140,128	16	6	1,105	188,665	6,827	2,703	0	0	0	551	115,751	33,262	0	25	17	206	59,960 AC.FT.																																		
TOTAL ACRE-FOOT STORAGE DAYS																	6,564,703	TOTAL ACRE-FOOT STORAGE DAYS																	3,236,015	TOTAL ACRE-FOOT STORAGE DAYS																	1,257,861

WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
February	1-26	1	FRIANT--KERN INFLOW	Reflects Friant--Kern inflow to Kern River channel as a result of Friant Dam flood release operations (1,120 ACFt) and Kaweah River/Tule River pump--in operations (32,866 ACFt).
February	1-28	1	FIRST POINT REGULATED FLOW	U.S. Army Corps of Engineers Mandatory Release.
February	1	2	HACIENDA WATER DISTRICT ENTITLEMENT	Reflects NORTH KERN WATER STORAGE DISTRICT contribution to HACIENDA WATER DISTRICT based on 1962 Kern River Water Rights and Storage Agreement beginning February 1, 1997. (33% of all natural flow above 250,000 ACFt January thru March)

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	117	72	236	141	528	1,547	1,705	1,375	847	542	258	190	7,556
1956	788	407	1,444	1,797	3,330	5,496	6,094	5,494	4,163	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	494	593	734	2,043	4,470	6,462	7,720	6,843	4,729	3,521	1,603	1,307	40,519
1959	811	1,021	2,148	2,860	3,711	4,983	4,439	3,503	2,263	1,728	1,067	684	29,258
1960	323	466	1,089	1,505	2,287	3,372	2,720	2,128	1,378	763	341	280	16,683
1961	315	419	780	1,158	1,158	2,178	2,204	1,200	930	647	329	168	10,647
1962	182	446	1,105	2,907	4,128	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	6,202	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	981	476	31,405
1969	494	668	1,511	1,896	4,496	6,496	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	2,045	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	1,868	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	57,395
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	1,763	1,053	54,193
1983	1,057	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	2,945	3,584	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	2,493	3,318	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	2,703	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	4,132	4,132	4,024	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	6,063	5,908	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	2,688	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
Average	794	911	1,519	2,417	4,150	6,071	6,892	5,829	4,067	2,610	1,383	845	37,488

Quantities in S.F.D. except where noted

MARCH 1997

REPORT OF THE KERN RIVER WATERMASTER

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN TOTAL IRRIGATION	STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (80,164 ACFT)	KERN COUNTY RECREATION POOL LOSS	SECOND POINT GROUP FLOW		FRONT - KERN INFLOW
		ACRE- FEET	S.F.D.				STORAGE +1ST POINT +FLOW ABOVE	STORAGE -1ST PT.					RIVER	KERN	
Previous Day	2589.04	394,560	198,924	28	3,263	1	1,640	1,640	1,640	198,924	183,706	1	867	0	0
1	2588.67	391,011	197,135	16	3,248	2	1,477	1,477	1,477	197,135	181,917	1	900	0	0
2	2588.25	387,001	195,113	70	3,304	3	1,355	1,355	1,389	195,147	179,929	3	978	0	0
3	2587.83	383,009	193,100	48	3,420	3	1,458	1,458	1,462	193,138	177,920	2	1,039	0	0
4	2587.42	379,134	191,147	27	3,495	3	1,572	1,498	1,498	191,111	175,893	1	1,101	0	0
5	2587.01	375,277	189,202	37	3,368	3	1,463	1,506	1,506	189,209	173,991	2	1,074	0	0
6	2586.65	371,908	187,504	48	3,129	3	1,482	1,467	1,467	187,496	172,278	2	1,009	0	0
7	2586.30	368,647	185,860	37	3,061	3	1,457	1,476	1,476	185,871	170,653	2	911	0	0
8	2585.98	365,680	184,364	37	2,946	3	1,490	1,481	1,481	184,366	169,148	2	785	0	0
9	2585.67	362,815	182,919	47	2,892	3	1,497	1,539	1,539	182,963	167,745	2	715	0	0
10	2585.40	360,329	181,666	50	2,830	3	1,630	1,584	1,584	181,664	166,446	2	668	0	0
11	2585.15	358,035	180,509	29	2,749	3	1,624	1,682	1,682	180,565	165,347	1	634	0	0
12	2584.93	356,023	179,495	65	2,737	4	1,792	1,730	1,730	179,489	164,271	3	548	0	0
13	2584.73	354,199	178,575	36	2,655	3	1,774	1,809	1,809	178,604	163,386	2	509	0	0
14	2584.58	352,832	177,886	44	2,502	4	1,861	1,809	1,809	177,863	162,645	2	449	0	0
15	2584.45	351,652	177,291	49	2,335	3	1,792	1,835	1,835	177,311	162,093	2	376	0	0
16	2584.33	350,563	176,742	54	2,344	3	1,852	1,856	1,856	176,766	161,548	2	380	0	0
17	2584.21	349,477	176,195	59	2,409	3	1,924	1,896	1,896	176,191	160,973	3	389	0	0
18	2584.07	348,211	175,556	53	2,493	4	1,911	1,910	1,910	175,551	160,333	2	380	0	0
19	2583.92	346,858	174,874	58	2,516	4	1,896	1,969	1,969	174,942	159,724	3	378	0	0
20	2583.81	345,866	174,374	61	2,535	4	2,100	2,066	2,066	174,408	159,190	3	381	0	0
21	2583.73	345,148	174,012	43	2,517	4	2,202	2,161	2,161	174,005	158,787	2	389	0	0
22	2583.66	344,518	173,695	69	2,426	4	2,182	2,242	2,242	173,748	158,530	3	431	0	0
23	2583.67	344,608	173,740	46	2,246	5	2,342	2,272	2,272	173,723	158,505	2	353	0	0
24	2583.70	344,878	173,876	20	2,131	4	2,291	2,352	2,352	173,920	158,702	1	325	0	0
25	2583.75	345,328	174,103	64	2,128	5	2,424	2,381	2,381	174,104	158,886	3	334	0	0
26	2583.81	345,866	174,374	58	2,095	4	2,428	2,503	2,503	174,450	159,232	3	315	0	0
27	2583.93	346,948	174,920	102	2,002	5	2,655	2,637	2,637	174,978	159,760	5	298	0	0
28	2584.11	348,572	175,738	69	1,937	5	2,829	2,755	2,755	175,722	160,504	3	331	0	0
29	2584.32	350,472	176,696	53	1,767	4	2,782	2,748	2,748	176,646	161,428	2	314	0	0
30	2584.48	351,925	177,429	87	1,809	4	2,633	2,683	2,683	177,429	162,211	4	297	0	0
31	2584.59	352,923	177,932	69	1,974	5	2,551	2,551	2,551	177,932	162,714	3	336	0	0
<b>TOTAL SECOND FOOT DAYS</b>				1,605	80,000	113	60,726	60,726	60,726	177,932	162,714	73	17,327	0	0
<b>TOTAL ACRE-FEET</b>				3,183	158,678	225	120,448	120,448	120,448	352,923	322,739	145	34,368	0	0

By: *[Signature]*

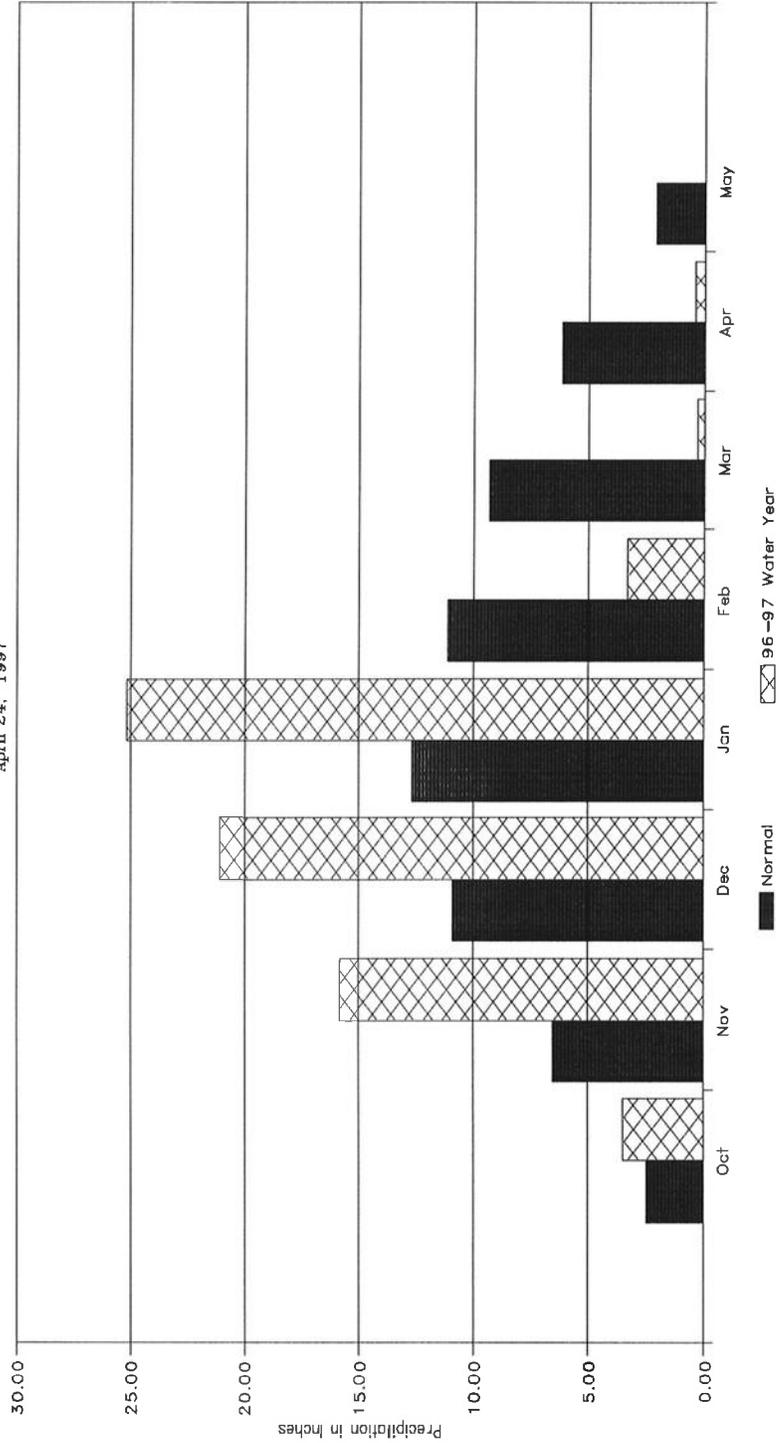
Date: April 24, 1997



WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
March	1	2	BWSD FLOW - FOR ID4	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Kern County Water Agency - ID4 letter agreement dated March 13, 1997.
March	1	2	BWSD FLOW - HENRY MILLER/BOLTHOUSE	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT (Henry Miller WD)/ Bolthouse Farms, Inc. 1997 Recharge Program as set forth in HMWD letter dated April 23, 1997.
March	1	2	HACIENDA FLOW - KERN WATER BANK	Reflects delivery of Lower River water to Kern Water Bank property as per terms of Bravo Management Company, Inc. letter dated March 3, 1997.

KERN RIVER BASIN  
3-Gage Precipitation Index  
April 24, 1997



3-Gage precipitation index = cumulative rainfall totals for Glennville, Pascoe & Isabella Dam

REPORT OF THE KERN RIVER WATERMASTER

APRIL 1997

Quantities in S.F.D. except where noted

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR STORAGE		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE + LOSS		COMPUTED NATURAL FLOW	MEAN TOTAL	STORAGE		KERN COUNTY RECREATION POOL LOSS	SECOND POINT GROUP FLOW AT 2ND POINT		FRIANT - KERN INFLOW	DAY
		ACRE-Feet	S.F.D.				IRRIGATION	Dead Storage			RIVER	KERN					
Previous Day	2584.59	352,923	177,932	69	1,974	5	2,551	2,551	2,551	177,932	162,714	3	336	0	0	0	0
1	2584.70	353,925	178,437	51	1,997	5	2,558	2,558	2,535	178,414	163,196	2	307	0	0	0	1
2	2584.77	354,562	178,758	36	2,127	5	2,489	2,450	2,450	178,696	163,478	2	329	0	0	0	2
3	2584.81	354,927	178,942	49	2,063	6	2,302	2,319	2,319	178,897	163,679	2	326	0	0	0	3
4	2584.85	355,292	179,126	75	1,901	5	2,165	2,199	2,199	179,115	163,897	3	265	0	0	0	4
5	2584.91	355,840	179,403	90	1,758	5	2,130	2,101	2,101	179,363	164,145	4	238	0	0	0	5
6	2584.97	356,389	179,680	56	1,681	(4)	2,010	2,045	2,045	179,675	164,457	2	244	0	0	0	6
7	2585.01	356,753	179,863	75	1,750	(13)	1,995	1,986	1,986	179,849	164,631	3	248	0	0	0	7
8	2585.01	356,753	179,863	83	1,866	5	1,954	1,959	1,959	179,854	164,636	4	263	0	0	0	8
9	2584.99	356,572	179,772	59	1,954	5	1,927	1,924	1,924	179,760	164,542	3	267	0	0	0	9
10	2584.99	356,572	179,772	41	1,845	5	1,891	1,909	1,909	179,778	164,560	2	293	0	0	0	10
11	2585.03	356,936	179,955	70	1,649	6	1,908	1,902	1,902	179,955	164,737	3	313	0	0	0	11
12	2585.12	357,760	180,371	70	1,416	6	1,889	1,889	1,889	180,352	165,134	3	292	0	0	0	12
13	2585.21	358,586	180,787	57	1,375	5	1,853	1,869	1,869	180,784	165,566	3	244	0	0	0	13
14	2585.27	359,134	181,063	68	1,485	16	1,845	1,868	1,868	181,083	165,865	3	203	0	0	0	14
15	2585.32	359,685	181,341	70	1,537	22	1,907	1,887	1,887	181,341	166,123	3	201	0	0	0	15
16	2585.39	360,237	181,620	86	1,539	6	1,910	1,972	1,972	181,682	166,464	4	198	0	0	0	16
17	2585.50	361,250	182,130	63	1,520	5	2,088	2,093	2,093	182,187	166,969	3	194	0	0	0	17
18	2585.65	362,630	182,826	86	1,483	5	2,270	2,230	2,230	182,843	167,625	4	209	0	0	0	18
19	2585.82	364,199	183,617	76	1,448	6	2,321	2,369	2,369	183,682	168,464	3	221	0	0	0	19
20	2586.03	366,141	184,596	84	1,447	5	2,515	2,566	2,566	184,712	169,494	4	214	0	0	0	20
21	2586.31	368,740	185,907	63	1,483	5	2,862	2,789	2,789	185,950	170,732	3	197	0	0	0	21
22	2586.61	371,536	187,316	118	1,457	5	2,989	2,994	2,994	187,364	172,146	5	200	0	0	0	22
23	2586.94	374,623	188,873	87	1,480	6	3,130	3,039	3,039	188,830	173,612	4	200	0	0	0	23
24	2587.24	377,440	190,293	58	1,515	5	2,998	2,988	2,988	190,240	175,022	2	197	0	0	0	24
25	2587.51	379,982	191,574	64	1,486	6	2,837	2,895	2,895	191,579	176,361	3	187	0	0	0	25
26	2587.79	382,630	192,909	99	1,411	5	2,850	2,933	2,933	192,987	177,779	4	204	0	0	0	26
27	2588.13	385,857	194,536	112	1,369	5	3,113	3,018	3,018	194,529	179,311	4	195	0	0	0	27
28	2588.46	389,003	196,122	81	1,419	6	3,092	3,128	3,128	196,151	180,933	3	191	0	0	0	28
29	2588.80	392,255	197,762	103	1,431	5	3,179	3,150	3,150	197,762	182,544	4	186	0	0	0	29
30	2589.11	395,234	199,264	63	1,474	5	3,044	3,044	3,044	199,264	184,046	2	190	0	0	0	30
TOTAL		2,193	48,366	2,193	48,366	159	72,050	72,050	72,050	199,264	184,046	94	7,016	0	0	0	
TOTAL ACRE-Feet		4,350	95,933	4,350	95,933	315	142,909	142,909	142,909	395,234	365,050	186	13,916	0	0	0	

By:  Date: May 22, 1997



REPORT OF THE KERN RIVER WATERMASTER

APRIL 1997

WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
April	1	2	HACIENDA WD FLOW - TRANS. LOSS	Reflects seepage and transportation losses absorbed in the delivery of Lower River water pursuant to paragraph 2(d) of the 1962 Kern River Water Rights and Storage Agreement.
April	6	2	HWD - FLOW ABOVE FIRST POINT RIO BRAVO POWER CANAL	Reflects discharge to and diversion from Kern River as a result of Rio Bravo Power Canal drainage and refill operations as per terms of Bravo Management Company, Inc. memorandum dated April 4, 1997.

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	WHITNEY MEADOW	BIG WHITNEY CREEK	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	-	-	12.0	12.7	4.9	11.6	9.8	18.5	4.4	5.2	10.6	20.1	10.5	6.8	8.6	52%	
1949	13.2	5.8	9.1	12.8	18.8	18.3	16.8	16.1	16.9	28.7	28.2	9.4	10.8	15.0	14.6	15.0	10.5	13.1	45%	
1950	21.0	10.9	18.5	17.8	18.8	11.8	10.5	9.7	35.3	16.9	3.3	10.5	12.1	18.7	17.6	13.5	7.1	16.6	64%	
1951	17.3	8.3	12.5	9.7	37.7	11.5	35.6	34.2	35.3	5.3	4.3	0.0	9.0	0.0	1.6	0.0	0.0	6.5	56%	
1952	43.2	32.2	35.0	35.3	12.7	12.3	12.9	12.1	12.1	35.3	18.4	30.9	38.2	44.9	49.1	32.5	25.2	37.1	241%	
1953	16.8	9.4	14.1	12.7	18.0	16.8	16.7	15.7	16.3	12.1	18.4	6.3	17.2	17.4	17.4	18.2	5.3	12.1	71%	
1954	22.0	11.8	18.0	16.8	18.0	13.1	13.4	10.7	12.3	14.9	14.9	12.2	17.0	23.5	21.3	15.4	10.1	17.8	76%	
1955	14.7	8.1	11.6	13.4	13.4	13.1	13.4	10.7	12.3	14.9	14.9	7.0	18.5	15.3	13.5	6.5	3.3	11.1	48%	
1956	33.3	12.6	26.7	26.7	27.9	10.5	24.3	21.7	23.0	22.9	14.9	9.0	18.5	15.3	12.8	8.9	0.0	18.9	113%	
1957	14.3	11.7	14.1	11.8	11.8	10.5	11.2	11.5	23.7	14.7	14.4	17.8	17.1	10.9	14.4	6.3	0.0	10.5	63%	
1958	25.9	20.5	25.0	23.5	25.3	24.0	24.0	22.7	28.7	35.2	35.2	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	8.2	8.4	6.5	7.7	8.6	5.0	6.8	8.4	5.7	1.8	0.0	7.0	28%	
1960	11.8	4.7	9.4	10.9	10.9	4.5	4.3	4.8	4.8	20.2	20.2	2.0	2.5	9.1	11.9	6.9	2.7	4.6	36%	
1961	6.0	3.8	6.0	7.1	7.1	4.5	4.3	4.8	4.8	12.6	12.6	0.0	0.0	6.0	1.6	2.1	0.0	4.6	19%	
1962	37.4	19.7	31.8	33.7	35.5	32.6	17.2	17.0	30.6	40.5	40.5	-	-	32.1	35.3	27.6	21.3	32.0	111%	
1963	5.1	1.5	16.1	18.4	18.4	17.1	14.8	14.3	5.8	15.1	15.1	-	-	8.1	10.8	5.2	2.7	6.1	39%	
1964	25.8	19.1	16.4	20.1	18.0	19.5	13.2	11.6	15.0	25.2	25.2	8.6	11.4	17.0	16.5	10.3	7.0	16.0	98%	
1965	15.7	32.9	32.2	35.6	35.6	10.6	30.0	30.3	30.4	19.4	19.4	13.5	20.3	27.8	10.6	10.9	4.7	11.5	47%	
1966	37.1	25.2	12.6	12.3	14.0	14.0	11.6	12.6	11.1	17.5	17.5	7.6	6.2	12.9	14.5	3.0	25.5	196%		
1967	14.1	41.1	48.4	48.5	50.9	48.3	48.6	45.0	45.8	69.8	69.8	38.1	46.1	61.4	59.8	50.2	36.8	48.5	375%	
1968	55.3	17.0	12.6	16.4	16.4	16.3	14.6	11.4	12.5	16.7	16.7	4.5	7.2	13.4	12.7	6.1	4.1	11.8	69%	
1969	15.7	5.7	12.6	11.7	12.2	11.3	13.1	10.8	11.1	21.2	21.2	3.3	5.5	14.0	15.9	9.4	3.4	11.2	53%	
1970	15.7	7.6	6.6	6.3	7.7	5.2	3.4	5.4	4.1	4.6	4.6	0.0	0.0	3.4	2.2	0.0	0.0	3.7	27%	
1971	33.6	24.4	30.0	31.7	35.7	31.0	31.8	27.2	30.4	42.7	42.7	24.1	28.2	31.7	40.8	22.3	22.3	30.6	155%	
1972	25.4	13.2	20.6	20.5	22.6	19.2	20.4	19.1	18.1	29.8	29.8	14.3	14.8	21.2	22.0	22.0	10.1	19.4	115%	
1973	18.9	9.7	15.0	16.9	17.6	16.2	15.1	15.9	16.1	26.8	26.8	11.6	14.0	20.7	22.3	10.3	16.5	83%		
1974	5.9	4.4	5.8	3.3	5.4	3.2	4.7	3.5	3.6	11.9	11.9	0.9	0.0	7.2	6.3	6.7	2.2	4.8	23%	
1975	5.0	3.5	4.0	4.7	4.7	4.0	4.0	4.5	3.1	10.8	10.8	2.1	0.0	0.0	2.0	3.6	0.0	3.7	21%	
1976	43.1	19.9	16.2	17.5	17.5	17.7	18.8	14.7	14.2	46.8	46.8	31.9	37.6	41.1	43.7	32.2	23.6	38.7	235%	
1977	40.1	34.4	34.5	35.1	35.1	17.7	18.8	14.7	14.2	25.3	25.3	12.2	14.2	-	-	18.2	14.9	16.9	90%	
1978	40.9	15.3	13.0	14.0	14.0	14.1	15.8	10.9	12.8	33.5	33.5	21.6	27.4	30.0	36.7	18.7	16.2	30.2	213%	
1979	32.4	17.4	24.6	23.2	24.3	24.1	26.3	20.3	23.7	17.4	17.4	8.6	9.6	14.6	14.6	12.3	7.5	13.0	54%	
1980	48.9	34.9	45.0	45.3	46.2	46.9	43.7	38.6	44.7	63.4	63.4	33.2	37.6	48.1	52.1	23.0	11.6	23.0	171%	
1981	21.9	17.2	20.5	20.2	20.8	18.3	17.0	12.9	13.8	15.7	15.7	2.1	2.6	11.9	11.9	4.2	0.0	11.9	91%	
1982	45.1	34.1	39.3	39.3	41.5	39.2	41.0	34.8	36.5	26.2	26.2	22.8	25.4	25.5	19.1	17.7	10.8	18.3	91%	
1983	11.3	7.6	7.8	8.8	11.5	9.2	11.0	7.8	8.1	44.2	44.2	6.3	8.3	9.8	17.3	9.0	1.3	32.5	190%	
1984	15.3	10.2	13.0	12.3	15.7	13.3	11.0	14.4	14.1	6.3	7.2	0.0	0.0	2.4	2.4	0.4	0.0	5.1	45%	
1985	17.6	14.1	17.5	16.8	16.9	17.1	17.2	15.1	17.0	4.0	9.9	0.9	2.2	17.2	12.9	14.6	5.2	13.1	50%	
1986	12.7	13.2	11.7	11.0	10.7	12.2	12.0	9.1	9.9	24.7	24.7	17.7	14.6	14.0	21.0	15.0	7.0	16.2	24%	
1987	33.7	19.6	29.9	27.6	30.2	27.7	29.3	26.4	28.8	41.0	41.0	7.7	8.0	10.8	10.8	11.0	4.0	11.1	59%	
1988	13.4	16.7	11.3	12.1	11.2	11.5	11.5	8.8	10.6	14.3	14.3	5.9	7.1	30.0	32.1	24.0	14.5	27.3	126%	
1989	35.3	30.5	34.8	32.8	35.3	33.0	32.5	30.5	32.2	44.4	44.4	23.3	26.4	33.7	51.0	26.6	14.5	32.3	41%	
1990	29.6	17.7	23.0	25.2	24.6	23.4	25.9	18.6	18.6	21.9	21.9	12.5	16.5	25.5	21.0	18.9	9.8	21.4	128%	
1991	32.5	17.0	26.7	28.4	28.1	26.1	26.1	19.0	23.7	26.1	26.1	13.2	16.5	20.0	22.1	9.0	2.1	20.9	124%	
1992	55.3	41.1	48.4	48.5	50.6	46.9	48.6	45.0	45.8	69.8	69.8	38.1	46.1	61.4	59.8	50.2	36.8	49.5	368%	
1993	5.0	1.5	3.9	3.3	4.8	3.2	3.4	4.0	3.1	3.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0%
1994	22.4	14.3	18.5	18.3	20.4	18.7	18.9	16.8	17.7	25.0	25.0	11.2	13.4	19.6	19.3	14.2	8.3	17.3	124%	

(estimate)

Quantities in S.F.D. except where noted

MAY 1997

REPORT OF THE KERN RIVER WATERMASTER

DAY	ELEVATION (FEET)	ISABELLA MIDNIGHT STORAGE		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED NATURAL FLOW	MEAN TOTAL	STORAGE		KERN COUNTY RECREATION POOL LOSS	SECOND POINT GROUP FLOW		FRIANT-KERN INFLOW	DAY
		ACRE- FEET	S.F.D.				IRRIGATION	Dead Storage			RIVER	FRIANT-KERN					
Previous Day	2589.11	395,234	199,264	63	1,474	5	3,044	3,044	3,044	199,264	184,046	2	190	0	0	0	1
1	2589.43	398,320	200,820	111	1,518	6	3,191	3,191	3,185	200,820	185,602	4	188	0	0	0	2
2	2589.73	401,224	202,284	84	1,622	7	3,177	3,177	3,162	202,292	187,074	3	188	0	0	0	3
3	2590.04	404,233	203,801	106	1,572	7	3,202	3,202	3,140	203,769	188,551	4	198	0	0	0	4
4	2590.35	407,256	205,325	87	1,490	7	3,108	3,108	3,140	205,325	190,107	3	190	0	0	0	5
5	2590.65	410,192	206,805	115	1,509	6	3,110	3,110	3,161	206,856	191,638	4	193	0	0	0	6
6	2590.97	413,335	208,390	124	1,549	7	3,265	3,265	3,225	208,401	193,183	5	151	0	0	0	7
7	2591.29	416,487	209,979	93	1,611	7	3,300	3,300	3,328	210,018	194,800	3	140	0	0	0	8
8	2591.62	419,753	211,626	116	1,650	7	3,420	3,420	3,424	211,669	196,451	4	154	0	0	0	9
9	2591.97	423,230	213,379	120	1,673	7	3,553	3,553	3,449	213,318	198,100	4	143	0	0	0	10
10	2592.31	426,618	215,087	103	1,556	7	3,374	3,374	3,405	215,057	199,839	4	136	0	0	0	11
11	2592.65	430,022	216,803	112	1,454	6	3,288	3,288	3,389	216,874	201,656	4	139	0	0	0	12
12	2593.01	433,638	218,626	124	1,551	7	3,505	3,505	3,498	218,690	203,472	4	137	0	0	0	13
13	2593.40	437,575	220,611	131	1,578	7	3,701	3,701	3,681	220,655	205,437	4	133	0	0	0	14
14	2593.79	441,527	222,603	166	1,671	7	3,836	3,836	3,902	222,713	207,495	6	131	0	0	0	15
15	2594.23	446,009	224,863	111	1,789	7	4,167	4,167	4,057	224,863	209,645	4	136	0	0	0	16
16	2594.72	451,023	227,391	97	1,827	7	4,459	4,459	4,459	227,391	212,173	3	131	0	0	0	17
17	2595.19	455,858	229,829	118	1,751	7	4,314	4,314	4,314	229,829	214,611	4	135	0	0	0	18
18	2595.62	460,302	232,069	128	1,797	8	4,173	4,173	4,045	231,941	216,723	4	137	0	0	0	19
19	2595.95	463,729	233,797	137	1,917	7	3,789	3,789	3,781	233,661	218,443	4	164	0	0	0	20
20	2596.15	465,810	234,846	158	2,165	8	3,380	3,380	3,502	234,832	219,614	5	231	0	0	0	21
21	2596.27	467,080	235,476	108	2,593	7	3,338	3,338	3,350	235,474	220,256	3	344	0	0	0	22
22	2596.35	467,896	235,898	138	2,763	8	3,331	3,331	3,359	235,924	220,706	4	439	0	0	0	23
23	2596.47	469,151	236,530	120	2,649	7	3,408	3,408	3,393	236,541	221,323	4	468	0	0	0	24
24	2596.63	470,824	237,374	102	2,487	7	3,440	3,440	3,257	237,202	221,984	3	406	0	0	0	25
25	2596.70	471,559	237,744	93	2,453	8	2,924	2,924	3,014	237,662	222,444	3	378	0	0	0	26
26	2596.71	471,664	237,797	114	2,503	8	2,678	2,678	2,845	237,882	222,664	4	375	0	0	0	27
27	2596.77	472,291	238,114	124	2,486	7	2,934	2,934	2,875	238,140	222,922	4	378	0	0	0	28
28	2596.85	473,131	238,537	108	2,473	8	3,012	3,012	3,201	238,752	223,534	3	374	0	0	0	29
29	2597.06	475,338	239,650	136	2,402	7	3,658	3,658	3,489	239,696	224,478	4	343	0	0	0	30
30	2597.29	477,760	240,871	142	2,426	8	3,797	3,797	3,751	240,871	225,653	4	377	0	0	0	31
31	2597.60	481,036	242,522	134	2,413	8	4,206	4,206	4,206	242,522	227,304	4	414	0	0	0	32
TOTAL SECOND FOOT DAYS				3,660	60,898	222	108,038	108,038	108,038	242,522	227,304	120	7,451	0	0	0	
TOTAL ACRE- FEET				7,260	120,789	440	214,290	214,290	214,290	481,036	450,852	238	14,779	0	0	0	

By:  Date: June 23, 1997

REPORT OF THE KERN RIVER WATERMASTER

MAY 1997

Quantities in S.F.D. except where noted

NORTH KERN WATER STORAGE DISTRICT

BUENA VISTA WATER STORAGE DISTRICT

HACIENDA WATER DISTRICT

Previous Day	FLOW ABOVE FIRST POINT				FLOW				FLOW ABOVE FIRST POINT				FLOW				FLOW ABOVE FIRST POINT				FLOW														
	ENTL AT 1ST POINT	FLOW AT 1ST	VALLEY GOLF MING COURSE	KERN VALLEY GOLF MING COURSE	ENTL AT 2ND POINT	VIA KDW	VIA CWD	VIA ID4	FOR PIONEER PROJECT	AT 2ND POINT	OLCSE HACIENDA WD INC.	La	RESERVOIR LOSS STORAGE	ENTL AT 2ND POINT	VIA KDW	VIA CWD	VIA ID4	FOR PIONEER PROJECT	AT 2ND POINT	OLCSE HACIENDA WD INC.	La	RESERVOIR LOSS STORAGE	TRANS. LOSS	WATER BANK	AT 2ND POINT	RESERVOIR LOSS STORAGE	DAY								
1	2,091	889	1	0	30	87,530	953	63	122	82	0	190	2	2	2	2	2	2	2	2	2	21	61,400	8	120	0	12	35,116							
2	2,174	1,036	1	0	54	88,613	1,017	36	0	131	0	178	3	2	2	3	3	3	3	3	37	62,030	10	117	10	20	34,959								
3	2,171	1,038	1	1	41	89,703	1,014	27	0	191	0	178	3	2	2	3	3	3	3	3	28	62,615	41	137	10	15	34,756								
4	2,158	958	1	0	52	90,850	1,004	11	0	180	0	188	4	2	2	4	4	4	4	4	35	63,199	31	194	10	19	34,502								
5	2,145	947	1	1	43	92,003	985	12	0	157	0	180	3	2	2	3	3	3	3	3	29	63,811	22	162	10	15	34,293								
6	2,157	1,039	1	0	57	93,063	1,004	23	0	137	0	183	3	2	2	3	3	3	3	3	38	64,429	15	102	10	20	34,146								
7	2,194	1,122	1	0	62	94,072	1,031	30	0	134	0	141	4	2	2	4	4	4	4	4	41	65,108	15	97	10	21	34,003								
8	2,253	1,216	1	1	46	95,061	1,075	32	0	118	0	130	3	2	2	3	3	3	3	3	31	65,867	14	91	10	16	33,872								
9	2,307	1,266	1	0	58	96,043	1,117	43	0	99	0	144	3	3	3	4	4	4	4	4	39	66,653	9	79	10	19	33,755								
10	2,322	1,360	1	0	60	96,944	1,127	39	0	130	0	133	4	2	2	4	4	4	4	4	40	67,432	1	0	10	20	33,724								
11	2,287	1,253	1	1	51	97,935	1,108	23	0	143	0	126	3	2	2	3	3	3	3	3	35	68,208	1	0	10	17	33,686								
12	2,287	1,131	1	0	56	98,034	1,102	31	0	152	0	129	3	2	2	3	3	3	3	3	38	68,955	1	0	10	18	33,667								
13	2,350	1,247	1	1	62	100,073	1,148	43	0	123	0	127	3	2	2	4	4	4	4	4	42	69,763	1	0	10	20	33,636								
14	2,450	1,289	1	0	65	101,168	1,231	39	0	116	0	123	4	2	2	4	4	4	4	4	45	70,665	1	0	10	21	33,604								
15	2,571	1,378	1	1	83	102,276	1,331	38	0	123	0	123	3	2	2	3	3	3	3	3	57	71,650	1	0	8	26	33,569								
16	2,654	1,455	1	0	56	103,418	1,403	48	0	150	0	133	4	2	2	4	4	4	4	4	38	72,678	0	0	3	17	33,549								
17	2,864	1,518	1	1	49	104,713	1,585	51	0	127	0	128	3	2	2	3	3	3	3	3	33	73,929	0	0	3	15	33,531								
18	2,788	1,439	2	0	59	106,001	1,526	58	0	119	0	132	3	2	2	3	3	3	3	3	41	75,100	0	0	3	18	33,510								
19	2,648	1,459	1	1	65	107,123	1,397	62	0	139	0	134	4	2	2	4	4	4	4	4	44	76,112	0	0	3	19	33,488								
20	2,504	1,347	2	0	68	108,210	1,277	75	210	112	9	161	3	2	2	3	3	3	3	3	48	76,769	0	0	3	21	33,464								
21	2,352	1,439	1	1	80	109,041	1,150	81	219	128	67	228	4	2	2	4	4	4	4	4	55	77,135	0	0	3	23	33,438								
22	2,265	1,857	2	0	54	109,393	1,085	55	218	65	54	324	3	2	2	3	3	3	3	3	38	77,461	0	0	20	16	33,402								
23	2,270	1,932	1	1	70	109,659	1,089	54	222	75	41	419	4	2	2	4	4	4	4	4	48	77,685	0	0	20	20	33,362								
24	2,290	1,795	2	0	60	110,092	1,103	57	222	77	30	448	3	2	2	3	3	3	3	3	42	77,907	0	0	20	18	33,324								
25	2,212	1,712	1	1	51	110,539	1,045	52	226	91	0	386	3	2	2	3	3	3	3	3	36	78,156	0	0	20	15	33,289								
26	2,073	1,747	2	0	48	110,815	941	41	199	88	0	358	3	3	3	3	3	3	3	3	32	78,373	0	0	20	13	33,256								
27	1,973	1,799	1	1	58	110,929	872	36	220	72	0	355	4	2	2	4	4	4	4	4	40	78,516	1	0	20	16	33,219								
28	1,991	1,769	2	0	63	111,086	884	55	223	60	0	358	3	2	2	3	3	3	3	3	43	78,656	1	0	20	18	33,180								
29	2,180	1,744	1	1	54	111,466	1,021	76	214	64	0	354	4	2	2	4	4	4	4	4	38	78,925	1	0	20	16	33,143								
30	2,344	1,759	2	0	68	111,981	1,145	79	220	0	0	323	3	2	2	3	3	3	3	3	48	79,395	1	0	20	20	33,102								
31	2,488	1,763	1	1	72	112,632	1,263	65	221	0	0	357	4	2	2	4	4	4	4	4	50	79,959	0	0	20	20	33,062								
S.F.D.	72,464	44,546	39	14	1,833	113,562	35,574	1,429	2,823	3,301	201	7,065	105	64	1,256	80,730	168	979	386	571	33,012	S.F.D.													
AC.FT.	143,730	88,356	77	28	3,636	225,248	70,560	2,834	5,599	6,548	399	14,013	209	126	2,491	160,126	333	1,941	766	1,133	65,478	AC.FT.													
TOTAL ACRE-FOOT STORAGE DAYS												TOTAL ACRE-FOOT STORAGE DAYS												TOTAL ACRE-FOOT STORAGE DAYS											
6,342,141												4,458,585												2,067,793											

WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

COMMENT

TITLE OF COLUMN

PAGE NO.

DAY(S)

MONTH

HACIENDA WD FLOW - AT 2ND POINT

2

1

May

Delivered as per terms of HACIENDA WATER DISTRICT/Rosedale-Rio Bravo Water Storage District 1997 Water Exchange Agreement dated May 14, 1997.

KERN RIVER WATERMASTER  
CENTRAL RECORDS  
06-18-97

**KERN RIVER GROUP  
1997 KERN RIVER - ISABELLA RESERVOIR PROJECTED OPERATIONAL ROUTING**

STATE FORECAST AS OF JUNE 4, 1997 = 550,000 ACFT APRIL - JULY RUNOFF (124% OF NORMAL)

Quantities in 1000 acre-feet  
except where noted...

	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	TOTAL
KERN RIVER COMPUTED NATURAL FLOW	246.0	104.8	120.4	142.9	214.3	135.0	65.0	30.0	15.0	15.0	20.0	20.0	1128.4
ISABELLA RESERVOIR LOSS	0.9	1.9	3.2	4.4	7.3	7.8	8.6	8.1	5.8	3.5	2.2	1.0	54.7
KERN RIVER REGULATED FLOW	63.4	142.8	158.9	96.2	121.2	135.0	130.0	105.0	50.0	35.0	25.0	20.0	1092.5
KERN RIVER REGULATED FLOW (mean cfs)	1031	2571	2584	1617	1971	2269	2114	1708	840	569	420	325	
ISABELLA RESERVOIR STORAGE (End of Month)	434.5	394.6	352.9	395.2	481.0	473.2	399.6	316.5	275.7	252.2	245.0	244.0	

Quantities in S.F.D. except where noted

JUNE 1997

REPORT OF THE KERN RIVER WATERMASTER

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST NATURAL FLOW	MEAN TOTAL	STORAGE		KERN COUNTY RECREATION POOL LOSS	SECOND POINT GROUP FLOW		FRONT-KERN INFLOW	DAY
		MIDNIGHT	S.F.D.				IRRIGATION	Dead Storage			RIVER	KERN		AT 2ND POINT	FRONT-KERN		
Previous Day	2597.60	481,036	242,522	134	2,413	8	4,206	4,206	4,206	242,522	227,304	4	414	0	0	0	
1	2597.88	484,003	244,018	138	2,329	7	3,970	3,970	3,970	244,018	228,800	4	433	0	0	1	
2	2598.11	486,447	245,250	138	2,341	8	3,719	3,629	3,629	245,160	229,942	4	433	0	0	2	
3	2598.38	488,790	246,432	145	2,113	8	3,448	3,448	3,448	246,343	231,125	4	413	0	0	3	
4	2598.49	490,499	247,293	116	2,196	8	3,181	3,226	3,226	247,249	232,031	3	508	0	0	4	
5	2598.59	491,566	247,831	91	2,413	8	3,050	3,018	3,018	247,755	232,537	3	629	0	0	5	
6	2598.63	491,994	248,047	97	2,502	8	2,823	2,863	2,863	248,011	232,793	3	601	0	0	6	
7	2598.62	491,887	247,993	142	2,620	8	2,716	2,770	2,770	248,011	232,793	4	598	0	0	7	
8	2598.61	491,780	247,939	126	2,692	8	2,772	2,760	2,760	247,945	232,727	4	616	0	0	8	
9	2598.60	491,673	247,885	136	2,703	8	2,793	2,692	2,692	247,790	232,572	4	546	0	0	9	
10	2598.60	491,673	247,885	100	2,404	6	2,510	2,551	2,551	247,831	232,613	3	336	0	0	10	
11	2598.59	491,566	247,831	133	2,262	8	2,349	2,369	2,369	247,797	232,579	4	209	0	0	11	
12	2598.56	491,245	247,669	129	2,274	8	2,249	2,284	2,284	247,670	232,452	4	203	0	0	12	
13	2598.55	491,138	247,616	94	2,206	8	2,255	2,189	2,189	247,551	232,333	3	214	0	0	13	
14	2598.57	491,352	247,723	90	1,860	7	2,064	2,118	2,118	247,712	232,494	3	160	0	0	14	
15	2598.60	491,673	247,885	116	1,751	5	2,034	1,987	1,987	247,827	232,609	3	148	0	0	15	
16	2598.57	491,352	247,723	126	1,891	8	1,863	1,980	1,980	247,782	232,564	4	108	0	0	16	
17	2598.51	490,710	247,400	133	2,225	8	2,043	2,048	2,048	247,464	232,246	4	93	0	0	17	
18	2598.48	490,392	247,239	142	2,248	8	2,237	2,244	2,244	247,310	232,092	4	85	0	0	18	
19	2598.48	490,392	247,239	188	2,256	8	2,452	2,429	2,429	247,287	232,069	6	86	0	0	19	
20	2598.51	490,710	247,400	174	2,254	8	2,597	2,513	2,513	247,364	232,146	5	89	0	0	20	
21	2598.54	491,031	247,562	200	2,123	6	2,491	2,420	2,420	247,455	232,237	6	108	0	0	21	
22	2598.53	490,924	247,508	148	2,070	7	2,171	2,244	2,244	247,474	232,256	4	145	0	0	22	
23	2598.49	490,499	247,293	139	2,137	8	2,069	2,052	2,052	247,242	232,024	4	140	0	0	23	
24	2598.41	489,644	246,862	149	2,190	8	1,916	1,953	1,953	246,848	231,630	4	121	0	0	24	
25	2598.31	488,576	246,324	155	2,249	8	1,874	1,880	1,880	246,316	231,098	5	141	0	0	25	
26	2598.21	487,512	245,787	132	2,248	8	1,851	1,828	1,828	245,756	230,538	4	156	0	0	26	
27	2598.09	486,294	245,143	184	2,209	8	1,757	1,737	1,737	245,092	229,874	6	144	0	0	27	
28	2597.96	484,854	244,447	154	2,139	7	1,604	1,636	1,636	244,428	229,210	5	134	0	0	28	
29	2597.82	483,366	243,697	151	2,137	8	1,546	1,565	1,565	243,697	228,479	5	128	0	0	29	
30	2597.65	481,566	242,790	96	2,171	8	1,368	1,368	1,368	242,790	227,572	3	139	0	0	30	
<b>TOTAL SECOND FOOT DAYS</b>				4,062	67,213	229	71,772	71,772	71,772	242,790	227,572	122	7,864	0	0		
<b>TOTAL ACRE-FEET</b>				8,057	133,315	454	142,358	142,358	142,358	481,566	451,382	242	15,598	0	0		

By:  Date: July 16, 1997



WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
June	1	2	HACIENDA WD FLOW - FOR ROSEDALE RBWSD VIA ARVIN-EDISON TURNOUT	Delivered as per terms of HACIENDA WATER DISTRICT/Rosedale-Rio Bravo Water Storage District 1987 Water Exchange Agreement dated May 14, 1987.

KERN RIVER

TOP TWENTY DAILY NATURAL FLOW EVENTS

September 29, 1893 to Date

Rank	C.F.S.	Date
#1	80,029	December 6, 1966
#2	24,216	January 25, 1969
#3	19,794	January 3, 1997
#4	17,464	December 7, 1966
#5	16,125	January 18, 1916
#6	15,584	February 1, 1963
#7	15,478	January 26, 1914
#8	15,400	November 19, 1950
#9	14,675	February 7, 1937
#10	14,171	February 18, 1960
#11	14,038	May 29, 1983
#12	13,978	May 28, 1983
#13	13,973	December 5, 1966
#14	13,814	May 31, 1983
#15	13,550	January 14, 1980
#16	13,258	May 27, 1983
#17	13,230	January 26, 1969
#18	13,176	June 1, 1969
#19	13,148	May 30, 1983
#20	12,963	June 2, 1969

DAY	ELEVATION (FEET)	ISABELLA		RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN TOTAL	STORAGE		KERN RECREATION POOL LOSS	SECOND POINT GROUP FLOW AT 2ND POINT		FRIANT - KERN INFLOW	DAY
		MIDNIGHT	ACRE-FOOT	S.F.D.	ACRE-FOOT				S.F.D.	IRRIGATION			RECREATION	RIVER		FRIANT - KERN			
Previous Day	2597.65	481,566	242,790	96	2,171	8	1,368	1,368	242,790	227,572	3	139	0	0	0	0	0	0	0
1	2597.46	479,557	241,777	133	2,187	7	1,314	1,314	241,777	226,559	4	144	0	0	0	0	0	0	1
2	2597.27	477,549	240,764	147	2,176	7	1,317	1,283	240,730	225,512	4	148	0	0	0	0	0	0	2
3	2597.07	475,443	239,703	150	2,120	7	1,216	1,273	239,726	224,508	5	162	0	0	0	0	0	0	3
4	2596.90	473,657	238,802	163	2,018	7	1,287	1,266	238,804	223,586	5	171	0	0	0	0	0	0	4
5	2596.75	472,083	238,009	139	1,942	8	1,296	1,284	237,999	222,781	4	222	0	0	0	0	0	0	5
6	2596.55	469,986	236,951	203	2,115	7	1,267	1,292	236,966	221,748	6	260	0	0	0	0	0	0	6
7	2596.34	467,791	235,845	172	2,241	7	1,314	1,290	235,836	220,618	5	285	0	0	0	0	0	0	7
8	2596.13	465,601	234,741	155	2,230	7	1,288	1,292	234,736	219,518	5	280	0	0	0	0	0	0	8
9	2595.89	463,104	233,482	161	2,365	7	1,274	1,268	233,471	218,253	5	276	0	0	0	0	0	0	9
10	2595.63	460,406	232,121	161	2,435	7	1,242	1,269	232,137	216,919	5	286	0	0	0	0	0	0	10
11	2595.38	457,819	230,817	170	2,419	7	1,292	1,292	230,833	215,615	5	246	0	0	0	0	0	0	11
12	2595.17	455,651	229,724	170	2,259	7	1,343	1,296	229,693	214,475	5	184	0	0	0	0	0	0	12
13	2594.98	453,695	228,738	126	2,104	7	1,251	1,262	228,718	213,500	4	151	0	0	0	0	0	0	13
14	2594.76	451,432	227,587	156	2,169	7	1,191	1,198	227,584	212,366	5	125	0	0	0	0	0	0	14
15	2594.50	448,769	226,254	165	2,323	7	1,152	1,155	226,244	211,026	5	131	0	0	0	0	0	0	15
16	2594.22	445,907	224,812	132	2,425	7	1,122	1,103	224,783	209,565	4	133	0	0	0	0	0	0	16
17	2593.92	442,850	223,270	177	2,393	7	1,035	1,060	223,266	208,048	6	112	0	0	0	0	0	0	17
18	2593.65	440,107	221,887	154	2,246	7	1,024	1,036	221,895	206,677	5	120	0	0	0	0	0	0	18
19	2593.43	437,879	220,764	144	2,020	7	1,048	1,027	220,751	205,533	5	105	0	0	0	0	0	0	19
20	2593.20	435,556	219,593	147	2,026	7	1,009	1,004	219,575	204,357	5	96	0	0	0	0	0	0	20
21	2592.93	432,835	218,221	130	2,191	7	956	1,030	218,277	203,059	4	125	0	0	0	0	0	0	21
22	2592.68	430,323	216,955	38	2,345	7	1,124	1,068	216,955	201,737	1	187	0	0	0	0	0	0	22
23	2592.45	428,019	215,793	87	2,343	7	1,275	1,275	215,793	200,575	3	244	0	0	0	0	0	0	23
24	2592.31	426,618	215,087	123	2,168	7	1,592	1,592	215,087	199,869	4	248	0	0	0	0	0	0	24
25	2592.12	424,723	214,131	142	2,046	7	1,239	1,239	214,131	198,913	5	235	0	0	0	0	0	0	25
26	2591.91	422,632	213,077	151	1,929	7	1,033	1,013	213,057	197,839	5	190	0	0	0	0	0	0	26
27	2591.68	420,348	211,926	132	1,984	7	972	995	211,929	196,711	5	206	0	0	0	0	0	0	27
28	2591.44	417,971	210,727	160	2,013	7	961	968	210,717	195,489	6	215	0	0	0	0	0	0	28
29	2591.20	415,600	209,532	128	2,011	7	951	956	209,527	194,309	5	204	0	0	0	0	0	0	29
30	2590.94	413,040	208,241	140	2,079	7	935	940	208,241	193,023	6	221	0	0	0	0	0	0	30
31	2590.67	410,388	206,904	152	2,097	7	919	919	206,904	191,686	6	237	0	0	0	0	0	0	31
TOTAL SECOND FOOT DAYS				4,508	67,419	218	36,259	36,259	206,904	191,686	146	5,949	0	0	0	0	0	0	0
TOTAL ACRE-FOOT				8,941	133,724	432	71,919	71,919	410,388	380,204	290	11,800	0	0	0	0	0	0	0

By:  Date: August 19, 1997

REPORT OF THE KERN RIVER WATERMASTER

JULY 1997

Quantities in S.F.D. except where noted

NORTH KERN WATER STORAGE DISTRICT

BUENA VISTA WATER STORAGE DISTRICT

HACIENDA WATER DISTRICT

DAY	FLOW ABOVE FIRST POINT			FLOW ABOVE FIRST POINT			FLOW ABOVE FIRST POINT			FLOW ABOVE FIRST POINT			FLOW ABOVE FIRST POINT										
	ENT'L AT 1ST	FLOW AT 1ST	POINT	KERN VALLEY LAKE	MINING COURSE	RESERVOIR LOSS STORAGE	ENT'L AT 2ND POINT	VIA KWD	VIA CWD	VIA ID4	FOR AT 2ND POINT	OLCSE HACIENDA INC.	RESERVOIR LOSS STORAGE	TRANS. LOSS	VIA ARVIN - EDISON TURNOUT	AT 2ND POINT	HACIENDA INC.	RESERVOIR LOSS STORAGE					
1	1,028	1,459	2	1	48	112,091	340	82	216	242	109	3	2	35	84,735	1	32	30	0	13	30,746		
2	991	1,757	2	0	67	111,256	323	47	0	210	121	4	4	49	84,627	1	28	23	1	17	30,676		
3	970	1,743	2	1	74	110,406	313	46	0	210	125	4	0	54	84,501	1	28	23	0	19	30,605		
4	963	1,690	2	0	74	109,603	310	49	0	186	139	5	0	56	84,376	3	30	23	0	20	30,529		
5	959	1,561	2	1	81	108,917	307	56	0	198	148	4	0	61	84,216	2	30	23	0	21	30,453		
6	976	1,550	2	0	69	108,377	313	64	0	185	199	5	0	52	84,024	2	29	23	1	18	30,380		
7	975	1,663	2	0	85	106,925	315	63	0	201	262	4	0	64	83,468	1	28	23	0	23	30,225		
8	976	1,677	2	1	76	106,145	316	55	0	189	257	4	0	58	83,221	1	28	23	0	21	30,152		
9	960	1,793	2	0	80	105,230	308	50	0	214	253	4	0	60	82,948	3	29	23	1	21	30,075		
10	961	1,873	2	1	79	104,236	308	55	0	192	263	4	0	61	82,681	1	28	23	0	21	30,002		
11	976	1,875	2	0	83	103,252	316	64	0	204	226	5	0	64	82,434	1	29	20	0	23	29,929		
12	979	1,756	2	1	83	102,389	317	90	0	199	164	4	0	64	82,230	1	29	20	0	23	29,856		
13	956	1,645	2	0	61	101,637	306	91	0	187	141	4	0	48	82,065	1	29	10	1	17	29,798		
14	912	1,681	2	1	76	100,789	286	105	0	219	115	4	0	59	81,849	2	37	10	0	21	29,728		
15	883	1,722	2	0	80	99,868	272	103	64	259	121	5	0	63	81,506	1	43	10	0	22	29,652		
16	848	1,638	2	1	64	99,011	255	124	224	261	113	4	0	50	80,985	1	44	20	0	18	29,569		
17	818	1,623	2	0	85	98,119	242	144	223	245	92	4	0	68	80,451	2	44	20	1	24	29,478		
18	802	1,449	2	1	74	97,395	234	152	222	258	100	4	0	59	79,890	1	44	20	0	21	29,392		
19	796	1,227	2	0	69	96,893	231	176	222	248	75	5	0	55	79,340	3	39	30	0	20	29,300		
20	780	1,265	2	1	71	96,334	224	164	219	242	66	4	0	56	78,813	2	38	30	0	20	29,210		
21	798	1,415	2	0	62	95,653	232	140	221	248	97	4	0	50	78,285	3	39	28	1	18	29,121		
22	824	1,468	3	0	18	94,988	244	177	230	245	187	4	0	15	77,671	0	38	0	0	5	29,078		
23	965	1,416	2	1	42	94,492	310	186	228	233	244	4	0	33	77,053	2	34	0	0	12	29,030		
24	1,181	1,338	2	0	59	94,274	411	162	228	169	248	5	0	47	76,605	0	23	0	0	17	28,990		
25	940	1,233	2	1	68	93,910	289	180	224	151	235	4	0	54	76,056	0	23	0	0	20	28,947		
26	786	1,160	3	0	73	93,460	227	170	223	164	190	4	0	57	75,475	0	22	0	0	21	28,904		
27	774	1,194	2	1	63	92,974	221	158	220	181	206	4	0	50	74,877	0	25	0	0	19	28,860		
28	755	1,169	2	0	77	92,481	213	172	216	206	215	4	0	60	74,217	0	35	0	1	23	28,801		
29	747	1,179	2	1	62	91,984	209	165	217	209	204	4	0	48	73,579	2	35	0	0	18	28,746		
30	736	1,190	2	0	68	91,460	204	187	220	225	221	5	0	52	72,873	0	36	0	0	20	28,690		
31	722	1,210	2	1	73	90,896	197	181	223	210	237	4	0	57	72,158	0	36	0	0	22	28,632		
S.F.D.	27,680	46,600	64	15	2,196	90,896	8,579	3,633	3,624	6,566	5,501	132	0	1,700	72,158	39	1,008	448	7	612	28,632		
AC.FT.	54,903	92,429	127	29	4,355	180,290	17,016	7,206	7,189	13,023	10,911	262	0	3,372	143,123	77	2,000	889	14	1,214	56,791		
																		TOTAL ACRE-FOOT STORAGE DAYS	6,150,848	TOTAL ACRE-FOOT STORAGE DAYS	4,911,512	TOTAL ACRE-FOOT STORAGE DAYS	1,819,056

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

YEAR	MONTH				TOTAL	% OF AVERAGE	MONTH				TOTAL	% OF AVERAGE
	APR	MAY	JUN	JUL			APR	MAY	JUN	JUL		
1961	24,137	29,980	24,305	8,952	87,374	19%	62,047	117,748	132,766	53,835	366,396	78%
1962	28,940	41,722	14,069	8,223	92,958	20%	57,964	86,174	146,124	82,760	372,922	79%
1977	23,391	25,630	95,685	1,873	95,849	20%	46,602	147,001	140,660	51,917	386,180	82%
1931	23,440	41,967	24,262	9,493	98,062	21%	107,403	109,904	128,653	43,436	389,596	83%
1976	25,824	47,151	20,950	14,749	108,754	23%	109,658	155,476	85,880	39,733	390,747	83%
1990	32,019	38,600	23,940	13,380	113,944	24%	74,315	132,097	139,222	53,355	398,989	85%
1934	39,919	43,065	21,820	11,341	116,145	25%	80,223	150,109	115,862	59,197	405,391	86%
1972	28,288	48,965	36,591	14,896	127,720	27%	102,079	164,935	106,112	46,733	419,859	89%
1959	40,566	39,945	32,061	15,013	130,585	28%	91,559	161,613	93,114	77,046	423,132	90%
1898	42,248	45,213	32,909	15,043	135,303	29%	136,241	146,739	99,858	41,395	424,293	90%
1988	39,594	58,350	43,140	20,989	162,043	35%	83,370	158,904	137,840	50,899	430,813	92%
1960	46,272	58,336	47,181	16,893	168,472	36%	80,916	124,506	172,324	77,496	455,242	97%
1994	55,448	74,394	32,987	16,324	179,155	38%	80,043	131,980	149,357	95,288	456,668	97%
1964	42,946	61,521	54,658	23,063	182,228	39%	69,412	137,839	163,944	105,384	476,579	101%
1994	46,489	67,224	56,223	23,068	192,804	41%	135,984	186,465	145,503	50,471	510,614	109%
1928	37,757	76,885	50,344	18,708	183,702	41%	100,362	184,721	161,153	75,481	515,474	110%
1900	28,102	68,295	76,866	17,125	190,886	42%	127,582	176,754	178,754	81,529	522,905	111%
1949	50,517	84,508	56,148	24,201	209,911	45%	97,553	159,683	168,876	99,529	525,641	112%
1913	55,236	75,108	60,738	24,208	215,290	45%	111,273	154,732	166,404	94,013	526,432	112%
1899	53,133	73,961	60,738	24,208	215,290	46%	114,113	183,733	167,740	69,580	535,166	114%
1929	59,064	85,895	63,481	30,946	219,532	47%	126,329	165,062	187,638	81,275	560,304	119%
1966	68,779	82,936	63,481	30,946	219,532	47%	142,909	214,290	142,358	71,919	571,476	122%
1955	37,567	69,544	48,451	31,014	224,785	48%	157,290	186,446	167,740	67,902	581,624	124%
1926	53,506	66,079	86,660	28,401	234,582	50%	83,190	129,404	137,792	114,613	582,041	124%
1930	66,079	71,849	86,660	28,401	234,582	50%	131,246	200,964	162,420	87,414	584,891	124%
1989	91,380	71,849	78,565	31,378	234,430	50%	131,246	200,964	162,420	87,414	584,891	124%
1948	43,976	66,106	54,707	23,347	219,893	47%	147,959	225,287	154,883	70,502	599,331	126%
1968	65,584	87,991	64,054	30,690	248,319	53%	84,407	147,959	202,395	88,649	617,710	132%
1947	60,353	110,325	57,778	24,116	249,572	53%	173,393	281,639	137,393	61,837	654,262	139%
1912	37,246	80,471	100,025	33,170	249,572	53%	197,720	199,950	183,995	97,083	678,748	145%
1981	69,320	91,914	65,917	25,630	252,681	54%	144,934	210,676	201,064	128,338	685,012	146%
1908	79,320	79,416	60,305	41,851	260,894	56%	162,071	268,635	172,890	91,133	694,729	148%
1951	85,039	85,039	38,941	261,884	268,269	56%	198,736	254,785	155,650	88,011	697,182	148%
1951	92,136	58,400	58,400	38,941	261,884	56%	184,481	184,481	222,076	156,498	701,168	149%
1939	88,062	79,765	100,423	39,268	268,269	57%	110,892	288,652	230,390	93,834	723,768	154%
1957	58,062	79,765	100,423	41,968	276,543	59%	121,863	316,974	198,748	130,088	796,794	170%
1894	88,974	98,801	64,594	41,968	295,400	63%	168,105	316,974	235,395	91,097	831,669	177%
1933	57,265	80,026	125,395	58,898	299,584	64%	203,147	293,335	235,395	121,398	886,674	189%
1950	76,155	98,483	90,367	58,401	299,906	64%	99,509	255,046	293,129	243,802	924,005	197%
1925	56,408	102,016	96,252	58,401	313,113	67%	255,046	255,046	293,129	237,802	929,221	198%
1904	59,812	113,205	103,904	38,725	316,646	67%	315,044	315,044	291,890	130,917	961,769	205%
1970	63,513	113,205	95,700	30,118	319,408	68%	111,608	315,044	282,877	208,715	991,025	211%
1921	51,723	100,096	120,387	69,619	321,325	68%	124,615	396,666	309,960	174,416	995,657	212%
1953	70,730	86,019	89,657	59,657	329,570	70%	181,700	354,825	302,557	194,693	1,094,375	233%
1923	73,355	120,849	82,528	44,828	329,570	70%	181,700	354,825	302,557	194,693	1,094,375	233%
1918	74,513	76,722	136,753	44,828	342,532	71%	247,402	434,769	302,557	159,856	1,119,815	238%
1918	74,513	76,722	136,753	44,828	342,532	71%	382,617	394,086	394,086	194,870	1,218,975	260%
1935	81,844	140,215	81,844	34,364	342,532	73%	362,234	362,234	458,418	399,841	1,391,636	296%
1935	103,787	140,215	133,634	43,184	350,642	75%	472,984	472,984	571,846	288,866	1,545,810	329%
1910	101,203	127,733	139,719	45,046	350,642	75%	481,749	481,749	391,700	225,154	1,571,597	335%
1954	101,203	139,719	73,553	39,642	354,117	75%	378,333	617,968	496,796	254,777	1,747,874	372%
MAX.							481,749	617,968	571,846	399,841	1,747,874	
MIN.							23,391	25,630	14,069	8,223	87,374	
AVG.							100,255	156,969	139,870	72,545	469,639	

Quantities in S.F.D. except where noted

AUGUST 1997

REPORT OF THE KERN RIVER WATERMASTER

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE TOTAL	KERN COUNTY RECREATION POOL LOSS	SECOND POINT GROUP FLOW AT 2ND POINT			FRIANT-KERN INFLOW	DAY
		ACRE-FEET	S.F.D.				+1ST POINT	+FLOW ABOVE 1ST POINT				KERN RIVER	FRIANT-KERN	KERN		
Previous Day	2590.67	410,388	206,904	152	2,097	7	919	919	919	206,904	6	237	0	0	0	1
1	2590.39	407,647	205,522	141	2,111	6	876	876	848	205,494	5	260	0	0	0	2
2	2590.09	404,721	204,047	164	2,098	6	793	793	799	204,025	6	257	0	0	0	3
3	2589.77	401,610	202,478	150	2,141	6	728	728	776	202,504	6	274	0	0	0	4
4	2589.45	398,513	200,917	166	2,195	7	807	807	785	200,921	6	269	0	0	0	5
5	2589.12	395,330	199,312	178	2,242	6	821	821	821	199,316	7	286	0	0	0	6
6	2588.81	392,351	197,810	145	2,185	6	834	834	828	197,808	6	279	0	0	0	7
7	2588.49	389,290	196,267	184	2,182	6	829	829	824	196,260	7	270	0	0	0	8
8	2588.17	386,238	194,728	154	2,187	7	809	809	816	194,728	6	267	0	0	0	9
9	2587.85	383,199	193,196	166	2,170	6	810	810	795	193,181	7	275	0	0	0	10
10	2587.54	380,265	191,717	133	2,107	6	767	767	750	191,685	5	261	0	0	0	11
11	2587.21	377,158	190,151	120	2,114	6	674	674	693	190,138	5	244	0	0	0	12
12	2586.90	374,247	188,683	119	1,979	7	637	637	664	188,697	5	180	0	0	0	13
13	2586.63	371,722	187,410	135	1,813	6	681	681	657	187,400	6	126	0	0	0	14
14	2586.37	369,299	186,188	157	1,710	6	651	651	646	186,173	7	126	0	0	0	15
15	2586.11	366,884	184,971	153	1,665	6	607	607	611	184,960	7	134	0	0	0	16
16	2585.87	364,661	183,850	156	1,534	6	575	575	588	183,852	7	125	0	0	0	17
17	2585.61	362,251	182,640	127	1,658	6	581	581	561	182,622	6	141	0	0	0	18
18	2585.31	359,502	181,249	107	1,803	7	526	526	559	181,264	5	168	0	0	0	19
19	2585.02	356,844	179,909	129	1,776	6	571	571	540	179,893	6	156	0	0	0	20
20	2584.73	354,199	178,575	112	1,739	6	523	523	556	178,592	5	151	0	0	0	21
21	2584.46	351,743	177,337	131	1,676	6	549	549	549	177,328	6	121	0	0	0	22
22	2584.20	349,387	176,149	134	1,597	6	549	549	539	176,130	6	102	0	0	0	23
23	2583.94	347,038	174,965	142	1,528	6	492	492	501	174,955	7	99	0	0	0	24
24	2583.69	344,788	173,831	127	1,463	6	464	464	464	173,823	6	105	0	0	0	25
25	2583.45	342,635	172,745	129	1,390	6	439	439	450	172,748	6	88	0	0	0	26
26	2583.21	340,489	171,663	119	1,405	6	448	448	447	171,665	6	67	0	0	0	27
27	2582.97	338,350	170,585	122	1,405	6	455	455	448	170,580	6	68	0	0	0	28
28	2582.74	336,306	169,554	122	1,344	6	441	441	444	169,552	6	70	0	0	0	29
29	2582.54	334,533	168,660	109	1,217	5	437	437	428	168,649	5	67	0	0	0	30
30	2582.35	332,854	167,814	115	1,129	6	404	404	415	167,814	5	79	0	0	0	31
31	2582.16	331,180	166,970	103	1,115	6	380	380	380	166,970	5	77	0	0	0	32
TOTAL				4,249	54,678	189	19,182	19,182	19,182	166,970	185	5,192	0	0	0	33
TOTAL				8,428	108,452	375	38,047	38,047	38,047	331,180	367	10,298	0	0	0	34

Date: September 16, 1997

By: 



WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
August	1-31	2	BWSD FLOW - VIA KDWD	Includes 562 s.f.d. (1,115 acre-feet) of 1997 SWP Exchange; 417 s.f.d. (827 acre-feet) of 1988 SWP Exchange Payback; 634 s.f.d. (1,257 acre-feet) of 1990 SWP Exchange Payback.
August	1	2	BWSD FLOW - VIA ARVIN-EDISON TURNOUT	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Arvin-Edison Water Storage District Kern River Water Purchase Agreement dated July 25, 1997.

1997 APRIL - JULY UNIMPAIRED RUNOFF  
Central Valley Streams

April-July Flows  
in 1000 Acre-feet

Watershed	(1) 50-Year Average	Median Forecast as of				(2) 1997 Actual	% of Average
		Feb. 1	Mar. 1	Apr. 1	May 1		
Sacramento River above Bend Bridge	2,451	2,580	2,380	2,030	1,720	1,720	70%
Feather River at Oroville Reservoir	1,831	2,200	1,780	1,320	1,220	1,112	61%
Yuba River at Smartville	1,029	1,360	1,180	940	800	739	72%
American River at Folsom Reservoir	1,261	1,960	1,660	1,220	1,050	907	72%
Cosumnes River at Michigan Bar	128	200	160	110	60	50	39%
Mokelumne River at Pardee Reservoir	459	700	600	480	410	359	78%
Stanislaus River at Melones Reservoir	699	1,050	900	700	640	562	80%
Tuolumne River at Don Pedro Reservoir	1,184	1,950	1,680	1,300	1,200	1,254	106%
Merced River at Lake McClure	611	1,050	900	700	650	606	99%
San Joaquin River at Millerton Lake	1,212	2,200	1,900	1,600	1,440	1,292	107%
Kings River at Pine Flat Reservoir	1,183	2,120	1,850	1,570	1,450	1,341	113%
Kaweah River at Terminus Reservoir	276	520	470	360	320	283	103%
Tule River at Success Reservoir	59	120	105	70	55	51	86%
<b>KERN RIVER AT ISABELLA RESERVOIR</b>	<b>442</b>	<b>880</b>	<b>770</b>	<b>600</b>	<b>550</b>	<b>562</b>	<b>127%</b>

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

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

Quantities in S.F.D. except where noted

SEPTEMBER 1997

REPORT OF THE KERN RIVER WATERMASTER

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE TOTAL	KERN COUNTY RECREATION POOL LOSS	SECOND POINT GROUP FLOW			FRIANT-KERN INFLOW	DAY
		ACRE-FEET	S.F.D.				+1ST POINT	+FLOW ABOVE 1ST POINT				KERN RIVER	FRIANT-KERN			
Previous Day	2582.16	331,180	166,970	103	1,115	6	380	380	380	166,970	151,752	5	77	0	0	1
1	2581.95	329,335	166,040	110	1,210	5	395	395	395	166,040	150,822	5	63	0	0	2
2	2581.77	327,756	165,244	68	1,241	6	519	519	519	165,244	150,026	3	78	0	0	3
3	2581.72	327,320	165,024	61	1,196	6	1,043	1,043	1,043	165,024	149,806	3	73	0	0	4
4	2581.59	326,183	164,451	112	1,149	5	693	693	693	164,451	149,233	6	47	0	0	5
5	2581.44	324,876	163,792	103	1,112	5	561	544	544	163,775	148,557	5	43	0	0	6
6	2581.31	323,743	163,221	118	958	6	511	491	491	163,184	147,966	6	31	0	0	7
7	2581.15	322,353	162,520	115	981	5	400	427	427	162,510	147,292	6	27	0	0	8
8	2580.95	320,621	161,647	131	1,105	5	368	394	394	161,663	146,445	7	25	0	0	9
9	2580.76	318,977	160,818	118	1,120	5	414	400	400	160,820	145,602	6	0	0	0	10
10	2580.56	317,254	159,949	140	1,143	5	419	401	401	159,933	144,715	7	0	0	0	11
11	2580.35	315,450	159,039	117	1,158	6	371	396	396	159,048	143,830	6	11	0	0	12
12	2580.17	313,908	158,262	70	1,101	5	399	388	388	158,260	143,042	4	0	0	0	13
13	2580.03	312,710	157,658	116	876	5	393	379	379	157,642	142,424	6	0	0	0	14
14	2579.89	311,517	157,057	113	828	5	345	333	333	157,029	141,811	6	0	0	0	15
15	2579.72	310,071	156,328	103	882	6	262	308	308	156,346	141,128	6	0	0	0	16
16	2579.56	308,711	155,642	84	915	5	318	311	311	155,653	140,435	5	0	0	0	17
17	2579.41	307,441	155,002	90	897	5	352	330	330	154,991	139,773	5	0	0	0	18
18	2579.27	306,256	154,404	87	826	5	320	325	325	154,398	139,180	5	0	0	0	19
19	2579.12	304,991	153,766	127	810	5	304	336	336	153,792	138,574	7	0	0	0	20
20	2579.01	304,064	153,299	81	764	6	384	358	358	153,299	138,081	4	0	0	0	21
21	2578.90	303,141	152,834	96	749	5	385	379	379	152,828	137,610	5	0	0	0	22
22	2578.79	302,217	152,368	93	737	5	369	366	366	152,359	137,141	5	0	0	0	23
23	2578.66	301,128	151,819	89	797	5	342	358	358	151,826	136,608	5	0	0	0	24
24	2578.53	300,040	151,270	126	782	5	364	389	389	151,302	136,084	7	0	0	0	25
25	2578.44	299,290	150,892	55	777	5	459	427	427	150,892	135,674	3	0	0	0	26
26	2578.37	298,706	150,598	74	754	5	539	539	539	150,598	135,380	4	0	0	0	27
27	2578.31	298,206	150,346	77	721	6	552	552	552	150,346	135,128	4	0	0	0	28
28	2578.24	297,625	150,053	77	689	5	478	464	464	150,039	134,821	4	0	0	0	29
29	2578.14	296,793	149,633	92	760	5	437	451	451	149,633	134,415	5	0	0	0	30
30	2578.03	295,879	149,172	76	812	5	432	432	432	149,172	133,954	4	23	0	0	
<b>TOTAL SECOND FOOT DAYS</b>				2,919	27,850	157	13,128	13,128	13,128	149,172	133,954	154	410	0	0	
<b>TOTAL ACRE-FEET</b>				5,790	55,240	311	26,039	26,039	26,039	295,879	265,695	305	813	0	0	

By:  Date: October 20, 1997

REPORT OF THE KERN RIVER WATERMASTER

NORTH KERN WATER STORAGE DISTRICT

BUENA VISTA WATER STORAGE DISTRICT

HACIENDA WATER DISTRICT

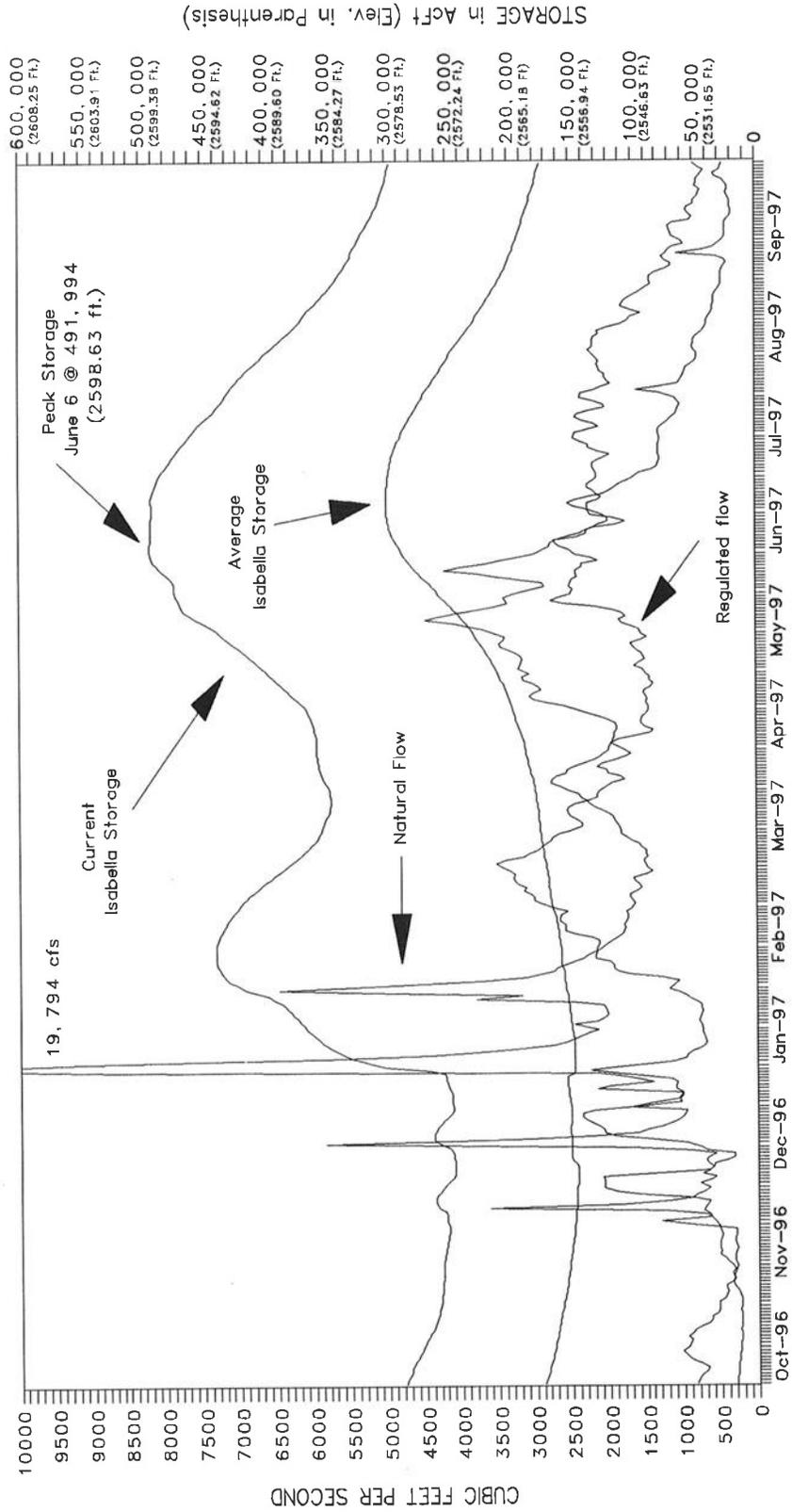
DAY	ENTL AT 1ST POINT	FLOW AT 1ST POINT	VALLEY LAKE MING COURSE	RESERVOIR LOSS STORAGE	ENTL AT 1ST POINT	VIA KDW	VIA CWD	VIA ID4	FOR A-EWSD	FOR ID4	VIA NKWSD	AT 2ND POINT	OLCESE WD	RESERVOIR LOSS STORAGE	FLOW FOR ID4	FLOW ABOVE FIRST POINT	OLCESE WD	RESERVOIR LOSS STORAGE	FLOW ABOVE FIRST POINT	OLCESE WD	RESERVOIR LOSS STORAGE	DAY																																														
																							FLOW ABOVE FIRST POINT	OLCESE WD	RESERVOIR LOSS STORAGE	FLOW ABOVE FIRST POINT	OLCESE WD	RESERVOIR LOSS STORAGE																																								
1	355	429	2	0	49	72,190	25	134	301	36	0	77	4	38	55,369	0	0	0	0	0	16	24,193																																														
2	395	596	1	1	53	71,934	0	139	221	158	0	63	3	40	54,712	0	0	0	0	0	17	24,176																																														
3	519	609	2	0	34	71,808	0	151	199	164	0	78	3	24	54,053	0	0	1	10	0	17	24,165																																														
4	1,043	587	2	1	30	72,231	0	144	194	166	0	73	3	22	53,419	0	0	0	0	0	9	24,156																																														
5	693	589	1	0	56	72,278	0	118	197	172	0	47	3	39	52,817	0	0	1	17	0	17	24,138																																														
6	544	591	2	0	51	72,178	0	109	190	152	0	43	3	36	52,257	0	0	0	0	0	16	24,122																																														
7	491	523	2	0	59	72,085	0	104	140	56	81	31	3	41	51,778	0	0	1	18	0	18	24,103																																														
8	427	580	1	1	57	71,873	0	105	35	67	150	27	3	40	51,394	0	0	0	0	0	18	24,085																																														
9	394	644	2	0	66	71,555	0	116	28	114	150	25	2	45	50,826	0	0	1	20	0	18	24,064																																														
10	400	695	1	1	60	71,198	0	115	23	111	150	0	3	40	50,358	0	0	0	0	0	18	24,046																																														
11	401	725	2	0	70	70,802	0	104	28	110	150	0	3	48	49,889	0	0	0	0	0	22	24,024																																														
12	396	738	1	1	59	70,399	0	100	33	111	150	0	3	40	49,426	0	0	1	18	0	18	24,005																																														
13	388	661	2	0	35	70,089	0	104	72	77	150	0	3	24	48,959	0	0	0	0	0	11	23,994																																														
14	379	448	1	0	59	69,960	0	94	96	0	150	60	3	39	48,489	0	0	1	18	0	18	23,975																																														
15	333	392	2	0	57	69,842	0	97	53	0	150	112	0	38	48,012	0	0	0	0	0	18	23,957																																														
16	308	443	1	1	53	69,652	0	100	57	0	150	112	0	34	47,536	0	0	1	16	0	16	23,940																																														
17	311	486	2	0	43	69,432	0	93	6	0	150	112	0	28	47,076	0	0	0	0	0	13	23,927																																														
18	330	464	1	0	46	69,251	0	95	0	0	188	112	0	30	46,610	0	0	1	14	0	14	23,912																																														
19	325	405	2	0	44	69,125	0	93	0	0	180	112	0	29	46,160	0	0	3	0	0	14	23,895																																														
20	336	388	1	1	64	69,007	0	97	0	0	173	112	0	42	45,696	0	0	3	0	0	21	23,871																																														
21	358	339	2	0	42	68,982	0	99	0	0	179	112	0	26	45,245	0	0	3	1	13	23,854																																															
22	379	342	1	1	49	68,968	0	97	0	20	144	112	0	31	44,817	10	0	3	0	16	23,825																																															
23	366	372	2	0	48	68,912	0	100	0	87	0	112	0	30	44,456	34	0	3	0	15	23,773																																															
24	358	405	1	1	46	68,817	0	103	0	135	0	112	0	28	44,047	11	0	2	1	15	23,744																																															
25	389	453	2	0	65	68,686	0	104	0	136	0	52	0	40	43,692	14	0	3	0	21	23,706																																															
26	427	480	1	0	29	68,603	0	113	0	147	0	0	0	17	43,399	21	0	3	1	9	23,672																																															
27	539	470	2	0	39	68,631	0	87	0	166	0	0	0	23	43,110	18	0	3	0	12	23,639																																															
28	552	450	1	1	40	68,691	0	78	0	172	0	0	0	24	42,830	15	0	3	1	13	23,607																																															
29	464	415	2	0	40	68,698	0	75	0	167	0	0	0	24	42,555	23	0	3	0	13	23,568																																															
30	451	470	1	0	48	68,630	0	85	0	161	0	0	0	29	42,253	17	0	3	1	15	23,532																																															
31	432	489	2	0	39	68,532	0	85	0	175	0	23	0	24	41,918	12	0	3	0	13	23,504																																															
S.F.D.	13,128	15,249	46	10	1,481	68,532	0	799	3,104	1,572	2,824	2,485	1,292	410	50	975	41,918	175	38	13	463	23,504 S.F.D.																																														
AC.FT.	26,039	30,247	91	19	2,938	135,933	0	1,584	6,156	3,118	5,602	4,929	2,444	813	100	1,934	83,143	347	75	26	918	46,619 AC.FT.																																														
TOTAL ACRE-FOOT STORAGE DAYS																						4,166,971	TOTAL ACRE-FOOT STORAGE DAYS																						2,831,858	TOTAL ACRE-FOOT STORAGE DAYS																						1,422,106

WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
September	6-21	2	BWSD FLOW - ARVIN-EDISON WSD (FOR ID4)	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Improvement District No. 4 Kern River/Friant-Kern Exchange Agreement dated September 10, 1997.
September	13-24	2	BWSD FLOW - ARVIN-EDISON WSD (VIA NKWSD)	Delivered as per terms of NORTH KERN WATER STORAGE DISTRICT/BUENA VISTA WATER STORAGE DISTRICT 1997 Fall Exchange Agreement dated September 15, 1997.

KERN RIVER NATURAL FLOW, REGULATED FLOW, & ISABELLA RESERVOIR STORAGE

1996-1997 WATER YEAR



REPORT OF THE KERN RIVER WATERMASTER

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED NATURAL FLOW	MEAN TOTAL	STORAGE		KERN RECREATION POOL LOSS	SECOND POINT GROUP FLOW		FRIANT-KERN INFLOW	DAY
		MIDNIGHT STORAGE	S.F.D.				+1ST POINT	1ST POINT			IRRIGATION	DEAD STORAGE		RIVER	FRIANT-KERN		
Previous Day	2578.03	295,879	149,172	76	812	5	432	432	432	149,172	133,954	4	23	0	0	0	1
1	2577.90	294,804	148,630	117	828	4	407	407	407	148,630	133,412	7	29	0	0	0	2
2	2577.77	293,728	148,088	114	797	4	373	373	372	148,087	132,869	7	27	0	0	0	3
3	2577.68	292,987	147,714	65	676	4	371	355	348	147,697	132,479	4	23	0	0	0	4
4	2577.61	292,409	147,423	91	518	4	322	320	320	147,432	132,214	5	34	0	0	0	5
5	2577.56	291,987	147,215	87	469	4	352	320	320	147,192	131,974	5	32	0	0	0	6
6	2577.49	291,422	146,925	97	474	4	285	299	299	146,916	131,698	6	31	0	0	0	7
7	2577.43	290,929	146,677	42	461	4	259	286	286	146,695	131,477	2	26	0	0	0	8
8	2577.37	290,436	146,428	68	490	4	313	284	284	146,417	131,199	4	32	0	0	0	9
9	2577.30	289,861	146,138	94	472	4	280	317	317	146,164	130,946	6	51	0	0	0	10
10	2577.23	289,289	145,850	113	528	4	357	334	334	145,853	130,635	7	31	0	0	0	11
11	2577.19	288,961	145,685	3	523	3	364	367	367	145,691	130,473	0	52	0	0	0	12
12	2577.14	288,551	145,478	45	539	4	381	391	391	145,494	130,276	3	54	0	0	0	13
13	2577.08	288,060	145,230	77	595	4	428	397	397	145,215	129,997	5	34	0	0	0	14
14	2577.00	287,408	144,902	54	652	4	382	393	393	144,898	129,680	3	46	0	0	0	15
15	2576.91	286,674	144,532	74	661	4	369	371	371	144,530	129,312	4	56	0	0	0	16
16	2576.82	285,940	144,161	71	658	3	361	368	368	144,166	128,948	4	55	0	0	0	17
17	2576.74	285,291	143,834	74	622	4	373	364	364	143,830	128,612	4	55	0	0	0	18
18	2576.66	284,640	143,506	71	611	3	357	348	348	143,493	128,275	4	55	0	0	0	19
19	2576.56	283,828	143,097	77	643	4	315	331	331	143,100	127,882	5	55	0	0	0	20
20	2576.46	283,020	142,689	73	652	4	321	328	328	142,689	127,481	4	56	0	0	0	21
21	2576.37	282,291	142,322	67	645	4	349	311	311	142,294	127,076	4	65	0	0	0	22
22	2576.26	281,402	141,874	64	644	4	264	295	295	141,877	126,659	4	67	0	0	0	23
23	2576.16	280,597	141,468	82	592	3	271	295	295	141,495	126,277	5	66	0	0	0	24
24	2576.03	279,550	140,940	60	814	4	350	317	317	140,934	125,716	4	67	0	0	0	25
25	2575.85	278,106	140,212	48	1,006	3	329	331	331	140,208	124,980	3	68	0	0	0	26
26	2575.66	276,586	139,446	50	1,027	4	315	319	319	139,446	124,228	3	67	0	0	0	27
27	2575.48	275,150	138,722	44	988	4	312	319	319	138,729	123,511	3	65	0	0	0	28
28	2575.32	273,876	138,079	56	914	4	331	324	324	138,079	122,861	4	65	0	0	0	29
29	2575.15	272,527	137,399	59	947	3	329	343	343	137,413	122,195	4	66	0	0	0	30
30	2574.98	271,182	136,721	59	985	4	370	356	356	136,721	121,503	4	64	0	0	0	31
31	2574.84	270,076	136,163	31	884	3	360	360	360	136,163	120,945	2	51	0	0	0	32
TOTAL SECOND FOOT DAYS				2,127	21,315	117	10,550	10,550	10,550	136,163	120,945	129	1,545	0	0	0	0
TOTAL ACRE-FEET				4,219	42,278	232	20,926	20,926	20,926	270,076	239,892	256	3,064	0	0	0	0

Date: November 19, 1987

By: 



REPORT OF THE KERN RIVER WATERMASTER

OCTOBER 1997

WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
October	1	2	HACIENDA WD RESERVOIR STORAGE NORTH KERN WSD RESERVOIR STORAGE	Reflects transfer of 2,524 acre-feet (1,273 s.f.d.) from HACIENDA WATER DISTRICT to NORTH KERN WATER STORAGE DISTRICT to complete delivery terms of Hacienda WD/ Rosedale Rio Bravo WSD 1997 Water Exchange Agreement dated May 14, 1997.
October	23	2	HACIENDA WD RESERVOIR STORAGE NORTH KERN WSD RESERVOIR STORAGE	Reflects transfer of 604 acre-feet (304 s.f.d.) from HACIENDA WATER DISTRICT to NORTH KERN WATER STORAGE DISTRICT (City of Bakersfield) pursuant to terms of Bravo Management Company, Inc. letter dated October 14, 1997 and City of Bakersfield/ Westside Mutual Water Company Transfer and Exchange Agreement dated October 29, 1997.

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

1996 - 1997 WATER YEAR

Quantities in acre-feet

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
+ Kern River Natural Flow	15,788	40,903	86,438	246,022	104,771	120,448	142,909	214,290	142,358	71,919	38,047	26,039	1,249,932
- Isabella Reservoir Evaporation	4,019	2,053	1,139	918	1,862	3,183	4,350	7,260	8,057	8,941	8,428	5,790	56,000
- Into Isabella Storage	0	0	3,255	181,736	0	0	42,311	85,801	532	0	0	0	313,635
+ From Isabella Storage	32,048	6,456	0	0	39,986	41,638	0	0	0	71,178	79,208	35,302	305,816
Kern River via Kern River/ California Aqueduct Intertie	0	0	0	0	1,793	0	0	0	0	0	0	0	1,793
Monthly Absorption within Kern River Service Area	43,817	45,306	82,044	63,368	141,102	158,903	96,248	121,229	133,769	134,156	108,827	55,551	1,184,320
Accumulative Absorption within Kern River Service Area	43,817	89,123	171,167	234,535	375,637	534,540	630,788	752,017	885,786	1,019,942	1,128,769	1,184,320	

REPORT OF THE KERN RIVER WATERMASTER

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED NATURAL FLOW	MEAN TOTAL	STORAGE		KERN COUNTY RECREATION POOL LOSS	SECOND POINT GROUP FLOW AT 2ND POINT		FRIANT-KERN INFLOW	DAY
		MIDNIGHT STORAGE	S.F.D.				IRRIGATION	Dead Storage			RIVER	KERN					
Previous Day	2574.84	270,076	136,163	31	884	3	360	360	360	136,163	120,945	0	2	51	0	0	0
1	2574.74	269,289	135,767	48	716	2	370	349	349	135,746	120,528	0	3	5	0	0	1
2	2574.63	268,423	135,330	51	691	2	307	332	332	135,334	120,116	0	3	0	0	0	2
3	2574.50	267,403	134,816	54	777	1	318	309	309	134,811	119,593	0	4	0	0	0	3
4	2574.36	266,306	134,263	35	818	2	302	306	306	134,262	119,044	0	2	0	0	0	4
5	2574.21	265,134	133,672	50	838	1	298	296	296	133,669	118,451	0	3	0	0	0	5
6	2574.06	263,964	133,082	53	824	2	289	304	304	133,094	117,876	0	4	0	0	0	6
7	2573.91	262,798	132,494	59	853	2	326	315	315	132,495	117,277	0	4	0	0	0	7
8	2573.76	261,633	131,907	47	867	2	329	332	332	131,911	116,693	0	3	0	0	0	8
9	2573.62	260,551	131,361	34	852	1	341	337	337	131,361	116,143	0	2	0	0	0	9
10	2573.50	259,625	130,894	37	882	1	453	453	453	130,894	115,676	0	3	0	0	0	10
11	2573.38	258,700	130,428	17	861	2	414	390	390	130,404	115,186	0	1	0	0	0	11
12	2573.24	257,824	129,886	31	850	2	414	383	383	129,904	114,686	0	2	0	0	0	12
13	2573.11	256,826	129,382	25	871	2	394	386	386	129,392	114,174	0	2	0	0	0	13
14	2572.99	255,708	128,920	16	869	1	424	407	407	128,913	113,695	0	1	0	0	0	14
15	2572.86	254,714	128,418	34	869	1	402	400	400	128,409	113,191	0	2	0	0	0	15
16	2572.74	253,801	127,958	9	823	2	374	381	381	127,956	112,738	0	1	0	0	0	16
17	2572.63	252,963	127,536	6	782	1	367	355	355	127,522	112,304	0	0	0	0	0	17
18	2572.51	252,051	127,076	18	765	1	324	358	358	127,096	111,878	0	1	0	0	0	18
19	2572.39	251,143	126,618	18	822	1	383	363	363	126,618	111,400	0	1	0	0	0	19
20	2572.32	250,612	126,350	12	836	0	580	580	580	126,350	111,132	0	1	0	0	0	20
21	2572.21	249,783	125,932	24	849	1	456	443	443	125,919	110,701	0	2	0	0	0	21
22	2572.09	248,877	125,476	15	857	1	417	422	422	125,468	110,250	0	1	0	0	0	22
23	2571.96	247,900	124,983	30	855	0	392	401	401	124,984	109,766	0	2	0	0	0	23
24	2571.84	246,999	124,529	30	817	1	394	399	399	124,535	109,317	0	2	0	0	0	24
25	2571.75	246,326	124,189	15	734	1	410	404	404	124,189	108,971	0	1	0	0	0	25
26	2571.72	246,101	124,076	3	692	0	582	582	582	124,076	108,858	0	0	0	0	0	26
27	2571.70	245,951	124,000	12	614	1	551	551	551	124,000	108,762	0	1	0	0	0	27
28	2571.66	245,652	123,850	6	603	0	459	465	465	123,856	108,638	0	0	0	0	0	28
29	2571.62	245,352	123,698	20	607	1	476	470	470	123,698	108,480	0	1	0	0	0	29
30	2571.59	245,128	123,585	3	590	0	480	480	480	123,585	108,367	0	0	0	0	0	30
<b>TOTAL SECOND FOOT DAYS</b>				812	23,684	35	11,953	11,953	11,953	123,585	108,367	0	53	5	0	0	0
<b>TOTAL ACRE-FEET</b>				1,611	46,977	70	23,708	23,708	23,708	245,128	214,944	0	105	10	0	0	0

By:  Date: December 16, 1997

REPORT OF THE KERN RIVER WATERMASTER

NOVEMBER 1997

Quantities in S.F.D. except where noted

NORTH KERN WATER STORAGE DISTRICT

BUENA VISTA WATER STORAGE DISTRICT

HACIENDA WATER DISTRICT

Previous Day	FLOW ABOVE FIRST POINT				FLOW				FLOW ABOVE FIRST POINT				RESERVOIR STORAGE				ENTITLEMENT				FLOW ABOVE FIRST POINT														
	ENTL AT 1ST	FLOW AT 1ST	LAKE	VALLEY	ENTL AT 1ST	VIA	KWD	CWD	VIA	AT 2ND	WATER	OLCESE	WD	RESERVOIR	LOSS	STORAGE	CONTRIBUTED BY	FOR	WD	OLCESE	WD	INC.	RESERVOIR	LOSS	STORAGE	DAY									
360	553	1	0	0	18	69,696	0	0	25	51	0	0	9	35,313	253	2	0	0	2	0	0	0	4	15,936	1										
1	349	1	0	0	28	69,473	0	0	47	5	0	0	14	35,247	121	1	0	0	1	0	0	0	6	15,808	1										
2	332	1	0	0	30	69,232	0	0	48	0	0	0	15	35,184	101	1	0	0	1	0	0	0	6	15,700	2										
3	309	1	0	0	31	68,941	0	0	49	0	0	0	16	35,119	160	0	0	0	0	0	0	0	7	15,533	3										
4	306	1	0	0	21	68,573	0	0	39	0	0	0	10	35,070	127	1	0	0	1	0	0	0	4	15,401	4										
5	296	0	0	0	29	68,154	0	0	47	0	0	0	15	35,008	105	1	0	0	1	0	0	0	6	15,289	5										
6	304	1	0	0	32	67,745	0	0	45	0	0	0	15	34,948	99	1	0	0	1	0	0	0	6	15,183	6										
7	315	1	0	0	35	67,338	0	0	45	0	0	0	17	34,886	122	1	0	0	1	0	0	0	7	15,053	7										
8	332	1	0	0	27	66,946	0	0	44	0	0	0	14	34,828	127	1	0	0	1	0	0	0	6	14,919	8										
9	337	1	0	0	20	66,572	0	0	45	0	0	0	10	34,773	117	0	0	0	0	0	0	0	4	14,798	9										
10	453	0	0	0	22	66,291	0	0	48	0	0	0	11	34,714	122	1	0	0	1	0	0	0	4	14,671	10										
11	390	1	0	0	10	65,974	0	0	48	0	0	0	5	34,661	117	1	0	0	1	0	0	0	2	14,551	11										
12	383	1	0	0	18	65,646	0	0	47	0	0	0	9	34,605	111	1	0	0	1	0	0	0	4	14,435	12										
13	386	1	0	0	15	65,340	0	0	43	0	0	0	7	34,555	152	1	0	0	1	0	0	0	3	14,279	13										
14	407	0	0	0	9	65,034	0	0	39	0	0	0	5	34,511	126	1	0	0	1	0	0	0	2	14,150	14										
15	400	1	0	0	20	64,619	0	0	41	0	0	0	10	34,460	34	0	0	0	0	0	0	0	4	14,112	15										
16	381	1	0	0	5	64,297	0	0	39	0	0	0	3	34,418	87	1	0	0	1	0	0	0	1	14,023	16										
17	355	0	0	0	3	63,944	0	0	39	0	0	0	2	34,377	38	1	0	0	1	0	0	0	1	13,983	17										
18	358	1	0	0	11	63,574	0	0	19	0	0	0	5	34,351	28	0	0	0	0	0	0	0	2	13,953	18										
19	363	1	0	0	11	63,190	0	0	18	0	0	0	5	34,318	59	0	0	0	0	0	0	0	2	13,892	19										
20	580	771	0	0	7	62,952	0	0	18	0	0	0	4	34,286	37	0	0	0	0	0	0	0	1	13,854	20										
21	443	809	1	0	14	62,611	0	0	19	0	0	0	7	34,250	11	0	0	0	0	0	0	0	3	13,840	21										
22	422	817	1	0	8	62,207	0	0	18	0	0	0	5	34,218	13	0	0	0	0	0	0	0	2	13,825	22										
23	401	825	0	0	17	61,766	0	0	11	19	0	0	9	34,179	0	0	0	0	0	0	0	0	4	13,821	23										
24	399	781	1	0	17	61,366	0	0	2	18	0	0	9	34,150	16	0	0	0	0	0	0	0	4	13,801	24										
25	404	706	1	0	8	61,055	0	0	0	18	0	0	5	34,127	10	0	0	0	0	0	0	0	2	13,789	25										
26	582	588	0	0	2	61,047	0	0	18	0	0	0	1	34,108	86	0	0	0	0	0	0	0	0	0	13,703	26									
27	551	542	1	0	7	61,048	0	0	1	0	0	0	4	34,103	71	0	0	0	0	0	0	0	1	13,631	27										
28	465	544	0	0	3	60,966	0	0	0	0	0	0	2	34,101	59	0	0	0	0	0	0	0	1	13,571	28										
29	470	548	1	0	12	60,875	0	0	0	0	0	0	6	34,095	59	0	0	0	0	0	0	0	2	13,510	29										
30	470	522	0	0	2	60,831	0	0	5	19	0	0	1	34,070	44	0	0	0	0	0	0	0	0	0	13,466	30									
S.F.D.	11,953	20,323	21	0	474	60,831	0	0	59	938	5	0	241	34,070	2,359	14	0	0	14	0	0	0	97	13,466	S.F.D.										
AC.F.T.	23,708	40,310	42	0	941	120,658	0	0	117	1,861	10	0	478	67,577	4,679	28	0	0	28	0	0	0	192	26,709	AC.F.T.										
TOTAL ACRE-FOOT STORAGE DAYS												TOTAL ACRE-FOOT STORAGE DAYS												TOTAL ACRE-FOOT STORAGE DAYS											
3,843,264												2,054,320												853,971											

MONTH DAY(S) PAGE NO. TITLE OF COLUMN COMMENT

November

None

None

**KERN RIVER BASIN**  
**AVERAGE SNOWPACK ACCUMULATION**  
TELEMETERED SNOW SENSOR SITES

SITE	ELEVATION	SNOW WATER CONTENT IN INCHES									
		NOV. 1	DEC. 1	JAN. 1	FEB. 1	MAR. 1	APR. 1	MAY 1			
Upper Tyndall Creek	11,450	0.0	4.1	9.7	20.7	24.9	27.7	22.7			
Crabtree Meadow	10,700	0.0	2.9	7.0	14.8	17.8	19.8	16.3			
Chagoopa Plateau	10,300	0.0	3.3	7.7	16.4	19.6	21.8	17.9			
Pascoe	9,150	0.0	3.8	8.7	18.7	22.4	24.9	20.4			
Wet Meadow	8,950	0.0	4.6	10.6	22.8	27.2	30.3	24.9			
Tunnel Guard Station	8,950	0.0	2.3	5.5	11.7	14.0	15.6	12.8			
Casa Vieja Meadow	8,400	0.0	4.1	8.4	17.2	20.3	20.9	15.6			
Beach Meadow	7,650	0.0	2.2	4.4	9.0	10.6	11.0	8.3			
Basin-Wide Weighted Average		0.0	3.4	7.8	16.5	19.7	21.6	17.5			

REPORT OF THE KERN RIVER WATERMASTER

DAY	ELEVATION (FEET)	ISABELLA MIDNIGHT STORAGE		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN TOTAL	STORAGE IRRIGATION	KERN COUNTY RECREATION POOL LOSS		SECOND POINT GROUP FLOW AT 2ND POINT		FRONT - KERN INFLOW	DAY
		ACRE- FEET	S.F.D.				STORAGE +1ST POINT +FLOW ABOVE 1ST POINT	STORAGE -1ST POINT				RECREATION	POOL LOSS	RIVER	KERN		
Previous Day	2571.59	245,128	123,585	3	590	0	480	480	480	123,585	108,367	0	0	0	0	0	0
1	2571.56	244,904	123,473	3	566	1	458	458	458	123,473	108,255	0	0	0	0	0	1
2	2571.55	244,829	123,435	9	474	0	445	441	441	123,431	108,213	1	0	0	0	0	2
3	2571.54	244,755	123,397	35	435	1	433	436	436	123,396	108,178	3	0	0	0	0	3
4	2571.53	244,680	123,360	40	426	0	429	495	495	123,425	108,207	3	0	0	0	0	4
5	2571.57	244,979	123,510	3	470	1	624	559	559	123,510	108,292	0	0	0	0	0	5
6	2571.60	245,203	123,623	43	515	0	671	671	671	123,623	108,405	3	0	0	0	0	6
7	2571.62	245,352	123,698	58	497	1	631	631	631	123,698	108,480	4	0	0	0	0	7
8	2571.71	246,026	124,038	3	489	0	832	832	832	124,038	108,820	0	0	0	0	0	8
9	2571.74	246,251	124,152	3	486	1	604	604	604	124,152	108,934	0	0	0	0	0	9
10	2571.74	246,251	124,152	15	482	1	497	502	502	124,157	108,939	1	0	0	0	0	10
11	2571.72	246,101	124,076	49	537	1	511	498	498	124,068	108,850	4	0	0	0	0	11
12	2571.69	245,876	123,963	23	577	0	487	493	493	123,961	108,743	2	0	0	0	0	12
13	2571.66	245,652	123,850	35	559	1	482	477	477	123,843	108,625	3	0	0	0	0	13
14	2571.63	245,427	123,736	20	556	0	462	485	485	123,752	108,534	1	0	0	0	0	14
15	2571.62	245,352	123,698	6	540	1	509	493	493	123,698	108,480	0	0	0	0	0	15
16	2571.61	245,278	123,661	15	531	0	509	502	502	123,654	108,436	1	0	0	0	0	16
17	2571.58	245,054	123,548	20	580	1	488	502	502	123,555	108,337	1	0	0	0	0	17
18	2571.55	244,829	123,435	12	610	0	509	503	503	123,436	108,218	1	0	0	0	0	18
19	2571.53	244,680	123,360	17	569	0	511	501	501	123,351	108,133	1	0	0	0	0	19
20	2571.52	244,606	123,322	29	491	1	483	488	488	123,318	108,100	2	0	0	0	0	20
21	2571.51	244,531	123,284	15	493	0	470	471	471	123,281	108,063	1	0	0	0	0	21
22	2571.50	244,458	123,248	15	482	0	461	462	462	123,246	108,028	1	0	0	0	0	22
23	2571.50	244,458	123,248	26	425	2	453	455	455	123,248	108,030	2	0	0	0	0	23
24	2571.51	244,531	123,284	15	400	1	452	434	434	123,266	108,048	1	0	0	0	0	24
25	2571.51	244,531	123,284	15	382	1	398	416	416	123,284	108,066	1	0	0	0	0	25
26	2571.51	244,531	123,284	12	385	1	398	400	400	123,286	108,068	1	0	0	0	0	26
27	2571.50	244,458	123,248	9	431	1	405	395	395	123,240	108,022	1	0	0	0	0	27
28	2571.40	243,713	122,872	3	754	1	382	408	408	122,890	107,672	0	0	0	0	0	28
29	2571.30	242,969	122,497	17	793	2	437	428	428	122,506	107,288	1	0	0	0	0	29
30	2571.23	242,450	122,235	26	698	2	464	455	455	122,235	107,017	2	0	0	0	0	30
31	2571.24	242,525	122,273	12	447	1	498	498	498	122,273	107,055	1	0	0	0	0	31
<b>TOTAL SECOND FOOT DAYS</b>				603	16,080	22	15,393	15,393	15,393	122,273	107,055	43	0	0	0	0	0
<b>TOTAL ACRE- FEET</b>				1,196	31,894	44	30,532	30,532	30,532	242,565	212,341	85	0	0	0	0	0

By: 

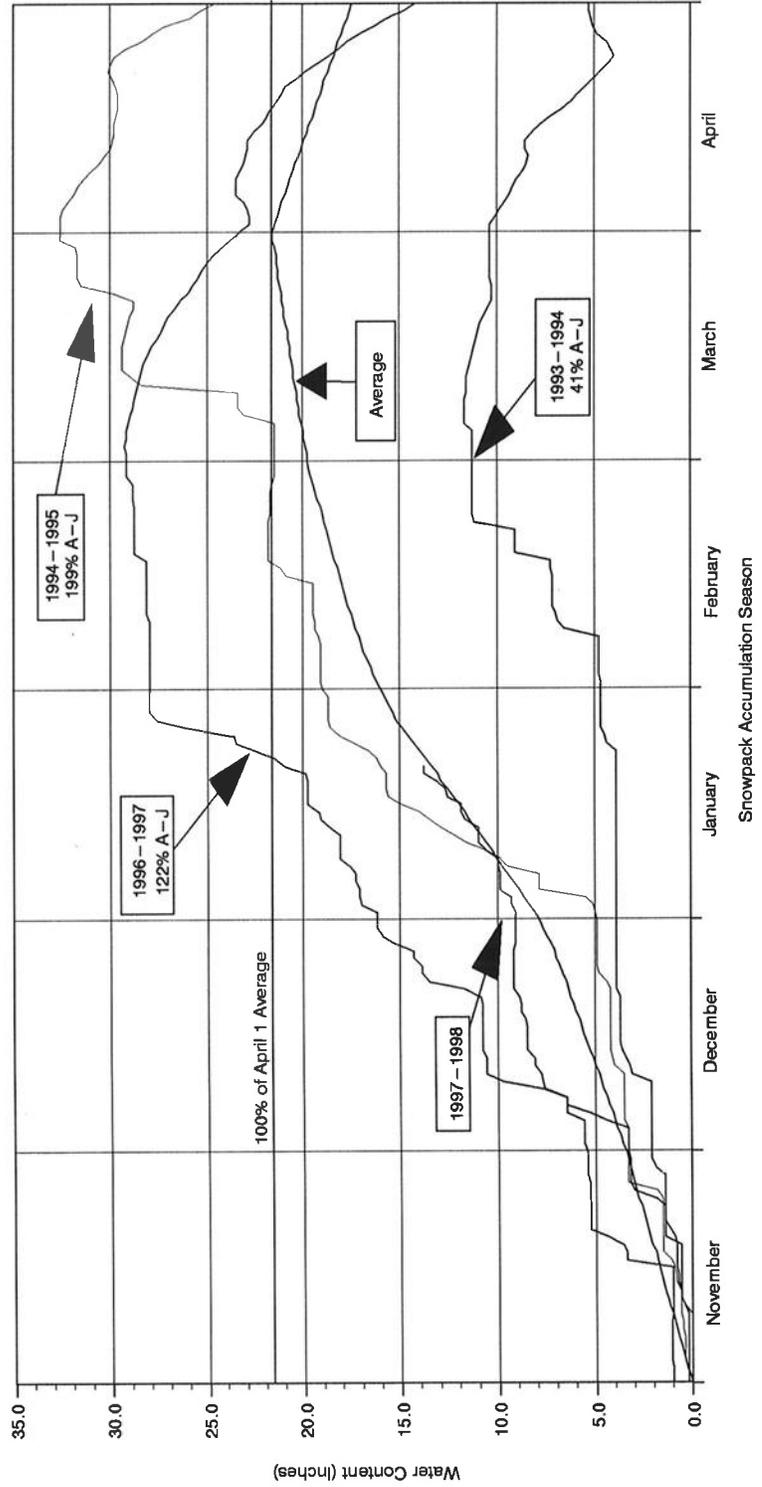
Date: January 23, 1998



WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
December	31	2	NKWSO RESERVOIR STORAGE BWWSO RESERVOIR STORAGE HACIENDA WD RESERVOIR STORAGE	Reflects transfer of 10 acre-feet (5 s.f.d.) from HACIENDA WATER DISTRICT to NORTH KERN WATER STORAGE DISTRICT and 4 acre-feet (2 s.f.d.) from HACIENDA WATER DISTRICT to BUENA VISTA WATER STORAGE DISTRICT as compensation for additional evaporation of Kern River water due to Rio Bravo Power Plant operations during calendar year 1997 pursuant to terms of May 14, 1986 Memorandum of Understanding between Olcese WD and Kern River interests. (Total of 14 acre-feet of additional evaporation; shared 75% NKWSO & 25% BWWSO)

KERN RIVER BASIN SNOWPACK ACCUMULATION  
EIGHT SENSOR INDEX  
January 21, 1998





# CITY OF BAKERSFIELD KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

DATE: January 1997 Recap

COMPUTED NATURAL FLOW AT FIRST POINT... 246022  
 LESS NON-CONTRIBUTING CANALS... 18446  
 FOR OTHERS AND FIRST POINT CANALS... 227576  
 TO BE CONTRIBUTED BY OTHER CANALS... 51935  
 TO BE USED BY OTHER CANALS... 175641  
 EACH OTHER CANAL TO RECEIVE... N/A

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563).... 2337  
 B.V.W.S.D. ENTITLEMENT..... 48922  
 SEEPAGE LOSS..... 676  
 KERN RIVER CONDUIT ENTITLEMENT..... 0  
 HACIENDA W.D. ENTITLEMENT AT FIRST POINT..... 0  
 TOTAL..... 51935

RIVER STAGE	DIVERSION RIGHT		GROSS DIVR	GROSS ENTL	To River	RELEASES		ENTITLEMENT LESS RELEASES OR PLUS DISTRIBUTED RELEASES			EXCHANGES, SALES OR PURCHASES			NET DIVERSIONS			WATER TRANS. LOSS		ISABELLA RESERVOIR		
	AMT.	NAME OF CANAL				Dirct	Pro	MWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	AKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE
300.0	300	K.C.L. Co. ENTL @ 2ND PT.	5810	2337	16647			788	1549								6	2500	6	0	2500
		EASTSIDE	315																		
		KERN RIVER CONDUIT																			
300.0	20	CASTRO		371		8	117														
		KCC&W Co.		1010		111	321		1938												
330.5	10.5	SOUTH FORK		716																	
410.5	80	BUENA VISTA (1-ST)	734	5482	4429																
500.5	120	JAMES (1-ST)	1220	8229		744	2642	2622	6993												
500.5	20	ANDERSON (1-ST)	1381			119	442	441	1501												
700.5	150	STINE	1585	10294	8705																
730.5	30	MEACHAM	2057			188	655	655	2245												
880.5	150	FARMERS	549	10294	9741																
880.5	40	FLUNKET	2745			246	861	873	2999												
880.5	40	JOYCE	2745			246	881	873	2999												
1000.5	40	JOHNSON	2745			246	881	873	2999												
1130.5	130	PIONEER (1-ST)	1523	6914		809	2861	2839	9745												
1190.5	60	BEARDSLEY (1-ST)	4120																		
		LERDO (MKWSD)	5937																		
1200.5	10	ANDERSON (2-ND)	682			65	222	217	752												
1240.5	40	JAMES & DIXON	2745			246	881	873	2999												
1290.5	10	WILSON	428			20	137														
1276.5	26	MACAFFREY	254			46	85	970													
		KCC&W Co.	2057			163	571	569	1946												
		MACCORD	2057			188	655	655	2245												
1376.5	100	BEARDSLEY 70%	4798			1484	3741	14642													
		BEARDSLEY CENTRAL 20%	2462			5947	14969	14961	50961												
2286.5	650	CALLOWAY CENTRAL 20%	8179	44306		891	869	3675													
		RAILROAD KCC&W Co. 20%	2101			3568	3523	3180	12311												
2486.5	200	AKWSD 80%	8400																		
2516.5	90	BUENA VISTA (2-ND)	4300																		
2696.5	180	JAMES (2-ND)	8091			4161	3957	1430	14779												
2866.5	170	PIONEER (2-ND)	7105			2584	3741	1051	12379												
3106.5	240	BEARDSLEY (2-ND)	9548																		
3182.5	56	KERN ISLAND (2-ND)	2122																		
		ROSEDALE RBWSD	7119																		
		TRULAN LAKES	446																		
		LAKEMING																			
		2600 ACRE SPREADING	3024																		
		BERRENDA MESA SPREADING	139																		
		PIONEER NORTH	1355																		
		BOSWELL TURNOUT	700																		
		KWB AT 2ND POINT	3276																		
		BIWSD AT 2ND POINT (F-K Exch.)	4673																		
		HACIENDA WD FOR ID4																			
		ARMW - EDISON TURNOUT	976																		
		ROSEDALE RANCH ID																			
TOTALS			16	50022	196424	65126	22080	43046	32800	154637	8987	0	10215	14078	26366	8989	0	6016	0	6016	0

TOTAL CHANGE IN STORAGE = 140408

NOTES:  
 City via Kern Island for KDWD (Misc.) = 24  
 Eastside Exch. Less (F-K Exch.) = 315  
 Lerdo (NKWSD); City to CWD (Misc.) = 38  
 James Exch. Less: (Friant - Kern Exch.) = 393  
 City via James: for KCWA (Misc.) = 325  
 City via James: for KWBA (Misc.) = 220  
 City via James: (Kern Floodwater) = 282  
 RRBWSD: City to RRBWSD = 9771  
 River Loss: City to RRBWSD (ID4) = 65  
 City via Pioneer: for KWBA (Misc.) = 885  
 City via Pioneer: (Kern Floodwater) = 636  
 2600 Acre Spreading: City to KCWA = 875  
 2800 Ac. Spdg. Exch. Plus (F-K Exch.) = 6623  
 Berrenda Mesa Spdg: City for KCWA (Misc.) = 139  
 Pioneer North: City for KCWA (Misc.) = 232  
 Pioneer North: City for KWBA (Misc.) = 889  
 Pioneer North: City for KCWA (Floodwater) = 77  
 Pioneer North: City for KWBA (Floodwater) = 157  
 Boswell Turnout: City for KWBA (Misc.) = 206  
 Boswell Turnout Exch. Less: (F-K Exch.) = 444  
 Boswell Turnout: (Kern Floodwater) = 50  
 KWB at 2nd Pt.: City for KWBA (Misc.) = 817  
 KWB at 2nd Pt. Exch. Less: (F-K Exch.) = 2164  
 KWB at 2nd Pt.: (Kern Floodwater) = 275  
 Cally: Central Exch. Less (F-K Exch.) = 625  
 NKWSD/KCC&W Co. Ent: Reflects release to City (in excess of Maximum Diversion Right) = 1581

FLOW AT FIRST POINT 16 56713 197100

# CITY OF BAKERSFIELD KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

DATE: February 1997 Recap

COMPUTED NATURAL FLOW AT FIRST POINT... 104771  
 LESS NON-CONTRIBUTING CANALS... 16661  
 FOR OTHERS AND FIRST POINT CANALS... 88110  
 TO BE CONTRIBUTED BY OTHER CANALS... 41033  
 TO BE USED BY OTHER CANALS... 47077  
 EACH OTHER CANAL TO RECEIVE... N/A

QUANTITIES IN: ACRE-Feet

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%)... 333  
 B.V.W.S.D. ENTITLEMENT... 6827  
 SEEPAGE LOSS... 611  
 KERN RIVER CONDUIT ENTITLEMENT... 0  
 HACIENDA W.D. ENTITLEMENT AT FIRST POINT... 33262  
 TOTAL... 41033

% OF ITS DIVERSION RIGHT

RIVER STAGE	DIVERSION RIGHT		GROSS		RELEASES		ENTITLEMENT LESS RELEASES		EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS		WATER TRANS. LOSS		ISABELLA RESERVOIR								
	AMT.	NAME OF CANAL	ENTL	ENTL	To RIVER	Direct	Distribution	MKWS	KCC&W Co.	KDWD	OTHER	PLUS	LESS	MKWS	KCC&W Co.	KDWD	OTHER	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE	
300.0	300	K.C.L. Co. ENTL @ 2ND PT.	333	9236	16661	333		16661			4509	674				4113		12548	2500	48	0	15000	
		EASTSIDE		682								682											
320.0	20	CASTRO	165																				
		KCC&W Co.	432																				
330.5	10.5	SOUTH FORK	319																				
410.5	80	BUENA VISTA (1-ST)	2390					2390	319		23781	24214						11240	145491	464	109602	46665	
530.5	120	JAMES (1-ST)	3574								3429	706						319	600		0	919	
590.5	20	ANDERSON (1-ST)	597															2620	1500	14	0	4106	
700.5	150	STINE	2097								2087												
730.5	30	MEACHAM	888																				
880.5	150	FARMERS	4463								2265												
980.5	40	FLANKET	1190																				
1000.5	40	JOYCE	1190																				
1130.5	130	PIONEER (1-ST)	3664																				
1190.5	60	BEARDSLEY (1-ST)	1781								14912	12151											
		LEDO (MKWS)	12069																				
1200.5	10	ANDERSON (2-ND)	294																				
1240.5	40	JAMES & DIXON	1190																				
1290.5	10	WILSON	180																				
		KCC&W Co.	113																				
1276.5	26	McCAFFREY	772																				
		LEDO 30%	888																				
		BEARDSLEY 70%	2081																				
1376.5	100	CALLOWAY CENTRAL 20%	2737																				
2226.5	650	MKWS 80%	10951																				
		RAILROAD KCC&W Co. 20%	161																				
2426.5	200	MKWS 80%	645																				
2516.5	90	BUENA VISTA (2-ND)	240																				
2696.5	180	JAMES (2-ND)	329																				
2866.5	170	PIONEER (2-ND)																					
3106.5	240	BEARDSLEY (3-RD)																					
3182.5	56	KERN ISLAND (2-ND)																					
		ROSEDALE RBWSD	12797																				
		TRUKUN LAKES	575																				
		LAKE MING																					
		KERN VALLEY GOLF COURSE	7363																				
		2800 ACRE SPREADING	1087																				
		PIONEER CENTRAL	641																				
		BERRENDA MESA SPREADING	8964																				
		PIONEER NORTH	357																				
		BOSWELL TURNABLE PUMP	926																				
		BOSWELL TURNOUT	307																				
		KWB AT 2ND POINT																					
		BWSD VIA / FOR KDWD																					
		FIRST POINT PASSING 2ND POINT	37075																				
		HMD FOR OMBILA HACIENDA	6910																				
		ARMN - EDISON TURNOUT																					
		ROSEDALE RANCH/ID	64	133230	64071	0	0	27895	3768	28207	4181	53718	53718	21387	92709	4113	40	61579	265236	1105	137045	188665	
		TOTALS	64	133230	64071	0	0	27895	3768	28207	4181	53718	53718	21387	92709	4113	40	61579	265236	1105	137045	188665	

TOTAL CHANGE IN STORAGE = -76571

NOTES:  
 Kern Island Exch. Less: from BWSD = 674  
 Eastside Exch. Less: from BWSD = 682  
 James: Mandatory Release = 4988  
 James Exch. Less: BWSD for KDWD = 706  
 Pioneer Canal: Mandatory Release = 8104  
 RBWSD: Mandatory Release = 12772  
 RBWSD: City to Bothouse Farms = 25  
 NKWS Exch. Plus: Mandatory Release = 14912  
 Lerdo (KCC&W): CWD (Mandatory Rel.) = 873  
 Boswell Pump: Mandatory Release = 357  
 Pioneer Central: Mandatory Release = 883  
 Pioneer Central: BWSD for KDWD = 204  
 Pioneer North: Mandatory Release = 8427  
 Pioneer North: BWSD for KDWD = 437  
 Boswell Turnout: Mandatory Release = 926  
 Berrenda Mesa Spog.: Mandatory Rel. = 641  
 KWB 2nd Pt.: Mandatory Release = 307  
 Cally Central (KCC&W): Mandatory Rel. = 2122  
 Kern Island Exch. Plus: Mandatory Rel. = 4509  
 Buena Vista Exch. Plus: Mandatory Rel. = 3429  
 Shire Exch. Plus: Mandatory Release = 2097  
 Farmers Exch. Plus: Mandatory Release = 2265  
 KCC&W Exch. Plus: Mandatory Release = 9153  
 KRC&I Exch. Less: Transfer to KCC&W Co. (in excess of carryover storage requirement) = 14608

FLOW AT FIRST POINT 64 9601 611  
 LOSS 64 142831 64682

# CITY OF BAKERSFIELD

## KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

DATE: March 1997 Recap

COMPUTED NATURAL FLOW AT FIRST POINT... 120448  
 LESS NON-CONTRIBUTING CANALS... 18315  
 FOR OTHERS AND FIRST POINT CANALS... 102133  
 TO BE CONTRIBUTED BY OTHER CANALS... 102099  
 TO BE USED BY OTHER CANALS... 34  
 EACH OTHER CANAL TO RECEIVE... N/A

QUANTITIES IN: ACRE-FT

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%)... 1376  
 B.V.W.S.D. ENTITLEMENT... 33162  
 SEEPAGE LOSS... 676  
 KERN RIVER CONDUIT ENTITLEMENT... 27137  
 HACIENDA W.D. ENTITLEMENT AT FIRST POINT... 39748  
 TOTAL... 102099

RIVER STAGE	AMT.	DIVERSION RIGHT	NAME OF CANAL	GROSS DIVYR	GROSS ENTL	RELEASES		ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES		EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS			WATER TRANS. LOSS		ISABELLA RESERVOIR		CURRENT BALANCE	
						To Riser	Distrib Pro	AKWSD	KCC&W Co.	PLUS	LESS	AKWSD	KCC&W Co.	ADWD	OTHER	DIR	PRO	IN		PREVIOUS BALANCE
300.0	300		K.C.L. Co. ENTL @ 2ND PT.	17531	18315	979	1376	17336	1067	992	16464	34	723	686	15000	149	537	15000		
			EASTSIDE	1749																
320.0	20		KERN RIVER CONDUIT		27137			27137												
			CASTRO			69														
			KCC&W Co.			209														
330.5	10.5		SOUTH FORK	93																
410.5	60		BUENA VISTA (1-ST)	3100		85														
530.5	120		JAMES (1-ST)	3707		67		549	3634		3100	73		2167	46665	406	9364	39062		
550.5	20		ANDERSON (1-ST)											64	919		72	911		
700.5	150		STINE	3745	4			4			3745			26	4106	28	2577	1527		
730.5	30		MEACHAM											0	5945	38	3741	2166		
860.5	150		FARMERS	2388	4			4			2388			0	5945	44	2384	3517		
920.5	40		FLUNKET																	
990.5	40		JOYCE																	
1000.5	40		JOHNSON																	
1130.5	130		PIONEER (1-ST)	2279	2				2279					0	15753	152	1262	14339		
1180.5	60		BEARDSLEY (1-ST)	1242					313		1145	97		0	94332	749	33654	59829		
			LERDO (NKWSD)	26388								3200								
1200.5	10		ANDERSON (2-ND)											2943	188665	1566	53591	136451		
1240.5	40		JAMES & DIXON																	
1250.5	10		WILSON																	
			KCC&W Co.																	
1276.5	26		MACAFFREY																	
			MACCORD																	
1376.5	100		BEARDSLEY 70%	5117	4			4												
			CALLOWAY CENTRAL 20%	12244	10															
2226.5	850		RAILROAD KCC&W Co. 20%																	
			RAILROAD KCC&W Co. 80%																	
2426.5	200		BUENA VISTA (2-ND)	6	6															
2516.5	90		JAMES (2-ND)	4	4															
2696.5	180		PIONEER (2-ND)																	
2886.5	170		PIONEER (2-ND)																	
3106.5	240		BEARDSLEY (2-ND)																	
3182.5	56		KERN ISLAND (2-ND)																	
			ROSEDALE BIVSD	12385																
			TRUXTUN LAKES	482																
			LAKE MING																	
			KERN VALLEY GOLF COURSE																	
			2600 ACRE SPREADING	6682																
			HACIENDA WD TO 2800 ACRES																	
			BERRENDA MESA SPREADING	1366																
			PIONEER NORTH	9590																
			PIONEER CENTRAL	1008																
			KWB AT 2ND POINT	3243																
			HACIENDA WD TO KWB																	
			BOSWELL TURNABLE PUMPS	302																
			BIVSD/BOL THOUSE FARMS																	
			BIVSD FOR IDA																	
			BIVSD FOR PIONEER PROJECT																	
			BIVSD FOR OCCESSA HACIENDA																	
			ARVIN - EDISON TURNOUT	1741																
			ROSEDALE RANCH/ID	225	116392	46662	973	979	0	1465	27419	17693	85	26349	26349	26349	26420	1955	7252	0
			TOTALS																	
			FLOW AT FIRST POINT																	
			LOSS																	
			TOTALS																	

TOTAL CHANGE IN STORAGE = -52214

NOTES:  
 Kern Island Exch. Less: from BIVSD = 1087  
 Eastside Exch. Less: from BIVSD = 992  
 City via Eastside: Misc. = 34  
 Lerdo (NKWSD): City to CWD (Basic) = 3200  
 James: City for KCWA (Misc.) = 73  
 James: BIVSD for ID4 = 69  
 James: BIVSD via Pioneer Project = 2735  
 James: HWD to KWB = 810  
 RRBWSD: City to RRBWSD = 12265  
 RRBWSD: City to Bolthouse = 120  
 Pioneer: BIVSD for ID4 = 1122  
 Pioneer: HWD to KWB = 1157  
 Pioneer North: City for RRBWSD = 901  
 Pioneer North: City for KCWA (Misc.) = 1321  
 Pioneer North: BIVSD for ID4 = 238  
 Pioneer North: HWD to KWB = 7130  
 Pioneer Central: City to RRBWSD = 708  
 Pioneer Central: BIVSD via Pioneer Proj. = 300  
 Berrenda Mesa: City for KCWA (Misc.) = 1366  
 KWB at 2nd Pt.: BIVSD for ID4 = 34  
 KWB at 2nd Pt.: HWD to KWB = 3209  
 Cally (Central): City to K-TWD = 2694  
 Cally (Central): City to RRBWSD = 398  
 Truxtun Lakes: City to RRBWSD = 419  
 Truxtun Lakes: City to K-TWD = 63  
 Beardsley: City to K-TWD = 79  
 Beardsley: City to RRBWSD = 18  
 Lerdo Exch. Less: BIVSD via CWD = 313

# CITY OF BAKERSFIELD KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

DATE: April 1997 Recap

COMPUTED NATURAL FLOW AT FIRST POINT... 142909  
 LESS NON-CONTRIBUTING CANALS... 17851  
 FOR OTHERS AND FIRST POINT CANALS... 125058  
 TO BE CONTRIBUTED BY OTHER CANALS... 68129  
 TO BE USED BY OTHER CANALS... 56929  
 EACH OTHER CANAL TO RECEIVE... N/A

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%)... 1997  
 B.V.W.S.D. ENTITLEMENT... 41669  
 SEEPAGE LOSS... 655  
 KERN RIVER CONDUIT ENTITLEMENT... 23808  
 HACIENDA W.D. ENTITLEMENT AT FIRST POINT... 0  
 TOTAL... 68129

% OF ITS DIVERSION RIGHT

RIVER STAGE	DIVERSION RIGHT		GROSS ENTL	GROSS DIVR	To River	RELEASES		ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES		EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS			WATER TRANS. LOSS		ISABELLA RESERVOIR		CURRENT BALANCE		
	AMT.	NAME OF CANAL				Direct	Pro	MWSD	KCC3W Co.	KDWD	OTHER	PLUS	LESS	MWSD	KCC3W Co.	KDWD	OTHER	DIR		FRD	IN
300.0	300	K.C.L. Co. ENTL @ 2ND PNT.	1987	15457	1345		1987	16506		815			14642				259	15000	201	58	15000
		EASTSIDE	2348							631		54	1663								
320.0	20	KERN RIVER CONDUIT	23808					23808													
		CASTRO	119		103																
		KCC3W Co.	417		269			908													
330.5	10.5	SOUTH FORK	298	54	160				456												
410.5	80	BUENA VISTA (1-ST)	2091	2151	803			2954		345			1746								
580.5	120	JAMES (1-ST)	492	3231	104					188		304									
590.5	20	ANDERSON (1-ST)	536					4042													
700.5	150	STINE	1852	4042						534			1318								
730.5	30	MEACHAM	809					4006													
880.5	150	FARMERS	1458	4042	36																
820.5	40	FLUNKET	1081																		
960.5	40	JOYCE	1081																		
1000.5	40	JOHNSON	1081																		
1130.5	130	PIONEER (1-ST)	1093	3509						68		1025									
1190.5	60	BEARDSLEY (1-ST)	1150	1614				1614				107	1031								
		LERDO (MKWSD)	24687							3546		3200	1413								
1200.5	10	ANDERSON (2-ND)	274																		
1240.5	40	JAMES & DIXON	1081																		
1280.5	10	WILSON	155																		
		KCC3W Co.	119					274													
1276.5	26	McCAFFREY	698																		
		McCORD	809																		
1376.5	100	BEARDSLEY 70%	1894																		
		CALLOWAY CENTRAL 20%	8366							1894		4080									
2226.5	650	MWSD 80%	2093	15618				3954				2093									
		RAILROAD KCC3W Co. 20%	524					524													
2426.5	200	MWSD 80%	2094																		
2516.5	90	BUENA VISTA (2-ND)	1021					1021													
2696.5	180	JAMES (2-ND)	1726																		
2866.5	170	PIONEER (2-ND)	1493																		
3106.5	240	BEARDSLEY (3-RD)	1200																		
3182.5	56	KERN ISLAND (2-ND)	58		58																
		ROSEDALE RBWSD	4544									4544									
		TRULAN LAKES	549									549									
		LAKE MING										60									
		2800 ACRE SPREADING	3941									16									
		HACIENDA WD TO 2800 ACRES																			
		BERRENDA MESA TURNOUT	28																		
		PIONEER NORTH	3940																		
		KWB AT 2ND POINT	1002																		
		HACIENDA WD TO KWB																			
		HACIENDA WD (Transportation Loss)																			
		BWSD VIA CWD																			
		BWSD FOR ID4																			
		BWSD VIA KWB																			
		BWSD VIA PIONEER PROJECT																			
		BWSD FOR OL CSESLA HACIENDA																			
		ARMY - EDSON TURNOUT	270																		
		ROSEDALE BRANCH/D																			
<b>TOTALS</b>			315	75425	100585	1439	1439	0	37422	29468	28529	5166	19782	17159	18601	16524	20827	2629	5475	460	5935
		<b>LOSS</b>		6592	655																
		<b>FLOW AT FIRST POINT</b>	315	82017	101240																

NOTES:  
 Kern Island Exch. Less: from BWSD = 815  
 Eastside Exch. Less: from BWSD = 631  
 City via Eastside: Misc. = 54  
 Buena Vista Exch. Less: from BWSD = 345  
 Sire Exch. Less: from BWSD = 534  
 Lerdo (MKWSD): City to CWD (Basic) = 3200  
 Lerdo Exch. Less: BWSD via CWD = 1413  
 James: City for KCWA (Misc.) = 304  
 James: BWSD via Pioneer Project = 188  
 RBWSD: City to RBWSD = 4514  
 RBWSD: City to Baltimore = 1025  
 Pioneer: City to RBWSD = 68  
 Pioneer: BWSD via Pioneer Project = 3940  
 Pioneer North: HWD to KWB = 1002  
 KWB at 2nd Point: HWD to KWB = 188  
 River Loss: HWD to KWB = 623  
 2800 Acre Spreading: HWD to KWB = 28  
 Berrenda Mesa: City for KCWA (Misc.) = 1912  
 Cally: Exch. Less: BWSD for ID4 = 2435  
 River Loss: BWSD for ID4 = 3552  
 Cally (Central): City to K-TWD = 528  
 Cally (Central): City to RBWSD = 474  
 Truxtun Lakes: City to K-TWD = 75  
 Bearslay: City to K-TWD = 91  
 Bearslay: City to RGWD = 16  
 Carrier Canal Loss: City to K-TWD = 10

TOTAL CHANGE IN STORAGE = 37162

# CITY OF BAKERSFIELD KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

DATE: May 1997 Recap

COMPUTED NATURAL FLOW AT FIRST POINT..... 214290  
 LESS NON-CONTRIBUTING CANALS..... 18446  
 FOR OTHERS AND FIRST POINT CANALS..... 195844  
 TO BE CONTRIBUTED BY OTHER CANALS..... 105001  
 TO BE USED BY OTHER CANALS..... 90843  
 EACH OTHER CANAL TO RECEIVE..... N/A

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%)..... 3374  
 B.V.W.S.D. ENTITLEMENT..... 70560  
 SEEPAGE LOSS..... 676  
 KERN RIVER CONDUIT ENTITLEMENT..... 30391  
 HACIENDA W.D. ENTITLEMENT AT FIRST POINT..... 0  
 TOTAL..... 105001

RIVER STAGE	DIVERSION RIGHT		GROSS DIVR	GROSS ENTL	RELEASES		ENTITLEMENT LESS RELEASES		EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS			WATER TRANS. LOSS		ISABELLA RESERVOIR				
	AMT.	N. NAME OF CANAL			To River	Direct	Pro	KCCL Co.	Other	Plus	Less	MWSD	KCC&W Co.	KDWD	Other	DIT	PRD	In	Previous Balance	Out
300.0	300	K.C.L. Co. ENTL @ 2ND PT.	3374	3374			2743	631	18446	1080	1012	81	19263			1160	15000	267	2800	13083
		EASTSIDE	3406																	
300.0	20	CASTRO		171	137		30391													
		KCC&W Co.	460	460	462		1230													
300.5	10.5	SOUTH FORK	24	332	309				641											
410.5	80	BUENA VISTA (1-ST)	3158	2559	1349			3908		524		1511	2634	2533		19285	48597	1016	1045	63821
530.5	120	JAMES (1-ST)	1511	3840	123		3223	740							617	1315	3726	103	0	1932
550.5	20	ANDERSON (1-ST)	631				512	119	4800						4154	3726	103	0	0	7777
700.5	150	STINE	1718	4800						218		1500								
730.5	30	MEACHAM	956				772	166												
880.5	150	FARMERS	2313	4800	2380				2420											
920.5	40	FLUNKET	1283				1035	248												
960.5	40	JOYCE	1283				1035	248												
1000.5	40	JOHNSON	1283				1035	248												
1130.5	130	PIONEER (1-ST)	399	4160			3361	799		399										
1190.5	60	BEARDSLEY (1-ST)	1404	1916					1916											
		LERDO (MWSD)	32472							5599	17079	6400	1366			6405	16274	345	0	22334
1200.5	10	ANDERSON (2-ND)	325				262	63												
1240.5	40	JAMES & DIXON	1283				1035	248												
1250.5	10	WILSON	200																	
		KCC&W Co.	125				325													
1276.5	25	McCAFFREY	829				672	157												
		McCORD	960				772	186												
1376.5	100	BEARDSLEY 70%	2539						2239											
		CALLOWAY CENTRAL 20%	9846				5439			2085		5113	147							
2226.5	850	MWSD 80%	5633	21755			17572	4183												
		RAILROAD KCC&W Co. 20%	1283				4062	1057												
2426.5	200	MWSD 80%	5119																	
2516.5	90	BUENA VISTA (2-ND)	2880				4481	1273												
2606.5	180	JAMES (2-ND)	5754				4228	1183												
2866.5	170	PIONEER (2-ND)	5411																	
3106.5	240	BEARDSLEY (3-ND)	7157						7157											
3162.5	56	KERN ISLAND (2-ND)	1609						1609											
		ROSEDALE RBWSD	3836									3836								
		TRUXTON LAKES	748									748								
		KERN VALLEY GOLF COURSE	1680							1680										
		2800 ACRE SPREADING																		
		PIONEER NORTH	162							162										
		HACIENDA WD TO KWB							1941											
		HACIENDA WD (Transportation Loss)																		
		BWSD VIA CWD																		
		BWSD FOR ID4																		
		BWSD VIA KDWD																		
		BWSD VIA PIONEER PROJECT																		
		BWSD FOR G.C. SELLA HACIENDA																		
		ARVIN-EDISON TURNOUT	9019																	
		ROSEDALE RANCH/D	440																	
		LOSS	8318																	
		FLOW AT FIRST POINT	440																	
		TOTALS	97692	143054	2390	2390	0	46800	50238	34083	11953	17656	13114	22712	29233	29142	4931	7249	391	7840
		FLOW AT FIRST POINT	440																	

TOTAL CHANGE = 51635  
 IN STORAGE = 51635

NOTES:  
 Kern Island Exch. Less: from BWSD = 1080  
 Eastside Exch. Less: from BWSD = 1012  
 City via Eastside. Misc. = 81  
 Buena Vista Exch. Less: from BWSD = 524  
 Stine Exch. Less: from BWSD = 218  
 Kern Island via Arvin-Edison Turnout = 119  
 James: City for KCWA (Misc.) = 1511  
 RBWSD: City to RBWSD = 3836  
 Pioneer: BWSD via Pioneer Project = 399  
 Lerdo (MWSD): City to CWD (Basic) = 6400  
 Lerdo (MWSD) - Other: KRC&I Ent = 3394  
 Lerdo Exch. Less: BWSD via CWD = 5599  
 2800 Acre Spreading: HWD to KWB = 1680  
 Pioneer North: HWD to KWB = 182  
 River Loss: BWSD for ID4 = 79  
 Cally: Exch. Less: BWSD for ID4 = 4463  
 River Loss: City to RBWSD for ID4 = 2085  
 Cally: (Central): City to RRE for ID4 = 174  
 Cally: (Central): City to K-TWD = 252  
 Cally: (Central): City to K-TWD = 4228  
 Truxton Lakes: City to K-TWD = 633  
 Truxton Lakes: City to K-TWD = 647  
 Truxton Lakes: City to RGWD = 101  
 Bearsville: City to K-TWD = 18  
 A-Edison T.O. City for K-TWDRGW (Misc.) = 7500  
 A-Edison T.O. City for A-EWSD (Misc.) = 1400  
 NKWSD/KCC&W Co. Ent: Reflects release to City  
 (In excess of Maximum Diversion Right)

# CITY OF BAKERSFIELD KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

DATE: June 1997 Recap

COMPUTED NATURAL FLOW AT FIRST POINT... 142358  
 LESS NON-CONTRIBUTING CANALS..... 17851  
 FOR OTHERS AND FIRST POINT CANALS..... 124507  
 TO BE CONTRIBUTED BY OTHER CANALS..... 68119  
 TO BE USED BY OTHER CANALS..... 56388  
 EACH OTHER CANAL TO RECEIVE..... N/A  
 % OF ITS DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%)..... 1997  
 B.V.W.S.D. ENTITLEMENT..... 41774  
 SEEPAGE LOSS..... 655  
 KERN RIVER CONDUIT ENTITLEMENT..... 23693  
 HACIENDA W.D. ENTITLEMENT AT FIRST POINT..... 0  
 TOTAL..... 68119

Revision dated August 14, 1997

RIVER STAGE	DIVERSION RIGHT		GROSS DIVR	GROSS ENTL	RELEASES		ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES		EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR		CURRENT BALANCE			
	AMT.	NAME OF CANAL			To River	Distr. Pro	MKWS	KCC&W Co.	KDWD	OTHER	PLUS	LESS	MKWS	KCC&W Co.	KDWD	OTHER	DIVR	PRO		IN	PREVIOUS BALANCE	LOSS
300.0	300	K.C.L. Co. ENTL @ 2ND PT. EASTSIDE	21596	1987		1997	17851			1407				20189			0	13093	182	6272	6639	
300.0	20	CASTRO	3176	23693			23693			708				2404								
330.5	10.5	SOUTH FORK	115	294			772			10000												
410.5	80	BUENA VISTA (1-ST)	5033	2172				383						4111			3777	65821	969	16559	52070	
530.5	120	JAMES (1-ST)	643	3263				2349		822				643			274	1932		6	2200	
560.5	20	ANDERSON (1-ST)	540	540						967							360	7777	138	1156	6843	
700.5	150	STINE	4693	4074				4074						4326			155	8029	143	407	7634	
730.5	30	MEACHAM	817	817				3576						3745			119	6000	105	288	5726	
880.5	150	FARMERS	3745	4074																		
920.5	40	FLUNKET	1087	1087																		
960.5	40	JOYCE	1087	1087																		
1000.5	40	JOHNSON	1087	1087																		
1130.5	130	PIONEER (1-ST)	3529	3529																		
1150.5	60	BEARDSLEY (1-ST)	1533	1632				1632		10000				1382			1682	22334	415	6	23595	
1200.5	10	ANDERSON (2-ND)	278	278										1402			21178	100262	2092	1728	117822	
1240.5	40	JAMES & DIXON	1087	1087																		
1280.5	10	WILSON	159	159																		
1276.5	26	McCAFFREY	119	119																		
1376.5	100	McCORD	708	708																		
1376.5	100	BEARDSLEY 70%	813	813																		
1376.5	100	BEARDSLEY 20%	1894	1894				1894														
2226.5	800	CALLOWAY CENTRAL	10078	3667				3667		1127				212			27545	225248	4044	26420	222329	
2426.5	200	RAILROAD	8291	15470																		
2426.5	200	KCC&W Co. 20%	540	540				540														
2426.5	200	KCC&W Co. 80%	2162	2162																		
2516.5	30	BUENA VISTA (2-ND)	966	966																		
2696.5	160	JAMES (2-ND)	1606	1606																		
2866.5	170	PIONEER (2-ND)	1142	1142																		
3106.5	240	BEARDSLEY (3-RD)	1146	1146																		
3162.5	56	KERN ISLAND (2-ND)	235	235																		
		ROSDALE RBWSD	2822	2822																		
		TRUXTUN LAKES	482	482																		
		LAKE MING	482	482																		
		KERN VALLEY GOLF COURSE																				
		HACIENDA WD FOR RRBWSD																				
		HACIENDA WD (Transportation Loss)																				
		BWWSO VIA CWD																				
		BWWSO FOR ID4																				
		BWWSO VIA KDWD																				
		BWWSO FOR OL CESELA HACIENDA																				
		ARVIN-EDISON TURNOUT	1518	1518																		
		ROSDALE RANCH/ID	454	110348																		
		TOTALS	454	110348	99929	498	498	0	36673	29150	29051	5055	28639	27869	3111	6841	27545	225248	4044	26420	222329	
		FLOW AT FIRST POINT	454	117717	100584																	
		LOSS		7369	655																	
		TOTALS	454	117717	100584																	

TOTAL CHANGE IN STORAGE = -2919

NOTES:  
 Kern Island Exch. Less: from BWWSO = 1407  
 Kern Island via Arvin-Edison Turnout = 1766  
 Eastside Exch. Less: from BWWSO = 708  
 City via Eastside: Misc. = 64  
 Buena Vista Exch. Less: from BWWSO = 922  
 Stine Exch. Less: from BWWSO = 367  
 James: City for KCWA (Misc.) = 643  
 RRBWSD: City for RRBWSD = 2734  
 RRBWSD: City to Bolthouses = 88  
 Lerdo Exch. Plus: City to NKWSD (Basic) = 5000  
 Lerdo Exch. Plus: City to NKWSD (B/P) = 5000  
 Lerdo (MKWSD): City to CWD (Basic) = 6400  
 Lerdo (MKWSD) - Other: KTRC&I Ent'l = 1402  
 Lerdo Exch. Less: BWWSO via CWD = 6291  
 River Loss: BWWSO for ID4 = 770  
 Cally Exch. Less: RRBWSD for ID4 = 1127  
 River Loss: City for RRBWSD = 1062  
 Cally (Central): City for RRBWSD = 1449  
 Cally (Central): City to K-TWD = 4051  
 Cally (Central): City to RGWID = 609  
 Truxtun Lakes: City to K-TWD = 419  
 Truxtun Lakes: City to RGWID = 63  
 Beardsley: City to K-TWD = 20  
 A-Edison T.O. (Exch. Less): BWWSO for ID4 = 4726  
 A-Edison T.O. (Exch. Less): HWD for RRBWSD = 2000  
 A-Edison T.O.: City for A-EWSD (Misc.) = 1564  
 A-Edison T.O. City for RRBWSD = 5063

75  
770  
6841  
3111  
38540  
3111  
6716





# CITY OF BAKERSFIELD KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

DATE: September 1997 Recap

COMPUTED NATURAL FLOW AT FIRST POINT... 26039  
 LESS NON-CONTRIBUTING CANALS... 17845  
 FOR OTHERS AND FIRST POINT CANALS... 8194  
 TO BE CONTRIBUTED BY OTHER CANALS... 655  
 TO BE CONTRIBUTED BY OTHER CANALS... 7539  
 EACH OTHER CANAL TO RECEIVE... N/A

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

RIVER STAGE	DIVERSION RIGHT	GROSS DIVR	GROSS ENTL	RELEASES		ENTITLEMENT LESS RELEASES		EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS			WATER		CURRENT BALANCE			
				To River	Distribution Pro	MKWSD	Other	Plus	Less	MKWSD	KCC&W Co.	KDWD	Other	DIR		PRO		
300.0	K.C.L. Co. ENTL @ 2ND PT. KERN ISLAND (1-S7) EASTSIDE KERN RIVER CONDUIT	9572 910	17845	8917			8928		698 896		8874		54	2500	54	0	2500	
320.0	CASTRO KCC&W Co.		264 700		54													
330.5	10.5 SOUTH FORK		44		192		1190											
410.5	80 BUENA VISTA (1-S7)		2906	1932	415		1389				1849			21270	458	3826	16986	
530.5	120 JAMES (1-S7)		1773		4977									2399		0	2980	
590.5	20 ANDERSON (1-S7)		159		641									2000	40	490	1500	
700.5	150 STINE		571	436	1932		2067				2029							
730.5	30 MEACHAM		60		571									1486	24	1071	1500	
800.5	150 FARMERS		294		1000		1294				577			1321	38	438	2000	
820.5	40 PLUNKET		77		319													
860.5	40 JOYCE		77		319													
1000.5	40 JOHNSON		77		200													
1130.5	130 PIONEER (1-S7)		83		226													
1190.5	60 BEARDSLEY (1-S7) LERDO (MKWSD)		1060 21040		119				75 8600		829			19799 92412	407 1917	891 2520	18580 89887	
1200.5	10 ANDERSON (2-ND)			20														
1240.5	40 JAMES & DIXON			79														
1280.5	10 WILSON			11														
1276.5	2R MCCAFFREY			7														
1376.5	100 MCKORD LERDO 30% BEARDSLEY 70%			52 14														
2226.5	850 CALL OWAY CENTRAL 20% MKWSD 80%			30					4544									
2426.5	200 RAILROAD KCC&W Co. 20% MKWSD 80%			18														
2516.5	90 BUENA VISTA (2-ND)			52														
2686.5	180 JAMES (2-ND)			14														
2696.5	170 PIONEER (2-ND)			14														
3106.5	240 BEARDSLEY (3-RD)			30														
3162.5	56 KERN ISLAND (2-ND)																	
	ROSEDALE RWSD																	
	TRUTUN LAKES																	
	LAKE MING																	
	KERN VALLEY GOLF COURSE																	
	HACIENDA WD FOR ID4																	
	BWSD FOR A-EWSD																	
	BWSD VIA CWD																	
	BWSD FOR ID4																	
	BWSD VIA KDWD																	
	HWD FOR KDWDA Hacienda, Inc.																	
	BWSD FOR OLCESE WD																	
	ARVIN-EDISON TURNOUT																	
	ROSEDALE BANCH/D																	
TOTALS		311	49647	25394	11285	0	9724	1208	13878	774	24381	21062	10332	4230	13329	1005	4111	12
	LOSS																	4123
FLOW AT FIRST POINT		311	4760	655														
			54427	28039														

TOTAL CHANGE IN STORAGE = -7254

NOTES:  
 Kern Island Exch. Less: from BWSD = 698  
 Eastside Exch. Less: from BWSD = 896  
 City via Eastside: Misc = 24  
 Lerdo Exch. Less: BWSD via CWD = 6156  
 Lerdo Exch. Less: BWSD via MKWSD = 2444  
 Lerdo (MKWSD): City to K-TWD (Misc.) = 722  
 Lerdo (MKWSD): City to RGWD (Misc.) = 107  
 Beardsley: BWSD for ID4 = 10  
 Beardsley: HWD for ID4 = 65  
 River Loss: BWSD for ID4 = 3289  
 River Loss: HWD for ID4 = 30  
 Truxtun Lakes: BWSD for ID4 = 309  
 Truxtun Lakes: HWD for ID4 = 147  
 Cally: Exch. Less: BWSD for ID4 = 4439  
 Cally: Exch. Less: HWD for ID4 = 705

BWSD for A-EWSD (Exch. Less) = 5602  
 A-Edison T.O.: City for K-TWD (Misc.) = 1452  
 A-Edison T.O.: City for RGWD (Misc.) = 219

# CITY OF BAKERSFIELD KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

DATE: October 1997 Recap

COMPUTED NATURAL FLOW AT FIRST POINT... 20926  
 LESS WON - CONTRIBUTING CANALS... 18256  
 FOR OTHERS AND FIRST POINT CANALS... 2670  
 TO BE CONTRIBUTED BY OTHER CANALS... 676  
 TO BE USED BY OTHER CANALS... 1994  
 EACH OTHER CANAL TO RECEIVE... N/A

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

RIVER STAGE	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		ISABELLA RESERVOIR		
	AMT.	NAME OF CANAL			To River	Distribution Direct	Pro	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS
300.0	300	K.C.L. Co. ENTL @ 2ND PT. EASTSIDE	5530	18256	12709		5547		288	313		10					42	2500	42	0	2500
320.0	20	CASTRO		193						875											
330.5	10.5	SOUTH FORK		502		1220		643													
410.5	80	BUENA VISTA (1-S)	700	986	655	726	644	20													
530.5	120	JAMES (1-S)																			
590.5	20	ANDERSON (1-S)			7377			173													
700.5	150	STINE																			
730.5	30	MEACHAM			1487																
880.5	160	FARMERS																			
920.5	40	FLUNKET			1299																
960.5	40	JOYCE			613																
1000.5	40	JOHNSON			93																
1130.5	130	PIONEER (1-S)			12																
1190.5	60	BEARDSLEY (1-S)																			
1200.5	10	ANDERSON (2-ND)																			
1240.5	40	JAMES & DRON																			
1260.5	10	WILSON																			
1276.5	26	McCAFFREY																			
1376.5	100	McCORD																			
2226.5	650	CALLOWAY																			
2426.5	200	RAILROAD																			
2616.5	90	BUENA VISTA (2-ND)																			
2686.5	160	JAMES (2-ND)																			
2866.5	170	PIONEER (2-ND)																			
3106.5	240	BEARDSLEY (3-RD)																			
3182.5	86	KERN ISLAND (2-ND)																			
		ROSEDALE RBWSO	1646																		
		TRUXTON LAKES	514																		
		LAKE MING																			
		KERN VALLEY GOLF COURSE																			
		CALIFORNIA WATER SERVICE CO.																			
		HWD TRANSFER TO CITY																			
		HWD TRANSFER TO NKWSD																			
		HACIENDA WD FOR ID4																			
		BWSD FOR A-EWSD																			
		BWSD VIA CWD																			
		BWSD VIA KDWD																			
		HWD FOR OLDSSE WD																			
		ARMON-EDISON TURNOUT																			
		ROSEDALE BANGHID																			
TOTALS			232	32301	20250	13364	13364	0	12077	1230	6239	644	23694	644	18648	7543	2907	6441	642	6239	0
FLOW AT FIRST POINT			232	38214	20926																
LOSS				6913	676																

TOTAL CHANGE IN STORAGE = 2309

NOTES:  
 Kern Island Exch. Less: from BWSD = 313  
 Eastside Exch. Less: from BWSD = 587  
 Eastside Exch. Less: from Kern Island = 286  
 City via Eastside: Miscellaneous = 10  
 KCC&W Co. Exch. Plus: HWD transfer to City = 604  
 Farmers Exch. Less: Release to meet month end storage requirement = 232  
 RBWSD: City to RBWSD = 1646  
 Lerdo Exch. Less: BWSD via CWD = 4237  
 Lerdo Exch. Less: BWSD via NKWSD = 2783  
 Lerdo Exch. Plus: HWD transfer to NKWSD = 2524  
 River Loss: City for Cal Water Service = 604  
 River Loss: HWD for ID4 = 5046  
 Truxtun Lakes: HWD for ID4 = 514  
 Beardsley: HWD for ID4 = 149  
 Castro Exch. Plus: release distribution = 39  
 South Fork Exch. Plus: release distribution = 20  
 James Exch. Plus: release distribution = 173  
 A-Edison T.O. (Exch. Less): HWD for ID4 = 5387  
 A-E T.O. (Exch. Less): BWSD via A-E WSD = 875



# CITY OF BAKERSFIELD KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

DATE: December 1997 Recap

COMPUTED NATURAL FLOW AT FIRST POINT... 30532  
 LESS NON-CONTRIBUTING CANALS... 18446  
 FOR OTHERS AND FIRST POINT CANALS... 12086  
 TO BE CONTRIBUTED BY OTHER CANALS... 676  
 TO BE USED BY OTHER CANALS... 11410  
 EACH OTHER CANAL TO RECEIVE... N/A

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

RIVER STAGE	AMT.	NAME OF CANAL	GROSS DIV/P	GROSS ENITL	RELEASES		ENTITLEMENT LESS RELEASES		EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS			WATER TRANS. LOSS		ISABELLA RESERVOIR		
					To River	Distribution	AKWSD	KCC&W Co.	AKWSD	OTHER	PLUS	LESS	AKWSD	KCC&W Co.	OTHER	DIR	PRO	PREVIOUS BALANCE
300.0	300	KERNISLAND (1-S7)	2664	18446	13339		5107	119			2545		176	14	2500	14	0	2500
		EASTSIDE	50					50										
320.0	20	CASTRO		308														
		KCC&W Co.		647			1230		4									
330.5	10.5	SOUTH FORK		609														
410.5	80	BUENA VISTA (1-S7)	405	4554	4123		431		0		405		50	335	9295	56	2281	7293
530.5	120	JAMES (1-S7)		3646			7379							0	600		0	600
550.5	20	ANDERSON (1-S7)					1230							8	1500	8	0	1500
700.5	150	STONE		801			8				0							
730.5	30	MEACHAM		58			1845							8	1500	8	0	1500
880.5	150	FARMERS		196			8				0							
920.5	40	FLUNKET		2460			2460							8	1500	8	0	1500
980.5	40	JOYCE		2480			2480											
1000.5	40	JOHNSON		2366			2366											
1130.5	130	PIONEER (1-S7)		3591			3591											
1190.5	60	BEARDSLEY (1-S7)					559											
		LERDO (MKWSD)	17196						589		549			847	17383	101	0	18129
1200.5	10	ANDERSON (2-ND)		79			79							2692	86380	494	399	88179
1240.5	40	JAMES & DIXON		313			313											
1250.5	10	WILSON		36			60											
		KCC&W Co.		24														
1276.5	26	McCAFFREY		155			155											
		LERDO	30%	123			123											
1376.5	100	BEARDSLEY 70%		288			288		288									
		CENTRAL	20%	33			33											
2226.5	850	CALL OWAY		131			131											
		RAILROAD	KCC&W Co. 20%															
2426.5	200	IKWSD	80%															
2571.5	90	BUENA VISTA (2-ND)																
2636.5	180	JAMES (2-ND)																
2866.5	170	PIONEER (2-ND)																
3106.5	240	BEARDSLEY (3-RD)																
3162.5	56	KERNISLAND (2-ND)																
		ROSEDALE RRBWSD	693															
		TRUXTUN/LAKES	393															
		LAKE MING																
		KERN VALLEY GOLF COURSE																
		HACIENDA MD FOR ID4																
		HWD TRANSFER TO 1ST PT. GRP																
		BRWSD VIA CHD																
		BRWSD VIA KDWD																
		IKWSD FOR LA HACIENDA INC.																
		ARMY-EDISON TURNOUT	4494															
		ROSEDALE BRANCH ID																
TOTALS			44	26095	19068	0	22132	1323	5554	847	6536	1895	15947	2985	5322	0	4758	365
		LOSS	44	5799	676													
		FLOW AT FIRST POINT	44	31694	30532													

TOTAL CHANGE IN STORAGE = 543

NOTES:

Kern Island Exch. Less: from BRWSD = 119  
 Kern Island via Arvm - Edison Turnout = 2872  
 Eastside Exch. Less: from BRWSD = 50  
 Lerdo (MKWSD): City to CWD (Misc.) = 549  
 Lerdo Exch. Less: BRWSD via CWD = 573

RRBWS: City to RRBWS = 693

River Loss: City for RRBWS via ID4 = 238  
 River Loss: NKWSD for ID4 = 3285  
 River Loss: HWD for ID4 = 1356  
 Truxtun Lakes: City for RRBWS via ID4 = 14  
 Truxtun Lakes: NKWSD for ID4 = 119  
 Truxtun Lakes: HWD for ID4 = 280

A-Edison T.O.: City for ID4 = 317  
 A-Edison T.O.: City for RRBWS via ID4 = 1057  
 A-Edison T.O. (Exch. Less): NK for ID4 = 478  
 A-Edison T.O. (Exch. Less): HWD for ID4 = 270  
 HWD transfer to 1st Pt. Grp.: NKWSD (6), City (4)

5123

# 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	319	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	328	322	318	317	317	317	425	564	371	359	354	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	10177	10177	10168	10168	10168	10168	10168	10168	10177	
1956	79823	80916	81717	82627	83262	83714	84333	84442	85029	85556	85932	86306	86729	87000	87350	87639	88070	88358	88778	89211	89521	89793	90181	90713	90713	90713	90713	90713	90713	90713	90713	
1957	130263	130263	130213	130213	130162	130162	130162	130112	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130062	130263	
1958	101413	101413	101328	101328	101328	101328	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101286	101413	
1959	158047	157981	157916	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157766	157981	
1960	71575	71542	71509	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71542	71575	
1961	29101	29101	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29062	29101	
1962	17524	17524	17511	17511	17498	17498	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17486	17524	
1963	82849	82849	82811	82811	82744	82736	82736	82700	82663	82590	82554	82554	82518	82481	82445	82408	82372	82336	82300	82264	82228	82192	82156	82120	82084	82048	82012	81976	81940	81904	82849	
1964	169983	169983	169922	169862	169801	169741	169681	169621	169561	169502	169442	169383	169324	169265	169206	169147	169088	169029	168970	168911	168852	168793	168734	168675	168616	168557	168498	168439	168380	168321	168262	169983
1965	118683	118620	118500	118380	118260	118140	118020	117900	117780	117660	117540	117420	117300	117180	117060	116940	116820	116700	116580	116460	116340	116220	116100	115980	115860	115740	115620	115500	115380	115260	115140	118683
1966	171193	171073	170951	170828	170704	170579	170454	170329	170204	170079	169954	169829	169704	169579	169454	169329	169204	169079	168954	168829	168704	168579	168454	168329	168204	168079	167954	167829	167704	167579	171193	
1967	309662	306252	302286	297531	293058	288301	283427	278578	274688	270745	266825	262923	259021	255119	251217	247315	243413	239511	235609	231707	227805	223903	220001	216099	212197	208295	204393	200491	196589	192687	188785	309662
1968	198971	198906	198806	198740	198674	198608	198542	198476	198410	198344	198278	198212	198146	198080	198014	197948	197882	197816	197750	197684	197618	197552	197486	197420	197354	197288	197222	197156	197090	197024	198971	
1969	124331	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381	124381
1970	225326	225256	225206	225156	225106	225056	225006	224956	224906	224856	224806	224756	224706	224656	224606	224556	224506	224456	224406	224356	224306	224256	224206	224156	224106	224056	224006	223956	223906	223856	225326	
1971	172219	172562	172703	172703	172703	172763	172884	173127	173309	173430	173561	173691	173822	173953	174084	174215	174346	174477	174608	174739	174870	175001	175132	175263	175394	175525	175656	175787	175918	176049	172219	
1972	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069
1973	55645	55617	55645	55674	55617	55533	55449	55365	55281	55197	55113	55029	54945	54861	54777	54693	54609	54525	54441	54357	54273	54189	54105	54021	53937	53853	53769	53685	53601	53517	55645	
1974	206291	206347	206414	206347	206291	206234	206177	206120	206063	206006	205949	205892	205835	205778	205721	205664	205607	205550	205493	205436	205379	205322	205265	205208	205151	205094	205037	204980	204923	204866	206291	
1975	223930	224000	223930	223880	224000	224130	224270	224420	224580	224750	224930	225120	225320	225530	225750	225980	226230	226490	226760	227040	227330	227630	227940	228260	228590	228930	229280	229640	229910	229710	223930	
1976	170131	170190	170190	170190	170190	170309	170368	170427	170486	170545	170604	170663	170722	170781	170840	170899	170958	171017	171076	171135	171194	171253	171312	171371	171430	171489	171548	171607	171666	171725	170131	
1977	67688	67687	67930	67930	67930	67964	67668	67536	67570	67505	67440	67375	67310	67245	67180	67115	67050	66985	66920	66855	66790	66725	66660	66595	66530	66465	66400	66335	66270	66205	67688	
1978	44060	44228	44543	44858	45029	45280	45698	46238	46812	47317	47800	48263	48706	49129	49532	49916	50281	50626	50951	51256	51541	51806	52051	52276	52491	52686	52861	53016	53161	53296	44060	
1979	244755	244458	244606	244904	245203	245502	245801	246100	246399	246698	246997	247296	247595	247894	248193	248492	248791	249090	249389	249688	249987	250286	250585	250884	251183	251482	251781	252080	252379	252678	244755	
1980	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	206970	
1981	229741	229669	229669	229741	229741	229741	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229669	229741	
1982	168984	169461	169620	169819	170119	170500	170970	171530	172180	172920	173750	174680	175710	176850	178100	179460	180930	182510	184200	186000	187910	190000	192270	194720	197350	200170	203180	206380	209770	213350	168984	
1983	261325	261170	260938	260628	260266	260000	260242	260087	260014	260051	260115	260209	260339	260504	260704	260940	261212	261520	261864	262244	262658	263106	263588	264104	264654	265238	265856	266508	267194	267914	261325	
1984	312967	313623	314423	315336	316364	317540	317771	318375	319007	319678	320380	321113	321877	322671	323495	324349	325233	326147	327091	328065	329069	330103	331167	332261	333385	334539	335723	336937	338181	339455	312967	
1985	244879	244829	244680	244383	244085	243787	243490	243192	242894	242596	242298	241999	241701	241402	241104	240805	240507	240208	239909	239610	239311	239012	238713	238414	238115	237816	237517	237218	236919	236620	244879	
1986	198579	198545	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198541	198579	
1987	244011	243336	244011	244831	244680	245278	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	244011		
1988	143030	143303	143464	143731	144538	145023	144969	145077	144969	144862	144808	144700	144652	144562	144522	144482	144442															

# 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	335	333	335	336	333	332	334	334	337	380	377	368	375	368	385	365	368	365	363	357	353	351	350	346	344	344						
1955	10185	10160	10152	10152	10152	10152	10152	10160	10168	10177	10144	10144	10161	10161	10183	11315	12134	12290	12392	12476	12559	12596	12606	12606	12606	12606	12606	12606	12606	12606	12606					
1956	120816	121596	122524	123208	123988	124770	125397	125945	126397	127050	127552	128056	128506	128906	129256	129556	129806	129956	130056	130156	130256	130356	130456	130556	130656	130756	130856	130956	131056	131156	131256					
1957	130263	130263	130213	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162	130162				
1958	103771	104023	104119	104168	104273	104348	104408	104458	104512	104539	104564	104581	104591	104596	104596	104596	104596	104596	104596	104596	104596	104596	104596	104596	104596	104596	104596	104596	104596	104596	104596	104596				
1959	196678	196352	196222	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208	196208			
1960	72649	75437	76031	76312	76454	76595	76700	77334	79836	80943	81535	82008	82372	82700	82924	83225	83413	83638	83864	84014	84127	84240	84353	84428	84503	84533	84533	84616	84616	84616	84616	84616				
1961	28903	28686	28668	28688	28680	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683	28683			
1962	17650	17638	17638	17628	17613	17650	20332	23724	26337	31106	33896	35517	36644	37824	38984	39776	40449	41190	41789	42184	42627	42859	43136	43301	43371	43417	43417	43384	43384	43384	43384	43384	43384			
1963	127903	139516	144847	148359	150972	153046	154752	156267	157765	159911	161597	162876	164281	165468	166536	167435	168256	169028	169621	170346	170952	171436	171920	172404	172827	173212	173587	174280	174280	174280	174280	174280	174280			
1964	168652	168434	168256	168019	167781	167544	167307	167070	166833	166596	166359	166122	165885	165648	165411	165174	164937	164700	164463	164226	163989	163752	163515	163278	163041	162804	162567	162330	162093	161856	161619	161382	161145	160908		
1965	128757	128907	129058	129158	129309	129560	129860	129711	129711	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860	129860		
1966	169880	169880	169880	169740	169692	169625	169546	169406	169246	169046	168790	168534	168278	168022	167766	167510	167254	167000	166746	166492	166238	165984	165730	165476	165222	164968	164714	164460	164206	163952	163698	163444	163190	162936		
1967	211686	213401	214801	216162	217523	218885	220246	221607	222968	224329	225690	227051	228412	229773	231134	232495	233856	235217	236578	237939	239300	240661	242022	243383	244744	246105	247466	248827	250188	251549	252910	254271	255632	256993		
1968	200068	200668	201134	200002	199806	199675	199509	199378	199202	199071	198940	198809	198678	198547	198416	198285	198154	198023	197892	197761	197630	197500	197369	197238	197107	196976	196845	196714	196583	196452	196321	196190	196059	195928		
1969	253213	254409	255307	255993	256680	257366	258052	258738	259424	260110	260796	261482	262168	262854	263540	264226	264912	265598	266284	266970	267656	268342	269028	269714	270400	271086	271772	272458	273144	273830	274516	275202	275888	276574		
1970	249728	249349	249487	249824	249842	250164	250312	250535	250663	250812	250934	251072	251210	251348	251486	251624	251762	251900	252038	252176	252314	252452	252590	252728	252866	253004	253142	253280	253418	253556	253694	253832	253970	254108		
1971	179123	179123	179123	179062	178767	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876	178876		
1972	121605	121557	121460	121412	121557	121702	121847	121798	121750	121702	121653	121605	121557	121508	121460	121412	121363	121315	121266	121218	121169	121121	121072	121024	120975	120926	120877	120828	120780	120731	120682	120633	120584	120535		
1973	67498	67431	67367	67335	67363	67463	68170	68428	68556	68814	68926	70960	71712	72415	73022	73384	73768	74108	74417	74726	74932	75139	75346	75553	75760	75967	76174	76381	76588	76795	76954	77124	77294	77464		
1974	220047	220116	220116	219809	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633	219633		
1975	229896	229400	221637	221637	221499	221360	221184	220945	221084	221894	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	222192	
1976	170131	169893	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	169824	
1977	66630	66220	64051	64051	64208	65252	67406	70783	83308	86276	86404	86276	86404	86276	86404	86276	86404	86276	86404	86276	86404	86276	86404	86276	86404	86276	86404	86276	86404	86276	86404	86276	86404	86276	86404	
1978	245352	245777	245427	245352	245352	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	245427	
1979	296544	295796	295052	294307	293338	292574	291914	291011	289943	288633	287408	286103	284884	283628	282328	280987	279607	278197	276756	275285	273785	272256	270697	269108	267489	265830	264141	262422	260673	258894	257085	255246	253367	251448	249489	
1980	231686	231830	231903	232047	232120	232265	232365	232495	232640	232790	232945	233100	233255	233410	233565	233720	233875	234030	234185	234340	234495	234650	234805	234960	235115	235270	235425	235580	235735	235890	236045	236200	236355	236510	236665	
1981	174766	174888	174883	174644	174279	173732	172825	172160	171258	170238	169198	168158	167118	166078	165038	164000	162960	161920	160880	160000	159000	158000	157000	156000	155000	154000	153000	152000	151000	150000	149000	148000	147000	146000	145000	
1982	291632	292491	292921	292904	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204	293204
1983	298623	298211	293665	290847	288224	285533	282858	280194	277625	274752	271814	268876	265938	262999	260061	257123	254185	251247	248309	245371	242433	239495	236557	233619	230681	227743	224805	221867	218929	215991	213053	210115	207177	204239	201301	
1984	244160	244458	244680	244829	244979	245128	245277	245426	245575	245724	245873	246022	246171	246320	246469	246618	246767	246916	247065	247214	247363	247512	247661	247810	247959	248108	248257	248406	248555	248704	248853	249002	249151	249300	249449	
1985	206331	206736	206871	207275	207411	207614	207750	208021	208300	208579	208858	209137	209416	209695	209974	210253	210532	210811	211090	211369	211648	2														

# 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	331	623	569	492	434	374	360	357	369	384	387	379	390	403	390	387	389	408	407	417	455	463	521	487				
1955	12626	12606	12596	12596	12596	12596	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606	12606				
1956	126456	126405	126355	126304	126254	126204	126154	126104	126054	126004	125954	125904	125854	125804	125754	125704	125654	125604	125554	125504	125454	125404	125354	125304	125254	125204	125154	125104	125054	125004	124954	124904	124854			
1957	133291	133239	133188	133136	133084	133033	132981	132929	132877	132825	132773	132721	132669	132617	132565	132513	132461	132409	132357	132305	132253	132201	132149	132097	132045	131993	131941	131889	131837	131785	131733	131681	131629			
1958	114555	114555	114601	114647	114693	114739	114785	114831	114877	114923	114969	115015	115061	115107	115153	115199	115245	115291	115337	115383	115429	115475	115521	115567	115613	115659	115705	115751	115797	115843	115889	115935	115981	116027		
1959	197329	197395	197460	197525	197590	197655	197720	197785	197850	197915	197980	198045	198110	198175	198240	198305	198370	198435	198500	198565	198630	198695	198760	198825	198890	198955	199020	199085	199150	199215	199280	199345	199410	199475		
1960	64804	64917	64992	65058	65124	65190	65256	65322	65388	65454	65520	65586	65652	65718	65784	65850	65916	65982	66048	66114	66180	66246	66312	66378	66444	66510	66576	66642	66708	66774	66840	66906	66972	67038		
1961	28603	28585	28567	28549	28531	28513	28495	28477	28459	28441	28423	28405	28387	28369	28351	28333	28315	28297	28279	28261	28243	28225	28207	28189	28171	28153	28135	28117	28099	28081	28063	28045	28027	28009		
1962	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371	43371		
1963	174764	175128	175491	175856	176219	176583	176946	177309	177672	178035	178398	178761	179124	179487	179850	180213	180576	180939	181302	181665	182028	182391	182754	183117	183480	183843	184206	184569	184932	185295	185658	186021	186384	186747		
1964	163282	163168	162817	162469	162122	161775	161428	161081	160734	160387	160040	159693	159346	158999	158652	158305	157958	157611	157264	156917	156570	156223	155876	155529	155182	154835	154488	154141	153794	153447	153100	152753	152406	152059	151712	
1965	128110	128271	128432	128593	128754	128915	129076	129237	129398	129559	129720	129881	129942	130003	130064	130125	130186	130247	130308	130369	130430	130491	130552	130613	130674	130735	130796	130857	130918	130979	131040	131101	131162	131223		
1966	168019	167804	167589	167374	167159	166944	166729	166514	166299	166084	165869	165654	165439	165224	165009	164794	164579	164364	164149	163934	163719	163504	163289	163074	162859	162644	162429	162214	161999	161784	161569	161354	161139	160924	160709	
1967	259312	259388	259464	259540	259616	259692	259768	259844	259920	259996	260072	260148	260224	260300	260376	260452	260528	260604	260680	260756	260832	260908	260984	261060	261136	261212	261288	261364	261440	261516	261592	261668	261744	261820		
1968	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	200228	
1969	256809	256859	256909	256959	257009	257059	257109	257159	257209	257259	257309	257359	257409	257459	257509	257559	257609	257659	257709	257759	257809	257859	257909	257959	258009	258059	258109	258159	258209	258259	258309	258359	258409	258459	258509	
1970	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	257261	
1971	172763	171917	171071	170225	169379	168533	167687	166841	165995	165149	164303	163457	162611	161765	160919	160073	159227	158381	157535	156689	155843	154997	154151	153305	152459	151613	150767	149921	149075	148229	147383	146537	145691	144845	144000	
1972	117029	116529	116029	115529	115029	114529	114029	113529	113029	112529	112029	111529	111029	110529	110029	109529	109029	108529	108029	107529	107029	106529	106029	105529	105029	104529	104029	103529	103029	102529	102029	101529	101029	100529	100029	
1973	77690	78054	79040	79614	79868	80372	80898	81424	81950	82476	83002	83528	84054	84580	85106	85632	86158	86684	87210	87736	88262	88788	89314	89840	90366	90892	91418	91944	92470	92996	93522	94048	94574	95100		
1974	201710	201525	201340	201155	200970	200785	200600	200415	200230	200045	199860	199675	199490	199305	199120	198935	198750	198565	198380	198195	198010	197825	197640	197455	197270	197085	196900	196715	196530	196345	196160	195975	195790	195605	195420	
1975	213341	212595	211850	211104	210358	209612	208866	208120	207374	206628	205882	205136	204390	203644	202898	202152	201406	200660	199914	199168	198422	197676	196930	196184	195438	194692	193946	193200	192454	191708	190962	190216	189470	188724	187978	187232
1976	168888	168712	168536	168360	168184	168008	167832	167656	167480	167304	167128	166952	166776	166600	166424	166248	166072	165896	165720	165544	165368	165192	165016	164840	164664	164488	164312	164136	163960	163784	163608	163432	163256	163080	162904	
1977	65125	65030	64935	64840	64745	64650	64555	64460	64365	64270	64175	64080	63985	63890	63795	63700	63605	63510	63415	63320	63225	63130	63035	62940	62845	62750	62655	62560	62465	62370	62275	62180	62085	61990	61895	
1978	132512	132594	132676	132758	132840	132922	133004	133086	133168	133250	133332	133414	133496	133578	133660	133742	133824	133906	133988	134070	134152	134234	134316	134398	134480	134562	134644	134726	134808	134890	134972	135054	135136	135218	135300	
1979	254687	255773	256859	257945	259031	260117	261203	262289	263375	264461	265547	266633	267719	268805	269891	270977	272063	273149	274235	275321	276407	277493	278579	279665	280751	281837	282923	284009	285095	286181	287267	288353	289439	290525	291611	
1980	384338	386048	387758	389468	391178	392888	394598	396308	398018	399728	401438	403148	404858	406568	408278	409988	411698	413408	415118	416828	418538	420248	421958	423668	425378	427088	428798	430508	432218	433928	435638	437348	439058	440768	442478	444188
1981	237949	237728	237507	237286	237065	236844	236623	236402	236181	235960	235739	235518	235297	235076	234855	234634	234413	234192	233971	233750	233529	233308	233087	232866	232645	232424	232203	231982	231761	231540	231319	231098	230877	230656	230435	
1982	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	182916	
1983	367906	376286	384666	393046	401426	409806	418186	426566	434946	443326	451706	460086	468466	476846	485226	493606	501986	510366	518746	527126	535506	543886	552266	560646	569026	577406	585786	594166	602546	610926	619306	627686	636066	644446	652826	661206
1984	263574	262964	262354	261744	261134	260524	259914	259304	258694	258084	257474	256864	256254	255644	255034	254424	253814	253204	252594	251984	251374	250764	250154	249544	248934	248324	247714	247104	246494	245884	245274	244664	244054	243444	242834	242224
198																																				



# 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	24987	25800	27080	28752	30787	33066	35662	38308	40610	42524	44513	46388	48500	50632	52450	54380	56948	60040	63089	66194	68504	70430	72323	73805	75100	76304	77312	78608	79770	80574	
1955	6209	6400	6560	6705	6862	7110	7453	7957	8381	8804	9343	10168	11090	11911	12411	12646	12833	13290	13841	14635	15525	16717	17940	18230	18982	20443	21152	22283	23816	25552	26836	
1956	174522	175563	176844	179003	181102	183035	184859	186305	187688	188995	189984	190816	191520	192098	192566	192958	193377	194401	195400	196387	197000	198568	200231	202678	211114	21897	221630	224912	228193	231671	235060	
1957	123556	125063	126481	128411	124817	125307	125946	126534	126988	127450	127925	128400	128875	129350	129825	130300	130775	131250	131725	132200	132675	133150	133625	134100	134575	135050	135525	136000	136475	136950	137425	137900
1958	229327	231600	234411	237964	242442	247876	253818	259660	266231	272636	279857	285345	290355	294905	299000	302680	305950	309820	313300	316400	319130	321590	323880	325990	327920	329670	331240	332630	333850	334910	335810	336650
1959	198219	199806	200327	200718	200979	201134	201268	201358	201391	201370	201290	201159	200987	200775	200523	200231	199900	199530	199120	198680	198210	197710	197190	196650	196090	195510	194920	194320	193710	193090	192460	191820
1960	111742	112572	113356	114232	114785	115430	116122	116832	117639	118683	119110	119663	119932	120025	120045	120080	120130	120195	120275	120365	120460	120560	120665	120775	120890	121010	121135	121265	121400	121540	121685	121835
1961	38204	35487	35830	36185	36435	36727	36960	37240	37489	37759	38020	38257	38473	38659	38829	39192	39574	40068	40651	41186	41736	42334	42934	43534	43975	44358	44682	44950	45163	45319	45499	45690
1962	212733	214150	216203	218125	220322	222486	224772	226867	228759	230748	232736	234654	236591	238335	240203	241937	243275	244884	246894	249340	252180	255440	259150	263350	268100	273450	279450	286150	293600	301850	310000	318100
1963	172454	173009	173312	173554	174038	174200	174522	174825	175128	175431	175819	176300	176875	177651	179006	181225	184419	187436	189206	190751	192093	193263	194300	195220	196040	196770	197420	197900	198260	198510	198670	198730
1964	159911	163340	166706	169954	173054	176922	181541	186959	193116	199950	207419	215592	224520	234229	244729	256000	268000	280776	294345	309800	327123	346128	366750	389300	413800	440200	468500	498800	531100	565500	602000	640500
1965	293969	292491	290876	289426	288301	287598	286958	286419	285818	285219	284719	284200	283678	283155	282630	282100	281575	281045	280510	279970	279425	278875	278320	277760	277195	276625	276050	275475	274890	274295	273690	273075
1966	224488	225535	226516	227358	228043	228530	228930	229240	229465	229605	229660	229720	229785	229855	229920	229980	229995	229960	229880	229750	229570	229340	229060	228730	228350	227920	227440	226910	226330	225700	225020	224300
1967	177584	178818	180300	181657	183161	184671	186431	188431	190699	193234	196058	199190	202640	206420	210550	215050	220000	225400	231300	237700	244600	252000	260000	268500	277500	287000	297000	307500	318500	330000	342000	354500
1968	177584	178818	180300	181657	183161	184671	186431	188431	190699	193234	196058	199190	202640	206420	210550	215050	220000	225400	231300	237700	244600	252000	260000	268500	277500	287000	297000	307500	318500	330000	342000	354500
1969	177584	178818	180300	181657	183161	184671	186431	188431	190699	193234	196058	199190	202640	206420	210550	215050	220000	225400	231300	237700	244600	252000	260000	268500	277500	287000	297000	307500	318500	330000	342000	354500
1970	177584	178818	180300	181657	183161	184671	186431	188431	190699	193234	196058	199190	202640	206420	210550	215050	220000	225400	231300	237700	244600	252000	260000	268500	277500	287000	297000	307500	318500	330000	342000	354500
1971	146481	149547	153225	157525	162450	168000	174275	181375	189300	198050	207625	218025	229250	241400	254400	269200	285800	304200	324400	346500	370500	396500	424500	454500	486500	520500	555500	592500	631500	672500	715500	760500
1972	113265	113771	114325	114973	115485	115968	116466	116935	117452	117972	118540	119063	119635	120250	120910	121610	122350	123130	123950	124810	125710	126650	127630	128650	129710	130800	131920	133070	134250	135460	136700	137970
1973	113265	113771	114325	114973	115485	115968	116466	116935	117452	117972	118540	119063	119635	120250	120910	121610	122350	123130	123950	124810	125710	126650	127630	128650	129710	130800	131920	133070	134250	135460	136700	137970
1974	292168	294274	297296	300688	304183	307678	311263	314948	318733	322618	326603	330688	334873	339158	343543	348028	352613	357298	362083	366968	371953	377038	382223	387508	392893	398378	403963	409648	415433	421318	427303	433388
1975	216543	218177	220051	221876	223651	225376	227051	228676	230251	231776	233251	234676	236051	237376	238651	239876	241051	242176	243251	244276	245251	246176	247051	247876	248651	249376	250051	250676	251251	251776	252251	252726
1976	156200	156851	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103	157103
1977	66147	66372	66549	66666	66727	66826	66963	67138	67350	67599	67886	68211	68586	69011	69536	70171	70916	71781	72766	73881	75136	76541	78106	79841	81756	83861	86176	88701	91446	94411	97606	
1978	284041	284382	284723	285064	285405	285746	286087	286428	286769	287110	287451	287792	288133	288474	288815	289156	289497	289838	290179	290520	290861	291202	291543	291884	292225	292566	292907	293248	293589	293930	294271	294612
1979	333208	335507	337904	340378	342928	345553	348253	351028	353878	356803	359803	362878	366028	369353	372853	376528	380378	384403	388603	392978	397528	402253	407153	412228	417478	422903	428503	434278	440228	446353	452653	459128
1980	389396	393023	396871	401513	406572	411957	417741	423928	430518	437513	444918	452728	460953	469588	478633	488088	497953	508228	518913	529908	541213	552828	564753	577088	589833	602988	616553	630528	644913	659708	674923	690558
1981	267327	270471	273083	276158	279688	283683	288153	293103	298528	304453	310888	317833	325288	333253	341728	350713	360208	370213	380728	391753	403288	415333	427888	440953	454528	468603	483188	498283	513988	530203	546928	564163
1982	370511	377158	383853	389553	395253	400953	406653	412353	418053	423753	429453	435153	440853	446553	452253	457953	463653	469353	475053	480753	486453	492153	497853	503553	509253	514953	520653	526353	532053	537753	543453	549153
1983	390633	377346	373498	370324	367162	364476	361985	359642	357401	355253	353203	351253	349403	347653	346003	344453	343003	341653	340403	339253	338203	337253	336403	335653	335003	334453	333903	333453	333003	332653	332303	332003
1984	314281	315278	316396	317513	31823																											



# 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	66240	67019	66524	66392	65259	64329	63647	63069	62686	62110	61270	60260	59500	58633	58137	57470	56897	55916	54920	54052	53152	52342	51478	50658	49878	49260	48778	47976	47084	46388	45456
1955	38372	38886	38473	37955	37283	36519	35830	35204	34568	34147	33565	32963	32302	31725	31280	30902	30487	30228	29870	29730	29471	29175	28903	28603	28284	27946	27523	27089	26650	26209	25804
1956	282874	282714	282507	281200	280171	279308	278524	277592	276483	275285	274207	272841	271096	269536	268283	267300	266536	265982	265628	265494	265592	265904	266396	267062	267903	268925	270133	271523	273100	274871	276841
1957	106070	179500	179251	178301	177380	176473	175552	174622	173684	172726	171770	170770	169729	168653	167543	166403	165234	164047	162836	161604	160354	159087	157808	156517	155215	153903	152581	151249	149907	148555	147804
1958	448700	447892	446386	444584	442479	440074	437375	434381	431094	427511	423634	419463	415000	410246	405202	400068	394845	389534	384136	378663	373127	367538	361896	356212	350497	344753	338989	333207	327408	321594	315766
1959	137507	134631	131795	129209	126096	122840	120616	118683	117034	115110	113005	109835	106719	103658	100652	97706	94802	91950	89152	86416	83743	81134	78590	76112	73703	71364	69096	66908	64801	62775	60830
1960	80114	79459	78913	78179	77510	76876	76277	75539	74756	73938	73020	72036	71047	70068	69102	68104	67082	65966	64895	64097	63292	62480	61681	60931	60152	59408	58625	57871	57146	56430	55729
1961	49169	48848	48693	47567	46890	46489	45997	45097	44587	44012	43440	42743	42082	41417	40765	40112	39439	38777	38093	37391	36727	36102	35478	34859	34106	33504	32902	32302	31685	31029	
1962	173070	172404	171617	171012	170285	170709	170406	169901	169146	168137	166955	165693	164359	162964	161518	160031	158504	156946	155366	153774	152170	150554	148927	147289	145641	143984	142328	140672	139016	137360	135704
1963	369170	369170	369367	368805	368440	367984	367619	367437	367255	367137	367002	367119	366982	366826	366651	366454	366242	366015	365774	365520	365254	364975	364684	364381	364066	363740	363403	363056	362700	362343	361986
1964	173494	171659	170225	168483	166833	165112	163282	161423	159388	157253	155150	152969	150694	148359	145964	143520	141032	138500	136036	133642	131318	129064	126880	124767	122725	120754	118854	116925	115068	113281	111564
1965	260192	263980	265207	265903	266700	267497	268215	268894	269537	270144	270711	271244	271744	272211	272654	273073	273468	273839	274187	274513	274818	275103	275368	275613	275838	276043	276228	276393	276538	276663	276768
1966	186645	187251	187799	188291	188724	189100	189423	189694	189914	189988	190022	190024	190084	190124	190141	190155	190166	190174	190179	190181	190181	190179	190174	190166	190155	190141	190124	190100	190073	190044	190013
1967	481816	488236	494435	502621	508724	512598	516271	519905	521370	522683	524001	525329	526669	528019	529377	530744	532119	533502	534893	536292	537699	539114	540537	541968	543407	544854	546308	547769	549236	550709	552188
1968	223721	221845	219878	218257	216543	214769	212934	211041	209022	206847	204484	202039	199514	196918	194254	191531	188759	186038	183368	180749	178181	175664	173200	170789	168433	166133	163889	161701	159569	157494	155476
1969	570688	573682	576168	578256	579984	581199	581928	582268	582545	582768	582939	583067	583154	583200	583216	583200	583154	583067	582939	582768	582545	582268	581928	581599	581199	580728	580200	579624	579000	578328	577608
1970	315949	314098	313090	311917	310496	308912	307189	305326	303433	301519	299584	297628	295651	293654	291636	289597	287538	285460	283363	281246	279110	276954	274778	272581	270363	268124	265865	263586	261287	258968	256629
1971	234944	234015	233230	232376	231382	230107	228765	227268	225745	224209	222747	221291	219840	218394	216953	215517	214086	212660	211240	209828	208424	207028	205639	204256	202879	201508	200143	198784	197431	196084	194743
1972	112588	111168	110063	108962	107804	106587	105339	104208	102998	101796	100555	99342	98074	96750	95380	93964	92503	91098	89653	88168	86744	85281	83780	82251	80704	79139	77556	75955	74336	72690	71024
1973	398974	397933	396816	395195	393783	392591	390695	389007	387846	386814	385910	385133	384373	383633	382910	382204	381516	380846	380193	379557	378936	378330	377739	377163	376603	376067	375555	375067	374603	374163	373744
1974	470813	470191	469504	468724	467844	466863	465783	464604	463326	461950	460476	458904	457234	455466	453600	451636	449574	447414	445156	442800	440346	437794	435144	432400	429562	426636	423622	420520	417332	414056	410700
1975	337282	336064	334602	332961	331244	329466	327634	325750	323824	321856	320044	318188	316288	314344	312356	310324	308248	306128	303964	301756	299504	297214	294886	292520	290116	287674	285204	282706	280182	277624	275032
1976	130695	128436	126037	123500	120756	117875	114869	111765	108573	105294	101928	98484	94941	91400	87870	84351	80844	77349	73866	70396	66939	63494	60061	56640	53231	49834	46449	43076	39716	36368	33032
1977	78023	77521	76978	76393	75763	75089	74371	73610	72857	72020	71100	70106	69039	67899	66684	65404	64069	62679	61234	59744	58204	56614	54984	53314	51604	49864	48094	46294	44464	42604	40714
1978	485035	485074	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094	485094
1979	411663	409574	407486	405398	403310	401222	399134	397046	394958	392870	390782	388694	386606	384518	382430	380342	378254	376166	374078	371990	370002	367914	365826	363738	361650	359562	357474	355386	353298	351210	349122
1980	583870	582824	581878	580932	579986	579040	578094	577148	576202	575256	574310	573364	572418	571472	570526	569580	568634	567688	566742	565796	564850	563904	562958	562012	561066	560120	559174	558228	557282	556336	555390
1981	281644	279672	278106	276428	274650	272772	270894	268916	266838	264660	262382	260004	257526	254948	252270	249592	246814	243936	240958	237880	234702	231424	228046	224568	221090	217612	214134	210656	207178	203700	200222
1982	558616	558061	557492	556923	556354	555785	555216	554647	554078	553509	552940	552371	551802	551233	550664	550095	549526	548957	548388	547819	547250	546681	546112	545543	544974	544405	543836	543267	542698	542129	541560
1983	627678	627698	628659	629620	630705	631816	632951	634110	635293	636500	637731	638986	640265	641568	642895	644246	645621	647020	648443	649890	651361	652856	654375	655918	657485	659076	660691	662330	663993	665680	667391
1984	395041	394367	393702	393023	392344	391665	390986	390307	389628	388949	388270	387591	386912	386233	385554	384875	384196	383517	382838	382159	381480	380801	380122	379443	378764	378085	377406	376727	376048	375369	374690
1985	365587	364611	363635	362659	361683	360707	359731	358755	357779	356803	355827	354851	353875	352899	351923	350947	349971	348995	348019	347043	346067	345091	344115	343139	342163	341187	340211	339235	338259	337283	336307
1986	551243	550003	548775	547548	546321	545094	543867	542640	541413	540186	538959	537732	536505	535278	534051	532824	531597	530370	529143	527916	526689	525462	524235	523008	521781	520554	519327	518100	516873	515646	514419
1987	250201	250041	249828	249561	249244	248877	248460	247993	247476	246909	246292	245625	244908	244141	243324	242457	241540	240573	239606	238639	237672	236705	235738	234771	233804	232837	231870	230903	229936	228969	227992
1988	142287	141064	139796	138426	136911																										

# 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	37950	37279	36418	35536	34740	33960	33010	32289	31566	30882	30160	29495	28878	28338	27892	27438	27114	26753	26296	25783	25290	24859	24508	24083	23673		
1955	25439	25100	24648	24212	23847	23447	23115	22815	22545	22304	22085	21895	21732	21594	21480	21388	21316	21262	21225	21203	21192	21192	21203	21225	21258	21301	21353	21414	21482	21556	21635	21718	
1956	25028	24983	24943	24908	24878	24852	24830	24811	24794	24779	24764	24751	24739	24728	24718	24709	24701	24693	24685	24677	24669	24661	24653	24645	24637	24629	24621	24613	24605	24597	24589	24581	
1957	146903	145715	144684	143690	142742	141812	140900	139995	139142	138344	137599	136909	136274	135693	135165	134688	134262	133886	133560	133283	133054	132872	132736	132645	132598	132554	132512	132471	132431	132391	132351	132311	132271
1958	367433	363363	359220	355027	350775	346471	342115	337715	333271	328784	324254	319681	315065	310406	305704	300960	296174	291346	286476	281564	276610	271614	266585	261522	256426	251307	246165	241000	235812	230601	225367	220111	214832
1959	83334	82614	81734	80635	79305	77738	75936	73900	71542	68844	65789	62304	58340	53856	48894	43494	37700	31566	25049	18516	12026	5529	-10934	-27500	-45454	-64746	-85336	-107220	-130384	-154808	-181502	-209476	
1960	55001	54244	53475	52711	52014	51284	50525	49864	49279	48768	48339	47983	47693	47467	47304	47194	47136	47120	47136	47174	47234	47316	47418	47540	47682	47834	47996	48168	48350	48542	48744	48956	
1961	30506	29992	29415	28821	28532	28160	27906	27434	27038	26667	26311	25978	25668	25380	25114	24870	24646	24442	24258	24094	23950	23826	23712	23608	23514	23430	23356	23292	23238	23194	23160	23126	23092
1962	129158	129707	128054	127351	126749	126046	125209	124428	123500	122564	122280	121547	120666	120201	119632	119015	118493	117971	117450	116980	116523	116077	115642	115218	114804	114391	113978	113565	113152	112739	112326	111913	111500
1963	336156	330360	330362	328289	325721	322838	320697	319501	318572	316987	315106	312657	310335	307668	304837	301962	299170	296259	293226	290232	287258	284269	281220	278167	275045	271911	268720	265536	262356	259181	256011	252846	249686
1964	122182	121206	120248	119480	118635	117829	117307	116842	116484	116188	115915	115654	115404	115164	114934	114714	114504	114304	114114	113934	113764	113604	113454	113314	113184	113064	112954	112854	112764	112684	112614	112554	112504
1965	275463	274835	273737	272486	271251	270169	268804	267689	266823	266179	265759	265534	265404	265374	265344	265314	265284	265254	265224	265194	265164	265134	265104	265074	265044	265014	264984	264954	264924	264894	264864	264834	264804
1966	136333	137598	136302	135049	133806	132569	131289	129964	128606	127224	125818	124398	122964	121518	120060	118588	117112	115632	114148	112660	111168	109672	108172	106668	105160	103648	102132	100606	99080	97550	96016	94478	92936
1967	524419	522490	518848	517137	513883	510552	506900	503048	499104	494300	488282	481622	474688	467500	460168	452704	445216	437704	430176	422632	415072	407496	400004	392596	385264	377908	370528	363124	355696	348244	340768	333276	325760
1968	166474	164937	163408	161771	160085	158327	156489	154410	152133	150472	148852	146542	144520	142696	141080	139672	138472	137480	136696	136032	135488	135064	134760	134576	134504	134544	134696	134960	135336	135824	136424	137136	137960
1969	581157	548910	545900	542243	538256	534174	531534	529662	528383	527662	527500	527936	528968	530608	532880	535800	539368	543592	548472	554016	560328	567408	575264	584800	596032	609072	624016	640960	660000	682240	707680	735424	765568
1970	263477	261041	258618	256288	253998	251656	249279	246868	244434	241988	239540	237096	234656	232224	229800	227384	224976	222584	220208	217848	215504	213176	210864	208568	206288	204024	201776	199544	197328	195128	192944	190776	188624
1971	167821	165862	163789	161603	159318	156944	154488	151952	149344	146672	143944	141168	138352	135504	132624	129712	126784	123840	120888	117936	114984	112032	109080	106128	103176	100224	97272	94320	91368	88416	85464	82512	79560
1972	74867	74041	73191	72348	71512	70676	69837	69000	68164	67336	66508	65680	64852	64024	63196	62368	61540	60712	59884	59056	58228	57400	56572	55744	54916	54088	53260	52432	51604	50776	49948	49120	48292
1973	318697	317214	314668	312336	309912	307487	305061	302635	300209	297784	295358	292932	290506	288080	285654	283228	280802	278376	275950	273524	271098	268672	266246	263820	261394	258968	256542	254116	251690	249264	246838	244412	241986
1974	409174	407455	404677	402201	399922	397844	395966	394287	392711	391235	390000	389000	388200	387500	386900	386400	386000	385700	385500	385400	385400	385500	385700	386000	386400	386900	387500	388200	389000	390000	391200	392600	394200
1975	270088	267986	264700	261877	258620	255083	251264	247179	242829	238224	233472	228584	223560	218416	213064	207616	202080	196464	190784	185048	179264	173440	167584	161704	155808	149896	143968	138024	132064	126096	120128	114160	108192
1976	86346	87760	86845	86096	85330	84530	83448	82096	80592	78944	77168	75272	73264	71144	68912	66576	64144	61616	59096	56496	53824	51072	48248	45344	42368	39328	36224	33056	29824	26528	23168	19744	16272
1977	51891	51227	50427	49688	48751	47546	46412	45446	44672	44088	43652	43344	43152	43072	43096	43224	43456	43792	44232	44776	45424	46176	47032	48096	49368	50848	52536	54432	56544	58872	61424	64192	67176
1978	466556	460400	451639	440898	427645	412407	395607	377744	358944	339488	319632	299584	279536	259600	239872	220464	201384	182736	164544	146912	129840	113376	97512	82336	67760	53784	40416	27648	15480	4112	-11648	-24912	-38688
1979	320707	317168	313566	309815	306340	303220	299128	295173	291262	287496	283883	280424	277120	273976	270992	268168	265504	263000	260656	258472	256448	254576	252856	251288	249872	248608	247496	246536	245728	245072	244568	244208	243992
1980	537775	534786	531435	528222	524356	520286	516009	511609	507079	502433	497676	492804	487824	482736	477544	472248	466848	461344	455736	450024	444208	438296	432288	426184	419984	413696	407328	400880	394352	387764	381116	374408	367740
1981	217432	215628	213682	212043	210470	208836	207142	205502	203711	201776	200080	198536	197040	195592	194240	192984	191824	190760	189792	188920	188144	187464	186880	186392	185900	185416	184936	184460	184000	183648	183304	182968	182640
1982	509249	505932	502420	498680	494628	490264	485592	480624	475368	470000	464432	458664	452704	446552	440208	433672	427048	420236	413336	406348	399272	392112	384864	377528	370104	362592	355096	347616	340152	332704	325272	317856	310456
1983	519516	521833	524945	528128	532295	537448	543592	550736	558880	568024	578168	589312	601456	614600	628744	643888	660032	677176	695320	714464	734608	755752	777896	801040	826184	853328	882472	913616	946760	981904	1019048	1059152	1100256
1984	351834	349828	347939	345989	343989	341650	339028	336176	333104	329928	326552	322984	319232	315304	311216	306976	302592	298064	293392	288576	283616	278512	273272	267904	262312	256600	250768	244816	238744	232544	226216	219768	213200
1985	265291	262858	260390	257882	255336	252752	250128	247464	244760	242016	239232	236408	233544	230640	227696	224712	221688	218624	215520	212376	209192	205968	202704	199400	196056	192672	189248	185784	182280	178736	175152	171528	167864
1986	465801	462065	458336	454723	451229	447848	444580	441424	438380	435448	432624	429904	427288	424776	422368	420064	417864	415768	413776														

# ISABELLA RESERVOIR KERN RIVER BASIN, CALIFORNIA MIDNIGHT STORAGE

**SEPTEMBER**

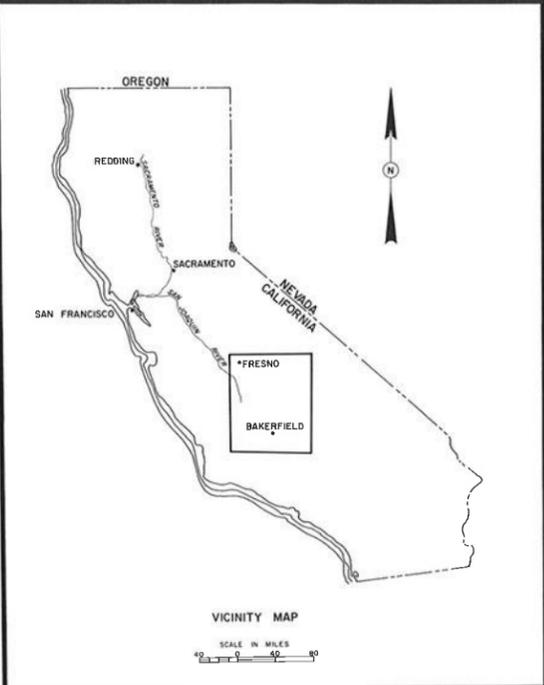
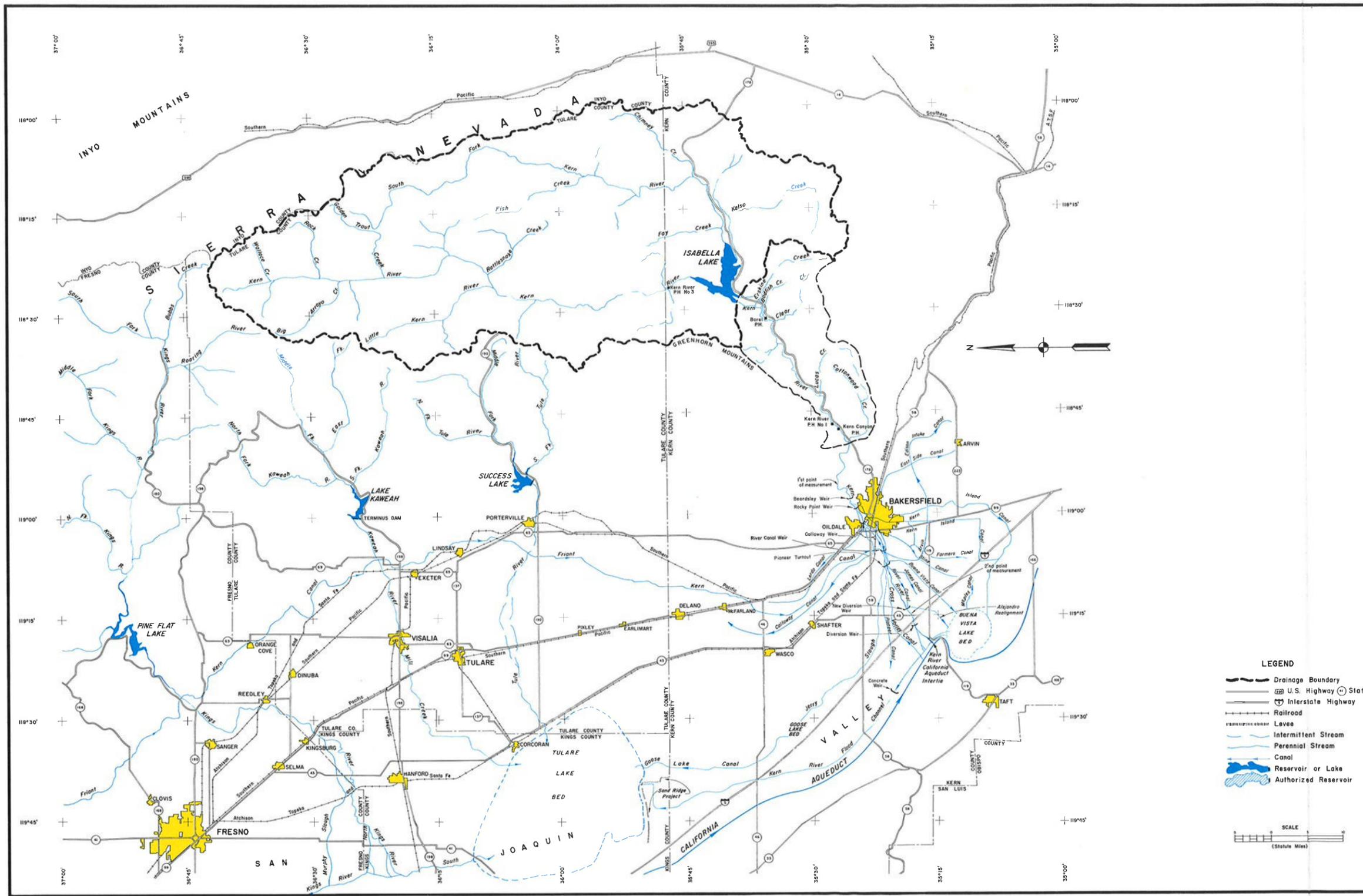
*Units in acre-feet*

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	22935	21980	21590	21200	20788	20410	19982	19500	19092	18684	18284	17894	17504	17124	16754	16394	16044	15704	15374	15054	14744	14444	14154	13874	13594	13344	13144	12944	
1955	18643	18617	18590	18550	18524	18490	18457	18425	18394	18364	18334	18304	18274	18244	18214	18184	18154	18124	18094	18064	18034	18004	17974	17944	17914	17884	17854	17824	17794	17764	
1956	187562	186494	185500	184482	183413	182319	180955	179621	178448	177362	176366	175458	174638	173904	173254	172694	172224	171844	171554	171354	171244	171214	171264	171394	171614	171924	172324	172814	173394	174074	
1957	120343	119889	119300	118683	118066	117402	116785	116123	115523	114933	114373	113843	113343	112873	112433	112023	111633	111273	110943	110633	110343	110073	109823	109593	109383	109193	109023	108873	108743	108623	108513
1958	275463	273580	271637	269637	267584	265495	263378	261233	259068	256884	254681	252458	250215	247952	245669	243366	241043	238699	236335	233961	231577	229183	226779	224365	221941	219507	217063	214609	212145	209671	207187
1959	77616	77284	76912	76509	76077	75625	75164	74694	74215	73727	73230	72724	72209	71685	71152	70610	70058	69496	68924	68342	67750	67148	66536	65914	65282	64640	63988	63326	62654	61972	61280
1960	36331	35997	35768	35559	35330	34996	34688	34428	34207	34066	33966	33946	33946	33946	33946	33946	33946	33946	33946	33946	33946	33946	33946	33946	33946	33946	33946	33946	33946	33946	
1961	24089	23883	23677	23461	23202	22978	22736	22517	22317	22134	21967	21816	21680	21558	21450	21354	21270	21198	21138	21088	21048	21018	21000	20990	20988	20992	20998	21004	21010	21016	21022
1962	103946	103409	102872	102335	101795	101256	100716	100176	99636	99096	98556	98016	97476	96936	96396	95856	95316	94776	94236	93696	93156	92616	92076	91536	90996	90456	89916	89376	88836	88296	87756
1963	258920	257253	255385	253381	251201	250005	248791	247558	246306	245034	243742	242430	241098	239746	238374	236982	235570	234138	232686	231214	229712	228180	226618	225026	223404	221752	220070	218358	216606	214824	213002
1964	101455	101286	101124	101014	101074	101094	101078	101056	101028	100992	100948	100896	100836	100768	100692	100608	100516	100416	100308	100192	99968	99784	99560	99296	98992	98648	98264	97840	97376	96872	96328
1965	242154	240853	239652	238525	237467	236474	235544	234674	233862	233108	232412	231774	231194	230672	230208	229802	229454	229164	228932	228758	228642	228584	228584	228642	228758	228932	229164	229454	229802	230208	230672
1966	101330	100862	100439	99974	99553	99077	98642	98244	97882	97556	97266	97008	96782	96588	96426	96296	96198	96132	96098	96086	96096	96126	96176	96246	96336	96446	96576	96726	96896	97086	97296
1967	368436	364987	361285	357891	354472	351000	347280	343316	339462	335844	332544	329544	326844	324444	322344	320544	319044	317844	316944	316344	315944	315744	315744	315844	316044	316444	317044	317844	318944	320344	322044
1968	127502	127203	126904	126595	126286	125977	125668	125359	125050	124741	124432	124123	123814	123505	123196	122887	122578	122269	121960	121651	121342	121033	120724	120415	120106	119797	119488	119179	118870	118561	118252
1969	427910	424392	420772	417178	413793	410519	407449	404677	402121	399809	397693	395731	393923	392269	390769	389423	388231	387193	386209	385279	384403	383581	382813	382099	381439	380833	380281	379783	379339	378945	378601
1970	193928	192477	191196	189800	188519	187378	186303	185303	184377	183522	182733	182004	181340	180744	180218	179756	179354	178998	178686	178416	178186	178004	177868	177776	177724	177712	177724	177756	177800	177856	177924
1971	136982	136088	135194	134300	133406	132512	131618	130724	129830	128936	128042	127148	126254	125360	124466	123572	122678	121784	120890	120000	119110	118220	117330	116440	115550	114660	113770	112880	111990	111100	110210
1972	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528
1973	262315	262170	262025	261880	261735	261590	261445	261300	261155	261010	260865	260720	260575	260430	260285	260140	259995	259850	259705	259560	259415	259270	259125	258980	258835	258690	258545	258400	258255	258110	257965
1974	330969	329802	328635	327468	326301	325134	323967	322800	321633	320466	319299	318132	316965	315798	314631	313464	312297	311130	309963	308796	307629	306462	305295	304128	302961	301794	300627	299460	298293	297126	295959
1975	196675	195443	194280	193184	192288	191384	190492	189727	189154	188727	188431	188264	188218	188284	188451	188722	189097	189576	190159	190846	191637	192532	193531	194634	195841	197152	198567	199986	201409	202836	204267
1976	68487	67788	67148	66566	66063	65657	65348	65132	65006	64961	64981	64996	64996	64996	64996	64996	64996	64996	64996	64996	64996	64996	64996	64996	64996	64996	64996	64996	64996	64996	64996
1977	39088	38894	38780	38649	38540	38453	38383	38333	38303	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293	38293
1978	383379	382213	381046	379880	378713	377546	376380	375213	374046	372880	371713	370546	369380	368213	367046	365880	364713	363546	362380	361213	360046	358880	357713	356546	355380	354213	353046	351880	350713	349546	348380
1979	239607	239406	239392	239406	239430	239464	239508	239562	239626	239700	239784	239878	239982	240096	240220	240354	240508	240682	240876	241090	241324	241578	241852	242146	242460	242794	243148	243532	243946	244380	244834
1980	405306	401901	398417	394945	391478	388008	384536	381064	377592	374120	370648	367176	363704	360232	356760	353288	349816	346344	342872	339400	335928	332456	328984	325512	322040	318568	315096	311624	308152	304680	301208
1981	177334	176720	176292	175925	175741	175598	175490	175416	175367	175342	175338	175344	175350	175356	175362	175368	175374	175380	175386	175392	175398	175404	175410	175416	175422	175428	175434	175440	175446	175452	175458
1982	405696	403360	401224	399479	397740	396812	395684	394397	392960	391403	389734	387963	386092	384121	382050	379879	377608	375237	372766	370195	367524	364753	361882	358911	355840	352669	349408	346057	342616	339085	335464
1983	498660	494322	489178	483294	476684	469357	461302	452527	443042	432847	422052	410657	398672	386097	372932	359177	344832	330007	314712	298947	282652	265827	248472	230607	212242	193377	174012	154147	133782	112917	91552
1984	297825	296827	295850	294380	292324	290701	289427	288504	287931	287708	287746	287944	288302	288820	289508	290366	291394	292592	293960	295498	297206	299084	301132	303360	305778	308386	311184	314172	317350	320718	324276
1985	324740	323394	322192	321192	320392	319792	319392	319192	319192	319392	319792	320392	321192	322192	323392	324792	326392	328192	330192	332392	334892	337692	340792	344192	347892	351892	356192	360792	365692	370792	376192
1986	373277	370231	367306	364512	361848	359314	356900	354616	352462	350438	348544	346780	345136	343612	342208	340924	339760	338716	337792	336988	336304	335740	335306	334992	334798	334714	334740	334776	334822	334878	334944
1987	163383	162743	162193	161743	161393	161143	160993	160943	160993	161043	161093	161143	161193	161243	161293	161343	161393	161443	161493	161543	161593	161643	161693	161743	161793	161843	161893	161943	161993	162043	162093
1988	80268	80068	79982	79903	79834	79784	79754	79744	79754	79764	79774	79784	79794	79804	79814	79824	79834	79844													









**LEGEND**

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

**SCALE**  
(Statute Miles)

**ISABELLA LAKE  
KERN RIVER, CALIFORNIA**

**GENERAL MAP**

CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA

Prepared: C.D.M. Date: NOVEMBER 1977  
Drawn: T.K.B.