

KERN RIVER 1989



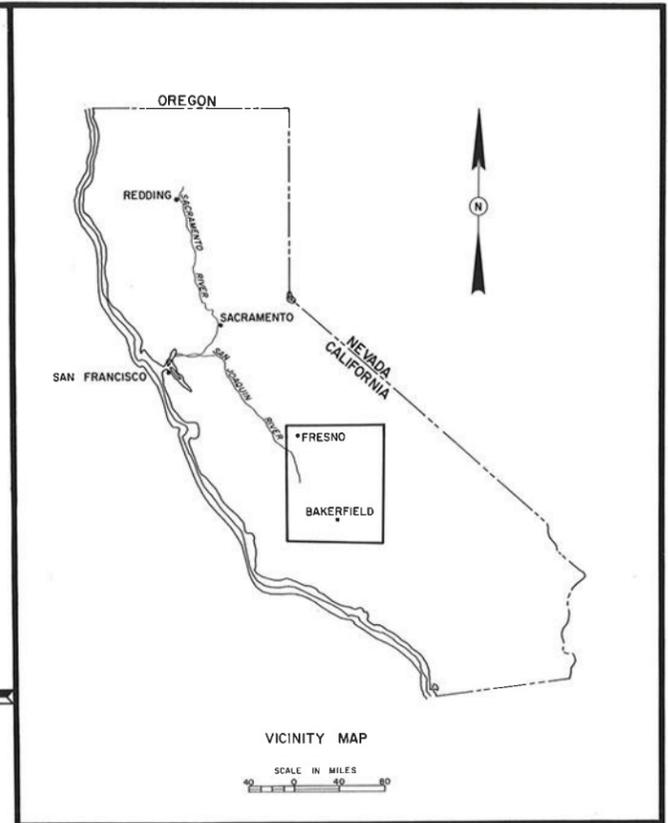
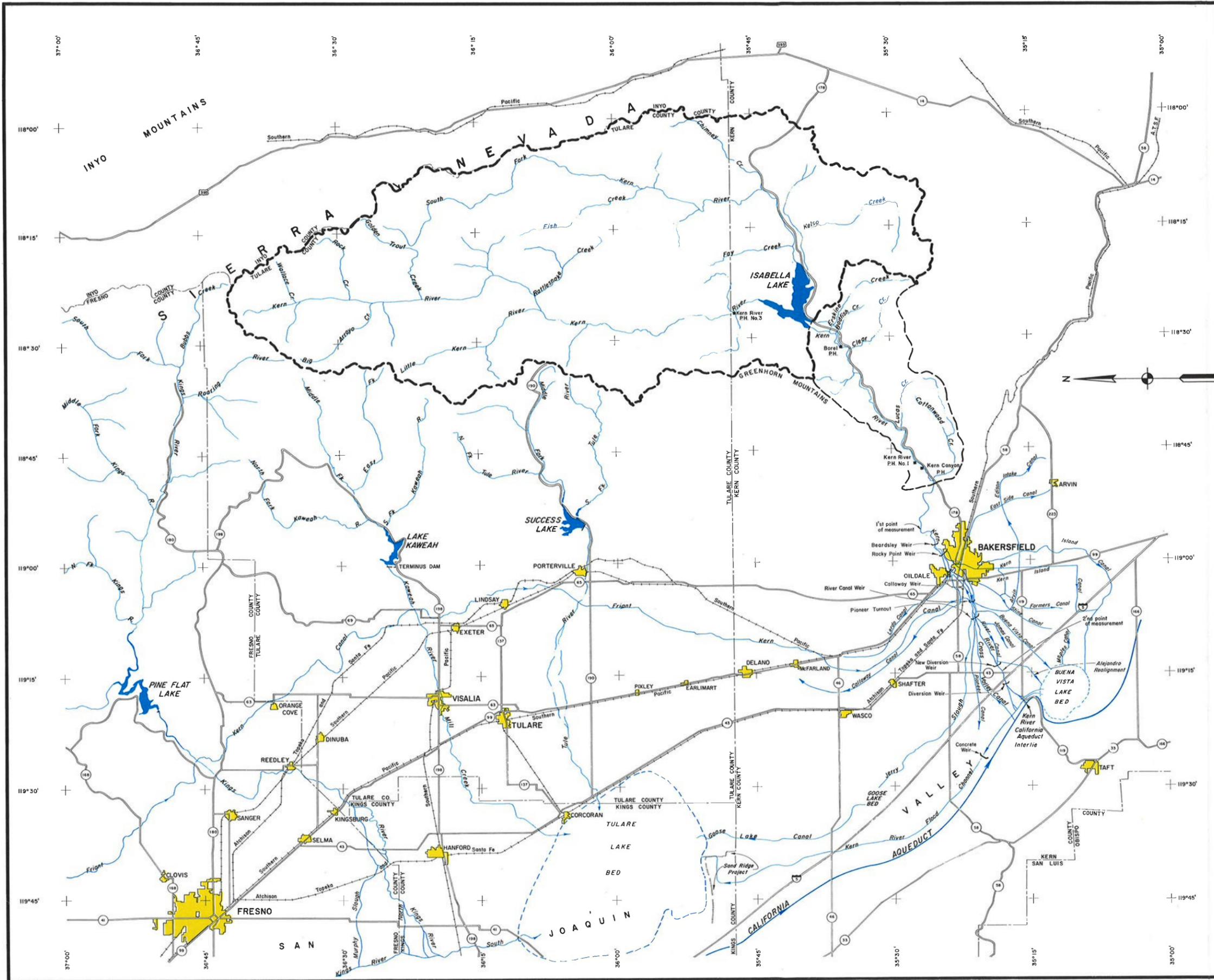
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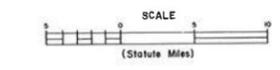
1989
HYDROGRAPHIC ANNUAL REPORT

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



**ISABELLA LAKE
KERN RIVER, CALIFORNIA**

GENERAL MAP

CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA

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

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
Measurements and Estimates were not made prior to September 29, 1893...																	
1893	acre-feet										32,864	30,827	31,757	--	--	--	--
	mean s. f. d.										534	518	516	--	--	--	--
1894	acre-feet	40,647	39,816	61,548	88,974	98,801	64,564	43,061	20,565	14,759	17,179	14,501	28,911	533,326	--	--	--
	mean s. f. d.	661	717	1,001	1,495	1,607	1,085	700	334	248	279	244	470	--	--	--	737
1895	acre-feet	49,769	69,521	84,756	162,071	268,635	172,890	91,133	38,672	20,452	20,991	20,604	24,758	1,023,052	2,208	--	--
	mean s. f. d.	809	1,252	1,374	2,724	4,369	2,906	1,482	629	344	327	346	403	--	--	--	1,413
1896	acre-feet	45,951	35,510	58,494	57,864	86,174	146,124	82,760	29,885	18,061	16,401	21,108	21,360	619,692	3,611	223	854
	mean s. f. d.	747	617	951	972	1,401	2,456	1,346	486	304	267	355	347	--	--	--	--
1897	acre-feet	22,949	44,941	56,756	173,393	281,639	137,393	61,837	28,842	17,728	20,888	21,146	25,922	893,434	5,342	260	1,234
	mean s. f. d.	373	809	923	2,914	4,580	2,309	1,006	469	298	340	355	422	--	--	--	--
1898	acre-feet	22,332	24,105	23,882	42,248	45,213	32,809	15,033	7,390	6,885	9,884	9,884	12,216	251,827	1,342	80	348
	mean s. f. d.	363	434	388	710	735	551	244	120	116	160	166	199	--	--	--	--
1899	acre-feet	16,185	16,754	36,279	53,133	51,353	79,178	30,046	9,600	6,248	9,852	13,180	17,064	338,872	4,932	86	468
	mean s. f. d.	263	302	590	893	835	1,331	489	156	105	160	221	278	--	--	--	--
1900	acre-feet	22,266	15,562	25,384	28,102	68,295	76,366	24,125	8,860	9,903	9,808	20,787	22,915	332,373	1,969	101	459
	mean s. f. d.	362	280	413	472	1,111	1,283	392	144	166	160	349	373	--	--	--	--
1901	acre-feet	30,337	47,760	78,109	83,190	186,446	197,792	114,613	59,536	20,535	19,468	22,429	19,874	880,089	4,419	226	1,216
	mean s. f. d.	493	860	1,270	1,398	3,032	3,324	1,864	968	345	317	377	323	--	--	--	--
1902	acre-feet	17,407	20,582	48,546	107,403	109,904	128,853	43,436	19,172	11,695	12,242	16,739	16,560	552,539	3,758	160	763
	mean s. f. d.	283	371	790	1,805	1,787	2,155	706	312	197	199	281	269	--	--	--	--
1903	acre-feet	21,531	25,192	35,575	74,315	132,097	139,222	53,355	18,623	11,357	10,681	12,107	12,340	546,395	3,374	150	755
	mean s. f. d.	350	454	579	1,249	2,148	2,340	868	303	191	174	203	201	--	--	--	--
1904	acre-feet	11,982	19,902	40,996	59,812	113,205	103,904	39,725	28,733	15,901	26,955	17,006	14,828	492,949	3,167	156	679
	mean s. f. d.	195	346	667	1,005	1,841	1,746	646	467	267	438	286	241	--	--	--	--
1905	acre-feet	17,258	22,001	50,598	62,047	117,748	132,766	53,835	20,134	12,563	12,744	14,041	16,074	531,809	3,247	165	735
	mean s. f. d.	281	396	823	1,043	1,915	2,231	876	327	211	207	236	261	--	--	--	--
1906	acre-feet	42,623	34,750	126,844	173,143	360,234	458,418	399,841	141,384	57,925	37,464	29,931	37,983	1,900,540	9,684	222	2,625
	mean s. f. d.	693	626	2,063	2,910	5,959	7,704	6,503	2,299	973	609	503	618	--	--	--	--
1907	acre-feet	41,697	56,834	83,272	197,720	199,950	183,995	97,083	41,940	24,623	22,428	19,747	21,611	990,900	--	--	1,369
	mean s. f. d.	678	1,023	1,354	3,323	3,252	3,092	1,579	682	414	365	332	351	--	--	--	--
1908	acre-feet	27,878	32,481	65,079	79,320	79,418	60,305	41,851	32,378	21,763	21,487	18,206	18,337	498,503	--	--	687
	mean s. f. d.	453	565	1,058	1,333	1,292	1,013	681	527	366	349	306	298	--	--	--	--
1909	acre-feet	118,441	125,050	128,649	247,402	382,617	394,086	194,870	66,224	43,448	31,214	34,350	72,292	11,838,643	11,870	295	2,540
	mean s. f. d.	1,926	2,252	2,092	4,158	6,252	6,623	3,169	1,077	730	508	577	1,176	--	--	--	--
1910	acre-feet	73,523	48,904	85,085	102,883	127,733	79,464	42,046	24,216	17,201	18,976	18,881	19,999	658,911	4,847	222	910
	mean s. f. d.	1,196	881	1,384	1,729	2,077	1,335	684	394	289	309	317	325	--	--	--	--

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
1911	acre-feet	38,241	53,944	80,166	138,113	184,481	222,076	156,498	45,880	25,222	25,422	21,691	21,650	1,013,384	5,383	273	1,400
	mean s. f. d.	622	971	1,304	2,321	3,000	3,732	2,545	746	424	413	365	352	--	--	--	--
1912	acre-feet	23,320	21,302	28,090	37,246	80,471	100,925	33,170	16,653	10,899	11,780	11,772	11,804	387,432	3,220	147	534
	mean s. f. d.	379	370	457	626	1,309	1,696	539	271	183	192	198	192	--	--	--	--
1913	acre-feet	13,019	15,731	25,191	42,494	73,561	60,738	34,929	31,454	25,357	13,402	15,368	16,596	367,840	1,976	126	508
	mean s. f. d.	212	283	410	714	1,196	1,021	568	512	425	218	258	270	--	--	--	--
1914	acre-feet	116,541	62,575	102,739	144,934	210,676	201,064	128,338	55,127	25,240	24,462	20,330	21,427	1,113,513	18,287	285	1,538
	mean s. f. d.	1,895	1,127	1,671	2,436	3,426	3,379	2,087	897	424	398	343	348	--	--	--	--
1915	acre-feet	22,500	30,254	48,536	80,916	124,506	172,324	77,496	24,668	16,457	14,452	14,858	19,320	646,287	4,249	203	891
	mean s. f. d.	366	545	789	1,360	2,025	2,896	1,260	401	277	235	250	314	--	--	--	--
1916	acre-feet	172,346	202,510	378,116	481,749	472,994	391,700	225,154	56,755	33,808	41,774	30,879	32,364	2,520,149	17,962	274	3,481
	mean s. f. d.	2,803	3,521	6,149	8,096	7,693	6,583	3,662	923	568	679	519	526	--	--	--	--
1917	acre-feet	40,128	44,894	65,242	126,329	165,062	187,638	81,275	36,990	19,696	17,970	18,488	19,370	823,082	4,331	267	1,137
	mean s. f. d.	653	808	1,061	2,153	2,684	3,153	1,322	602	331	292	311	315	--	--	--	--
1918	acre-feet	18,918	18,559	48,087	74,513	78,722	136,753	44,828	20,807	17,562	32,555	22,160	25,039	538,503	3,478	227	744
	mean s. f. d.	308	334	782	1,252	1,280	2,298	729	338	295	529	372	407	--	--	--	--
1919	acre-feet	21,098	23,002	37,973	86,574	140,215	81,844	34,364	16,288	11,722	13,835	13,884	18,325	499,124	4,299	156	689
	mean s. f. d.	343	414	618	1,455	2,280	1,375	559	265	197	225	233	298	--	--	--	--
1920	acre-feet	17,220	18,044	40,397	83,370	158,904	137,840	50,699	22,431	14,949	16,596	19,490	20,703	600,643	4,456	196	827
	mean s. f. d.	280	314	657	1,401	2,584	2,316	825	365	251	270	328	337	--	--	--	--
1921	acre-feet	23,520	30,791	55,402	51,723	100,096	120,387	49,119	18,073	12,595	13,180	12,960	21,673	509,519	3,548	110	704
	mean s. f. d.	383	554	901	869	1,628	2,033	799	294	212	214	218	352	--	--	--	--
1922	acre-feet	30,682	33,846	52,468	84,407	242,259	202,395	88,649	37,061	23,772	17,770	19,835	28,282	861,426	5,300	196	1,190
	mean s. f. d.	499	609	853	1,419	3,940	3,401	1,442	603	400	289	333	460	--	--	--	--
1923	acre-feet	26,863	25,720	31,372	73,355	120,849	82,528	55,800	22,322	18,054	15,495	14,348	13,809	500,515	3,275	179	691
	mean s. f. d.	437	463	510	1,233	1,965	1,387	908	363	303	252	241	225	--	--	--	--
1924	acre-feet	13,676	13,702	15,953	28,540	41,722	14,069	8,225	5,881	5,494	7,642	14,196	18,627	187,727	1,073	74	259
	mean s. f. d.	222	238	259	480	679	236	134	96	92	124	239	303	--	--	--	--
1925	acre-feet	17,992	26,333	31,299	56,408	102,016	96,252	58,437	25,938	11,405	12,906	12,305	14,622	465,913	2,819	148	635
	mean s. f. d.	293	474	509	948	1,659	1,618	950	422	192	210	207	238	--	--	--	--
1926	acre-feet	12,022	15,667	24,739	66,079	98,598	49,530	18,575	9,522	7,029	8,358	28,493	28,094	366,706	6,511	74	507
	mean s. f. d.	196	282	402	1,110	1,604	832	302	155	118	136	479	457	--	--	--	--
1927	acre-feet	20,485	75,279	73,083	100,362	184,721	161,153	75,481	26,817	14,842	14,037	27,180	19,140	792,580	6,571	188	1,095
	mean s. f. d.	333	1,355	1,189	1,687	3,004	2,708	1,228	436	249	228	457	311	--	--	--	--
1928	acre-feet	18,452	17,818	32,668	37,757	76,885	60,344	18,716	9,189	6,583	8,732	11,974	13,710	312,828	2,058	101	431
	mean s. f. d.	300	310	531	635	1,250	1,014	304	149	111	142	201	223	--	--	--	--
1929	acre-feet	13,864	14,654	25,176	39,064	85,995	63,487	30,986	12,797	9,146	8,793	9,035	9,961	322,958	2,003	119	446
	mean s. f. d.	225	264	409	656	1,399	1,067	504	208	154	143	152	162	--	--	--	--
1930	acre-feet	12,234	20,099	34,509	53,506	67,851	82,824	28,401	11,819	7,743	9,314	11,042	10,590	349,973	2,423	118	483
	mean s. f. d.	199	362	562	899	1,103	1,392	462	192	130	151	186	172	--	--	--	--

**HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT**

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
1931	acre-feet	12,284	13,785	15,784	23,440	41,867	24,262	8,493	6,302	6,860	6,817	8,241	17,510	185,645	2,261	71	256
	mean s. f. d.	200	248	257	394	681	408	138	102	115	111	138	285	---	---	---	---
1932	acre-feet	22,235	39,596	68,647	111,273	154,742	166,404	94,013	28,243	13,593	13,942	12,077	12,962	737,727	3,726	180	1,016
	mean s. f. d.	362	688	1,116	1,870	2,517	2,797	1,529	459	228	227	203	211	---	---	---	---
1933	acre-feet	17,175	21,021	36,244	57,265	60,026	125,395	56,898	18,692	10,062	10,893	10,776	16,639	441,086	3,769	144	609
	mean s. f. d.	279	379	589	962	976	2,107	925	304	169	177	181	271	---	---	---	---
1934	acre-feet	20,033	16,842	27,429	39,919	43,065	21,820	11,341	6,948	7,043	8,196	11,272	13,757	227,665	914	82	314
	mean s. f. d.	326	303	446	671	700	367	184	113	118	133	189	224	---	---	---	---
1935	acre-feet	14,840	18,500	24,841	71,042	103,787	133,634	42,184	17,193	11,363	11,962	11,905	12,877	474,128	3,378	164	655
	mean s. f. d.	241	333	404	1,194	1,688	2,246	686	280	191	195	200	209	---	---	---	---
1936	acre-feet	14,737	46,808	57,374	157,290	219,404	137,028	67,902	32,987	14,372	15,423	15,828	17,294	796,447	4,173	194	1,097
	mean s. f. d.	240	814	933	2,643	3,568	2,303	1,104	536	242	251	266	281	---	---	---	---
1937	acre-feet	21,745	139,109	111,443	183,505	352,050	225,395	91,097	32,186	17,780	17,173	16,379	52,320	1,260,182	20,000	223	1,741
	mean s. f. d.	354	2,505	1,812	3,084	5,726	3,788	1,482	523	299	279	275	851	---	---	---	---
1938	acre-feet	31,265	42,456	162,121	223,928	315,044	291,880	130,917	54,155	28,693	27,475	24,748	26,003	1,358,685	14,582	356	1,877
	mean s. f. d.	508	764	2,637	3,763	5,124	4,905	2,129	881	482	447	416	423	---	---	---	---
1939	acre-feet	28,558	33,273	54,119	92,136	92,253	58,400	25,480	18,774	13,712	16,826	13,692	13,850	461,073	2,028	178	637
	mean s. f. d.	464	599	880	1,548	1,500	981	414	305	230	274	230	225	---	---	---	---
1940	acre-feet	45,082	65,032	77,810	118,175	196,465	145,503	50,471	18,926	13,234	14,670	16,007	27,723	789,098	5,454	167	1,087
	mean s. f. d.	733	1,131	1,265	1,986	3,195	2,445	821	308	222	239	269	451	---	---	---	---
1941	acre-feet	39,540	73,589	109,735	124,615	386,666	309,960	174,416	62,537	27,997	26,325	27,661	38,035	1,401,076	8,523	337	1,935
	mean s. f. d.	643	1,325	1,785	2,094	6,289	5,209	2,837	1,017	471	428	465	619	---	---	---	---
1942	acre-feet	49,438	40,834	58,487	112,586	150,036	178,754	81,529	30,284	16,500	14,648	16,130	22,740	771,966	4,060	141	1,066
	mean s. f. d.	804	735	951	1,892	2,440	3,004	1,326	493	277	238	271	370	---	---	---	---
1943	acre-feet	92,551	56,820	261,344	198,736	254,785	155,650	88,011	34,435	17,857	17,949	18,565	24,224	1,220,827	21,701	252	1,686
	mean s. f. d.	1,505	1,023	4,250	3,340	4,144	2,616	1,431	560	300	290	312	394	---	---	---	---
1944	acre-feet	27,473	32,781	69,836	80,223	150,109	115,862	59,197	20,305	12,843	12,952	21,521	22,435	625,537	3,071	191	862
	mean s. f. d.	447	570	1,136	1,348	2,441	1,947	963	330	216	211	362	365	---	---	---	---
1945	acre-feet	20,783	70,522	63,925	131,246	205,509	169,002	91,593	41,632	21,548	41,268	36,845	44,182	938,055	9,370	155	1,296
	mean s. f. d.	338	1,270	1,040	2,206	3,342	2,840	1,490	677	362	671	619	719	---	---	---	---
1946	acre-feet	45,481	34,854	60,958	109,658	155,476	85,880	39,733	20,091	13,261	16,141	31,365	37,785	650,683	3,814	192	899
	mean s. f. d.	740	628	991	1,843	2,529	1,443	646	327	223	263	527	615	---	---	---	---
1947	acre-feet	31,146	28,167	36,319	60,353	110,325	57,778	21,116	12,313	9,140	12,607	13,492	13,942	406,698	2,584	135	562
	mean s. f. d.	507	507	591	1,014	1,794	971	343	200	154	205	227	227	---	---	---	---
1948	acre-feet	13,486	13,267	16,233	43,972	86,108	78,565	31,331	9,927	6,899	8,908	9,586	11,220	329,506	2,206	97	454
	mean s. f. d.	219	231	264	739	1,400	1,320	510	161	116	145	161	182	---	---	---	---
1949	acre-feet	11,982	12,992	21,136	50,517	84,508	57,685	17,201	8,682	6,541	7,704	11,131	12,791	302,870	2,128	69	419
	mean s. f. d.	195	234	344	849	1,374	969	280	141	110	125	187	208	---	---	---	---
1950	acre-feet	17,119	39,761	37,087	76,155	98,483	90,367	34,901	12,179	10,393	9,955	96,968	77,992	601,360	37,000	128	831
	mean s. f. d.	278	716	603	1,280	1,602	1,519	568	196	175	162	1,630	1,368	---	---	---	---

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

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

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
1971	acre-feet	34,143	30,960	41,913	52,661	66,635	82,707	42,472	19,841	11,371	11,540	14,102	19,109	427,454	1,895	125	590
	mean s. f. d.	555	557	682	885	1,084	1,390	691	323	191	188	237	311	---	---	---	---
1972	acre-feet	19,864	18,827	33,213	28,288	45,965	38,531	14,936	10,927	11,334	11,431	14,703	20,408	268,427	951	111	370
	mean s. f. d.	323	327	540	475	748	648	243	178	190	186	247	332	---	---	---	---
1973	acre-feet	33,628	36,395	52,778	110,892	288,652	230,390	93,834	41,028	23,030	18,895	22,342	27,788	979,652	5,886	220	1,353
	mean s. f. d.	547	655	858	1,864	4,694	3,872	1,526	667	387	307	375	452	---	---	---	---
1974	acre-feet	50,337	29,873	74,247	114,113	183,733	167,740	69,580	39,991	23,532	21,953	19,904	23,603	818,606	4,141	220	1,130
	mean s. f. d.	819	538	1,208	1,918	2,988	2,819	1,132	650	395	357	334	384	---	---	---	---
1975	acre-feet	21,521	26,725	42,815	46,602	147,001	140,660	51,917	22,625	17,133	16,209	15,049	16,310	564,567	3,783	164	780
	mean s. f. d.	350	481	696	783	2,391	2,364	844	368	288	264	253	265	---	---	---	---
1976	acre-feet	16,308	16,994	23,074	25,924	47,151	20,930	14,749	14,573	25,097	20,523	12,954	11,191	249,468	1,188	142	344
	mean s. f. d.	265	295	375	436	767	352	240	237	422	334	218	182	---	---	---	---
1977	acre-feet	13,456	13,704	14,765	23,391	25,630	35,655	10,973	10,979	7,815	8,146	8,456	24,028	196,998	2,049	57	272
	mean s. f. d.	219	247	240	393	417	599	178	179	131	132	142	142	---	---	---	---
1978	acre-feet	46,596	116,432	175,484	181,700	363,157	354,825	194,693	74,001	61,696	29,562	26,874	28,485	1,653,505	10,901	350	2,284
	mean s. f. d.	758	2,096	2,854	3,054	5,906	5,963	3,166	1,204	1,037	481	452	463	---	---	---	---
1979	acre-feet	34,062	41,825	72,299	102,079	164,935	106,112	46,733	27,443	19,583	19,781	18,779	19,230	672,661	3,540	229	929
	mean s. f. d.	554	753	1,176	1,715	2,682	1,783	760	443	329	322	316	313	---	---	---	---
1980	acre-feet	145,545	168,887	139,620	211,608	287,825	282,877	208,715	78,143	35,068	26,955	25,006	29,708	1,639,957	14,171	261	2,259
	mean s. f. d.	2,367	2,936	2,271	3,556	4,681	4,754	3,394	1,271	589	438	420	483	---	---	---	---
1981	acre-feet	28,709	34,762	45,608	69,320	91,914	65,817	25,630	17,389	13,222	14,781	18,922	23,189	449,263	2,211	157	621
	mean s. f. d.	467	625	742	1,165	1,495	1,106	417	283	222	240	318	377	---	---	---	---
1982	acre-feet	37,682	52,996	78,724	212,963	254,985	198,748	130,098	61,956	61,716	46,306	57,116	77,849	1,271,139	9,075	389	1,756
	mean s. f. d.	613	954	1,280	3,579	4,147	3,340	2,116	1,008	1,037	753	960	1,266	---	---	---	---
1983	acre-feet	87,905	138,514	265,543	206,473	478,625	571,846	288,866	154,935	68,503	53,300	71,599	103,019	2,489,128	14,038	602	3,438
	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	---	---	---	---
1984	acre-feet	76,054	60,926	82,738	91,359	161,613	93,114	77,046	49,698	28,306	26,428	35,020	39,495	821,797	3,305	288	1,132
	mean s. f. d.	1,237	1,059	1,346	1,535	2,628	1,565	1,253	808	476	430	589	642	---	---	---	---
1985	acre-feet	40,423	40,610	53,371	136,241	146,799	99,858	41,395	23,956	17,024	16,495	22,314	33,945	672,431	3,353	208	929
	mean s. f. d.	657	731	868	2,290	2,387	1,678	673	390	286	268	375	552	---	---	---	---
1986	acre-feet	42,668	149,966	204,775	208,147	293,335	263,794	121,398	57,160	26,567	28,330	25,341	23,458	1,444,939	8,296	313	1,996
	mean s. f. d.	694	2,700	3,330	3,498	4,771	4,433	1,974	930	446	461	426	382	---	---	---	---
1987	acre-feet	25,995	29,504	41,566	55,236	75,108	56,146	24,918	14,735	10,683	11,484	14,745	16,215	375,935	1,817	145	519
	mean s. f. d.	416	531	676	928	1,222	944	405	240	180	187	248	264	---	---	---	---
1988	acre-feet	22,677	19,815	30,210	39,584	58,350	43,140	20,969	13,454	10,733	9,283	10,955	15,515	294,685	1,418	116	406
	mean s. f. d.	369	344	491	665	949	725	341	219	180	151	184	252	---	---	---	---
1989	acre-feet	15,947	23,528	67,430	91,380	71,949	49,823	21,378	13,010	10,213	10,824	10,707	10,945	397,038	2,068	123	548
	mean s. f. d.	259	424	1,097	1,536	1,169	837	348	212	172	176	180	178	---	---	---	---
1990	acre-feet																
	mean s. f. d.																

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

October 1893 to Date...

YEAR: 1989

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Monthly Flow (acre-feet)	36,577	43,536	65,001	100,691	158,006	141,404	72,792	31,577	18,614	17,779	20,060	28,231	734,268
Mean Monthly Flow (second foot days)	595	777	1,057	1,692	2,570	2,376	1,184	514	313	289	337	459	1,014
Maximum Monthly Flow (acre-feet)	178,493	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-feet)	11,466	10,905	14,221	23,391	25,630	14,069	8,225	5,881	5,494	6,817	8,241	9,961	
Number Months of Record	96	96	96	96	96	96	96	96	96	96	97	97	97
Cumulative Monthly Flow (All Months - acre-feet)	3,511,404	4,179,497	6,240,138	9,666,364	15,168,586	13,574,765	6,988,016	3,031,345	1,786,982	1,724,564	1,945,786	2,738,427	
Median Monthly Flow (acre-feet)	24,558	32,631	48,675	80,133	122,678	118,125	50,305	22,377	14,382	14,670	16,739	20,408	565,681
Median Monthly Flow (second foot days)	399	582	792	1,347	1,995	1,985	818	364	242	239	281	332	781

MEAN APRIL - JULY RUNOFF TO DATE = 472,893 AcFt MEAN MARCH - OCTOBER RUNOFF TO DATE = 605,864 AcFt
 MEDIAN APRIL - JULY RUNOFF TO DATE = 371,241 AcFt MEDIAN MARCH - OCTOBER RUNOFF TO DATE = 471,345 AcFt

KERN RIVER IN REVIEW
1989

Introduction

The Kern River drainage basin, largely depleted of soil moisture due to lack of precipitation and snowpack throughout the preceding two water years, yielded only 50% of average runoff as measured at First Point of Measurement near Bakersfield during the 1989 April through July snowmelt period. Dry weather patterns, prevalent throughout the 1988-1989 snowpack accumulation season, persisted into the fall and early winter months of 1989, alarming the Kern River Interests to the possibility of a fourth consecutive dry year on the Kern River.

Fall precipitation, which in normal amounts attributes to increased streamflow, was one-third of normal in 1989. December 1989 runoff from the Kern River watershed was the third lowest in 96 years of record, and the minimum amount recorded for the month over the past 60 years.

Record maximum high temperatures were experienced throughout the southern San Joaquin valley between April 6 and April 10 of 1989. The unseasonable warmth resulted in rapid snowmelt in the southern Sierra mountains and produced the largest April contribution, percentage-wide, to April-July snowmelt runoff in Kern River history.

Precipitation

Monthly precipitation amounts in inches as recorded at selected Kern County stations during the 1988-1989 Water Year were as follows:

	Bakersfield (Water Resources Office) (Elev. 403 ft.)			Isabella Dam & Reservoir (Elev. 2660 ft.)			Glenville (Elev. 3140 ft.)		
	<u>88-89</u>	<u>Ave.</u>	<u>% of Ave.</u>	<u>88-89</u>	<u>Ave.</u>	<u>% of Ave.</u>	<u>88-89</u>	<u>Ave.</u>	<u>% of Ave.</u>
Oct	.00	.30	0%	.00	.30	0%	.00	.75	0%
Nov	.75	.65	115%	1.75	1.15	152%	3.29	1.85	178%
Dec	1.19	.65	183%	3.15	1.89	167%	3.46	2.96	117%
Jan	.26	.98	27%	.29	2.07	14%	.76	3.32	23%
Feb	.94	1.07	88%	2.24	1.73	130%	1.42	2.99	48%
Mar	.67	.87	77%	2.28	1.23	185%	3.56	3.05	117%
Apr	.00	.70	0%	.09	.93	10%	1.01	2.06	49%
May	.16	.24	67%	.04	.28	14%	.84	.75	112%
Jun	.00	.07	0%	.00	.10	0%	.99	.18	550%
Jul	.00	.01	0%	.00	.09	0%	.00	.04	0%
Aug	.00	.05	0%	.00	.22	0%	.00	.10	0%
Sep	.23	.13	177%	.62	.44	141%	.72	.37	195%
TOTAL	4.20	5.72	73%	10.46	10.43	100%	16.05	18.42	87%

The initial rainfall of the 1988-89 Water Year occurred over the Kern River watershed November 13-14, 1988, as the jet stream moved southward, pushing the storm track into Central California. Three other storm periods were encountered during the month, the most effective of these being the period of November 24-25.

The first half of December 1988 was clear throughout the watershed. Beginning December 15, 1988, a series of storm systems moved through the basin, numbering seven by months end.

During January 1989, a pattern of blocking high pressure forced the storm track northward into the Pacific Northwest leaving the southern Sierra dry for much of the month. Precipitation amounts received from the two storm periods encountered in January pushed the months total to approximately 25% of normal.

Five storm periods occurred in February 1989, as the high pressure shifted eastward, allowing the storm track to move southward. The most significant of these occurred on February 3-4, 1989. Isabella Reservoir received 1.55 inches of rain during the 48 hour period ending February 4, 1989. During the last three weeks of February, high pressure over the eastern Pacific Ocean was the dominant feature in the weather patterns.

The month of March 1989, saw changes in the weather patterns throughout most of California, as a total of seven storm periods affected the Sierra Nevada mountain range. Only two of these systems, March 1-2 and March 25, 1989, deposited appreciable precipitation over the Kern River watershed.

The first three weeks of April 1989 were dry with much above normal temperatures. Two minor storm systems passed through the watershed after April 23, however, precipitation amounts for the month averaged less than 20% of normal. During May 1989, storm periods were lacking in moisture and short-lived and did little to increase the water yield of the basin.

Temperature

Isabella, California 1989 mean air temperatures (°F) with comparative averages were as follows:

	1989		Variance	1989		Variance	
	<u>Actual</u>	<u>Average</u>	from	<u>Actual</u>	<u>Average</u>	from	
			<u>Norm</u>			<u>Norm</u>	
Jan	41.8	43.8	-2.0	Jul	78.4	79.6	-1.2
Feb	43.4	47.1	-3.7	Aug	74.3	78.0	-3.7
Mar	52.7	50.0	+2.7	Sep	68.4	72.0	-3.6
Apr	61.7	54.4	+7.3	Oct	58.6	61.8	-3.2
May	63.0	63.3	-0.3	Nov	51.8	51.2	+0.6
Jun	72.1	72.5	-0.4	Dec	44.2	44.6	-0.4

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, 1989, with April 1st historical average water contents of same shown for comparison:

	Upper Tyndall Creek	Crabtree Meadow	Chagoopa Plateau	Pascoe	Wet Meadow	Tunnel Guard	Casa Vieja Meadows	Beach Meadows
April 1, 1989	21.8	11.8	20.8	23.9	17.0	5.4	13.7	2.4
April 1 Average	27.7	19.8	21.8	24.9	30.3	15.6	20.9	11.0

During March 1989, water content of the snowpack at elevations under 9,000 was depleted as much as 30% due to above normal temperatures. Kern River natural flow for the month of March 1989 totaled 67,430 acre-feet, 104% of the long-term average. The pattern of early, quick runoff continued into April. Kern River runoff during March-April of 1989 was 96% of the historical average for the period. Runoff from the remaining months of 1989 was 42% of the historical average.

Forecasts

The State of California, Department of Water Resources issued the following forecasts of Kern River runoff into Isabella Reservoir for the 1989 April-July snowmelt period:

February 1, 1989:	47% of average (230,000 acre-feet)
March 1, 1989:	49% of average (240,000 acre-feet)
April 1, 1989:	51% of average (250,000 acre-feet)
May 1, 1989:	45% of average (220,000 acre-feet)

Runoff

Actual 1989 April-July Kern River inflow to Isabella Reservoir was 230,495 acre-feet (47% of average). Peak inflow occurred on April 20, 1989 at 1,921 cubic feet per second. Calendar year runoff at First Point of Measurement totaled 397,038 acre-feet, 54% of the long-term average and 70% of the historical median.

By month Kern River runoff as measured at First Point during 1989 with historical ranking (#1 is lowest on record) was as follows:

	Runoff in Acre-Feet	Rank		Runoff in Acre-Feet	Rank
Jan	15,947	16	Jul	21,378	16
Feb	23,528	30	Aug	13,010	20
Mar	67,430	67	Sep	10,213	23
Apr	91,380	57	Oct	10,824	23
May	71,849	19	Nov	10,707	8
Jun	49,823	14	Dec	10,949	3

Storage

On January 1, 1989, Isabella Reservoir contained 73,545 acre-feet of water. Peak storage volume for 1989 was reached on June 1, with 184,801 acre-feet. On December 31, 1989, 85,978 acre-feet remained in storage behind Isabella Dam, constituting 15% of the lake capacity and 56% of the 36-year average December 31st carryover storage volume of 153,170 acre-feet.

Operations

Kern River regulated flow during the 1989 calendar year amounted to 348,773 acre-feet, 47% of the 1954-1989 average regulated flow at First Point of Measurement of 735,109 acre-feet. Peak regulated flow occurred on July 13, 1989, with a mean daily discharge of 1,155 cubic feet per second. This peak flow coincided with a requested 1,650 cubic feet per second turbine flow test at the Rio Bravo Hydroelectric Project. The average daily June-July 1989 summer irrigation demand was 916 cubic feet per second as computed at First Point.

The total water yield of the Kern River basin and its surface storage reservoir in acre-feet during 1989 is summarized as follows:

Kern River Computed Natural Flow.....	397,038	+
Isabella Reservoir Withdrawal.....	(12,437)	+
Isabella Reservoir Evaporation.....	33,497	-
Kern River Diversions Above First Point.....	2,331	-
Kern River Regulated Flow at First Point.....	348,773	=

Deliveries to Second Point of Measurement for Buena Vista Water Storage District during calendar year 1989 totaled 7,069 acre-feet with a maximum daily flow rate of 260 cubic feet per second. In addition, 6,870 acre-feet of banked groundwater was produced from extraction wells located within the City of Bakersfield's 2,800 Acre Recharge Facility and delivered via the Kern River Canal for irrigation use by the Buena Vista Water Storage District.

Year: 1989

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	278	258	594	1,205	904	807	454	206	145	170	177	176
2	274	332	1,441	1,259	945	775	445	219	147	182	178	176
3	438	2,068	1,317	1,032	742	432	235	154	182	179	179	180
4	277	459	1,123	1,371	1,178	760	438	257	159	194	173	170
5	302	374	968	1,401	1,327	801	421	249	146	182	180	178
6	287	277	1,033	1,464	1,447	847	413	232	136	189	186	180
7	269	272	1,148	1,564	1,549	914	404	213	123	186	195	198
8	250	329	1,277	1,681	1,508	961	429	248	136	187	186	206
9	262	367	1,323	1,765	1,647	1,008	426	280	140	175	182	205
10	272	354	1,292	1,823	1,531	1,034	403	315	153	182	183	198
11	268	345	1,220	1,847	1,405	1,062	367	294	153	174	181	182
12	240	331	1,144	1,859	1,254	1,061	332	256	146	174	180	174
13	239	336	1,073	1,847	1,191	1,072	342	225	141	159	180	179
14	235	328	1,021	1,853	1,132	1,077	319	220	146	166	179	193
15	248	327	973	1,884	1,104	1,102	321	230	178	156	179	193
16	246	326	971	1,897	1,074	1,063	292	227	181	165	175	179
17	243	326	891	1,900	1,058	992	323	221	203	166	180	171
18	263	366	869	1,885	1,065	926	335	210	196	177	170	171
19	266	400	858	1,907	1,112	851	341	208	218	168	159	178
20	277	437	909	1,860	1,166	848	331	180	221	161	165	180
21	261	449	966	1,778	1,173	799	338	173	229	161	172	185
22	262	492	1,021	1,582	1,188	781	350	159	223	159	172	183
23	262	539	1,075	1,437	1,134	697	343	156	191	154	160	175
24	257	579	1,119	1,288	1,089	669	315	164	185	182	159	174
25	243	616	1,136	1,228	1,012	663	303	165	180	196	163	158
26	237	715	1,112	1,147	1,007	672	294	170	201	207	283	161
27	247	803	1,044	1,091	1,033	625	302	165	181	181	213	155
28	253	687	1,008	1,021	1,023	553	276	170	185	176	187	169
29	247	-	1,045	989	989	488	255	177	184	177	160	168
30	244	-	1,103	921	937	469	233	172	168	180	162	168
31	254	-	1,171	-	910	-	201	162	-	189	-	157
TOTAL	8,040	11,862	33,996	46,071	36,224	25,119	10,778	6,559	5,149	5,457	5,398	5,520
MAXIMUM DAY	302	803	2,068	1,907	1,647	1,102	454	315	229	207	283	206
MINIMUM DAY	235	258	594	921	904	469	201	156	123	154	159	155
MEAN	259	424	1,097	1,536	1,169	837	348	212	172	176	180	178
TOTAL AC. FT.	15,947	23,528	67,430	91,380	71,849	49,823	21,378	13,010	10,213	10,824	10,707	10,949
WHOLE YEAR:-	TOTAL,	200,173	MAXIMUM,	2,068	MINIMUM,	123	MEAN,	548	TOTAL AC. FT.,	397,038		

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

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	205	248	417	955	762	793	369	206	135	171	159	171
2	200	255	965	981	790	684	352	204	128	168	173	170
3	200	252	1,425	981	884	652	344	197	125	161	159	169
4	217	243	701	1,014	1,041	603	334	194	122	163	159	170
5	222	199	621	1,069	1,270	713	334	183	120	168	159	172
6	213	171	726	1,177	1,365	749	321	183	121	159	159	174
7	174	173	929	1,286	1,467	803	312	183	120	150	159	172
8	175	246	1,141	1,427	1,647	937	312	191	115	148	159	172
9	188	260	1,199	1,554	1,707	858	320	222	115	145	159	170
10	224	265	1,024	1,624	1,593	964	301	255	116	144	152	165
11	225	257	939	1,702	1,337	995	285	229	116	142	153	158
12	198	251	931	1,752	1,221	1,020	271	212	115	141	153	151
13	201	241	885	1,730	1,102	968	264	203	114	145	153	157
14	204	248	827	1,736	1,022	1,029	252	189	110	144	153	156
15	189	242	780	1,776	1,012	1,091	245	179	115	142	153	149
16	201	245	763	1,836	991	1,082	239	174	115	140	153	156
17	207	258	686	1,758	929	922	233	169	176	140	151	153
18	211	272	644	1,771	975	841	220	168	202	141	150	148
19	214	291	676	1,845	1,062	815	214	170	179	138	148	146
20	220	306	772	1,821	1,109	772	212	167	182	138	147	146
21	221	301	758	1,665	1,149	710	223	164	184	138	147	151
22	222	329	786	1,527	1,116	665	261	165	177	148	153	150
23	221	402	814	1,348	1,089	649	249	146	165	159	153	150
24	218	419	831	1,204	1,033	597	239	147	158	159	153	151
25	209	408	897	1,094	935	578	292	147	154	164	153	149
26	208	519	853	1,024	906	570	286	144	162	174	218	153
27	209	593	701	946	951	519	264	139	167	159	208	155
28	208	495	693	871	998	467	249	134	170	165	151	151
29	210	-	819	819	954	426	237	133	163	163	156	148
30	217	-	870	775	878	392	228	130	168	156	166	147
31	234	-	858	-	837	-	215	131	-	155	-	146
TOTAL	6,465	8,389	25,931	41,058	34,132	22,864	8,477	5,458	4,315	4,728	4,769	4,876
MAXIMUM DAY	234	593	1,425	1,845	1,707	1,091	369	255	202	174	218	174
MINIMUM DAY	174	171	417	775	762	392	212	130	110	138	147	146
MEAN	209	300	836	1,369	1,101	762	273	176	144	153	159	157
TOTAL AC. FT.	12,823	16,639	51,433	81,437	67,700	45,350	16,814	10,856	8,559	9,378	9,459	9,671
WHOLE YEAR:-	TOTAL,	171,462	MAXIMUM,	1,845	MINIMUM,	110	MEAN,	470	TOTAL AC. FT.,	340,089		

Year: 1989

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	301	410	516	540	631	724	722	869	175	318	166	238
2	298	430	634	569	627	776	690	847	188	281	165	225
3	303	451	616	579	620	871	738	864	229	301	169	224
4	297	481	504	617	623	950	760	797	248	300	179	239
5	283	319	495	630	631	1,005	780	702	241	268	182	245
6	277	276	479	627	633	1,013	791	719	215	239	179	290
7	266	290	470	626	667	1,025	952	773	211	241	190	319
8	263	302	483	626	736	1,024	1,123	974	214	234	199	325
9	272	316	534	631	659	1,021	1,065	1,054	209	237	205	324
10	264	337	565	620	639	985	954	744	208	243	193	312
11	263	360	543	638	634	963	904	717	205	213	178	299
12	278	369	536	723	631	935	882	660	189	176	170	282
13	266	358	490	751	629	914	1,155	690	199	186	169	273
14	272	353	519	767	634	944	1,025	756	240	169	162	268
15	268	346	602	734	632	973	814	729	213	169	155	250
16	250	335	599	693	626	961	829	657	170	195	152	201
17	249	337	543	711	634	837	958	581	172	208	163	198
18	224	340	497	692	640	816	966	513	173	184	168	207
19	239	354	547	707	621	892	972	425	179	166	170	195
20	253	401	611	664	643	888	958	410	222	154	185	172
21	253	435	578	641	635	972	944	390	230	151	182	173
22	261	422	621	615	644	992	900	386	262	150	189	176
23	276	434	566	626	649	1,027	890	402	249	155	188	165
24	273	440	440	654	638	1,009	934	372	295	201	180	162
25	265	479	443	619	636	1,013	949	370	367	258	180	152
26	255	487	452	627	645	1,056	984	312	351	187	186	154
27	249	499	447	622	648	1,055	981	301	355	175	183	158
28	257	493	434	631	645	1,024	926	349	343	168	239	166
29	316	-	441	635	656	994	855	328	316	172	190	179
30	329	-	469	633	677	840	844	315	312	170	223	177
31	385	-	506	-	718	-	870	247	-	171	-	179
TOTAL	8,505	10,874	16,180	19,448	19,981	28,499	28,115	18,253	7,180	6,440	5,439	6,927
MAXIMUM INSTAN.	422	545	740	908	832	1,274	2,114	2,114	371	345	279	334
MINIMUM INSTAN.	197	239	409	490	493	669	619	211	109	136	149	146
MEAN	274	388	522	648	645	950	907	589	239	208	181	223
TOTAL AC. FT.	16,869	21,568	32,092	38,575	39,632	56,527	55,765	36,204	14,241	12,773	10,788	13,739
WHOLE YEAR:-	TOTAL,	175,841	MAXIMUM,	2,114	MINIMUM,	109	MEAN,	482	TOTAL AC. FT.,	348,773		

Year: 1989

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	0	102	0	0	71	0	0	0	0	0	0	0
2	0	98	0	0	49	0	0	0	0	0	0	0
3	0	138	0	0	39	0	0	0	0	0	0	0
4	0	119	0	0	35	0	0	0	0	0	0	0
5	0	34	0	0	26	0	0	0	0	0	0	0
6	0	0	0	9	29	0	0	0	0	0	0	0
7	0	0	0	25	21	0	0	0	0	0	0	0
8	0	0	0	5	25	0	0	260	0	0	0	0
9	0	0	0	3	30	0	0	170	0	0	0	0
10	0	0	0	0	54	0	0	0	0	0	0	0
11	0	0	0	0	77	0	0	0	0	0	0	0
12	0	0	0	0	88	0	0	0	0	0	0	0
13	0	0	0	0	96	0	173	0	0	0	0	0
14	0	0	0	0	97	0	112	0	0	0	0	0
15	0	0	0	0	91	0	0	0	0	0	0	0
16	0	0	0	0	82	0	0	0	0	0	0	0
17	0	0	0	0	75	0	0	0	0	0	0	0
18	0	0	0	0	81	0	0	0	0	0	0	0
19	0	0	0	0	74	0	0	0	0	0	0	0
20	0	0	0	0	68	0	0	0	0	0	0	0
21	0	0	0	0	53	0	0	0	0	0	0	0
22	0	0	0	0	81	0	0	0	0	0	0	0
23	0	0	0	0	102	0	0	0	0	0	0	0
24	0	0	0	0	54	0	0	0	0	0	0	0
25	0	0	0	4	17	0	0	0	0	0	0	0
26	0	0	0	43	79	0	0	0	0	0	0	0
27	0	0	0	72	88	0	0	0	0	0	0	0
28	0	0	0	82	73	0	0	0	0	0	0	0
29	17	-	0	97	38	0	0	0	0	0	0	0
30	43	-	0	102	0	0	0	0	0	0	0	0
31	95	-	0	-	0	-	0	0	-	0	-	0
TOTAL	155	491	0	442	1,793	0	285	430	0	0	0	0
MAXIMUM DAY	95	138	0	102	102	0	173	260	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	5	18	0	15	58	0	9	14	0	0	0	0
TOTAL AC. FT.	307	974	0	877	3,556	0	565	853	0	0	0	0
WHOLE YEAR:-	TOTAL,	3,596	MAXIMUM,	260	MINIMUM,	0	MEAN,	10	TOTAL AC. FT.,	7,132		

Year: 1989

Water Extractions from 2800 Acre Recharge Facility
 Conveyed via Kern River Canal
 (Includes Olcese Wells #1-6 & City Domestic Pump Stations #22 & 24)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	31	0	0	0	0	63	0	0	0	0
2	0	0	31	0	0	63	0	64	0	0	0	0
3	0	0	0	0	0	61	43	63	0	0	0	0
4	0	0	0	0	0	61	53	60	0	0	0	0
5	0	29	0	0	0	69	53	55	0	0	0	0
6	0	20	0	0	0	69	52	60	0	0	0	0
7	0	14	0	0	0	67	52	65	0	0	0	0
8	0	18	0	0	0	67	55	24	0	0	0	0
9	0	3	0	0	0	66	51	0	0	0	0	0
10	0	0	0	0	0	33	52	0	0	0	0	0
11	0	0	0	0	0	33	52	44	0	0	0	0
12	0	0	0	0	0	32	0	56	0	0	0	0
13	0	0	0	0	0	0	0	64	0	0	0	0
14	0	0	0	0	0	0	0	65	0	0	0	0
15	0	0	0	0	0	0	0	65	0	0	0	0
16	0	0	0	0	0	0	0	66	0	0	0	0
17	0	0	0	0	0	0	0	63	0	0	0	0
18	0	20	0	0	0	0	0	65	0	0	0	0
19	0	30	0	0	0	0	0	61	0	0	0	0
20	0	25	0	0	0	0	0	67	0	0	0	0
21	0	25	0	0	0	0	55	64	0	0	0	0
22	0	26	0	0	0	0	51	64	0	0	0	0
23	0	28	0	0	0	0	52	61	0	0	0	0
24	0	25	0	0	0	0	51	63	0	0	0	0
25	0	24	0	0	0	0	31	3	0	0	0	0
26	0	31	0	0	0	0	55	0	0	0	0	0
27	0	30	0	0	0	0	59	0	0	0	0	0
28	0	30	0	0	0	0	67	0	0	0	0	0
29	0	-	0	0	0	0	64	0	0	0	0	0
30	0	-	0	0	0	0	66	0	0	0	0	0
31	0	-	0	-	0	-	64	0	-	0	-	0
TOTAL	0	378	62	0	0	621	1,078	1,325	0	0	0	0
MAXIMUM DAY	0	31	31	0	0	69	67	67	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	14	2	0	0	21	35	43	0	0	0	0
TOTAL AC. FT.	0	750	123	0	0	1,231	2,138	2,628	0	0	0	0
WHOLE YEAR:--	TOTAL,	3,464	MAXIMUM,	69	MINIMUM,	0	MEAN,	9	TOTAL AC. FT.,	6,870		

First Point Diversions to First Point Group Lands Below Second Point of Measurement (All Sources)												Year: 1989
DISCHARGE IN CUBIC FEET PER SECOND	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	32	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	32	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	32	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	1	0	0	0	0	0	0	0
TOTAL AC. FT.	0	0	0	0	63	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	32	MAXIMUM,	32	MINIMUM,	0	MEAN,	0	TOTAL AC.FT.,	63		

Second Point Group Flow
via Kern River Canal

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	102	31	0	71	0	0	63	0	0	0	0
2	0	98	31	0	49	63	0	64	0	0	0	0
3	0	138	0	0	39	61	43	63	0	0	0	0
4	0	119	0	0	35	61	53	60	0	0	0	0
5	0	63	0	0	26	69	53	55	0	0	0	0
6	0	20	0	9	29	69	52	60	0	0	0	0
7	0	14	0	25	21	67	52	65	0	0	0	0
8	0	18	0	5	25	67	55	284	0	0	0	0
9	0	3	0	3	30	66	51	170	0	0	0	0
10	0	0	0	0	54	33	52	0	0	0	0	0
11	0	0	0	0	77	33	52	44	0	0	0	0
12	0	0	0	0	88	32	0	56	0	0	0	0
13	0	0	0	0	96	0	173	64	0	0	0	0
14	0	0	0	0	97	0	112	65	0	0	0	0
15	0	0	0	0	91	0	0	65	0	0	0	0
16	0	0	0	0	82	0	0	66	0	0	0	0
17	0	0	0	0	75	0	0	63	0	0	0	0
18	0	20	0	0	81	0	0	65	0	0	0	0
19	0	30	0	0	74	0	0	61	0	0	0	0
20	0	25	0	0	68	0	0	67	0	0	0	0
21	0	25	0	0	53	0	55	64	0	0	0	0
22	0	26	0	0	81	0	51	64	0	0	0	0
23	0	28	0	0	102	0	52	61	0	0	0	0
24	0	25	0	0	54	0	51	63	0	0	0	0
25	0	24	0	4	17	0	31	3	0	0	0	0
26	0	31	0	43	79	0	55	0	0	0	0	0
27	0	30	0	72	88	0	59	0	0	0	0	0
28	0	30	0	82	73	0	67	0	0	0	0	0
29	17	-	0	97	6	0	64	0	0	0	0	0
30	43	-	0	102	0	0	66	0	0	0	0	0
31	95	-	0	-	0	-	64	0	-	0	-	0
TOTAL	155	869	62	442	1,761	621	1,363	1,755	0	0	0	0
MAXIMUM DAY	95	138	31	102	102	69	173	284	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	5	31	2	15	57	21	44	57	0	0	0	0
TOTAL AC.FT.	307	1,724	123	877	3,493	1,231	2,703	3,481	0	0	0	0
WHOLE YEAR:-	TOTAL,	7,028	MAXIMUM,	284	MINIMUM,	0	MEAN,	19	TOTAL AC.FT.,	13,939		

Year: 1983

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	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	39	0	0
21	0	0	0	0	0	0	0	0	0	50	0	0
22	0	0	0	0	0	0	0	0	0	16	0	0
23	0	0	0	0	0	0	0	0	0	28	0	0
24	0	0	0	0	0	0	0	0	0	23	0	0
25	0	0	0	0	0	0	0	0	0	25	0	0
26	0	0	0	0	0	0	0	0	0	20	0	0
27	0	0	0	0	0	0	0	0	0	8	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	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	209	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	50	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	7	0	0
TOTAL AC.-FT.	0	0	0	0	0	0	0	0	0	415	0	0
WHOLE YEAR:-	TOTAL,	209	MAXIMUM,	50	MINIMUM,	0	MEAN,	1	TOTAL AC.-FT.,	415		

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

Year: 1989

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FIRST POINT REGULATED FLOW	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
BEARDSLEY CANAL	766	4,590	11,334	13,686	14,239	18,327	17,699	9,146	4,080	3,580	3,574	2,918	103,939
CALLOWAY CANAL	1,666	1,689	1,719	2,390	2,837	87	1,290	2,043	688	893	649	1,718	17,669
KERN ISLAND CANAL	10,572	8,560	15,594	16,195	12,738	20,386	19,152	17,490	6,916	6,470	5,030	7,281	146,384
EASTSIDE CANAL	0	0	1,277	2,162	2,469	3,152	3,425	2,471	1,178	782	153	216	17,285
STINE CANAL	0	0	0	0	0	5,889	5,024	0	0	0	0	0	10,913
TRUXTON LAKES	247	14	30	412	216	0	0	0	0	0	0	0	919
ARVIN-EDISON TURNOUT	0	0	0	0	0	0	0	0	0	0	0	0	0
BUENA VISTA CANAL	645	3,596	555	716	1,105	6,785	5,724	2,172	0	0	0	0	21,298
JAMES CANAL	0	0	0	0	0	0	0	0	0	0	0	0	0
ROSEDALE CHANNEL	0	0	0	0	0	0	0	0	0	0	0	0	0
PIONEER CANAL	0	0	0	0	0	0	0	0	0	0	0	0	0
2800 ACRE SPREADING FACILITY	0	0	0	0	0	0	0	0	0	0	0	0	0
CARRIER LOSS	416	508	224	726	907	978	1,064	587	0	0	0	0	5,410
RIVER LOSS & SPREADING	2,250	1,637	1,359	1,411	1,565	923	1,822	1,442	1,379	1,048	1,382	1,606	17,824
FIRST POINT GROUP TOTAL FLOW	16,562	20,594	32,092	37,698	36,076	56,527	55,200	35,351	14,241	12,773	10,788	13,739	341,641
SECOND POINT TOTAL FLOW	307	974	0	877	3,556	0	565	853	0	0	0	0	7,132

UTILIZATION OF STORAGE - ISABELLA RESERVOIR
KERN RIVER FIRST POINT GROUP

Year: 1989

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	4,524	6,125	7,228	11,609	6,885	3,849	276	2,210	2,500	2,500	2,404	52,610
Buena Vista	545	1,204	1,847	2,864	3,324	1,545	513	0	0	224	254	347	12,667
Stine	111	1,137	2,372	4,514	5,603	3,586	0	0	0	0	0	0	17,323
Farmers	0	141	1,392	3,384	4,550	2,813	909	213	0	0	0	0	13,402
KERN DELTA WD TOTAL	3,156	7,006	11,736	17,990	25,086	14,829	5,271	489	2,210	2,724	2,754	2,751	96,002
City of Bakersfield	1,427	1,265	17,314	31,313	40,420	47,547	24,610	6,611	3,146	1,546	1,698	783	177,680
Kern River Canal & Irr. Co.	0	0	0	409	0	0	0	0	0	0	0	0	409
South Fork	588	777	646	817	853	672	404	238	226	442	486	573	6,722
CITY OF BAKERSFIELD TOTAL	2,015	2,042	17,960	32,539	41,273	48,219	25,014	6,849	3,372	1,988	2,184	1,356	184,811
NORTH KERN WATER STORAGE DISTRICT	24,101	24,871	25,228	37,696	40,522	30,087	31,489	36,791	34,612	33,327	32,194	30,317	381,235
TOTAL 1ST POINT STORAGE	29,272	33,919	54,924	88,225	106,881	93,135	61,774	44,129	40,194	38,039	37,132	34,424	662,048

KERN DELTA WATER DISTRICT

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

Year: 1989
 =====

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+ 15,271	19,619	22,275	26,278	25,358	20,658	17,781	12,324	9,558	10,148	10,052	10,273	199,595
Release	+ or - (4,082)	(2,203)	(775)	(1,312)	(1,989)	0	0	0	(1,199)	(3,226)	(4,951)	(3,076)	(22,813)
Ent'l + or - Releases	= 11,189	17,416	21,500	24,966	23,369	20,658	17,781	12,324	8,359	6,922	5,101	7,197	176,782
Into Isabella Storage	- 62	4,430	5,928	7,117	7,867	512	1,820	462	2,143	601	97	357	31,396
From Isabella Storage	+ 169	512	1,011	452	102	10,010	10,810	5,138	378	0	0	316	28,898
Kern Island Canal to Kern Delta WD	- 0	0	0	0	0	111	1,066	153	0	0	0	0	1,330
Storage Transfer/Exch.	+ or - 0	0	0	0	0	0	(125)	(144)	(176)	0	0	0	(445)
Carrier Canal Loss	- 113	433	0	0	0	0	0	0	0	0	0	0	546
To Improvement District #4	- 79	1,331	0	0	0	0	0	0	0	0	0	0	1,410
Diversified at Heads of Canals	= 11,104	11,734	16,583	18,301	15,604	30,045	25,580	16,703	6,418	6,321	5,004	7,156	170,553
From Improvement District #4	+ 79	1,331	0	0	0	0	0	0	0	0	0	0	1,410
Kern Delta WD to Kern Island Canal	+ 0	0	0	0	0	157	1,006	167	0	0	0	0	1,330
Total Utility Supply	= 11,183	13,065	16,583	18,301	15,604	30,202	26,586	16,870	6,418	6,321	5,004	7,156	173,293
Utility Deliveries	- 7,246	9,491	11,391	11,805	9,254	22,047	19,212	11,398	3,451	3,422	2,656	5,707	117,080
Contract Deliveries	- 281	411	1,049	867	580	769	767	651	206	203	373	60	6,217
Total Irrigation Use	- 7,527	9,902	12,440	12,672	9,834	22,816	19,979	12,049	3,657	3,625	3,029	5,767	123,297
Canal Conveyance Losses	= 3,656	3,163	4,143	5,629	5,770	7,386	6,607	4,821	2,761	2,696	1,975	1,389	49,996
Irrigation Delivery Percentage	- 68%	84%	75%	69%	63%	76%	75%	71%	57%	57%	61%	81%	71%
Reservoir Evaporation Loss	- 40	68	187	411	669	759	568	106	44	87	67	44	3,050
End of Month Reservoir Storage	- 3,156	7,006	11,736	17,990	25,086	14,829	5,271	489	2,210	2,724	2,754	2,751	=====

Year: 1989

Total Flow via the Kern Island Canal Headgate

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	64	163	291	153	201	342	207	394	126	108	72	125
2	69	169	279	168	238	373	200	379	124	166	67	116
3	176	159	263	208	249	382	245	428	147	172	71	119
4	168	117	261	245	237	391	251	395	152	175	79	130
5	163	77	254	270	215	402	246	373	142	165	87	142
6	170	84	272	272	210	392	253	387	146	137	123	202
7	168	108	294	266	231	389	317	398	149	123	145	215
8	166	114	313	288	243	388	368	394	148	118	149	213
9	168	106	334	279	235	369	372	368	141	130	152	205
10	176	102	367	287	213	336	381	357	140	135	141	185
11	176	94	366	287	172	280	349	332	138	108	125	182
12	171	97	343	338	85	222	281	304	121	110	123	180
13	171	104	294	335	82	238	278	346	135	120	107	181
14	164	69	290	350	87	266	269	378	138	102	91	186
15	163	76	306	344	115	285	249	350	114	108	79	186
16	164	92	303	332	123	313	274	304	101	132	68	185
17	169	98	279	335	118	281	358	295	100	146	55	181
18	190	101	279	330	130	294	372	242	105	132	49	185
19	197	102	316	334	166	337	362	194	100	92	43	170
20	181	158	340	300	190	334	370	186	86	76	45	118
21	183	200	317	269	191	389	351	192	65	58	50	53
22	185	219	308	256	188	394	294	218	63	52	59	22
23	185	252	243	257	175	401	286	204	62	65	59	21
24	189	288	139	258	209	385	337	190	80	63	65	21
25	190	288	113	266	288	376	356	178	122	69	66	21
26	193	286	107	253	279	400	397	163	113	66	64	21
27	197	297	114	238	280	380	397	162	120	58	60	19
28	202	296	112	239	309	347	354	185	98	62	64	20
29	204	-	108	218	320	344	276	190	109	68	63	25
30	207	-	117	190	324	248	276	176	102	72	115	21
31	161	-	140	-	319	-	330	156	-	74	-	21
TOTAL	5,330	4,316	7,862	8,165	6,422	10,278	9,556	8,818	3,487	3,262	2,536	3,671
MAXIMUM DAY	207	297	367	350	324	402	397	428	152	175	152	215
MINIMUM DAY	64	69	107	153	82	222	200	156	62	52	43	19
MEAN	172	154	254	272	207	343	311	284	116	105	85	118
TOTAL AC.-FT.	10,572	8,560	15,594	16,195	12,738	20,386	19,152	17,490	6,916	6,470	5,030	7,281
WHOLE YEAR:-	TOTAL,	73,803	MAXIMUM,	428	MINIMUM,	19	MEAN,	202	TOTAL AC.-FT.,	146,384		

Kern Delta Water District/Improvement District No. 4
 Instantaneous Kern River/State Water Exchange
 (Delivered via Arvin-Edison Canal/Kern Island Canal Siphon Installation)

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	50	0	0	0	0	0	0	0	0	0	0
2	0	50	0	0	0	0	0	0	0	0	0	0
3	0	53	0	0	0	0	0	0	0	0	0	0
4	0	53	0	0	0	0	0	0	0	0	0	0
5	0	52	0	0	0	0	0	0	0	0	0	0
6	0	50	0	0	0	0	0	0	0	0	0	0
7	0	35	0	0	0	0	0	0	0	0	0	0
8	0	10	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	16	0	0	0	0	0	0	0	0	0	0
12	0	19	0	0	0	0	0	0	0	0	0	0
13	0	20	0	0	0	0	0	0	0	0	0	0
14	0	17	0	0	0	0	0	0	0	0	0	0
15	0	25	0	0	0	0	0	0	0	0	0	0
16	0	25	0	0	0	0	0	0	0	0	0	0
17	0	19	0	0	0	0	0	0	0	0	0	0
18	0	16	0	0	0	0	0	0	0	0	0	0
19	0	15	0	0	0	0	0	0	0	0	0	0
20	0	16	0	0	0	0	0	0	0	0	0	0
21	0	17	0	0	0	0	0	0	0	0	0	0
22	0	16	0	0	0	0	0	0	0	0	0	0
23	0	15	0	0	0	0	0	0	0	0	0	0
24	0	15	0	0	0	0	0	0	0	0	0	0
25	0	15	0	0	0	0	0	0	0	0	0	0
26	0	16	0	0	0	0	0	0	0	0	0	0
27	0	16	0	0	0	0	0	0	0	0	0	0
28	0	20	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	40	-	0	-	0	-	0	0	-	0	-	0
TOTAL	40	671	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	40	53	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	24	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	79	1,331	0	0	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	711	MAXIMUM,	53	MINIMUM,	0	MEAN,	2	TOTAL AC. FT.,	1,410		

Improvement District #4 Water Diverted for Kern Delta Water District
 via Arvin-Edison Canal/Kern Island Canal Siphon Installation Year: 1989
 (Includes 1988 Payback to KDMWD (649 AF) and 1989 I.D. #4 Water (681 AF))

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	44	0	0	0	0	0
2	0	0	0	0	0	0	41	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	39	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	48	0	0	0	0	0
15	0	0	0	0	0	0	47	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	39	0	0	0	0	0	0
18	0	0	0	0	0	40	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	40	0	0	0	0	0
24	0	0	0	0	0	0	39	0	0	0	0	0
25	0	0	0	0	0	0	40	22	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	74	0	0	0	0	0
30	0	-	0	0	0	0	71	0	0	0	0	0
31	0	-	0	-	0	-	63	23	-	0	-	0
TOTAL	0	0	0	0	0	79	507	84	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	40	74	39	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	3	16	3	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	157	1,006	167	0	0	0	0
WHOLE YEAR:-	TOTAL,	670	MAXIMUM,	74	MINIMUM,	0	MEAN,	2	TOTAL AC. FT.,	1,330		

Year: 1989

KERN DELTA WATER DISTRICT
KERN ISLAND CANAL SERVICE AREA

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+ 15,271	16,411	18,294	17,851	18,446	17,851	17,781	12,324	9,558	10,148	10,052	10,273	174,260
Release	- 4,467	2,156	102	58	763	0	0	0	1,199	3,454	4,987	3,175	20,361
Ent'l + or - Releases	= 10,804	14,255	18,192	17,793	17,683	17,851	17,781	12,324	8,359	6,694	5,065	7,098	153,899
Into Storage	- 48	2,483	2,711	1,741	4,729	405	1,820	462	2,143	373	61	258	17,234
From Storage	+ 18	403	1,011	452	52	4,788	4,518	3,977	169	0	0	316	15,704
Carrier Canal Loss	- 0	288	0	0	0	0	0	0	0	0	0	0	288
To Kern Delta WD	- 0	0	0	0	0	111	1,066	153	0	0	0	0	1,330
Storage Transfer	- 0	0	0	0	0	0	(125)	(144)	(176)	0	0	0	(445)
Eastside Canal Ent'l	- 0	0	1,156	1,904	2,203	2,735	2,711	1,061	0	0	0	0	11,770
To Improvement District #4	- 79	1,331	0	0	0	0	0	0	0	0	0	0	1,410
Diversed at Head	= 10,695	10,556	15,336	14,600	10,803	19,388	16,577	14,481	6,209	6,321	5,004	7,156	137,126
From Improvement District #4	+ 79	1,331	0	0	0	0	0	0	0	0	0	0	1,410
From Kern Delta WD	+ 0	0	0	0	0	157	1,006	167	0	0	0	0	1,330
Total Utility Supply	= 10,774	11,887	15,336	14,600	10,803	19,545	17,583	14,648	6,209	6,321	5,004	7,156	139,866
Utility Deliveries	7,099	8,526	10,650	9,629	6,527	14,325	12,743	9,769	3,318	3,422	2,656	5,707	94,371
Contract Deliveries	281	411	1,043	799	454	730	754	644	206	203	373	60	5,958
Total Deliveries	- 7,380	8,937	11,693	10,428	6,981	15,055	13,497	10,413	3,524	3,625	3,029	5,767	100,329
Conveyance Losses	= 3,394	2,950	3,643	4,172	3,822	4,490	4,086	4,235	2,685	2,696	1,975	1,389	39,537
Delivery Percentage	68%	75%	76%	71%	65%	77%	77%	71%	57%	57%	61%	81%	72%
Into Reservoir Storage	48	2,483	2,711	1,741	4,729	405	1,820	462	2,143	373	61	258	17,234
Reservoir Evaporation Loss	30	56	99	186	296	341	338	58	40	83	61	38	1,626
From Reservoir Storage	18	403	1,011	452	52	4,788	4,518	3,977	169	0	0	316	15,704
End of Month Reservoir Storage	2,500	4,524	6,125	7,228	11,609	6,885	3,849	2,210	2,210	2,500	2,500	2,404	15,704
State Exchange Diverted	81	422	480	470	422	764	1,617	1,781	486	95	26	125	6,769
Other Diversions	0	0	0	0	0	87	895	780	0	0	0	0	1,762
State Exch. Delivered	81	422	480	470	422	764	1,617	1,760	425	95	26	125	6,687
Other Delivered	0	0	0	0	0	66	823	764	0	0	0	0	1,653

KERN ISLAND CANAL
ENTITLEMENT AND DIVERSION OF CONTRACT WATER

BALFOUR - GUTHRIE CONTRACT

Year: 1989

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	18,446	217,165
Actual	15,271	16,411	18,294	17,851	18,446	17,851	17,781	12,324	9,558	10,148	10,052	10,273	174,260	
Maximum Percentage	83%	98%	99%	100%	100%	100%	96%	67%	54%	55%	56%	56%	56%	

CONTRACT ENTITLEMENT:

Maximum	269	242	269	260	269	260	269	269	260	269	260	260	2,896
Actual	223	237	266	260	269	260	258	180	140	148	146	---	2,387
Sum to Date	223	460	726	986	1,255	1,515	1,773	1,953	2,093	2,241	2,387	2,387	---

CONTRACT DIVERTED:

For Month	0	83	799	552	224	504	480	269	39	22	0	0	2,972
To Date	0	83	882	1,434	1,658	2,162	2,642	2,911	2,950	2,972	2,972	2,972	---

UNUSED ENTITLEMENT:

For Month	223	154	(533)	(292)	45	(244)	(222)	(89)	101	126	146	0	(585)
Sum to Date	223	377	(156)	(448)	(403)	(647)	(869)	(958)	(857)	(731)	(585)	(585)	---

KERN ISLAND CANAL
ENTITLEMENT AND DIVERSION OF CONTRACT WATER

BLOOMFIELD CONTRACT

Year: 1989

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

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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	15,271	16,411	18,294	17,851	18,446	17,851	17,781	12,324	9,558	10,148	10,052	10,273	174,260
Maximum Percentage	83%	98%	99%	100%	100%	100%	96%	67%	54%	55%	56%	56%	--

KERN ISLAND CANAL ENTITLEMENT:

Maximum	336	303	336	325	336	325	336	336	325	336	325	--	3,619
Actual	279	297	333	325	336	325	323	225	176	185	182	--	2,986
Sum to Date	279	576	909	1,234	1,570	1,895	2,218	2,443	2,619	2,804	2,986	2,986	--

CONTRACT ENTITLEMENT:

Maximum	281	328	244	247	230	226	274	375	167	181	373	60	2,986
Actual	281	609	853	1,100	1,330	1,556	1,830	2,205	2,372	2,553	2,926	2,986	--

CONTRACT DIVERTED:

For Month	281	328	244	247	230	226	274	375	167	181	373	60	2,986
To Date	281	609	853	1,100	1,330	1,556	1,830	2,205	2,372	2,553	2,926	2,986	--

UNUSED ENTITLEMENT:

For Month	(2)	(31)	89	78	106	99	49	(150)	9	4	(191)	(60)	0
Sum to Date	(2)	(33)	56	134	240	339	388	238	247	251	60	0	--

Year: 1989

Total Flow via the Eastside Canal Headgate

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	26	36	34	48	57	17	0	10	0
2	0	0	0	29	45	35	53	55	14	9	12	0
3	0	0	0	40	46	39	51	41	22	10	5	0
4	0	0	0	42	46	50	41	42	27	10	3	0
5	0	0	0	43	46	54	47	41	30	7	1	0
6	0	0	0	46	48	68	51	42	29	9	6	0
7	0	0	0	43	49	66	55	46	31	15	8	0
8	0	0	0	40	58	58	51	51	31	15	6	0
9	0	0	0	40	56	50	55	57	29	17	8	0
10	0	0	0	46	43	46	51	56	25	14	6	0
11	0	0	0	52	30	50	48	59	27	16	5	0
12	0	0	0	58	32	54	53	60	26	22	3	0
13	0	0	0	65	30	56	61	60	22	24	4	0
14	0	0	18	60	29	58	61	60	21	22	0	0
15	0	0	37	48	39	59	57	54	23	18	0	0
16	0	0	39	41	54	52	63	47	23	19	0	0
17	0	0	39	31	50	50	68	46	20	20	0	0
18	0	0	43	30	40	49	70	43	18	7	0	0
19	0	0	47	27	33	70	70	29	20	7	0	0
20	0	0	43	16	29	56	64	20	17	10	0	0
21	0	0	46	19	35	49	62	21	14	9	0	0
22	0	0	52	19	44	52	57	28	14	7	0	0
23	0	0	43	20	48	55	63	27	13	8	0	0
24	0	0	48	28	47	52	59	33	11	11	0	0
25	0	0	26	31	37	53	57	31	11	13	0	15
26	0	0	28	34	36	55	51	27	11	13	0	29
27	0	0	36	34	27	56	49	25	11	16	0	24
28	0	0	34	30	27	61	47	26	14	11	0	11
29	0	0	30	27	37	65	49	23	14	13	0	10
30	0	0	28	25	35	54	53	20	9	11	0	10
31	0	0	27	0	36	0	55	19	0	11	0	10
TOTAL	0	0	644	1,090	1,245	1,589	1,727	1,246	594	394	77	109
MAXIMUM DAY	0	0	52	65	56	68	70	60	31	24	12	29
MINIMUM DAY	0	0	0	16	27	34	41	19	9	0	0	0
MEAN	0	0	21	36	40	53	56	40	20	13	3	4
TOTAL AC. FT.	0	0	1,277	2,162	2,469	3,152	3,425	2,471	1,178	782	153	216
WHOLE YEAR:-	TOTAL,	8,715	MAXIMUM,	70	MINIMUM,	0	MEAN,	24	TOTAL AC. FT.,	17,285		

KERN DELTA WATER DISTRICT
EASTSIDE CANAL SERVICE AREA

Year: 1989

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	0	0	1,156	1,904	2,203	2,735	2,711	1,061	0	0	0	0	11,770
Total River Diverted	0	0	1,156	1,904	2,203	2,735	2,711	1,061	0	0	0	0	11,770
State Exchange Diverted	0	0	121	258	266	417	714	1,400	1,172	780	153	216	5,497
Other Diverted	0	0	0	0	0	0	0	10	6	2	0	0	18
Total State/Other Div.	0	0	121	258	266	417	714	1,410	1,178	782	153	216	5,515
Eastside Canal at Head	0	0	1,277	2,162	2,469	3,152	3,425	2,471	1,178	782	153	216	17,285
Utility Deliveries	0	0	725	1,437	1,706	2,301	2,256	893	0	0	0	0	9,318
Contract Deliveries	0	0	6	68	126	39	13	7	0	0	0	0	259
Total Utility Deliveries	0	0	731	1,505	1,832	2,340	2,269	900	0	0	0	0	9,577
State Exchange Delivered	0	0	121	258	266	417	714	1,281	926	587	186	47	4,803
Other Deliveries	0	0	0	0	0	0	0	10	6	2	0	0	18
Total State/Other Del.	0	0	121	258	266	417	714	1,291	932	589	186	47	4,821
Total Deliveries	0	0	852	1,763	2,098	2,757	2,983	2,191	932	589	186	47	14,398
Canal Loss (Utility)	0	0	425	399	371	395	442	161	0	0	0	0	2,193
Canal Loss (State/Other)	0	0	0	0	0	0	0	119	246	193	(33)	169	694
Total Canal Loss	0	0	425	399	371	395	442	280	246	193	(33)	169	2,887
Delivery Percentage	0%	0%	67%	82%	85%	87%	87%	89%	79%	75%	122%	22%	83%

Year: 1989

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	0	58	63	10	18	0	105	81	0	0	0	0
2	0	66	60	11	17	12	94	79	0	0	0	0
3	0	72	49	13	25	55	84	78	0	0	0	0
4	0	64	48	14	24	89	87	74	0	0	0	0
5	0	67	41	11	21	122	86	73	0	0	0	0
6	0	63	0	14	20	129	71	71	0	0	0	0
7	0	53	0	26	20	136	80	64	0	0	0	0
8	0	0	0	26	17	145	85	49	0	0	0	0
9	0	0	0	22	0	152	77	48	0	0	0	0
10	0	47	0	0	9	151	77	47	0	0	0	0
11	0	66	0	0	20	152	76	43	0	0	0	0
12	8	69	0	8	21	144	80	43	0	0	0	0
13	36	76	0	14	18	136	101	45	0	0	0	0
14	34	73	0	15	17	137	119	53	0	0	0	0
15	32	71	0	13	19	141	123	55	0	0	0	0
16	30	70	0	6	20	132	112	52	0	0	0	0
17	21	67	0	0	19	125	111	44	0	0	0	0
18	0	66	0	0	19	113	112	38	0	0	0	0
19	0	66	0	0	25	104	110	32	0	0	0	0
20	0	65	0	5	27	106	101	26	0	0	0	0
21	0	77	0	16	25	121	106	0	0	0	0	0
22	0	76	0	16	25	115	105	0	0	0	0	0
23	0	82	0	15	26	109	102	0	0	0	0	0
24	0	76	0	15	26	112	101	0	0	0	0	0
25	0	83	0	15	27	107	102	0	0	0	0	0
26	0	85	0	16	25	107	88	0	0	0	0	0
27	0	83	0	16	20	121	78	0	0	0	0	0
28	0	72	0	15	7	123	78	0	0	0	0	0
29	42	-	0	15	0	111	75	0	0	0	0	0
30	63	-	8	14	0	114	78	0	0	0	0	0
31	59	-	11	-	0	-	81	0	-	0	-	0
TOTAL	325	1,813	280	361	557	3,421	2,886	1,095	0	0	0	0
MAXIMUM DAY	63	85	63	26	27	152	123	81	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	71	0	0	0	0	0
MEAN	10	65	9	12	18	114	93	35	0	0	0	0
TOTAL AC. FT.	645	3,596	555	716	1,105	6,785	5,724	2,172	0	0	0	0
WHOLE YEAR:-	TOTAL,	10,738	MAXIMUM,	152	MINIMUM,	0	MEAN,	29	TOTAL AC. FT.,	21,298		

KERN DELTA WATER DISTRICT
BUENA VISTA CANAL SERVICE AREA

Year: 1989

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+ 0	2,039	837	1,775	1,454	615	0	0	0	0	0	0	6,720
Release	+ or - 385	(47)	(123)	23	269	0	0	0	0	228	36	99	870
Ent'l + or - Releases	= 385	1,992	714	1,798	1,723	615	0	0	0	228	36	99	7,590
Into Storage	- 14	778	677	1,082	605	16	0	0	0	228	36	99	3,535
From Storage	+ 151	109	0	0	50	1,704	978	501	0	0	0	0	3,493
Other Supply	+ or - 0	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal Loss	- 113	145	0	0	0	0	0	0	0	0	0	0	258
Diverted at Head of Canal	= 409	1,178	37	716	1,168	2,303	978	501	0	0	0	0	7,290
Utility Deliveries	147	965	0	175	380	1,751	748	344	0	0	0	0	4,510
Contract Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	- 147	965	0	175	380	1,751	748	344	0	0	0	0	4,510
Canal Conveyance Losses	= 262	213	37	541	788	552	230	157	0	0	0	0	2,780
Irrigation Delivery Percentage	36%	82%	0%	24%	33%	76%	76%	69%	0%	0%	0%	0%	62%
Into Reservoir Storage	14	778	677	1,082	605	16	0	0	0	228	36	99	3,535
Reservoir Evaporation Loss	8	10	34	65	95	91	54	12	0	4	6	6	385
From Reservoir Storage	151	109	0	0	50	1,704	978	501	0	0	0	0	3,493
End of Month Reservoir Storage	545	1,204	1,847	2,864	3,324	1,545	513	0	0	224	254	347	17,275
State Exchange Diverted	0	0	0	0	0	2,953	2,727	595	0	0	0	0	6,275
State Water Div. via Maples Canal	0	0	0	0	0	0	42	28	0	0	0	0	70
I.D. #4 Water Diverted	0	0	0	0	0	24	139	77	0	0	0	0	240
State Exch. Delivered	0	0	0	0	0	2,264	2,080	440	0	0	0	0	4,784
State Water Del. via Maples Canal	0	0	0	0	0	0	42	28	0	0	0	0	70
I.D. #4 Water Delivered	0	0	0	0	0	16	100	57	0	0	0	0	173

Year: 1989

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	0	0	0	0	0	0	94	0	0	0	0	0
2	0	0	0	0	0	13	95	0	0	0	0	0
3	0	0	0	0	0	68	92	0	0	0	0	0
4	0	0	0	0	0	94	95	0	0	0	0	0
5	0	0	0	0	0	102	96	0	0	0	0	0
6	0	0	0	0	0	103	94	0	0	0	0	0
7	0	0	0	0	0	104	102	0	0	0	0	0
8	0	0	0	0	0	106	100	0	0	0	0	0
9	0	0	0	0	0	111	92	0	0	0	0	0
10	0	0	0	0	0	120	88	0	0	0	0	0
11	0	0	0	0	0	127	87	0	0	0	0	0
12	0	0	0	0	0	136	87	0	0	0	0	0
13	0	0	0	0	0	132	85	0	0	0	0	0
14	0	0	0	0	0	124	75	0	0	0	0	0
15	0	0	0	0	0	123	73	0	0	0	0	0
16	0	0	0	0	0	110	75	0	0	0	0	0
17	0	0	0	0	0	92	76	0	0	0	0	0
18	0	0	0	0	0	88	77	0	0	0	0	0
19	0	0	0	0	0	87	77	0	0	0	0	0
20	0	0	0	0	0	85	76	0	0	0	0	0
21	0	0	0	0	0	90	74	0	0	0	0	0
22	0	0	0	0	0	93	70	0	0	0	0	0
23	0	0	0	0	0	98	70	0	0	0	0	0
24	0	0	0	0	0	102	70	0	0	0	0	0
25	0	0	0	0	0	103	76	0	0	0	0	0
26	0	0	0	0	0	108	87	0	0	0	0	0
27	0	0	0	0	0	110	82	0	0	0	0	0
28	0	0	0	0	0	117	80	0	0	0	0	0
29	0	0	0	0	0	118	78	0	0	0	0	0
30	0	0	0	0	0	105	70	0	0	0	0	0
31	0	0	0	0	0	0	40	0	0	0	0	0
TOTAL	0	0	0	0	0	2,969	2,533	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	136	102	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	40	0	0	0	0	0
MEAN	0	0	0	0	0	99	82	0	0	0	0	0
TOTAL AC.FT.	0	0	0	0	0	5,889	5,024	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	5,502	MAXIMUM,	136	MINIMUM,	0	MEAN,	15	TOTAL AC.FT.,	10,913		

KERN DELTA WATER DISTRICT
STINE CANAL SERVICE AREA

Year: 1989

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+	0	1,028	1,575	3,326	2,729	1,156	0	0	0	0	0	9,814
Release	+ or -	0	0	(302)	(720)	(803)	0	0	0	0	0	0	(1,825)
Ent'l + or - Releases	=	0	1,028	1,273	2,606	1,926	1,156	0	0	0	0	0	7,989
Into Storage	-	0	1,028	1,273	2,237	1,244	69	0	0	0	0	0	5,851
From Storage	+	0	0	0	0	1,902	3,499	0	0	0	0	0	5,401
Other Supply	+ or -	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
Diverted at Head	=	0	0	0	369	682	2,989	3,499	0	0	0	0	7,539
Utility Deliveries		0	0	0	150	268	1,619	2,196	0	0	0	0	4,233
Contract Deliveries		0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	-	0	0	0	150	268	1,619	2,196	0	0	0	0	4,233
Conveyance Losses	=	0	0	0	219	414	1,370	1,303	0	0	0	0	3,306
Delivery Percentage		0%	0%	0%	41%	39%	54%	63%	0%	0%	0%	0%	56%
Into Reservoir Storage		0	1,028	1,273	2,237	1,244	69	0	0	0	0	0	5,851
Reservoir Evaporation Loss		2	2	38	95	155	184	87	0	0	0	0	563
From Reservoir Storage		0	0	0	0	0	1,902	3,499	0	0	0	0	5,401
End of Month Reservoir Storage		111	1,137	2,372	4,514	5,603	3,586	0	0	0	0	0	
State Exchange Diverted		0	0	0	0	0	1,353	308	0	0	0	0	3,321
Other Diversions		0	0	0	0	0	32	0	0	0	0	0	32
State Exch. Delivered		0	0	0	0	1,063	689	229	0	0	0	0	1,981
Other Delivered		0	0	0	0	0	32	0	0	0	0	0	32

KERN DELTA WATER DISTRICT
FARMERS CANAL SERVICE AREA

Quantities in acre-feet

Year: 1989

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+	141	1,569	3,326	2,729	1,036	0	0	0	0	0	0	8,801
Release	+ or -	0	(248)	(557)	(692)	0	0	0	0	0	0	0	(1,497)
Ent'l + or - Releases	=	141	1,321	2,769	2,037	1,036	0	0	0	0	0	0	7,304
Into Storage	-	141	1,267	2,057	1,289	22	0	0	0	0	0	0	4,776
From Storage	+	0	0	0	0	1,616	1,815	660	209	0	0	0	4,300
Other Supply	+ or -	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
Diverted at Head	=	0	0	54	712	748	1,815	660	209	0	0	0	6,828
Utility Deliveries		0	0	16	414	373	2,051	392	133	0	0	0	4,648
Contract Deliveries		0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	-	0	0	16	414	373	2,051	392	133	0	0	0	4,648
Conveyance Losses	=	0	0	38	298	375	579	268	76	0	0	0	2,180
Delivery Percentage		0%	0%	30%	58%	78%	70%	59%	64%	0%	0%	0%	58%
Into Reservoir Storage		0	141	1,267	2,057	1,289	22	0	0	0	0	0	4,776
Reservoir Evaporation Loss		0	0	16	65	123	143	89	4	0	0	0	476
From Reservoir Storage		0	0	0	0	1,616	1,815	660	209	0	0	0	4,300
End of Month Reservoir Storage		0	141	1,392	3,384	4,550	2,813	909	213	0	0	0	0
State Exchange Diverted		0	0	0	0	0	0	313	0	0	0	0	343
Other Diversions		0	0	0	0	0	0	0	0	0	0	0	0
State Exch. Delivered		0	0	0	0	0	0	137	0	16	0	0	153
Other Delivered		0	0	0	0	0	0	0	0	0	0	0	0

Year: 1989

Kern Delta Water District Diversions
via First Point Conduit (River Canal)

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	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	32	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	32	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	32	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	1	0	0	0	0	0	0	0
TOTAL AC.FT.	0	0	0	0	63	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	32	MAXIMUM,	32	MINIMUM,	0	MEAN,	0	TOTAL AC.FT.,	63		

Year: 1989

KERN DELTA WATER DISTRICT
State Aqueduct Exchange Diversion and Storage Recapitulation

Quantities in acre-feet

	Kern Island	Eastside	Eastside via K.I.	Buena Vista	Stime	Farmers	Resv. Loss	Other	Total	Storage Balance
1988										788
Carry Over	0	0	0	0	0	0	0	0	0	788
November	0	0	0	0	0	0	0	0	0	788
December	0	0	0	0	0	0	0	0	0	788
January	67	0	14	0	0	0	0	0	81	707
February	68	0	354	0	0	0	0	0	422	285
March	10	0	275	0	0	0	0	0	285	0
Total	145	0	643	0	0	0	0	0	788	

Notes:

1) 1989 Contract amount = 24,200 acre-feet.

	Kern Island	Eastside	Eastside via K.I.	Buena Vista	Stime	Farmers	Resv. Loss	Other	Total	Storage Balance
1989										24,200
Contract	0	121	195	0	0	0	0	0	316	23,884
March	0	121	195	0	0	0	0	0	316	23,884
April	93	258	377	0	0	0	0	0	728	23,156
May	192	266	230	0	0	0	0	0	688	22,468
June	276	417	488	2,953	1,660	0	0	0	5,794	16,674
July	949	714	668	2,727	1,353	0	0	42	6,453	10,221
August	1,122	1,400	659	595	308	313	0	28	4,425	5,796
September	320	1,172	166	0	0	0	0	0	1,658	4,138
October	0	780	95	0	0	30	0	0	905	3,233
November	0	0	0	0	0	0	0	0	0	3,233
Total	2,952	5,128	2,878	6,275	3,321	343	0	70	20,967	

1989										3,233
Carry Over	0	153	26	0	0	0	0	0	179	3,054
November	0	153	26	0	0	0	0	0	179	3,054
December	77	216	48	0	0	0	0	0	341	2,713
Total	77	369	74	0	0	0	0	0	520	

CITY OF BAKERSFIELD

KERN RIVER CHANNEL OPERATIONS
CITY OF BAKERSFIELD

Year: 1989

Quantities in acre-feet

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
+ Kern River at First Point	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
- Computed Loss	676	611	676	655	676	655	676	676	655	676	655	676	7,963
- Beardsley Canal at Head	766	4,590	11,334	13,686	14,239	18,327	17,699	9,146	4,080	3,580	3,574	2,918	103,939
- Carrier Canal at Head	13,055	11,161	19,311	20,223	16,695	37,513	36,224	25,392	9,506	8,517	6,468	10,145	214,210
= Rocky Point Weir	2,372	5,206	771	4,011	8,022	32	1,166	990	0	0	91	0	22,661
+ Carrier Waste Gate	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Farmers-Stine-Anderson: to River	899	0	2,072	347	89	323	1,819	2,321	1,412	1,265	1,285	2,648	14,480
- Farmers-Stine-Anderson: from River	67	2,525	441	1,212	4,385	0	549	502	0	0	0	0	9,681
- Calloway Canal at Head	1,666	1,689	1,719	2,390	2,837	87	1,290	2,043	688	893	649	1,718	17,669
- River Loss: Rocky Pt. to Cally. Weir	697	667	683	756	889	268	686	671	754	358	727	930	8,056
= Calloway River Weir	841	325	0	0	0	0	460	95	0	14	0	0	1,735
+ CVC T.O. #4 to River	0	0	0	0	0	0	347	0	0	0	0	0	347
+ CVC T.O. #3 to River	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	415	0	0	415
- River Canal from River	0	0	0	0	0	0	0	0	0	0	0	0	0
- River Loss: Cally. Weir to River Canal Weir	841	325	0	0	0	0	807	95	0	352	0	0	2,420
= River Canal Weir	0	0	0	0	0	0	0	0	0	77	0	0	77
+ Pioneer Turnout	36	34	0	0	0	0	0	0	0	0	0	0	70
+ CVC T.O. #2 to River	0	0	0	0	0	0	0	0	0	0	0	0	0
- Rosedale Channel at Head	0	0	0	0	0	0	0	0	0	0	0	0	0
- Pioneer Canal at Head	0	0	0	0	0	0	0	0	0	0	0	0	0
- River Loss: River Canal to Stockdale Hwy.	36	34	0	0	0	0	0	0	0	77	0	0	147
= Flow at Stockdale Highway	0	0	0	0	0	0	0	0	0	0	0	0	0
- River Loss: Std. Hwy. to Berrenda Mesa T.O.	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Berrenda Mesa Turnout from River	0	0	0	0	0	0	0	0	0	0	0	0	0
+ CVC T.O. #1 to River	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Pioneer Canal (P-1 Lateral) to 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
- Pioneer Canal (P-1 Lateral) from 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
+ River Canal T.O. to 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
- 2800 Acre Recharge Facility	0	0	0	0	0	0	0	0	0	0	0	0	0
= River Channel Below 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0

CARRIER CANAL OPERATIONS
CITY OF BAKERSFIELD

Year: 1989

Quantities in acre-feet

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
+ Carrier Canal at Head	13,055	11,161	19,311	20,223	16,695	37,513	36,224	25,392	9,506	8,517	6,468	10,145	214,210
- Carrier Waste Gate	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Oilfield Discharge (Texaco Inc.)	469	214	0	0	0	0	0	0	0	0	0	0	683
= Carrier Reclamation Weir	13,524	11,375	19,311	20,223	16,695	37,513	36,224	25,392	9,506	8,517	6,468	10,145	214,893
+ Oilfield Discharge (Arco Oil)	50	17	0	0	0	0	0	0	0	0	0	0	67
+ Storm Drain Inflow/Canal Drainage	0	0	0	0	0	0	0	0	0	0	0	0	0
- Eastside Canal at Head	0	0	1,277	2,162	2,469	3,152	3,425	2,471	1,178	782	153	216	17,285
- Kern Island Canal at Head	10,572	8,560	15,594	16,195	12,738	20,386	19,152	17,490	6,916	6,470	5,030	7,281	146,384
= Levee No. 1	3,002	2,832	2,440	1,866	1,488	13,975	13,647	5,431	1,412	1,265	1,285	2,648	51,291
- Farmers-Stine-Anderson: to River	899	0	2,072	347	89	323	1,819	2,321	1,412	1,265	1,285	2,648	14,480
+ Farmers-Stine-Anderson: from River	67	2,325	441	1,212	4,385	0	549	502	0	0	0	0	9,681
= Carrier Canal at Oak Street	2,170	5,357	809	2,731	5,784	13,652	12,377	3,612	0	0	0	0	46,492
- Stine Canal at Head	0	0	0	0	0	5,889	5,024	0	0	0	0	0	10,913
- Truxtun Lakes	547	123	30	412	216	0	0	0	0	0	0	0	1,328
- Arvin-Edison Turnout	0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Carrier Canal Loss	635	630	224	726	907	978	1,064	587	0	0	0	0	5,751
+ River Canal from River	0	0	0	0	0	0	0	0	0	0	0	0	0
= River Canal at Stockdale Highway	988	4,604	555	1,593	4,661	6,785	6,289	3,025	0	0	0	0	28,500
- Buena Vista Canal at Head	645	3,596	555	716	1,105	6,785	5,724	2,172	0	0	0	0	21,298
- Pioneer Turnout	36	34	0	0	0	0	0	0	0	0	0	0	70
- James Canal at Head	0	0	0	0	0	0	0	0	0	0	0	0	0
= River Canal at Alternate Second Point	307	974	0	877	3,556	0	565	853	0	0	0	0	7,132
+ 2800 Acre Well Production	0	750	123	0	0	1,231	2,138	2,628	0	0	0	0	6,870
- River Canal Turnout	0	0	0	0	0	0	0	0	0	0	0	0	0
- Kern Delta WD via River Canal	0	0	0	0	63	0	0	0	0	0	0	0	63
= Second Point Group Flow via River Canal	307	1,724	123	877	3,493	1,231	2,703	3,481	0	0	0	0	13,939

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

Quantities in acre-feet

Year: 1989

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	0	809	24,050	21,518	18,954	15,574	1,778	0	0	0	0	0	82,683
Release	1,127	155	237	468	684	0	0	0	238	980	1,190	674	5,753
ENTITLEMENT + OR - RELEASES	1,127	964	24,287	21,986	19,638	15,574	1,778	0	238	980	1,190	674	88,436
NKMSD to City	76	0	19	666	1,270	0	0	0	195	443	1,735	1,444	5,848
From Reservoir Storage	83	172	0	0	0	85	21,211	17,412	3,191	1,896	28	888	44,966
Into Reservoir Storage	218	36	16,317	14,712	10,226	8,907	0	0	0	366	232	0	51,014
Other	0	0	0	0	76	1,231	1,134	494	0	0	0	0	2,935
TOTAL SUPPLY	1,068	1,100	7,989	7,940	10,758	7,983	24,123	17,906	3,624	2,953	2,721	3,006	91,171
Lake Ming	16	16	44	60	77	105	127	121	91	65	42	26	790
North Kern WSD	0	0	1,341	190	36	1,231	12,935	10,494	0	419	80	10	26,736
Cawelo WD	14	0	2,624	3,426	5,751	3,224	5,400	2,035	0	0	721	1,666	24,861
Kern-Tulare WD	0	0	2,220	3,145	3,428	81	1,821	2,317	2,454	1,169	0	0	16,635
Rag Gulch WD	0	0	317	473	514	12	274	347	368	190	0	0	2,495
Rosedale RBMSD (Direct)	0	0	0	0	0	0	0	0	0	0	0	0	0
Rosedale RBMSD (via I.D. #4)	0	0	0	0	0	0	0	0	0	0	1,251	928	2,179
James-Pioneer ID	0	0	0	0	0	0	0	0	0	0	0	0	0
Rosedale Ranch ID	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Canal & Irrigating Co.	0	95	1,243	4	43	2,091	2,160	1,859	710	1,108	625	377	10,315
Truxtun Lakes (Direct)	0	0	0	0	0	0	0	0	0	0	0	0	0
Truxtun Lakes (via I.D. #4)	941	896	0	0	0	0	0	0	0	0	0	0	1,837
2800 Acre Banking	0	0	0	0	0	0	0	0	0	0	0	0	0
River and Carrier Canal Loss	97	93	200	642	909	1,239	1,406	733	1	2	2	(1)	5,323
TOTAL DIVERTED	1,068	1,100	7,989	7,940	10,758	7,983	24,123	17,906	3,624	2,953	2,721	3,006	91,171
Into Reservoir Storage	218	36	16,317	14,712	10,226	8,907	0	0	0	366	232	0	51,014
Reservoir Evaporation Loss	23	26	268	713	1,119	1,695	1,726	587	274	70	52	27	6,580
From Reservoir Storage	83	172	0	0	0	85	21,211	17,412	3,191	1,896	28	888	44,966
End of Month Reservoir Storage	1,427	1,265	17,314	31,313	40,420	47,547	24,610	6,611	3,146	1,546	1,698	783	-----

CITY OF BAKERSFIELD
STATUS OF LONG TERM CONTRACTS

Quantities in
acre-feet

NORTH KERN WATER STORAGE DISTRICT

Year	Basic Contract Amount	Cumulative Contract Delivered	Basic Contract Delivery Balance
1977	20,000	20,000	0
1978	20,000	40,000	0
1979	20,000	60,000	0
1980	20,000	80,000	0
1981	20,000	100,000	0
1982	20,000	120,000	0
1983	20,000	140,000	0
1984	20,000	160,000	0
1985	20,000	180,000	0
1986	20,000	200,000	0
1987	20,000	220,000	0
1988	20,000	240,000	0
1989	20,000	260,000	0

CAMELO WATER DISTRICT

Year	Basic Contract Amount	Cumulative Contract Delivered	Basic Contract Delivery Balance
1977	27,000	5,024	(21,976)
1978	27,000	35,404	(13,572)
1979	27,000	36,780	(3,792)
1980	27,000	30,792	0
1981	27,000	27,000	0
1982	27,000	27,000	0
1983	27,000	27,000	0
1984	27,000	27,000	0
1985	27,000	27,000	0
1986	27,000	27,000	0
1987	27,000	27,000	0
1988	27,000	12,821	(14,179)
1989	27,000	351,000	(332,281)

KERN-TULARE WATER DISTRICT

Year	Basic Contract Amount	Cumulative Contract Delivered	Basic Contract Delivery Balance
1977	20,000	4,673	(15,327)
1978	20,000	23,690	(11,637)
1979	20,000	24,122	52,485
1980	20,000	23,403	75,888
1981	20,000	23,700	99,588
1982	20,000	20,412	120,000
1983	20,000	20,000	140,000
1984	20,000	20,000	160,000
1985	20,000	20,000	180,000
1986	20,000	200,000	200,000
1987	20,000	220,000	220,000
1988	20,000	11,763	231,763
1989	20,000	16,635	248,398

RAG GULCH WATER DISTRICT

Year	Basic Contract Amount	Cumulative Contract Delivered	Basic Contract Delivery Balance
1977	3,000	3,000	449
1978	3,000	6,000	3,999
1979	3,000	9,000	7,549
1980	3,000	12,000	3,550
1981	3,000	15,000	3,550
1982	3,000	18,000	3,351
1983	3,000	21,000	3,000
1984	3,000	24,000	3,000
1985	3,000	27,000	3,000
1986	3,000	30,000	3,000
1987	3,000	33,000	3,000
1988	3,000	36,000	1,764
1989	3,000	39,000	2,495

CITY OF BAKERSFIELD
Deliveries to Long Term Contractors

Basic Contract

Year: 1989

Quantities in acre-feet

	NORTH KERN		CAMELO		KERN-TULARE		RAG GULCH		MONTH	
	MSD	WD	MSD	WD	MSD	WD	MSD	WD	TOTALS	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	2,624	2,624	2,220	2,220	2,220	317	317	5,161	5,161
April	0	3,426	6,050	3,145	5,365	5,365	473	790	7,044	12,205
May	0	5,751	11,801	3,428	8,793	8,793	514	1,304	9,693	21,898
June	0	3,224	15,025	81	8,874	8,874	12	1,316	3,317	25,215
July	10,000	10,000	5,400	20,425	1,821	10,695	274	1,590	17,495	42,710
August	10,000	20,000	2,035	22,460	2,317	13,012	347	1,937	14,699	57,409
September	0	20,000	0	22,460	2,454	15,466	368	2,305	2,822	60,231
October	0	20,000	0	22,460	1,169	16,635	190	2,495	1,359	61,590
November	0	20,000	0	22,460	0	16,635	0	2,495	0	61,590
December	0	20,000	0	22,460	0	16,635	0	2,495	0	61,590
Year Total	20,000	20,000	22,460	22,460	16,635	16,635	2,495	2,495	61,590	61,590

City of Bakersfield Diverted to North Kern MSD
(2800 Acre Well Water Purchase) Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	14	0	0	0	0
2	0	0	0	0	63	0	0	12	0	0	0	0
3	0	0	0	0	61	43	11	11	0	0	0	0
4	0	0	0	0	61	53	7	7	0	0	0	0
5	0	0	0	0	69	53	6	6	0	0	0	0
6	0	0	0	0	0	69	52	7	0	0	0	0
7	0	0	0	0	0	67	52	12	0	0	0	0
8	0	0	0	0	0	67	55	4	0	0	0	0
9	0	0	0	0	0	66	51	0	0	0	0	0
10	0	0	0	0	0	33	52	0	0	0	0	0
11	0	0	0	0	0	33	52	10	0	0	0	0
12	0	0	0	0	0	32	0	11	0	0	0	0
13	0	0	0	0	0	0	0	12	0	0	0	0
14	0	0	0	0	0	0	0	14	0	0	0	0
15	0	0	0	0	0	0	0	14	0	0	0	0
16	0	0	0	0	0	0	0	13	0	0	0	0
17	0	0	0	0	0	0	0	13	0	0	0	0
18	0	0	0	0	0	0	0	13	0	0	0	0
19	0	0	0	0	0	0	0	12	0	0	0	0
20	0	0	0	0	0	0	0	14	0	0	0	0
21	0	0	0	0	0	0	7	13	0	0	0	0
22	0	0	0	0	0	0	7	12	0	0	0	0
23	0	0	0	0	0	0	7	13	0	0	0	0
24	0	0	0	0	0	0	7	12	0	0	0	0
25	0	0	0	0	0	0	1	0	0	0	0	0
26	0	0	0	0	0	0	13	0	0	0	0	0
27	0	0	0	0	0	0	15	0	0	0	0	0
28	0	0	0	0	0	0	14	0	0	0	0	0
29	0	0	0	0	0	0	12	0	0	0	0	0
30	0	0	0	0	0	0	14	0	0	0	0	0
31	0	0	0	0	0	0	12	0	0	0	0	0
TOTAL	0	0	0	0	0	621	572	249	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	69	55	14	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	21	18	8	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	1,231	1,134	494	0	0	0	0
WHOLE YEAR:-	TOTAL,	1,442	MAXIMUM,	69	MINIMUM,	0	MEAN,	4	TOTAL AC. FT.,	2,859		

Year: 1989

CAMELO WATER DISTRICT DIVERSION SUMMARY

Quantities in acre-feet

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
+ Camelo WD via Pump Station "B"	359	3,491	4,193	7,086	11,034	12,436	13,147	12,385	6,906	4,508	2,017	2,380	79,942
Lerdo Delivery Gate No. 8-0-10	0	0	4	0	155	442	434	0	0	0	0	0	1,035
Lerdo Delivery Gate No. 8-0-22	0	63	81	87	170	250	184	198	63	30	0	0	1,126
Lerdo Delivery Gate No. 8-0-288	0	0	0	0	0	36	30	0	0	0	0	0	66
Lerdo Delivery Gate No. 8-0-289	0	0	0	44	123	119	24	0	0	0	0	0	310
Lerdo Delivery Gate No. 8-0-291	0	20	68	115	67	95	91	48	36	0	0	0	540
Lerdo Delivery Gate No. 8-0-292	4	12	16	28	36	46	44	16	0	16	0	0	218
+ Total Lerdo Gate Deliveries	4	95	169	274	551	988	807	262	99	46	0	0	3,295
Beardsley Canal Loss	16	56	63	60	61	60	61	61	60	61	60	61	680
Lerdo Loss	4	36	46	76	120	140	143	129	71	46	20	24	855
+ Total Loss	20	92	109	136	181	200	204	190	131	107	80	85	1,535
= Total Diverted for Camelo WD	383	3,678	4,471	7,496	11,766	13,624	14,158	12,837	7,136	4,661	2,097	2,465	84,772
Camelo Water District Source of Supply:													
+ City of Bakersfield Basic Contract	0	0	2,624	3,426	5,751	3,224	5,400	2,035	0	0	0	0	22,460
+ City of Bakersfield Miscellaneous	14	0	0	0	0	0	0	0	0	0	721	1,666	2,401
+ City of Bakersfield Oilfield Discharge	28	147	276	276	281	284	290	289	273	263	287	295	2,989
+ Buena Vista MSD Exchange	0	1,720	508	3,772	2,261	0	475	2,294	663	277	8	22	12,000
+ North Kern MSD Exchange	0	0	0	22	0	0	0	0	77	0	0	0	99
+ Improvement District #4 Exchange	73	0	0	0	0	0	0	0	1,404	92	0	0	1,569
+ Kern-Tulare WD Exchange	0	0	105	0	0	0	0	0	0	0	0	0	105
+ via CVC Conduit "A"	268	1,811	958	0	3,473	10,116	7,993	10,254	4,719	4,029	1,081	482	45,184
- North Kern MSD Exchange	0	0	0	0	0	0	0	2,035	0	0	0	0	2,035
= Total Camelo Water District Supply	383	3,678	4,471	7,496	11,766	13,624	14,158	12,837	7,136	4,661	2,097	2,465	84,772

DISCHARGE IN CUBIC FEET PER SECOND Cameloto Water District Total from Beardslley-Lerdo Canal System Year: 1989

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	49	100	54	163	221	230	225	137	102	38	33
2	0	50	112	52	187	221	220	222	136	103	38	33
3	0	50	92	58	185	230	222	224	137	103	39	33
4	0	49	92	76	185	234	222	215	135	70	38	34
5	0	50	90	86	205	229	238	203	131	71	38	33
6	17	50	79	102	229	225	235	200	115	119	39	33
7	17	37	55	101	224	231	236	210	116	118	33	34
8	17	17	53	102	227	224	238	217	115	118	33	33
9	0	17	70	99	225	236	234	198	134	119	49	33
10	0	33	70	106	221	228	244	197	134	86	48	34
11	0	50	68	107	197	231	237	198	135	94	49	33
12	0	49	68	106	183	228	233	197	134	72	48	33
13	0	51	68	126	180	222	232	197	136	72	49	34
14	7	98	69	170	170	233	231	197	172	64	33	33
15	0	98	73	136	173	226	226	222	172	69	33	49
16	0	65	75	133	151	230	222	217	155	68	34	50
17	0	71	74	149	149	228	221	217	131	85	33	49
18	0	68	75	151	219	225	225	225	109	85	33	50
19	0	66	72	149	168	217	235	225	104	85	34	49
20	0	66	73	169	216	229	236	200	71	85	33	50
21	0	67	51	169	213	233	236	223	70	84	33	49
22	0	87	71	169	221	227	234	200	71	85	34	50
23	0	101	68	172	203	243	223	199	102	85	33	49
24	0	104	88	175	222	228	232	217	102	88	33	50
25	0	104	67	131	219	222	229	225	102	38	17	49
26	0	102	68	128	167	232	228	220	102	39	18	50
27	0	102	74	160	155	232	235	185	102	39	17	49
28	17	103	75	160	152	239	236	220	118	38	33	34
29	17	-	54	160	149	241	230	217	118	38	33	33
30	51	-	55	157	219	230	223	185	102	39	34	33
31	50	-	55	-	222	-	215	175	-	39	-	34
TOTAL	193	1,854	2,254	3,779	5,932	6,869	7,138	6,472	3,598	2,350	1,057	1,243
MAXIMUM DAY	51	104	112	175	229	243	244	225	172	119	50	50
MINIMUM DAY	0	17	51	52	149	217	215	175	70	38	17	33
MEAN	6	66	73	126	191	229	230	209	120	76	35	40
TOTAL AC. FT.	383	3,678	4,471	7,496	11,766	13,624	14,158	12,837	7,136	4,661	2,097	2,465
WHOLE YEAR:-	TOTAL,	42,739	MAXIMUM,	244	MINIMUM,	0	MEAN,	117	TOTAL AC. FT.,	84,772		

City of Bakersfield Diverted to Camelo Water District
(Basic Contract) Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	44	49	131	48	95	0	0	0	0	0
2	0	0	44	47	138	46	85	0	0	0	0	0
3	0	0	38	35	130	54	87	0	0	0	0	0
4	0	0	37	15	124	58	87	0	0	0	0	0
5	0	0	35	12	123	53	103	0	0	0	0	0
6	0	0	32	22	121	49	100	0	0	0	0	0
7	0	0	7	28	72	56	101	0	0	0	0	0
8	0	0	44	11	57	50	104	0	0	0	0	0
9	0	0	44	5	0	62	100	0	0	0	0	0
10	0	0	44	13	83	54	109	0	0	0	0	0
11	0	0	44	4	117	56	102	0	0	0	0	0
12	0	0	44	4	178	53	98	0	0	0	0	0
13	0	0	44	26	175	47	97	0	0	0	0	0
14	0	0	44	36	160	59	96	0	0	0	0	0
15	0	0	44	35	158	51	91	0	0	0	0	0
16	0	0	44	32	127	55	87	0	0	0	0	0
17	0	0	44	49	114	53	86	0	0	0	0	0
18	0	0	44	86	130	44	90	0	0	0	0	0
19	0	0	44	99	113	42	101	0	0	0	0	0
20	0	0	44	124	82	54	102	0	0	0	0	0
21	0	0	44	94	81	60	101	0	0	0	0	0
22	0	0	44	67	82	52	100	0	0	0	0	0
23	0	0	44	77	54	68	89	0	0	0	0	0
24	0	0	61	72	94	53	97	0	0	0	0	0
25	0	0	39	39	67	48	94	0	0	0	0	0
26	0	0	40	81	81	58	94	0	0	0	0	0
27	0	0	70	130	64	58	73	0	0	0	0	0
28	0	0	72	133	43	64	40	0	0	0	0	0
29	0	0	50	151	0	66	40	0	0	0	0	0
30	0	0	26	151	0	55	40	0	0	0	0	0
31	0	0	24	-	0	-	34	0	0	0	0	0
TOTAL	0	0	1,323	1,727	2,899	1,626	2,723	1	1,026	0	0	0
MAXIMUM DAY	0	0	72	151	178	68	109	0	0	0	0	0
MINIMUM DAY	0	0	7	4	0	42	34	0	0	0	0	0
MEAN	0	0	43	58	94	54	88	0	0	0	0	0
TOTAL AC. FT.	0	0	2,624	3,426	5,751	3,224	5,400	1	2,035	0	0	0
WHOLE YEAR:-	TOTAL,	11,324	MAXIMUM,	178	MINIMUM,	0	MEAN,	31	TOTAL AC. FT.,	22,460		

NOTE: 1) Reflects delivery of Camelo WD Basic Contract into North Kern WSD Isabella storage (CMD/NKMSD exchange agreement dated 8/24/89)

City of Bakersfield Diverted to Camelo Water District
(Miscellaneous) Year: 1989

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	29
2	0	0	0	0	0	0	0	0	0	0	0	29
3	0	0	0	0	0	0	0	0	0	0	0	28
4	0	0	0	0	0	0	0	0	0	0	0	29
5	0	0	0	0	0	0	0	0	0	0	0	29
6	0	0	0	0	0	0	0	0	0	0	0	28
7	0	0	0	0	0	0	0	0	0	0	0	29
8	0	0	0	0	0	0	0	0	0	0	0	29
9	0	0	0	0	0	0	0	0	0	0	0	28
10	0	0	0	0	0	0	0	0	0	0	0	29
11	0	0	0	0	0	0	0	0	0	0	0	28
12	0	0	0	0	0	0	0	0	0	0	0	28
13	0	0	0	0	0	0	0	0	0	0	0	29
14	7	0	0	0	0	0	0	0	0	0	0	30
15	0	0	0	0	0	0	0	0	0	0	7	32
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	28	0
18	0	0	0	0	0	0	0	0	0	0	28	0
19	0	0	0	0	0	0	0	0	0	0	30	0
20	0	0	0	0	0	0	0	0	0	0	28	2
21	0	0	0	0	0	0	0	0	0	0	28	44
22	0	0	0	0	0	0	0	0	0	0	29	42
23	0	0	0	0	0	0	0	0	0	0	28	41
24	0	0	0	0	0	0	0	0	0	0	28	42
25	0	0	0	0	0	0	0	0	0	0	12	42
26	0	0	0	0	0	0	0	0	0	0	13	43
27	0	0	0	0	0	0	0	0	0	0	12	41
28	0	0	0	0	0	0	0	0	0	0	28	27
29	0	-	0	0	0	0	0	0	0	0	28	27
30	0	-	0	0	0	0	0	0	0	0	29	27
31	0	-	0	-	0	-	0	0	-	0	-	28
TOTAL	7	0	0	0	0	0	0	0	0	0	363	840
MAXIMUM DAY	7	0	0	0	0	0	0	0	0	0	30	44
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	12	27
TOTAL AC.FT.	14	0	0	0	0	0	0	0	0	0	721	1,666
WOLE YEAR:-	TOTAL,	1,210	MAXIMUM,	44	MINIMUM,	0	MEAN,	3	TOTAL AC.FT.,	2,401		

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

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	4	5	4	3	5	5	3	4	5	4
2	0	0	4	5	5	5	5	5	4	4	4	4
3	0	0	7	5	5	6	5	4	4	4	5	5
4	0	0	8	5	5	6	5	4	5	5	5	5
5	0	0	8	4	4	6	5	5	5	5	5	4
6	4	0	7	5	5	6	5	5	4	5	5	5
7	5	0	8	5	6	5	5	4	2	5	3	5
8	5	2	6	5	6	4	4	5	2	5	5	4
9	0	3	4	5	5	4	4	5	2	3	5	5
10	0	4	4	5	5	4	5	4	2	5	5	5
11	0	4	4	4	5	5	5	4	2	5	5	5
12	0	4	4	4	5	5	5	5	3	4	4	5
13	0	4	4	4	5	5	5	5	2	4	5	5
14	0	4	4	4	5	4	5	5	7	4	5	3
15	0	4	4	4	6	5	5	4	8	4	5	6
16	0	4	4	4	6	5	5	4	4	4	5	0
17	0	4	4	4	5	5	5	5	4	4	5	0
18	0	4	4	4	5	5	5	4	3	4	5	0
19	0	4	4	4	5	5	5	4	2	4	4	0
20	0	4	4	4	5	5	5	4	5	4	5	3
21	0	4	4	4	4	3	5	5	7	4	5	5
22	0	4	3	4	4	5	4	5	8	4	5	8
23	0	4	3	4	4	5	4	5	12	4	5	8
24	0	2	3	3	4	5	5	5	11	4	5	8
25	0	2	4	4	5	4	5	5	8	4	5	7
26	0	2	4	4	4	4	4	5	6	4	5	7
27	0	3	4	4	4	4	4	5	3	4	5	8
28	0	4	3	4	4	5	4	5	3	4	5	7
29	0	-	4	3	5	5	5	4	3	5	5	6
30	0	-	3	4	5	5	5	5	4	5	5	6
31	0	-	4	-	5	-	5	5	-	5	-	6
TOTAL	14	74	139	139	142	143	146	145	138	133	145	149
MAXIMUM DAY	5	4	8	6	6	6	6	5	12	5	5	8
MINIMUM DAY	0	0	3	3	4	3	4	4	2	3	3	0
MEAN	0	3	4	5	5	5	5	5	5	4	5	5
TOTAL AC. FT.	28	147	276	276	281	284	290	289	273	263	287	295
WHOLE YEAR:-	TOTAL,	1,507	MAXIMUM,	12	MINIMUM,	0	MEAN,	4	TOTAL AC. FT.,	2,989		

Year: 1989

Buena Vista WSD Diverted to Camelo HD

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	5	0	28	0	0	54	13	52	0	0
2	0	0	17	0	44	0	0	47	27	7	1	0
3	0	0	0	18	50	0	0	50	17	1	0	0
4	0	0	0	56	56	0	0	41	34	0	0	0
5	0	0	0	70	66	0	0	28	25	3	0	0
6	0	50	0	75	63	0	0	25	1	0	0	0
7	0	37	0	68	50	0	0	36	1	0	2	0
8	0	15	3	86	68	0	0	48	4	0	0	0
9	0	14	22	89	65	0	0	47	9	0	0	0
10	0	29	22	88	37	0	0	23	11	0	0	0
11	0	46	20	98	12	0	0	24	13	0	0	0
12	0	45	20	97	0	0	0	22	11	4	1	0
13	0	47	20	95	0	0	0	22	18	5	0	0
14	0	94	21	95	5	0	0	22	52	8	0	0
15	0	94	25	95	11	0	0	48	48	12	0	11
16	0	61	27	95	20	0	0	54	20	13	0	0
17	0	67	2	95	31	0	0	53	17	16	0	0
18	0	64	3	60	18	0	0	62	13	19	0	0
19	0	62	0	45	17	0	0	62	0	0	0	0
20	0	62	1	40	38	0	0	36	0	0	0	0
21	0	63	3	71	51	0	0	59	0	0	0	0
22	0	12	24	98	23	0	0	25	0	0	0	0
23	0	0	21	91	2	0	0	24	0	0	0	0
24	0	0	0	100	38	0	0	42	0	0	0	0
25	0	2	0	88	76	0	0	50	0	0	0	0
26	0	2	0	43	21	0	0	45	0	0	0	0
27	0	1	0	22	1	0	28	10	0	0	0	0
28	0	0	0	17	18	0	62	45	0	0	0	0
29	0	-	0	5	72	0	55	43	0	0	0	0
30	0	-	0	2	72	0	48	10	0	0	0	0
31	0	-	0	-	87	-	46	0	-	0	-	0
TOTAL	0	867	256	1,902	1,140	0	239	1,157	334	140	4	11
MAXIMUM DAY	0	94	27	100	87	0	62	62	52	52	2	11
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	31	8	63	37	0	8	37	11	5	0	0
TOTAL AC. FT.	0	1,720	508	3,772	2,261	0	475	2,294	663	277	8	22
WHOLE YEAR:-	TOTAL	6,050	MAXIMUM	100	MINIMUM	0	MEAN	17	TOTAL AC. FT.	12,000		

Total Diverted via
Cross Valley Canal Conduit "A"

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	49	47	0	50	170	170	166	170	0	33	0
2	0	50	47	0	50	170	170	170	170	120	33	0
3	0	50	47	0	72	170	170	170	170	130	34	0
4	0	49	47	0	72	170	170	170	170	97	33	0
5	0	50	47	0	96	170	170	170	170	122	33	0
6	0	0	40	0	96	170	170	170	161	166	34	0
7	0	0	40	0	96	170	170	170	170	170	28	0
8	0	0	0	0	96	170	170	164	170	170	28	0
9	0	0	0	0	170	170	170	146	170	170	44	0
10	0	0	0	0	170	170	170	170	170	170	43	0
11	0	0	0	0	136	170	170	170	170	170	44	0
12	0	0	0	0	0	170	170	170	170	170	43	0
13	0	0	0	0	0	170	170	170	170	170	44	0
14	0	0	0	0	0	170	170	170	170	170	28	0
15	0	0	0	0	0	170	170	170	170	170	21	0
16	0	0	0	0	0	170	170	159	170	170	22	50
17	0	0	24	0	0	170	170	159	148	170	0	49
18	0	0	24	0	0	170	170	159	125	170	0	50
19	0	0	24	0	34	170	170	159	170	170	0	49
20	0	0	24	0	115	170	170	159	140	170	0	45
21	0	0	0	0	107	170	170	159	100	124	0	0
22	0	71	0	0	115	170	170	170	24	124	0	0
23	0	113	0	0	170	170	170	170	100	124	0	0
24	0	110	24	0	141	170	170	170	0	74	0	0
25	0	100	24	0	170	170	170	170	0	34	0	0
26	0	98	24	0	170	170	170	170	0	92	0	0
27	0	98	0	50	170	170	170	170	0	92	0	0
28	17	99	0	50	170	170	170	170	0	92	0	0
29	17	-	0	50	170	170	170	170	0	92	0	0
30	51	-	0	50	170	170	170	170	0	34	0	0
31	50	-	0	-	170	-	164	170	-	34	-	0
TOTAL	135	937	483	200	2,976	5,100	5,264	5,170	3,518	3,931	545	243
MAXIMUM DAY	51	113	47	50	170	170	170	170	170	170	44	50
MINIMUM DAY	0	0	0	0	0	170	164	146	0	0	0	0
MEAN	4	33	16	7	96	170	170	167	117	127	18	8
TOTAL AC. FT.	268	1,859	958	397	5,903	10,116	10,441	10,254	6,978	7,797	1,081	482
WHOLE YEAR:-	TOTAL,	28,502	MAXIMUM,	170	MINIMUM,	0	MEAN,	78	TOTAL AC. FT.,	56,534		

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

Year: 1989

Quantities in acre-feet

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
+ Total Basic Contract Diverted	+ 0	0	2,537	3,618	3,942	93	2,095	2,664	2,822	1,359	0	0	19,130
Kern-Tulare Water District	- 0	0	2,220	3,145	3,428	81	1,821	2,317	2,454	1,169	0	0	16,635
Rag Gulch Water District	= 0	0	317	473	514	12	274	347	368	190	0	0	2,495
+ Total Misc. Quantity Diverted	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Kern-Tulare Water District	- 0	0	0	0	0	0	0	0	0	0	0	0	0
Rag Gulch Water District	= 0	0	0	0	0	0	0	0	0	0	0	0	0
= Total Diverted	0	0	2,537	3,618	3,942	93	2,095	2,664	2,822	1,359	0	0	19,130
via Calloway Canal	+ 0	0	1,719	2,390	2,837	87	1,290	2,043	688	893	0	0	11,947
River Transportation Loss/Spreading	+ 0	0	683	752	889	6	805	621	724	372	0	0	4,852
Carrier Canal Recharge	+ 0	0	30	476	216	0	0	0	0	0	0	0	722
via Kern Delta Water District	+ 0	0	0	0	0	0	0	0	6	2	0	0	8
via Camelo Water District	+ 0	0	0	0	0	0	0	0	1,404	92	0	0	1,496
- Total Diverted to I.D. #4	= 0	0	2,432	3,618	3,942	93	2,095	2,664	2,822	1,359	0	0	19,025
Kern-Tulare Water District	- 0	0	2,115	3,145	3,428	81	1,821	2,317	2,454	1,169	0	0	16,530
Rag Gulch Water District	= 0	0	317	473	514	12	274	347	368	190	0	0	2,495
via Arvin-Edison Turnout	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Canal Transportation Loss	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
- Total Diverted to Arvin-Edison T.O.	= 0	0	0	0	0	0	0	0	0	0	0	0	0
Kern-Tulare Water District	- 0	0	0	0	0	0	0	0	0	0	0	0	0
Rag Gulch Water District	= 0	0	0	0	0	0	0	0	0	0	0	0	0
= Via Camelo Water District	+ 0	0	105	105	0	0	0	0	0	0	0	0	105
Kern-Tulare Water District	- 0	0	105	0	0	0	0	0	0	0	0	0	105
Rag Gulch Water District	= 0	0	0	0	0	0	0	0	0	0	0	0	0

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

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	31	44	54	29	0	56	3	106	0	0
2	0	0	59	40	46	12	0	64	3	52	0	0
3	0	0	4	50	37	0	0	64	14	62	0	0
4	0	0	16	51	53	0	0	70	6	60	0	0
5	0	0	26	50	78	0	0	69	10	43	0	0
6	0	0	30	58	77	0	0	56	8	41	0	0
7	0	0	20	47	71	0	10	61	3	51	0	0
8	0	0	33	51	63	0	102	36	4	49	0	0
9	0	0	49	63	55	0	82	96	6	41	0	0
10	0	0	54	51	34	0	7	72	12	43	0	0
11	0	0	40	69	27	0	0	82	7	40	0	0
12	0	0	45	51	40	0	0	76	11	0	0	0
13	0	0	28	46	45	0	0	58	3	0	0	0
14	0	0	23	50	62	0	0	60	10	0	0	0
15	0	0	43	55	66	0	0	62	6	0	0	0
16	0	0	50	54	61	0	0	49	3	0	0	0
17	0	0	61	60	66	0	0	3	10	0	0	0
18	0	0	30	47	61	0	0	13	0	0	0	0
19	0	0	17	57	56	0	0	0	15	0	0	0
20	0	0	50	46	69	0	0	4	7	0	0	0
21	0	0	28	53	59	0	28	15	3	0	0	0
22	0	0	41	51	43	0	66	9	7	0	0	0
23	0	0	60	54	80	0	68	30	58	0	0	0
24	0	0	54	63	37	0	68	4	123	0	0	0
25	0	0	33	50	37	0	63	25	156	0	0	0
26	0	0	12	49	47	0	65	12	146	0	0	0
27	0	0	5	50	66	0	70	8	154	0	0	0
28	0	0	18	62	72	0	69	13	161	1	0	0
29	0	0	30	58	69	0	77	4	136	0	0	0
30	0	0	43	55	49	0	76	4	139	0	0	0
31	0	0	33	-	48	-	67	6	-	0	-	0
TOTAL	0	0	1,066	1,585	1,728	41	918	1,168	1,237	589	0	0
MAXIMUM DAY	0	0	61	69	80	29	102	96	161	106	0	0
MINIMUM DAY	0	0	4	40	27	0	0	0	3	0	0	0
MEAN	0	0	34	53	56	1	30	38	41	19	0	0
TOTAL AC. FT.	0	0	2,115	3,145	3,428	81	1,821	2,317	2,454	1,169	0	0
WHOLE YEAR:-	TOTAL,	8,332	MAXIMUM,	161	MINIMUM,	0	MEAN,	23	TOTAL AC. FT.,	16,530		

City of Bakersfield Diverted for Kern-Tulare MD
(Kern-Tulare MD/Cawelo MD Exchange)
(Basic Contract)

Year: 1989

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	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
30	0	-	26	0	0	0	0	0	0	0	0	0
31	0	-	27	-	0	-	0	0	-	0	-	0
TOTAL	0	0	53	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	27	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	2	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	0	105	0	0	0	0	0	0	0	0	0
WHOLE YEAR:--	TOTAL,	53	MAXIMUM,	27	MINIMUM,	0	MEAN,	0	TOTAL AC. FT.,	105		

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

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	5	7	8	4	0	8	0	17	0	0
2	0	0	9	6	7	2	0	10	0	9	0	0
3	0	0	1	8	5	0	0	10	2	10	0	0
4	0	0	2	8	8	0	0	10	1	10	0	0
5	0	0	4	7	12	0	0	10	1	7	0	0
6	0	0	4	9	12	0	0	8	1	7	0	0
7	0	0	3	7	11	0	1	9	0	8	0	0
8	0	0	5	8	10	0	16	5	1	8	0	0
9	0	0	7	10	8	0	13	14	1	7	0	0
10	0	0	8	8	5	0	1	11	2	7	0	0
11	0	0	6	10	4	0	0	12	1	6	0	0
12	0	0	7	8	6	0	0	11	2	0	0	0
13	0	0	4	7	7	0	0	9	1	0	0	0
14	0	0	3	8	9	0	0	9	1	0	0	0
15	0	0	6	8	10	0	0	9	1	0	0	0
16	0	0	8	8	9	0	0	7	1	0	0	0
17	0	0	9	9	10	0	0	0	2	0	0	0
18	0	0	4	7	9	0	0	0	2	0	0	0
19	0	0	3	9	8	0	0	0	2	0	0	0
20	0	0	8	7	10	0	0	1	1	0	0	0
21	0	0	4	8	9	0	4	2	0	0	0	0
22	0	0	6	8	6	0	10	1	1	0	0	0
23	0	0	9	8	12	0	10	5	9	0	0	0
24	0	0	8	9	6	0	10	1	18	0	0	0
25	0	0	5	7	6	0	9	4	23	0	0	0
26	0	0	2	7	7	0	10	2	23	0	0	0
27	0	0	1	7	10	0	12	1	23	0	0	0
28	0	0	3	9	11	0	10	3	25	0	0	0
29	0	-	4	9	10	0	11	1	20	0	0	0
30	0	-	7	8	7	0	11	1	21	0	0	0
31	0	-	5	-	7	-	10	1	-	0	-	0
TOTAL	0	0	160	239	259	6	138	175	186	96	0	0
MAXIMUM DAY	0	0	9	10	12	4	16	14	25	17	0	0
MINIMUM DAY	0	0	1	6	4	0	0	0	0	0	0	0
MEAN	0	0	5	8	8	0	4	6	6	3	0	0
TOTAL AC.FT.	0	0	317	473	514	12	274	347	368	190	0	0
WHOLE YEAR:-	TOTAL,	1,259	MAXIMUM,	25	MINIMUM,	0	MEAN,	3	TOTAL AC.FT.,	2,495		

Total Flow via the Rosedale Channel at Head (All Sources)
(Diverted from Kern River Channel) Year: 1989

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	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	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC.FT.	0	0	0	0	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	0	MAXIMUM,	0	MINIMUM,	0	MEAN,	0	TOTAL AC.FT.,	0		0

Year: 1989

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT
Hydrographic and Accounting Report by City of Bakersfield

Quantities in acre-feet

	1	2	3	4	5	6	7	8	9	10
	(a)	(b)	(c)	(d)	(e)	(f)	(g)		(h)	
	Friant-Kern Inflow	Friant-Kern Delivered	River Canal Transportation Charge on Column 2	Basic Contract	Miscellaneous	Mandatory Release Delivered	Other			
				No Charge (1st 4000)	acre-feet Sold at \$1.00	acre-feet Sold at \$6.00	acre-feet Sold at \$21.00			
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	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	4,500	0	0	0	0
Total	0	0	0	0	0	4,500	0	0	0	0

3,491 = Current Escalator = 3,491
 \$0.00 = Totals = \$0.00
 (per 1961 Agreement)

1988
1987
1986
1985
Preceding Four Years

Five Year Totals
Five Year Averages
Current Escalator
Current Price per acre-foot
Five Year Average Sales

7,845
6,000
56,530
20,694
95,629
19,126

\$0.00

Notes : (a) As charged RRBMSD by U.S.B.R.
 (b) Column 1 less transportation losses.
 (c) \$0.10 per acre-foot escalated annually (31.6 = 1-82 base index).
 (d) \$1.00 per acre-foot escalated annually (31.6 = 1-82 base index) after the first 4,000 Aft of each successive 10,000 acre-feet delivered.
 (e) Subject to annual escalation per 1976 agreement (62.8 = 1-82 base index).
 (f) Delivered during periods of Kern River Mandatory Release when designated by U.S. Army Corps of Engineers.
 (g) Delivered pursuant to RRBMSD/ID #4/City of Bakersfield November 10, 1989 Exchange Agreement.

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	(2)	END of YEAR
				BASIC CONTRACT DELIVERED	BASIC CONTRACT OBLIGATION	CARRY FORWARD OVER (UNDER)	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)

(1) Not less than 5,000 acre-feet for any consecutive 5-Year period.

(2) Limit 30,000 acre-feet during any One year.

(3) Gross limit of 60,000 acre-feet.

(4) Pursuant to Article 3.2 of 1976 Agreement No. 76-80; City of Bakersfield carryover credit was 60,000 acre-feet as of January 1, 1976.

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

Quantities in acre-feet

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

Year: 1989

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
City Entitlement + or - Release	1,127	964	24,287	21,986	19,638	15,574	1,778	0	238	980	1,190	674	88,436
Lake Ming	16	16	44	60	77	105	127	121	91	65	42	26	790
North Kern Water Storage District	0	0	0	0	0	0	10,000	10,000	0	0	0	0	20,000
Cawelo Water District	0	0	2,624	3,426	5,751	3,224	5,400	2,035	0	0	0	0	22,460
Kern-Tulare Water District	0	0	2,220	3,145	3,428	81	1,821	2,317	2,454	1,169	0	0	16,635
Rag Gulch Water District	0	0	317	473	514	12	274	347	368	190	0	0	2,495
Rosedale Rio Bravo WSD	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Canal & Irrigating Co.	0	95	1,243	4	43	2,091	2,160	1,859	710	1,108	625	377	10,315
First Point Passing Second Point	0	0	0	0	0	0	0	0	0	0	0	0	0
Isabella Reservoir Loss	23	26	268	713	1,119	1,695	1,726	587	274	70	52	27	6,580
River Transportation Loss	97	93	200	642	909	1,239	1,406	733	1	2	2	(11)	5,323
Total Basic Commitments	136	230	6,916	8,463	11,841	8,447	22,914	17,999	3,898	2,604	721	429	84,598

Total City Miscellaneous Water..... 3,838

Rosedale Rio Bravo WSD 1/3 Share..... 1,279

Misc. Water Delivered to ARBMSD	0	0	0	0	0	0	0	0	0	0	0	0	4,500
Del. under Art. 11, Sec. 2.1 (1)(7)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Misc. Delivered to ARBMSD	0	4,500											

Over (Under) City Miscellaneous Water Obligation..... 3,221

Prior Year Miscellaneous Water Delivery Balance..... (18,095)

Cumulative Miscellaneous Water Delivery Balance..... (14,874)

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

	(A)	(B)	(C)	(D)	(E)
	TOTAL CITY	RRBWD	MISC. WATER	OVER	END of YEAR
	MISCELLANEOUS	1/3 SHARE	DELIVERED	(UNDER)	CUMULATIVE
Year	WATER	OF MISC.	TO RRBWD (1)	1/3 SHARE	MISC. WATER
					BALANCE
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)

Notes:

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

KERN RIVER CANAL & IRRIGATING COMPANY
CITY OF BAKERSFIELD

Quantities in acre-feet

Year: 1989

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+ 0	0	187	2,370	872	0	0	0	0	0	0	0	3,429
Release	+ or - 0	0	0	0	0	0	0	0	0	0	0	0	0
ENTITLEMENT + OR - RELEASE	= 0	0	187	2,370	872	0	0	0	0	0	0	0	3,429
Oilfield Discharge	+ 106	0	0	0	0	0	0	0	0	0	0	0	112
Other	+ or - 67	95	1,243	4	43	2,091	2,160	1,859	710	1,108	625	377	10,382
Into Isabella Storage	- 0	0	0	679	323	0	0	0	0	0	0	0	1,002
From Isabella Storage	+ 0	0	0	262	720	0	0	0	0	0	0	0	982
To NKWSD in Isabella Storage	- 0	0	0	0	0	0	0	0	0	0	0	0	0
DIVERGED AT HEAD	= 173	95	1,430	1,957	1,312	2,091	2,160	1,859	710	1,108	625	383	13,903
Irrigation Deliveries	- 0	67	1,205	1,098	891	1,866	1,917	1,614	562	965	498	298	11,001
NKWSD at Seventh Standard Ln.	- 0	0	56	711	283	0	0	0	0	0	0	0	1,050
Spreading Deliveries	- 157	0	0	0	0	0	0	0	0	0	0	0	157
Canal Loss	= 16	28	169	148	138	225	243	245	128	143	127	85	1,595
IRRIGATION DELIVERY PERCENTAGE	0%	71%	88%	92%	89%	89%	89%	87%	82%	87%	80%	78%	87%
Into Isabella Storage	0	0	0	679	323	0	0	0	0	0	0	0	1,002
Isabella Evaporation Loss	0	0	0	8	12	0	0	0	0	0	0	0	20
From Isabella Storage	0	0	0	262	720	0	0	0	0	0	0	0	982
Transfer in Storage	0	0	0	0	0	0	0	0	0	0	0	0	0
End of Month Isabella Storage	0	0	0	409	0	0	0	0	0	0	0	0	0

SOUTH FORK DIVERSION RIGHT SUMMARY

Quantities in acre-feet

Year: 1989

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	0	405	111	236	186	81	0	0	0	0	0	0	1,019
Release	111	(216)	0	(21)	(67)	0	0	0	0	240	44	87	178
Entitlement + or - Releases	111	189	111	215	119	81	0	0	0	240	44	87	1,197
Into Isabella Storage	79	189	28	171	78	16	0	0	0	234	44	87	926
From Isabella Storage	0	0	159	0	42	197	268	166	12	18	0	0	862
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	32	0	242	44	83	262	268	166	12	24	0	0	1,133
Old South Fork	0	0	0	0	0	0	0	0	0	0	0	0	0
Panama Ranch	32	0	242	44	83	262	268	166	12	24	0	0	1,133
Into Isabella Storage	79	189	28	171	78	16	0	0	0	234	44	87	926
From Isabella Storage	0	0	159	0	42	197	268	166	12	18	0	0	862
Transfer in Storage	0	0	0	0	0	0	0	0	0	0	0	0	0
End of Month Isabella Storage	588	777	646	817	853	672	404	238	226	442	486	573	

CITY OF BAKERSFIELD
 RECAPITULATION OF WATER SPREADING BY SOURCE
 2,800 ACRE RECHARGE FACILITY

Quantities in acre-feet

Calendar Year	BANKING				OVERDRAFT CORRECTION				Grand Total		
	Kern River	Friant-Kern	State Water Project	Other	Totals	Kern River	Friant-Kern	State Water Project		Other	Totals
1977	0	0	0	0	0	0	0	0	0	0	0
1978	134,971	0	0	0	134,971	0	0	0	0	0	134,971
1979	4,505	9,913	0	0	14,418	6,089	888	52,099	0	59,076	73,494
1980	113,379	0	8,029	0	121,408	0	0	0	0	0	121,408
1981	2,603	0	49,377	0	51,980	0	0	7,141	0	7,141	59,121
1982	50,242	18,057	8,345	0	76,644	2,649	6,835	12,748	0	22,232	98,876
1983	110,970	2,239	171	0	113,380	0	0	0	0	0	113,380
1984	14,449	1,609	0	0	16,058	0	0	0	0	0	16,058
1985	331	71	15,055	0	15,457	0	0	0	0	0	15,457
1986	93,311	36,792	22,766	262	153,131	0	0	0	0	0	153,131
1987	77	0	7,379	32	7,488	0	0	0	0	0	7,488
1988	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0
TOTALS	524,838	68,681	111,122	294	704,935	8,738	7,723	71,988	0	88,449	793,384

CITY OF BAKERSFIELD
 RECAPITULATION OF WATER SPREADING BY ENTITY
 2,800 ACRE RECHARGE FACILITY
 (Does not reflect water extracted or sold)

Quantities in acre-feet

Calendar Year	City of Bakersfield	BANKING ENTITIES			Total Banking	Overdraft Correction	Grand Total
		Olcese/Hacienda M.D.	Buena Vista M.S.D.	K.C.H.A.			
1977	0	0	0	0	0	0	
1978	104,587	24,328	6,056	0	134,971	134,971	
1979	4,505	0	9,913	0	14,418	73,494	
1980	68,804	52,604	0	0	121,408	121,408	
1981	2,603	4,465	0	44,912	51,980	59,121	
1982	37,913	14,266	24,465	0	76,644	98,876	
1983	113,380	0	0	0	113,380	113,380	
1984	16,058	0	0	0	16,058	16,058	
1985	402	0	0	15,055	15,457	15,457	
1986	64,168	56,197	10,000	22,766	153,131	153,131	
1987	109	0	0	7,379	7,488	7,488	
1988	0	0	0	0	0	0	
1989	0	0	0	0	0	0	
TOTALS	412,529	151,860	50,434	90,112	704,935	88,449	
						793,384	

City of Bakersfield
 Water Extractions from 2800 Acre Recharge Facility
 (Kern River Banked Supply -- Conveyed via Kern River Canal)

Year: 1989

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	14	0	0	0	0
2	0	0	0	0	0	0	0	12	0	0	0	0
3	0	0	0	0	0	0	43	11	0	0	0	0
4	0	0	0	0	37	53	53	7	0	0	0	0
5	0	0	0	0	69	53	53	6	0	0	0	0
6	0	0	0	0	0	69	52	7	0	0	0	0
7	0	0	0	0	0	67	52	12	0	0	0	0
8	0	0	0	0	0	67	55	4	0	0	0	0
9	0	0	0	0	0	66	51	0	0	0	0	0
10	0	0	0	0	0	33	52	0	0	0	0	0
11	0	0	0	0	0	33	52	10	0	0	0	0
12	0	0	0	0	0	32	0	11	0	0	0	0
13	0	0	0	0	0	0	0	12	0	0	0	0
14	0	0	0	0	0	0	0	14	0	0	0	0
15	0	0	0	0	0	0	0	14	0	0	0	0
16	0	0	0	0	0	0	0	13	0	0	0	0
17	0	0	0	0	0	0	0	13	0	0	0	0
18	0	0	0	0	0	0	0	13	0	0	0	0
19	0	0	0	0	0	0	0	12	0	0	0	0
20	0	0	0	0	0	0	0	14	0	0	0	0
21	0	0	0	0	0	0	7	13	0	0	0	0
22	0	0	0	0	0	0	7	12	0	0	0	0
23	0	0	0	0	0	0	7	13	0	0	0	0
24	0	0	0	0	0	0	7	12	0	0	0	0
25	0	0	0	0	0	0	1	0	0	0	0	0
26	0	0	0	0	0	0	13	0	0	0	0	0
27	0	0	0	0	0	0	15	0	0	0	0	0
28	0	0	0	0	0	0	14	0	0	0	0	0
29	0	-	0	0	0	0	12	0	0	0	0	0
30	0	-	0	0	0	0	14	0	0	0	0	0
31	0	-	0	-	0	-	12	0	-	0	-	0
TOTAL	0	0	0	0	0	473	572	249	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	69	55	14	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	16	18	8	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	937	1,134	494	0	0	0	0
WHOLE YEAR:-	TOTAL,	1,294	MAXIMUM,	69	MINIMUM,	0	MEAN,	4	TOTAL AC. FT.,	2,565		

City of Bakersfield
 Water Extractions from 2800 Acre Recharge Facility
 (Other Supply — Conveyed via Kern River Canal)

Year: 1989

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	63	0	0	0	0	0	0
3	0	0	0	0	0	61	0	0	0	0	0	0
4	0	0	0	0	0	24	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	148	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	63	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	51	0	0	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	294	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	148	MAXIMUM,	63	MINIMUM,	0	MEAN,	0	TOTAL AC. FT.,	294		

Olcese/Hacienda Water District
 Water Extractions from 2800 Acre Recharge Facility
 (Kern River Banked Supply -- Conveyed via Kern River Canal)

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DATE												
1	0	0	31	0	0	0	0	0	0	0	0	0
2	0	0	31	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	29	0	0	0	0	0	0	0	0	0	0
6	0	20	0	0	0	0	0	0	0	0	0	0
7	0	14	0	0	0	0	0	0	0	0	0	0
8	0	18	0	0	0	0	0	0	0	0	0	0
9	0	3	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	20	0	0	0	0	0	0	0	0	0	0
19	0	30	0	0	0	0	0	0	0	0	0	0
20	0	25	0	0	0	0	0	0	0	0	0	0
21	0	25	0	0	0	0	0	0	0	0	0	0
22	0	26	0	0	0	0	0	0	0	0	0	0
23	0	28	0	0	0	0	0	0	0	0	0	0
24	0	25	0	0	0	0	0	0	0	0	0	0
25	0	24	0	0	0	0	0	0	0	0	0	0
26	0	31	0	0	0	0	0	0	0	0	0	0
27	0	30	0	0	0	0	0	0	0	0	0	0
28	0	30	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	378	62	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	31	31	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	14	2	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	750	123	0	0	0	0	0	0	0	0	0
WHOLE YEAR:--	TOTAL,	440	MAXIMUM,	31	MINIMUM,	0	MEAN,	1	TOTAL AC. FT.,	873		

Buena Vista Water Storage District
 Water Extractions from 2800 Acre Recharge Facility
 (Kern River Banked Supply -- Conveyed via Kern River Canal)

Year: 1989

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	49	0	0	0	0
2	0	0	0	0	0	0	0	52	0	0	0	0
3	0	0	0	0	0	0	0	52	0	0	0	0
4	0	0	0	0	0	0	0	53	0	0	0	0
5	0	0	0	0	0	0	0	49	0	0	0	0
6	0	0	0	0	0	0	0	53	0	0	0	0
7	0	0	0	0	0	0	0	53	0	0	0	0
8	0	0	0	0	0	0	0	20	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	34	0	0	0	0
12	0	0	0	0	0	0	0	45	0	0	0	0
13	0	0	0	0	0	0	0	52	0	0	0	0
14	0	0	0	0	0	0	0	51	0	0	0	0
15	0	0	0	0	0	0	0	51	0	0	0	0
16	0	0	0	0	0	0	0	53	0	0	0	0
17	0	0	0	0	0	0	0	50	0	0	0	0
18	0	0	0	0	0	0	0	52	0	0	0	0
19	0	0	0	0	0	0	0	49	0	0	0	0
20	0	0	0	0	0	0	0	53	0	0	0	0
21	0	0	0	0	0	0	48	51	0	0	0	0
22	0	0	0	0	0	0	44	44	0	0	0	0
23	0	0	0	0	0	0	45	48	0	0	0	0
24	0	0	0	0	0	0	44	51	0	0	0	0
25	0	0	0	0	0	0	30	3	0	0	0	0
26	0	0	0	0	0	0	42	0	0	0	0	0
27	0	0	0	0	0	0	44	0	0	0	0	0
28	0	0	0	0	0	0	53	0	0	0	0	0
29	0	-	0	0	0	0	52	0	0	0	0	0
30	0	-	0	0	0	0	52	0	0	0	0	0
31	0	-	0	-	0	-	52	0	-	0	-	0
TOTAL	0	0	0	0	0	0	506	1,076	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	53	53	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	16	35	0	0	0	0
TOTAL AC.FT.	0	0	0	0	0	0	1,004	2,134	0	0	0	0
WHOLE YEAR:-	TOTAL,	1,582	MAXIMUM,	53	MINIMUM,	0	MEAN,	4	TOTAL AC.FT.,	3,138		

Kern County Water Agency
 Water Extractions from 2800 Acre Recharge Facility
 (S.W.P. Banked Supply -- Conveyed via Cross Valley Canal)

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	35	0	0	0	0	0	0	0	0	0
2	0	0	35	0	0	0	0	0	0	0	0	0
3	0	0	35	0	0	0	0	0	0	0	0	0
4	0	0	35	0	0	0	0	0	0	0	0	0
5	0	0	35	0	0	0	0	0	0	0	0	0
6	0	0	30	0	0	0	0	0	0	0	0	0
7	0	0	35	0	0	0	0	0	0	0	0	0
8	0	0	28	0	0	0	0	0	0	0	0	0
9	0	0	35	0	0	0	0	0	0	0	0	0
10	0	0	35	0	0	0	0	0	0	0	0	0
11	0	0	35	0	0	0	0	0	0	0	0	0
12	0	0	35	0	0	0	0	0	0	0	0	0
13	0	0	35	0	0	0	0	0	0	0	0	0
14	0	0	35	0	0	0	0	0	0	0	0	0
15	0	0	35	0	0	0	0	0	0	0	0	0
16	0	0	35	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	548	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	35	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	18	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	0	1,086	0	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	548	MAXIMUM,	35	MINIMUM,	0	MEAN,	2	TOTAL AC.FT.,	1,086		

CITY OF BAKERSFIELD
 RECAPITULATION OF BANKING, EXTRACTION AND STORAGE
 2,800 ACRE RECHARGE FACILITY

UNIT: CITY OF BAKERSFIELD

Quantities in acre-feet

Calendar Year	BANKING					EXTRACTION					GROUNDWATER STORAGE (End of Year)							
	Kern	F-Kern	S.W.P.	Other Source	Via Transfer	Total	Kern	F-Kern	S.W.P.	Other Source	Via Transfer	Total	Kern	F-Kern	S.W.P.	Other Source	Total	
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	104,587	0	0	0	0	104,587	0	0	0	0	0	0	104,587	0	0	0	0	104,587
1979	4,505	0	0	0	0	4,505	0	0	0	0	0	0	109,092	0	0	0	0	109,092
1980	68,804	0	0	0	0	68,804	0	0	0	13,772	13,772	13,772	164,124	0	0	0	0	164,124
1981	2,603	0	0	0	0	2,603	0	0	0	100,837	100,837	100,837	65,890	0	0	0	0	65,890
1982	35,377	2,536	0	0	0	37,913	0	0	0	0	0	0	101,267	2,536	0	0	0	103,803
1983	110,970	2,239	171	0	0	113,380	0	0	0	0	0	0	212,237	4,775	171	0	0	217,183
1984	14,449	1,609	0	0	0	16,058	472	0	0	0	472	472	226,214	6,384	171	0	0	232,769
1985	331	71	0	0	0	402	1,615	0	0	0	1,615	1,615	224,930	6,455	171	0	0	231,556
1986	27,114	36,792	0	262	0	64,168	0	0	0	0	0	0	252,044	43,247	171	262	0	295,724
1987	77	0	0	32	0	109	656	0	0	0	656	656	251,465	43,247	171	294	0	295,177
1988	0	0	0	0	0	0	1,932	0	0	3,500	5,432	5,432	246,033	43,247	171	294	0	289,745
1989	0	0	0	0	0	0	2,565	0	0	294	2,859	2,859	243,468	43,247	171	0	0	286,886
TOTALS	368,817	43,247	171	294	0	412,529	7,240	0	0	294	118,109	125,643	243,468	43,247	171	0	0	286,886

CITY OF BAKERSFIELD
 RECAPITULATION OF BANKING, EXTRACTION AND STORAGE
 2,800 ACRE RECHARGE FACILITY

UNIT: OLCESE/HACIENDA WD
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Quantities in acre-feet

Calendar Year	BANKING				EXTRACTION				GROUNDWATER STORAGE (End of Year)				
	Kern	F-Kern	S.M.P.	Other Source	Kern	F-Kern	S.M.P.	Other Source	Kern	F-Kern	S.M.P.	Other Source	Total
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	24,328	0	0	0	0	0	0	0	0	0	0	0	24,328
1979	0	0	0	0	0	0	0	0	0	0	0	0	24,328
1980	44,575	0	8,029	0	0	0	0	0	0	0	8,029	0	76,932
1981	0	0	4,465	0	0	0	0	0	0	0	12,494	0	81,397
1982	9,432	0	4,834	0	0	0	0	0	0	0	17,328	0	95,663
1983	0	0	0	0	0	0	0	0	0	0	17,328	0	95,663
1984	0	0	0	0	0	0	0	0	0	0	17,328	0	95,663
1985	0	0	0	0	0	0	0	0	0	0	17,328	0	95,663
1986	56,197	0	0	0	0	0	0	0	0	0	17,328	0	151,860
1987	0	0	0	0	0	0	0	0	0	0	17,328	0	157,204
1988	0	0	0	0	0	0	0	0	0	0	17,328	0	160,418
1989	0	0	0	0	873	0	0	0	0	0	17,328	0	159,545

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TOTALS	134,532	0	17,328	0	873	0	0	0	0	0	17,328	0	873
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CITY OF BAKERSFIELD
 RECAPITULATION OF BANKING, EXTRACTION AND STORAGE
 2,800 ACRE RECHARGE FACILITY

UNIT: BUENA VISTA WATER STORAGE DISTRICT

Quantities in acre-feet

Calendar Year	BANKING					EXTRACTION					GROUNDWATER STORAGE (End of Year)							
	Kern	F-Kern	S.W.P.	Other Source	Via Transfer	Total	Kern	F-Kern	S.W.P.	Other Source	Via Transfer	Total	Kern	F-Kern	S.W.P.	Other Source	Total	
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	6,056	0	0	0	0	6,056	0	0	0	0	0	0	6,056	0	0	0	0	6,056
1979	0	9,913	0	0	0	9,913	0	0	0	0	0	0	6,056	9,913	0	0	0	15,969
1980	0	0	0	0	0	0	0	0	0	0	0	0	6,056	9,913	0	0	0	15,969
1981	0	0	0	0	0	0	0	0	0	0	0	0	6,056	9,913	0	0	0	15,969
1982	5,433	15,521	3,511	0	0	24,465	0	0	0	0	0	0	11,489	25,434	3,511	0	0	40,434
1983	0	0	0	0	0	0	0	0	0	0	0	0	11,489	25,434	3,511	0	0	40,434
1984	0	0	0	0	0	0	0	0	0	0	0	0	11,489	25,434	3,511	0	0	40,434
1985	0	0	0	0	0	0	0	0	0	0	0	0	11,489	25,434	3,511	0	0	40,434
1986	10,000	0	0	0	0	10,000	0	0	0	0	0	0	21,489	25,434	3,511	0	0	50,434
1987	0	0	0	0	0	0	656	0	0	5,344	6,000	0	15,489	25,434	3,511	0	0	44,434
1988	0	0	0	0	0	0	1,786	0	0	3,214	5,000	0	10,489	25,434	3,511	0	0	39,434
1989	0	0	0	0	0	0	3,138	0	0	0	3,138	0	7,351	25,434	3,511	0	0	36,296

TOTALS 21,489 25,434 3,511 0 0 50,434 5,580 0 0 0 8,558 14,138

CITY OF BAKERSFIELD
 RECAPITULATION OF BANKING, EXTRACTION AND STORAGE
 2,800 ACRE RECHARGE FACILITY

UNIT: KERN COUNTY WATER AGENCY
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Quantities in acre-feet

Calendar Year	BANKING					EXTRACTION					GROUNDWATER STORAGE (End of Year)						
	Kern	F-Kern	S.M.P.	Other Source	Via Transfer	Total	Kern	F-Kern	S.M.P.	Other Source	Via Transfer	Total	Kern	F-Kern	S.M.P.	Other Source	Total
1977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	44,912	0	0	44,912	0	0	0	0	0	0	0	0	44,912	0	44,912
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44,912	0	44,912
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44,912	0	44,912
1984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44,912	0	44,912
1985	0	0	15,055	0	0	15,055	0	0	0	0	0	0	0	0	59,967	0	59,967
1986	0	0	22,766	0	0	22,766	0	0	0	0	0	0	0	0	82,733	0	82,733
1987	0	0	7,379	0	0	7,379	0	0	0	0	0	0	0	0	90,112	0	90,112
1988	0	0	0	0	3,500	3,500	0	0	0	0	0	0	3,500	0	90,112	0	93,612
1989	0	0	0	0	0	0	0	0	1,086	0	0	1,086	3,500	0	89,026	0	92,526
TOTALS	0	0	90,112	0	3,500	93,612	0	0	1,086	0	0	1,086	3,500	0	89,026	0	92,526

NORTH KERN WATER STORAGE DISTRICT

Year: 1989

NORTH KERN WATER STORAGE DISTRICT

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
NKMSD River Entitlement	0	2,084	4,414	16,936	8,817	2,692	54	0	0	0	0	0	34,997
Release	2,844	2,264	538	865	1,372	0	0	0	961	2,006	3,717	2,315	16,882
ENTITLEMENT + OR - RELEASE	2,844	4,348	4,952	17,801	10,189	2,692	54	0	961	2,006	3,717	2,315	51,879
From KRC & Irr. Company	0	0	56	711	283	0	0	0	0	0	0	0	1,050
From City of Bakersfield	0	0	1,341	190	36	0	11,801	10,000	0	419	80	10	23,877
From Buena Vista MSD	0	0	1,303	565	0	0	0	0	0	0	0	0	1,868
From Isabella Reservoir Storage	972	559	1,212	0	466	9,089	8,007	4,006	638	254	814	1,474	27,491
To City of Bakersfield	76	0	19	666	1,270	0	0	0	195	443	1,735	1,444	5,848
To Improvement District #4	2,852	484	0	0	0	0	0	0	0	0	125	1,375	4,836
To La Hacienda, Inc.	81	0	0	0	0	0	0	0	0	0	43	20	144
Into Isabella Reservoir Storage	234	1,648	2,122	13,359	4,506	0	11,332	11,542	101	133	488	107	45,572
Transfer in Storage	0	0	0	0	0	0	0	2,035	0	0	0	0	2,035
Other	0	0	0	375	2,283	1,231	3,582	494	(77)	0	0	0	7,888
TOTAL DIVERTED FROM RIVER	573	2,775	6,723	5,617	7,481	13,012	12,112	4,993	1,226	2,103	2,220	853	59,688
Loss to Seventh Standard Line	67	84	64	60	61	60	61	61	60	66	60	62	766
Oilfield Discharge	171	286	502	488	502	486	494	492	464	490	480	482	5,337
NKMSD Well Production	1,414	5,461	7,599	9,175	9,449	11,483	11,104	9,355	5,235	3,729	966	645	75,615
Poso Creek Natural Flow	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
Semi-Tropic MSD	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	48	0	0	147	0	0	0	2,259	3,768	0	0	6,222
TOTAL DISTRICT SUPPLY	2,091	8,486	14,760	15,220	17,518	24,921	23,649	14,779	9,124	10,024	3,606	1,918	146,096
Class 1 Irrigation Deliveries	750	6,986	12,178	12,883	15,839	22,819	20,905	12,866	7,542	7,981	1,975	903	123,627
Class 2 Irrigation Deliveries	350	190	525	828	732	1,015	1,022	769	371	369	331	260	6,762
TOTAL IRRIGATION USE	1,100	7,176	12,703	13,711	16,571	23,834	21,927	13,635	7,913	8,350	2,306	1,163	130,389
District Spreading Ponds (Kern)	101	0	199	98	0	0	0	0	0	0	0	0	398
District Spreading Ponds (Other)	0	0	0	0	0	0	0	0	0	0	0	0	0
Poso Creek Spreading (Kern)	0	0	0	0	0	0	0	0	0	0	0	0	0
Poso Creek Spreading (Other)	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DISTRICT SPREADING	101	0	199	98	0	0	0	0	0	0	0	0	398
TOTAL DISTRICT USE	1,201	7,176	12,902	13,809	16,571	23,834	21,927	13,635	7,913	8,350	2,306	1,163	130,787
TOTAL NKMSD CANAL LOSS	890	1,310	1,858	1,411	947	1,087	1,722	1,144	1,211	1,674	1,300	755	15,309
Into Reservoir Storage	234	1,648	2,122	13,359	4,506	0	11,332	11,542	101	133	488	107	45,572
Reservoir Evaporation Loss	300	319	553	891	1,214	1,346	1,923	2,234	1,642	1,164	807	510	12,903
From Reservoir Storage	972	559	1,212	0	466	9,089	8,007	4,006	638	254	814	1,474	27,491
Transfer in Storage	0	0	0	0	0	0	11,801	12,035	0	0	0	0	23,886
End of Month Reservoir Storage	24,101	24,871	25,228	37,696	40,522	30,087	31,489	36,791	34,612	33,327	32,194	30,317	

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

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	32	19	105	277	217	304	225	244	18	122	73	33
2	32	22	199	296	198	302	232	230	36	34	75	32
3	32	19	283	239	187	295	241	219	33	36	82	33
4	32	34	155	236	192	283	255	176	51	34	86	33
5	30	27	156	230	207	298	280	108	47	35	83	32
6	32	74	162	197	208	310	306	131	20	34	39	34
7	32	58	142	185	233	310	332	169	17	33	26	35
8	30	96	121	182	299	291	349	180	19	33	33	36
9	28	116	133	193	250	294	331	189	21	31	34	33
10	17	113	125	211	262	297	336	178	18	33	35	35
11	16	145	120	198	277	327	319	160	21	32	37	35
12	0	148	130	226	336	339	350	141	19	33	33	31
13	0	118	153	263	320	336	333	144	27	31	47	35
14	7	146	174	259	299	349	308	168	59	34	60	32
15	0	141	199	240	262	333	269	175	59	32	65	45
16	0	116	188	237	248	303	272	175	32	33	73	5
17	0	113	144	265	267	336	311	176	29	31	97	6
18	0	110	130	267	269	250	311	169	24	34	108	11
19	0	111	153	269	234	256	324	137	31	56	116	14
20	0	110	159	262	224	261	321	137	100	57	73	43
21	0	104	172	252	239	284	295	149	137	73	62	82
22	0	65	203	243	229	317	270	119	166	80	57	73
23	0	45	200	247	183	345	258	125	96	71	54	71
24	0	48	200	253	221	326	268	133	143	116	52	70
25	0	49	255	220	206	335	259	121	138	165	50	69
26	8	50	292	210	163	355	264	97	143	97	48	87
27	17	52	280	177	125	359	268	94	135	90	52	87
28	14	65	256	172	113	351	260	111	149	84	62	73
29	0	-	249	182	163	323	259	99	141	80	56	89
30	5	-	211	212	251	271	259	103	128	76	34	87
31	22	-	265	-	297	-	258	54	-	75	-	90
TOTAL	386	2,314	5,714	6,900	7,179	9,240	8,923	4,611	2,057	1,805	1,802	1,471
MAXIMUM DAY	32	148	292	296	336	359	350	244	166	165	116	90
MINIMUM DAY	0	19	105	172	113	236	225	54	17	31	26	5
MEAN	12	83	184	230	232	308	288	149	69	58	60	47
TOTAL AC. FT.	766	4,590	11,334	13,686	14,239	18,327	17,699	9,146	4,080	3,580	3,574	2,918
WHOLE YEAR:-	TOTAL,	52,402	MAXIMUM,	359	MINIMUM,	0	MEAN,	144	TOTAL AC. FT.,	103,939		

NORTH KERN WATER STORAGE DISTRICT
BEARDSLEY CANAL DIVERSION SUMMARY

Quantities in acre-feet

Year: 1989

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River	+ 766	4,590	11,334	13,686	14,239	18,327	17,699	9,146	4,080	3,580	3,574	2,918	103,939
Oilfield Discharge	+ 266	433	778	764	783	770	784	781	737	753	767	783	8,399
C.V.C. Conduit "A"	+ 268	1,859	958	397	5,903	10,116	10,441	10,254	6,978	7,797	1,081	482	56,534
+ TOTAL BEARDSLEY CANAL SUPPLY	= 1,300	6,882	13,070	14,847	20,925	29,213	28,924	20,181	11,795	12,130	5,422	4,183	168,872
KRC & Irr. Co. # 1 Lateral	+ 157	0	0	0	0	0	0	0	0	0	0	0	157
KRC & Irr. Co. # 2 Lateral	+ 0	0	20	0	79	262	320	349	18	85	263	71	1,467
KRC & Irr. Co. # 4 Lateral	+ 0	0	538	235	144	560	587	578	107	144	0	56	2,949
KRC & Irr. Co. # 5 Lateral	+ 0	0	461	573	412	784	720	737	341	435	87	0	4,550
KRC & Irr. Co. Bidart Boosters	+ 0	67	297	374	328	417	462	129	181	387	214	196	3,052
KRC & Irr. Co. via 1-0-30	+ 0	0	0	0	1	2	2	1	1	1	1	0	9
KRC & Irr. Co. via 1-0-80	+ 0	0	2	4	4	6	8	4	2	0	0	0	30
Lined Section Loss	+ 16	28	56	60	61	60	61	61	60	56	60	60	639
- TOTAL KRC & IRR. CO. DIVERTED	= 173	95	1,374	1,246	1,029	2,091	2,160	1,859	710	1,108	625	383	12,853
Kern River Supply	- 106	95	1,374	1,246	1,029	2,091	2,160	1,859	710	1,108	625	377	12,780
Oilfield Discharge Supply	- 67	0	0	0	0	0	0	0	0	0	0	6	73
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"	+ 359	3,491	4,193	7,086	11,034	12,436	13,147	12,385	6,906	4,508	2,017	2,380	79,942
Cawelo WD Lerdo Gate Deliveries	+ 4	95	169	274	551	988	807	262	99	46	0	0	3,295
Lined Section Loss	+ 16	56	63	60	61	60	61	61	60	61	60	61	680
Lerdo Canal Loss	+ 4	36	46	76	120	140	143	129	71	46	20	24	855
- TOTAL CAMELO WD DIVERTED	= 383	3,678	4,471	7,496	11,766	13,624	14,158	12,837	7,136	4,561	2,097	2,465	84,772
Kern River Supply	- 87	1,720	3,237	6,823	5,729	3,224	3,427	2,294	2,144	369	729	1,688	31,471
Oilfield Discharge Supply	- 28	147	276	276	281	284	290	289	273	263	287	295	2,989
C.V.C. Conduit "A" Supply	= 268	1,811	958	397	5,756	10,116	10,441	10,254	4,719	4,029	1,081	482	50,312
Rosedale Ranch ID Diverted	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Lined Section Loss: NKWSD	+ 67	84	64	60	61	60	61	61	60	66	60	62	766
= NKWSD FROM LERDO CANAL	+ 677	3,025	7,161	6,045	8,069	13,438	12,545	5,424	3,889	6,295	2,640	1,273	70,481
Kern River Supply	- 573	2,775	6,723	5,617	7,481	13,012	12,112	4,993	1,226	2,103	2,220	853	59,688
Oilfield Discharge Supply	- 171	286	502	488	502	486	494	492	464	490	480	482	5,337
C.V.C. Conduit "A" Supply	= 0	48	0	0	147	0	0	0	2,259	3,768	0	0	6,222

Year: 1989

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	26	65	161	281	266	449	376	384	191	126	90	39
2	25	68	255	297	247	448	385	373	207	152	95	39
3	28	65	344	224	267	438	386	364	197	156	97	39
4	35	79	196	213	272	426	406	315	215	123	109	40
5	31	73	199	209	310	447	426	261	206	151	112	39
6	40	70	197	184	313	458	446	289	171	190	71	39
7	42	54	178	175	340	456	471	317	176	189	47	40
8	40	100	104	176	400	432	491	314	178	186	57	38
9	26	123	118	190	409	445	473	306	184	178	74	39
10	21	121	112	206	427	442	482	313	186	182	75	40
11	21	150	104	199	409	478	461	302	188	185	80	39
12	0	153	101	214	334	479	492	293	187	199	75	39
13	0	122	125	251	317	475	475	298	193	200	91	40
14	6	150	152	241	296	494	446	314	237	203	94	38
15	0	145	178	222	255	485	421	323	235	207	91	56
16	0	122	171	222	243	456	423	313	199	208	100	50
17	0	118	151	247	260	395	464	311	174	210	102	48
18	0	119	133	253	266	420	469	305	145	213	113	49
19	0	119	160	259	265	413	480	269	188	235	120	49
20	0	119	165	260	331	411	462	280	230	232	78	82
21	0	112	151	251	331	422	444	292	234	197	68	83
22	0	144	183	243	321	457	427	273	199	194	63	81
23	0	166	182	251	321	484	400	269	212	189	60	80
24	0	162	206	235	343	464	413	273	154	177	58	84
25	0	153	261	204	354	471	396	271	145	178	56	84
26	5	152	303	196	315	495	396	257	146	164	54	100
27	14	155	272	211	292	505	406	261	135	157	58	96
28	28	172	248	209	282	487	400	277	150	154	58	80
29	16	-	245	214	324	461	408	267	140	157	62	94
30	53	-	209	260	412	421	405	268	132	98	41	92
31	69	-	267	-	447	-	401	224	-	97	-	97
TOTAL	526	3,351	5,831	6,797	9,969	13,614	13,431	9,176	5,529	5,492	2,359	1,853
MAXIMUM DAY	69	172	344	297	447	505	492	384	237	235	120	100
MINIMUM DAY	0	54	101	175	243	395	376	224	132	97	41	38
MEAN	17	120	188	227	322	454	433	296	184	177	79	60
TOTAL AC. FT.	1,044	6,647	11,569	13,481	19,774	27,002	26,642	18,200	10,965	10,895	4,677	3,677
WHOLE YEAR:--	TOTAL,	77,928	MAXIMUM,	505	MINIMUM,	0	MEAN,	214	TOTAL AC. FT.,	154,573		

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NORTH KERN WATER STORAGE DISTRICT
LERDO CANAL DIVERSION SUMMARY

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Year: 1989

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Total Beardsley Canal Supply	+ 1,300	6,882	13,070	14,847	20,925	29,213	28,924	20,181	11,795	12,130	5,422	4,183	168,872
+ KRC & Irr. Co. Laterals	157	0	1,019	808	635	1,606	1,627	1,664	466	664	350	127	9,123
+ KRC & Irr. Co. Boosters	0	67	299	378	333	425	472	134	184	388	215	196	3,091
+ Lined Section Loss: KRC & Irr. Co.	16	28	56	60	61	60	61	61	60	56	60	60	639
= KRC & Irr. Co. from Beardsley	- 173	95	1,374	1,246	1,029	2,091	2,160	1,859	710	1,108	625	383	12,853
Rosedale Ranch ID via 1-1-0	- 0	0	0	0	0	0	0	0	0	0	0	0	0
NKMSD via 1-1-0 Lateral	- 0	0	0	0	0	0	0	0	0	0	0	0	0
Other from Beardsley	- 0	0	0	0	0	0	0	0	0	0	0	0	0
Lined Section Loss: Camelo WD	- 16	56	63	60	61	60	61	61	60	61	60	61	680
Lined Section Loss: NKMSD	- 67	84	64	60	61	60	61	61	60	66	60	62	766
Lerdo Canal Total Flow	= 1,044	6,647	11,569	13,481	19,774	27,002	26,642	18,200	10,965	10,895	4,677	3,677	154,573
KRC & Irr. Co. via 8-1-0	- 0	0	0	0	0	0	0	0	0	0	0	0	0
City via 8-1-0	- 0	0	0	0	0	0	0	0	0	0	0	0	0
Rosedale Ranch ID via 8-1-0	- 0	0	0	0	0	0	0	0	0	0	0	0	0
+ Camelo WD Delivered at Sta. "B"	359	3,491	4,193	7,086	11,034	12,436	13,147	12,385	6,906	4,508	2,017	2,380	79,942
+ Camelo WD 8-0 Deliveries	4	95	169	274	551	988	807	262	99	46	0	0	3,295
+ Lerdo Loss: to Station "B"	4	35	44	71	110	124	131	124	69	45	20	24	801
+ Lerdo Loss: 8-0 Deliveries	0	1	2	5	10	16	12	5	2	1	0	0	54
= Camelo WD Total from Lerdo	- 367	3,622	4,408	7,436	11,705	13,564	14,097	12,776	7,076	4,600	2,037	2,404	84,092
North Kern WSD from Lerdo	= 677	3,025	7,161	6,045	8,069	13,438	12,545	5,424	3,889	6,295	2,640	1,273	70,481

Year: 1989

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	38	38	29	30	48	26	0	54	0	45	0	38
2	42	37	28	34	46	18	0	53	0	40	0	40
3	39	37	20	34	45	0	0	60	0	42	0	40
4	33	37	26	35	55	0	0	59	0	41	0	39
5	35	34	25	34	49	0	0	60	0	41	0	38
6	39	31	28	35	59	0	0	65	0	39	0	36
7	34	33	27	37	57	0	0	61	0	39	0	40
8	32	34	29	40	51	0	0	66	0	44	0	38
9	39	34	31	42	45	0	0	65	0	42	0	35
10	41	34	28	41	28	0	0	64	0	39	0	35
11	34	30	30	40	29	0	0	59	0	38	0	37
12	33	32	32	46	32	0	0	65	0	0	0	37
13	31	36	31	39	38	0	0	64	0	0	0	40
14	36	35	27	41	46	0	0	58	0	0	0	37
15	32	30	29	42	51	0	0	61	0	0	0	36
16	25	21	28	40	44	0	0	63	0	0	0	8
17	32	25	27	38	48	0	0	23	0	0	0	0
18	17	29	28	43	50	0	0	0	0	0	0	0
19	0	22	28	45	49	0	0	0	0	0	0	0
20	0	25	37	37	51	0	0	0	0	0	0	0
21	8	21	32	44	49	0	19	0	0	0	18	0
22	33	23	23	42	52	0	66	0	0	0	37	27
23	41	30	31	40	50	0	66	0	28	0	35	35
24	38	30	32	42	42	0	68	0	47	0	34	37
25	32	24	25	39	39	0	63	0	49	0	33	34
26	32	27	19	42	41	0	57	11	51	0	35	17
27	22	33	32	44	48	0	69	7	46	0	33	12
28	14	30	26	47	53	0	58	12	43	0	33	23
29	0	-	25	47	45	0	64	0	39	0	35	34
30	0	-	27	45	40	0	62	0	44	0	34	36
31	8	-	27	-	50	-	58	0	-	0	-	37
TOTAL	840	852	867	1,205	1,430	44	650	1,030	347	450	327	866
MAXIMUM DAY	42	38	37	47	59	26	69	66	51	45	37	40
MINIMUM DAY	0	21	19	30	28	0	0	0	0	0	0	0
MEAN	27	30	28	40	46	1	21	33	12	15	11	28
TOTAL AC. FT.	1,666	1,689	1,719	2,390	2,837	87	1,290	2,043	688	893	649	1,718
WHOLE YEAR:-	TOTAL, 8,908	MAXIMUM, 69	MINIMUM, 0	MEAN, 24	TOTAL AC. FT., 17,669							

NORTH KERN WATER STORAGE DISTRICT
CALLOWAY CANAL DIVERSION SUMMARY

Quantities in acre-feet

Year: 1989

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FLOW AT HEADWORKS	+ 1,666	1,689	1,719	2,390	2,837	87	1,290	2,043	688	893	649	1,718	17,669
KCMA Aranco Turnout	- 1,448	1,528	1,513	2,235	2,646	75	1,173	1,813	581	790	546	1,432	15,800
Seepage Loss	- 115	119	139	141	153	12	107	169	85	87	97	234	1,458
FLOW AT MEASURING STATION	= 103	42	67	14	38	0	10	61	22	16	6	32	411
CVC Inflow to Calloway	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Seepage Loss	- 103	42	67	14	38	0	10	61	22	16	6	32	411
FLOW AT STANDARD WEIR	= 0	0	0	0	0	0	0	0	0	0	0	0	0
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. Calloway Del.	- 0	0	0	0	0	0	0	0	0	0	0	0	0
KRC & Irr. Co. 1-1-0 Inflow	+ 28	0	0	0	0	0	0	0	0	0	0	0	28
Seepage Loss	- 28	0	0	0	0	0	0	0	0	0	0	0	28
FLOW AT LABORDE WEIR	= 0	0	0	0	0	0	0	0	0	0	0	0	0
KRC & Irr. Co. Calloway Del.	- 0	0	0	0	0	0	0	0	0	0	0	0	0
Rosedale Ranch ID at Headworks	- 0	0	0	0	0	0	0	0	0	0	0	0	0
Seepage Loss	- 0	0	0	0	0	0	0	0	0	0	0	0	0
NKMSD 8-1-0 Inflow	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
FLOW AT SEVENTH STANDARD LINE for Rosedale Ranch ID for North Kern WSD	= 0	0	0	0	0	0	0	0	0	0	0	0	0
KERN COUNTY WATER AGENCY:													
Operating Loss	+ 131	129	161	165	184	14	127	185	107	99	109	254	1,665
Turnout #4 to River	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
ID #4 Treatment Plant	+ 1,432	1,518	1,491	2,211	2,615	73	1,153	1,797	559	778	534	1,432	15,593
Spreading Below Measuring Sta.	+ 103	42	67	14	38	0	10	61	22	16	6	32	411
TOTAL DIVERTED	= 1,666	1,689	1,719	2,390	2,837	87	1,290	2,043	688	893	649	1,718	17,669
KERN RIVER CANAL & IRRIGATING CO.:													
Calloway Irrigation Deliveries	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Delivery Loss/ Spreading	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DIVERTED	= 0	0	0	0	0	0	0	0	0	0	0	0	0
ROSEDALE RANCH ID:													
Flow at Headworks	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Flow at Seventh Standard Line	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Assigned Loss	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DIVERTED	= 0	0	0	0	0	0	0	0	0	0	0	0	0
NORTH KERN WATER STORAGE DISTRICT:													
Flow at Seventh Standard Line	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
Total Loss	+ 0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DIVERTED	= 0	0	0	0	0	0	0	0	0	0	0	0	0

North Kern Water Storage District
Class 1 Irrigation Deliveries

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	67	204	208	223	405	320	308	170	46	26	15
2	8	87	202	184	240	402	309	296	132	52	27	15
3	5	84	213	245	227	372	325	289	118	52	22	17
4	5	61	218	248	235	361	294	287	131	70	27	14
5	7	56	198	242	273	370	342	200	174	94	27	10
6	6	87	196	220	275	392	370	180	157	80	79	17
7	2	91	199	223	278	403	383	238	186	75	74	14
8	0	89	184	170	333	402	390	242	193	79	81	6
9	3	79	170	184	325	384	372	253	160	131	72	8
10	3	87	146	221	335	374	375	261	145	139	58	5
11	4	88	140	217	308	331	389	241	195	167	44	4
12	3	92	138	273	273	385	392	190	209	196	24	8
13	2	101	192	257	207	405	380	160	170	181	33	9
14	0	101	194	291	136	427	357	232	174	161	20	22
15	0	145	217	233	194	427	352	225	146	156	28	7
16	20	148	220	199	197	407	316	234	120	216	27	7
17	17	166	218	257	245	359	373	226	114	208	32	12
18	31	145	182	244	240	336	370	218	151	194	27	15
19	22	127	170	224	225	342	382	169	104	197	26	14
20	21	141	213	239	215	357	392	147	130	168	35	10
21	20	143	214	242	203	336	335	191	100	140	26	16
22	18	176	254	213	274	352	296	207	103	136	21	15
23	25	190	270	200	247	409	280	186	60	157	17	2
24	15	173	193	233	263	404	299	173	41	162	14	0
25	12	188	161	205	286	384	290	158	85	135	14	0
26	7	184	147	201	293	409	296	114	70	117	8	31
27	7	220	232	190	253	405	312	97	77	128	41	32
28	8	206	227	166	216	413	314	148	84	116	24	30
29	8	-	196	163	271	387	312	186	70	97	24	37
30	41	-	230	166	323	365	310	217	34	91	18	35
31	58	-	202	-	372	-	313	214	-	83	-	28
TOTAL	378	3,522	6,140	6,495	7,985	11,505	10,540	6,487	3,803	4,024	996	455
MAXIMUM DAY	58	220	270	291	372	427	392	308	209	216	81	37
MINIMUM DAY	0	56	138	163	136	331	280	97	34	46	8	0
MEAN	12	126	198	217	258	384	340	209	127	130	33	15
TOTAL AC. FT.	750	6,986	12,178	12,883	15,839	22,819	20,905	12,866	7,542	7,981	1,975	903
WHOLE YEAR:-	TOTAL,	62,330	MAXIMUM,	427	MINIMUM,	0	MEAN,	171	TOTAL AC. FT.,	123,627		

North Kern Water Storage District
Class 2 Irrigation Deliveries

Year: 1989

DISCHARGE IN CUBIC FEET PER SECOND	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	14	6	14	13	19	10	20	12	5	8	6
2	0	11	6	11	12	14	8	15	10	6	13	6
3	0	3	6	10	12	20	17	16	7	7	8	5
4	0	0	8	8	11	15	16	15	7	6	13	5
5	2	0	8	11	5	20	16	13	14	3	5	4
6	1	0	8	7	7	17	15	13	13	2	12	4
7	2	0	6	14	6	22	18	13	13	0	10	5
8	4	0	5	17	16	19	19	16	13	0	12	4
9	2	0	6	11	13	19	21	10	10	4	5	4
10	2	0	6	14	14	17	24	16	6	4	11	5
11	6	0	9	10	14	17	24	23	12	3	3	4
12	3	3	10	12	12	20	23	20	12	6	2	5
13	4	8	10	13	6	20	23	14	10	6	8	11
14	4	8	10	14	3	17	19	14	10	5	10	3
15	3	8	10	8	5	17	16	10	9	5	8	3
16	7	8	6	7	5	20	9	11	3	4	5	3
17	6	8	6	12	7	17	16	10	3	5	8	4
18	6	3	2	14	7	12	16	10	3	7	7	0
19	8	3	5	21	8	20	13	5	3	6	7	0
20	8	1	5	20	12	18	17	4	4	8	2	0
21	8	2	6	14	11	15	17	10	3	8	2	0
22	6	0	9	13	16	13	19	10	0	4	0	0
23	10	0	10	10	19	20	13	6	0	7	0	0
24	10	0	10	17	17	17	14	8	0	9	0	0
25	10	0	13	20	19	15	14	12	0	8	0	0
26	6	5	10	20	21	20	16	14	0	11	0	0
27	8	7	10	23	17	16	18	11	0	10	0	0
28	12	4	11	24	11	14	20	9	0	11	0	0
29	12	-	18	16	18	15	16	9	5	8	3	18
30	17	-	17	18	17	9	13	7	5	9	5	16
31	9	-	12	-	15	-	15	13	-	9	-	16
TOTAL	176	96	265	417	369	512	515	388	187	186	167	131
MAXIMUM DAY	17	14	18	24	21	22	24	23	14	11	13	18
MINIMUM DAY	0	0	2	7	3	9	8	4	0	0	0	0
MEAN	6	3	9	14	12	17	17	13	6	6	6	4
TOTAL AC. FT.	350	190	525	828	732	1,015	1,022	769	371	369	331	260
WHOLE YEAR:-	TOTAL,	3,409	MAXIMUM,	24	MINIMUM,	0	MEAN,	9	TOTAL AC. FT.,	6,762		

DISCHARGE IN CUBIC FEET PER SECOND Poso Creek Natural Flow as Measured at Highway "99" Year: 1989

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

Year: 1989

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	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	0	MAXIMUM,	0	MINIMUM,	0	MEAN,	0	TOTAL AC. FT.,	0	0	0

Year: 1989

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	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	0	0
WHOLE YEAR:--	TOTAL,	0	MAXIMUM,	0	MINIMUM,	0	MEAN,	0	TOTAL AC. FT.,	0	0	0

Year: 1989

Total Flow via the Rosedale Ranch I.D. Headgate

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	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	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC.FT.	0	0	0	0	0	0	0	0	0	0	0	0
WHOLE YEAR--	TOTAL,	0	MAXIMUM,	0	MINIMUM,	0	MEAN,	0	TOTAL AC.FT.,	0		0

Year: 1989

North Kern WSD Exchange Water Delivered to I.D. #4
(Per terms of NKMSD/I.D. #4 Exchange Agreement Dated 9-09-88)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	187	0	0	0	0	0	0	0	0	0	0	0
2	178	0	0	0	0	0	0	0	0	0	0	0
3	75	0	0	0	0	0	0	0	0	0	0	0
4	70	74	0	0	0	0	0	0	0	0	0	0
5	64	44	0	0	0	0	0	0	0	0	0	0
6	58	0	0	0	0	0	0	0	0	0	0	0
7	47	0	0	0	0	0	0	0	0	0	0	0
8	48	41	0	0	0	0	0	0	0	0	0	0
9	53	63	0	0	0	0	0	0	0	0	0	0
10	43	22	0	0	0	0	0	0	0	0	0	0
11	40	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	21	0	0	0	0	0	0	0	0	0	0	0
17	26	0	0	0	0	0	0	0	0	0	0	0
18	3	0	0	0	0	0	0	0	0	0	0	0
19	11	0	0	0	0	0	0	0	0	0	0	0
20	42	0	0	0	0	0	0	0	0	0	0	0
21	39	0	0	0	0	0	0	0	0	0	0	0
22	45	0	0	0	0	0	0	0	0	0	0	0
23	60	0	0	0	0	0	0	0	0	0	0	0
24	53	0	0	0	0	0	0	0	0	0	0	0
25	45	0	0	0	0	0	0	0	0	0	0	0
26	23	0	0	0	0	0	0	0	0	0	0	0
27	4	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	1,235	244	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	187	74	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	40	9	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	2,449	484	0	0	0	0	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	1,479	MAXIMUM,	187	MINIMUM,	0	MEAN,	4	TOTAL AC. FT.,	2,933		

DISCHARGE IN CUBIC FEET PER SECOND

North Kern WSD Exchange Water Delivered to I.D. #4
(Per terms of NKKWD/I.D. #4 Exchange Agreement Dated 3-03-89)

Year: 1989

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	59	0	0	0	0	0	0	0	0	0	0	0
13	41	0	0	0	0	0	0	0	0	0	0	0
14	46	0	0	0	0	0	0	0	0	0	0	0
15	57	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	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	203	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	59	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	7	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	403	0	0	0	0	0	0	0	0	0	0	0
WHOLE YEAR:--	TOTAL,	203	MAXIMUM,	59	MINIMUM,	0	MEAN,	7	TOTAL AC. FT.,	403		

DISCHARGE IN CUBIC FEET PER SECOND

North Kern WSD Exchange Water Delivered to I.D. #4
(Per terms of NKSWD/I.D. #4 Exchange Agreement Dated 11-29-89)

Year: 1989

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	69
2	0	0	0	0	0	0	0	0	0	0	0	66
3	0	0	0	0	0	0	0	0	0	0	0	61
4	0	0	0	0	0	0	0	0	0	0	0	65
5	0	0	0	0	0	0	0	0	0	0	0	60
6	0	0	0	0	0	0	0	0	0	0	0	43
7	0	0	0	0	0	0	0	0	0	0	0	58
8	0	0	0	0	0	0	0	0	0	0	0	55
9	0	0	0	0	0	0	0	0	0	0	0	75
10	0	0	0	0	0	0	0	0	0	0	0	81
11	0	0	0	0	0	0	0	0	0	0	0	50
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	0
30	0	0	0	0	0	0	0	0	0	0	63	0
31	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	63	693
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	63	81
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	22
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	125	1,375
WHOLE YEAR:--	TOTAL,	756	MAXIMUM,	81	MINIMUM,	0	MEAN,	2	TOTAL AC. FT.,	1,500		

Year: 1989

Improvement District No. 4 Exchange Payback to North Kern MSD

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	50	0	40	0	49	0	0	0
2	0	0	0	0	50	0	40	0	65	28	0	0
3	0	0	0	0	72	0	40	0	54	32	0	0
4	0	0	0	0	72	0	40	0	74	32	0	0
5	0	0	0	0	84	0	40	0	69	59	0	0
6	0	0	0	0	56	0	40	0	51	52	0	0
7	0	0	0	0	0	0	40	0	57	57	0	0
8	0	0	0	0	0	0	40	0	61	57	0	0
9	0	0	0	0	15	0	40	0	47	54	0	0
10	0	0	0	0	74	0	40	0	49	89	0	0
11	0	0	0	0	73	0	40	0	50	81	0	0
12	0	0	0	0	0	0	40	0	50	106	0	0
13	0	0	0	0	0	0	40	0	54	107	0	0
14	0	0	0	0	0	0	40	0	57	118	0	0
15	0	0	0	0	0	0	40	0	54	117	0	0
16	0	0	0	0	0	0	40	0	39	119	0	0
17	0	0	0	0	0	0	40	0	38	105	0	0
18	0	0	0	0	0	0	40	0	32	108	0	0
19	0	0	0	0	0	0	40	0	68	89	0	0
20	0	0	0	0	23	0	40	0	74	89	0	0
21	0	0	0	0	30	0	40	0	37	44	0	0
22	0	0	0	0	3	0	40	0	0	43	0	0
23	0	16	0	0	27	0	40	0	10	43	0	0
24	0	8	0	0	55	0	40	0	0	40	0	0
25	0	0	0	0	99	0	40	0	0	0	0	0
26	0	0	0	0	109	0	40	0	0	57	0	0
27	0	0	0	50	84	0	40	0	0	57	0	0
28	0	0	0	50	83	0	40	0	0	58	0	0
29	0	-	0	50	98	0	40	0	0	59	0	0
30	0	-	0	50	28	0	40	0	0	0	0	0
31	0	-	0	-	40	-	34	0	-	0	-	0
TOTAL	0	24	0	200	1,225	0	1,234	0	1,139	1,900	0	0
MAXIMUM DAY	0	16	0	50	109	0	40	0	74	119	0	0
MINIMUM DAY	0	0	0	0	0	0	34	0	0	0	0	0
MEAN	0	1	0	7	40	0	40	0	38	61	0	0
AC. FT.	0	48	0	397	2,430	0	2,448	0	2,259	3,768	0	0
ASSIGNED LOSS	0	0	0	2	9	0	10	0	13	19	0	0
TOTAL AC. FT.	0	48	0	399	2,439	0	2,458	0	2,272	3,787	0	0
WHOLE YEAR:-	TOTAL,	5,722	MAXIMUM,	119	MINIMUM,	0	MEAN,	16	TOTAL AC. FT.,	11,403		

NORTH KERN WATER STORAGE DISTRICT
STATUS OF EXCHANGE

Quantities in acre-feet

Year: 1989

	CAMELO WD	KERN-TULARE WD	KERN COUNTY WATER AGENCY	IMPROVEMENT DISTRICT NO. 4	JAMES-PIONEER ID	ROSEDALE RANCH ID	LA HACIENDA, INC.	BUENA VISTA MSD
	to	from	to	from	to	from	to	from
January	0	0	0	20,089	0	3,497	0	1,918
February	0	0	2,852	484	0	0	81	0
March	0	0	0	0	0	0	0	0
April	397	375	0	399	0	0	0	1,303
May	2,283	2,283	0	2,439	0	0	0	565
June	0	0	0	0	0	0	0	0
July	2,448	2,448	0	2,458	0	0	0	0
August	0	2,035	0	0	0	0	0	0
September	77	0	0	2,272	0	0	0	0
October	0	0	0	3,787	0	0	0	0
November	0	0	125	0	0	0	43	0
December	0	0	1,375	0	0	0	20	0
Yearly Status	5,205	7,141	0	4,836	11,403	0	144	0
Overall Status	1,936	0	13,522	0	3,497	34,645	3,786	

NKMSD/IMPROVEMENT DISTRICT #4 EXCHANGE SUMMARY

Block	Date of Agmt.	NKMSD to ID #4	ID #4 to NKMSD	Balance
A	12-13-85	21,635	21,635	0
B	12-08-87	13,350	13,350	0
C	09-09-88	12,163	141	12,022
D	03-03-89	403	403	0
E	11-29-89	1,500	0	1,500
To Date Totals		49,051	35,529	13,522

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

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1987													
NKUSD to CITY	0	0	0	0	0	0	0	0	0	0	2,448	0	2,448
CITY to NKUSD	0	0	985	870	587	5,058	0	0	0	0	0	0	7,500
CITY Debit to NKUSD	29,442	29,442	28,457	27,587	27,000	21,942	21,942	21,942	21,942	21,942	24,390	24,390	243,390
Other Purchase Rate	0	0	0	0	0	0	0	0	0	0	0	0	0

1988

NKUSD to CITY	476	0	0	0	0	0	0	92	37	1,257	5,504	1,013	8,379
CITY to NKUSD	131	0	0	1,341	282	0	0	0	0	123	0	0	1,877
CITY Debit to NKUSD	24,735	24,735	24,735	23,394	23,112	23,112	23,112	23,204	23,241	24,375	29,879	30,892	308,922
Other Purchase Rate	0	0	0	0	0	0	0	0	0	0	0	0	0

1989

NKUSD to CITY	76	0	19	666	1,270	0	0	0	195	443	1,735	1,444	5,848
CITY to NKUSD	0	0	1,341	190	36	0	1,801	0	0	419	80	10	3,877
CITY Debit to NKUSD	30,968	30,968	29,646	30,122	31,356	31,356	29,555	29,555	29,750	29,774	31,429	32,863	328,663
Other Purchase Rate	0	0	0	0	0	0	0	0	0	0	0	0	0

COST ALLOCATION AND WATERMASTER SUMMARIES

CARRIER CANAL SYSTEM - ALLOCATION
Utilization of Water - Preceding Five Years

Year: 1989

Quantities in acre-feet

	1985	1986	1987	1988	1989	Five Year Total	Allocation Percentage
TOTAL CARRIER CANAL FLOW (1)	178,420	315,226	68,984	44,972	46,492	654,094	100.00%
Stire Canal Total Diverted (2)	44,652	52,925	11,463	7,553	10,913	127,506	19.49%
Buena Vista Canal Total Diverted (2)	37,000	51,761	26,648	18,551	21,844	155,804	23.82%
KERN DELTA WATER DISTRICT TOTAL DIVERTED FROM CARRIER CANAL	81,652	104,686	38,111	26,104	32,757	283,310	43.31%
KERN RIVER CONDUIT (City of Bakersfield)	96,768	210,540	30,873	18,868	13,735	370,784	56.69%

Notes: (1) Sum of Carrier canal flow at Oak St. and River canal inflow.

(2) Sum of headgate diversion and pro-rated share of Carrier canal loss.

CALLOWAY AND BEARDSLEY CANALS

Allocation of Joint Accounts

1989

Quantities in acre-feet

BEARDSLEY CANAL USED

Preceding Five Years

Diverted via Beardsley Canal

Year	NKMSD	CITY	TOTAL
1985	170,968	17,850	188,818
1986	222,907	21,501	244,408
1987	125,018	16,041	141,059
1988	87,281	12,416	99,697
1989	70,197	16,892	87,089
Total	676,371	84,700	761,071
Percent	88.87%	11.13%	100.00%

CALLOWAY CANAL USED

Preceding Ten Years

Diverted from River

Year	NKMSD	CITY	Subtotal	I.D. #4	TOTAL
1980	114,256	60,017	174,273	-	174,273
1981	1,575	6,970	8,545	-	8,545
1982	108,213	21,457	129,670	37,494	167,164
1983	132,111	21,645	153,756	31,708	185,464
1984	10,478	4,607	15,085	16,534	31,619
1985	9,550	4	9,554	27,827	37,381
1986	110,443	33,807	144,250	63,711	207,961
1987	1,900	0	1,900	27,183	29,083
1988	0	0	0	26,406	26,406
1989	0	0	0	17,669	17,669
Total	488,526	148,507	637,033	248,532	885,565
Percent	76.69%	23.31%	100.00%		

Note: I.D. #4 included within City capacity prior to 1982.
(NKMSD-City-I.D. #4 Agreement dated April 28, 1982.)

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

Year: 1989

Quantities in acre-feet

Canal	Five Year					Percentage	
	1985	1986	1987	1988	1989		Total
Kern Island	150,150	139,292	130,693	123,466	145,657	689,258	26.74%
Eastside	20,904	20,575	17,226	15,455	17,285	91,445	3.55%
Buena Vista	25,082	44,892	16,602	11,571	13,805	111,952	4.34%
Stine	32,230	35,118	11,532	7,349	10,892	97,121	3.77%
Farmers	18,117	23,349	8,619	4,606	7,171	61,862	2.40%
Subtotal Kern Delta WD	246,483	263,226	184,672	162,447	194,810	1,051,638	40.80%
City of Bakersfield	95,151	242,101	38,704	21,018	32,390	429,364	16.66%
K.R.C. & I. Co. (Beardsley)	10,724	15,079	11,699	8,145	12,780	58,427	2.27%
Central - I.D. #4 (Calloway)	27,508	93,289	26,870	26,406	17,669	191,742	7.44%
James	0	25,434	0	0	0	25,434	0.99%
Pioneer	0	55,164	6	0	0	55,170	2.14%
Subtotal City of Bakersfield	133,383	431,067	77,279	55,569	62,839	760,137	29.50%
North Kern MSD	176,990	331,692	121,237	75,710	59,688	765,317	29.70%
Total First Point Group	556,856	1,025,985	383,188	293,726	317,337	2,577,092	100.00%
South Fork	2,192	1,822	1,056	760	1,133		
First Point passing 2nd Point	0	4,262	0	0	0	0	
River Loss and Spreading	45,283	78,454	27,310	33,493	23,234		
Flow Above First Point	790	804	924	867	934		
Total 1st Point Group Diverted	605,121	1,111,327	412,478	328,846	342,638		

- 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: 1989

Year	Acre-Foot Days of Irrigation Storage			Isabella O. & M. Charges (2)
	NKWSO (1)	BVWSO	Total A.F.D.	
1985	55,300,056	27,707,421	83,007,477	\$159,115
1986	83,751,813	38,737,544	122,489,357	\$159,115
1987	44,313,663	20,507,368	64,821,031	\$159,115
1988	21,158,075	8,796,656	29,954,731	(3) \$ 5,936
1989	20,511,780	9,907,397	30,419,177	\$194,006
5-Year Totals	225,035,387	105,656,386	330,691,773	\$677,287

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

- Total 5-Year Operation & Interest Charge..... \$1,820,537

Total 5-Year Cost = \$1,820,537 = \$0.0055052

Total 5-Year Use = 330,691,773 = Rental Charge Per Acre-Foot Day

TOTAL 1989 HACIENDA WD Acre-Foot Storage Days = 325,869

TOTAL 1989 HACIENDA WD Share of 1989 Storage Costs = \$1,793.97

(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; \$194,006 per year 1989 through 1993... (includes contract
administration charges by the U.S.B.R.)

(3) Reflects downward adjustment of 1988 Isabella Reservoir O. & M. Charges...
(Reconciliation between Corps of Engineers and Kern River Watermaster for
overcharges incurred by Watermaster during the period of 1982-1987)

KERN COUNTY RECREATION POOL REPORT
FROM THE KERN RIVER WATERMASTER

Year: 1989

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	73,545	3,375	1,075			
January	72,004	3,324	1,085	502	16	165
February	73,376	3,370	1,075	540	16	177
March	107,266	4,405	910	1,339	44	321
April	157,049	5,686	745	2,828	60	450
May	184,738	6,302	670	4,292	77	498
June	172,160	6,029	700	5,572	105	611
July	130,977	5,046	820	6,458	127	871
August	102,794	4,277	925	4,653	121	897
September	95,497	4,063	960	3,027	91	678
October	91,337	3,938	980	2,029	65	490
November	89,732	3,889	985	1,380	42	349
December	85,978	3,773	1,005	877	26	234
TOTALS				33,497	790	5,741

ISABELLA RESERVOIR RECREATION POOL:

15,125 S.F. D.

30,000 ACRE-FEET

NOTE: Storage & Area quantities reflect last day of month

REPORT OF THE KERN RIVER WATERMASTER

SUMMARY OF KERN RIVER RUNOFF
(Monthly, To Date & Current Year)

Year: 1989

Quantities in acre-feet

	CALENDAR			YEAR		
	FIRST	POINT		ENTITLEMENT	YEAR	
		NATURAL	NKMSD		BVMSD	HMD
JANUARY To Date	16,869	15,947	15,947	0	0	0
FEBRUARY	21,568	23,528	23,528	0	0	0
MARCH	32,092	67,430	51,713	15,717	15,717	0
APRIL	38,575	91,380	67,993	23,387	23,387	0
MAY	39,632	71,849	54,863	16,986	16,986	0
JUNE	32,092	67,430	39,660	10,163	10,163	0
JULY	38,575	91,380	20,289	1,089	1,089	0
AUGUST	39,632	71,849	13,000	10	10	0
SEPTEMBER	56,527	49,823	10,213	0	0	0
OCTOBER	12,773	10,824	10,824	0	0	0
NOVEMBER	10,788	10,707	10,707	0	0	0
DECEMBER	14,483	15,515	15,515	0	0	0
Year	345,299	400,311	332,959	67,352	67,352	0

	WATER			ENTITLEMENT		
	FIRST	POINT		ENTITLEMENT	YEAR	
		NATURAL	NKMSD		BVMSD	HMD
OCTOBER To Date	9,025	9,283	9,283	0	0	0
NOVEMBER	10,318	10,955	10,955	0	0	0
DECEMBER	14,483	15,515	15,515	0	0	0
JANUARY	16,869	15,947	15,947	0	0	0
FEBRUARY	21,568	23,528	23,528	0	0	0
MARCH	32,092	67,430	51,713	15,717	15,717	0
APRIL	38,575	91,380	67,993	23,387	23,387	0
MAY	39,632	71,849	54,863	16,986	16,986	0
JUNE	32,092	67,430	39,660	10,163	10,163	0
JULY	38,575	91,380	20,289	1,089	1,089	0
AUGUST	39,632	71,849	13,000	10	10	0
SEPTEMBER	56,527	49,823	10,213	0	0	0
OCTOBER	12,773	10,824	10,824	0	0	0
NOVEMBER	10,788	10,707	10,707	0	0	0
DECEMBER	14,483	15,515	15,515	0	0	0
Year	345,299	400,311	332,959	67,352	67,352	0

1894 to 1989 Mean April-July Runoff = 472,893 acre-feet (100% of Average)
1989 April-July Runoff = 234,430 acre-feet (50% of Average)

1894 to 1989 Mean March-October Runoff = 605,864 acre-feet (100% of Average)
1989 March-October Runoff = 335,907 acre-feet (55% of Average)

Quantities in S.F.D. except where noted

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		CHANGE IN STORAGE		FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT. ABOVE 1ST PT.	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE	KERN COUNTY RECREATION POOL LOSS AT 2ND PT.		FRONT-KERN INFLOW DAY
		MIDNIGHT STORAGE	S.F.D. LOSS	STORAGE+LOSS+1ST POINT-FLOW	Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)					POOL LOSS	2ND POINT GROUP FLOW	
End of Previous Month	2539.53	73,545	37,079	336	***	***	***	***	37,079	21,861	***	***
1	2539.51	73,477	37,045	5	301	1	273	278	37,050	21,832	2	0
2	2539.60	73,444	37,028	6	298	1	288	274	37,019	21,801	2	0
3	2539.57	73,342	36,977	8	303	1	261	277	36,984	21,766	3	0
4	2539.55	73,275	36,943	6	297	14	283	277	36,944	21,726	2	0
5	2539.54	73,241	36,926	6	283	16	288	302	36,941	21,723	2	0
6	2539.57	73,342	36,977	7	277	1	336	287	36,943	21,725	2	0
7	2539.55	73,275	36,943	3	266	1	236	269	36,942	21,724	1	0
8	2539.53	73,208	36,909	6	263	0	235	250	36,923	21,705	2	0
9	2539.53	73,208	36,909	7	272	1	280	262	36,905	21,687	2	0
10	2539.53	73,208	36,909	5	264	1	270	272	36,907	21,689	2	0
11	2539.53	73,208	36,909	3	263	0	266	268	36,909	21,691	1	0
12	2539.52	73,174	36,892	7	278	0	268	240	36,864	21,646	2	0
13	2539.46	72,973	36,791	10	266	0	185	239	36,817	21,599	3	0
14	2539.45	72,939	36,773	9	272	0	263	235	36,771	21,553	3	0
15	2539.44	72,906	36,757	5	268	1	258	248	36,745	21,527	2	0
16	2539.42	72,839	36,723	7	250	1	224	246	36,733	21,515	2	0
17	2539.42	72,839	36,723	7	249	0	256	243	36,720	21,502	2	0
18	2539.43	72,872	36,740	7	224	1	249	263	36,751	21,533	2	0
19	2539.45	72,939	36,773	11	239	1	284	266	36,766	21,548	4	0
20	2539.45	72,939	36,773	11	253	1	265	277	36,778	21,560	4	0
21	2539.46	72,973	36,791	11	253	1	283	261	36,774	21,556	4	0
22	2539.44	72,906	36,757	7	261	0	234	262	36,768	21,550	2	0
23	2539.43	72,872	36,740	10	276	1	270	262	36,743	21,525	3	0
24	2539.43	72,872	36,740	7	273	1	281	257	36,719	21,501	2	0
25	2539.40	72,772	36,689	5	265	1	220	243	36,691	21,473	2	0
26	2539.38	72,705	36,655	7	265	1	229	237	36,665	21,447	2	0
27	2539.38	72,705	36,655	10	249	1	260	247	36,652	21,434	3	0
28	2539.37	72,671	36,638	11	257	0	251	253	36,637	21,419	4	0
29	2539.32	72,504	36,554	17	316	0	249	247	36,551	21,333	5	17
30	2539.26	72,303	36,453	12	329	1	241	244	36,453	21,235	4	43
31	2539.17	72,004	36,302	20	385	0	254	254	36,302	21,084	7	95
TOTAL SECOND FOOT DAYS				253	8,505	59	8,040	8,040	*****	*****	83	155
TOTAL ACRE-FEET				502	16,869	117	15,947	15,947	72,004	41,820	165	307

By: *gal* Date: FEBRUARY 17, 1989

DAY	NORTH KERN WATER STORAGE DISTRICT				BUENA VISTA WATER STORAGE DISTRICT				HACIENDA WATER DISTRICT								
	FLOW ABOVE FIRST POINT		RESERVOIR		ENT'L AT 1ST POINT		FLOW		RESERVOIR		ENTITLEMENT		FLOW ABOVE 1ST POINT				
	ENT'L AT 1ST POINT	LAKE La HACIENDA MINS INC.	LOSS	STORAGE	AT 1ST POINT	VIA RUMD POINT	AT 2ND ABOVE 1ST POINT	LOSS	STORAGE	Contributed by: NMSD BMSD	OLDESE W/D POWER PLANT	RESERVOIR LOSS	STORAGE	DAY			
End of Previous Month	**	**	***	15,259	***	**	**	**	**	**	**	6,029	***	**	**	**	573
1	278	301	0	15,231	0	0	0	0	0	0	0	1	6,028	0	0	0	573
2	274	298	0	15,202	0	0	0	0	0	0	0	2	5,026	0	0	0	573
3	277	303	1	15,169	0	0	0	0	0	0	0	2	5,024	0	0	0	573
4	277	297	0	15,131	0	0	0	0	0	0	0	2	6,022	0	0	0	573
5	302	283	0	15,130	0	0	0	0	0	0	0	2	6,020	0	0	0	573
6	287	277	1	15,134	0	0	0	0	0	0	0	2	6,018	0	0	0	573
7	269	266	0	15,134	0	0	0	0	0	0	0	1	6,017	0	0	0	573
8	250	263	0	15,117	0	0	0	0	0	0	0	2	6,015	0	0	0	573
9	262	272	0	15,101	0	0	0	0	0	0	0	2	6,013	0	0	0	573
10	272	264	1	15,104	0	0	0	0	0	0	0	1	6,012	0	0	0	573
11	268	263	0	15,107	0	0	0	0	0	0	0	1	6,011	0	0	0	573
12	240	278	0	15,064	0	0	0	0	0	0	0	2	6,009	0	0	0	573
13	239	266	0	15,030	0	0	0	0	0	0	0	3	6,006	10	0	0	563
14	235	272	0	14,986	0	0	0	0	0	0	0	2	6,004	0	0	0	563
15	248	268	1	14,961	0	0	0	0	0	0	0	1	6,003	0	0	0	563
16	246	250	0	14,951	0	0	0	0	0	0	0	2	6,001	0	0	0	563
17	243	249	0	14,940	0	0	0	0	0	0	0	2	5,999	0	0	0	563
18	263	224	0	14,973	0	0	0	0	0	0	0	2	5,997	0	0	0	563
19	266	237	0	14,993	0	0	0	2	0	0	0	3	5,992	0	0	0	563
20	277	252	1	15,009	0	0	0	1	0	0	0	3	5,988	0	0	0	563
21	261	251	0	15,010	0	0	0	2	0	0	0	3	5,983	0	0	0	563
22	262	259	0	15,008	0	0	0	2	0	0	0	2	5,979	0	0	0	563
23	262	276	0	14,986	0	0	0	0	0	0	0	3	5,976	0	0	0	563
24	257	273	0	14,964	0	0	0	0	0	0	0	2	5,974	0	0	0	563
25	243	265	1	14,937	0	0	0	0	0	0	0	1	5,973	0	0	0	563
26	237	255	0	14,913	0	0	0	0	0	0	0	2	5,971	0	0	0	563
27	247	243	0	14,909	0	0	0	6	0	0	0	3	5,962	0	0	0	563
28	253	249	0	14,905	0	0	0	8	0	0	0	3	5,951	0	0	0	563
29	247	295	0	14,845	0	0	0	4	17	0	0	5	5,925	0	0	0	563
30	244	278	1	14,801	0	0	0	8	43	0	0	3	5,871	0	0	0	563
31	254	282	0	14,758	0	0	0	8	95	0	0	5	5,763	0	0	0	563
S.F.D.	8,040	8,309	8	14,758	0	41	155	0	70	5,763	10	0	563	S.F.D.			
AC.FT.	15,947	16,481	16	81	363	29,272	0	81	307	0	139	11,431	AC.FT.				
TOTAL ACRE-FOOT STORAGE DAYS				923,311	TOTAL ACRE-FOOT STORAGE DAYS				367,999	TOTAL ACRE-FOOT STORAGE DAYS				34,856			

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR STORAGE		CHANGE IN STORAGE		FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	COMPUTED NATURAL FLOW	MEAN STORAGE		KERN COUNTY RECREATION POOL LOSS		FRONT-KERN INFLOW DAY
		MIDNIGHT	S.F.D.	LOSS+STORAGE	POINT+FLOW ABOVE 1ST PT.				Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 RCFT)	TOTAL IRRIGATION	RECREATION POOL LOSS AT 2ND PT.	2ND POINT GROUP FLOW AT 2ND PT.	
End of Previous Month	2539.17	72,004	36,302	***	254	***	254	***	36,302	21,084	***	***	***
1	2539.05	71,606	36,101	21	231	410	1	258	36,128	20,910	7	102	0
2	2538.97	71,342	35,968	15	312	430	0	332	36,015	20,797	5	98	0
3	2538.97	71,342	35,968	2	451	451	1	438	35,999	20,781	1	138	0
4	2539.01	71,473	36,034	1	549	481	1	459	35,975	20,757	0	119	0
5	2539.04	71,573	36,085	3	374	319	1	374	36,026	20,808	1	34	0
6	2538.99	71,408	36,002	4	198	276	1	277	36,022	20,804	1	0	0
7	2538.97	71,342	35,968	3	260	290	1	272	36,000	20,782	1	0	0
8	2539.00	71,441	36,018	4	357	302	1	329	36,022	20,804	1	0	0
9	2539.03	71,539	36,068	2	316	316	1	367	36,070	20,852	1	0	0
10	2539.05	71,606	36,101	4	374	337	0	354	36,083	20,865	1	0	0
11	2539.02	71,506	36,051	7	318	360	1	345	36,060	20,842	2	0	0
12	2539.00	71,441	36,018	7	344	369	1	331	36,014	20,796	2	0	0
13	2538.98	71,375	35,985	5	331	358	1	336	35,986	20,768	2	0	0
14	2538.96	71,309	35,952	11	332	353	1	328	35,949	20,731	4	0	0
15	2538.94	71,243	35,918	9	322	346	1	327	35,920	20,702	3	0	0
16	2538.93	71,210	35,902	7	327	335	1	326	35,903	20,685	2	0	0
17	2538.92	71,177	35,885	9	330	337	1	326	35,882	20,664	3	0	0
18	2538.90	71,111	35,852	13	320	340	0	366	35,895	20,677	4	0	0
19	2538.95	71,276	35,935	11	449	354	1	400	35,929	20,711	4	0	0
20	2538.96	71,309	35,952	12	431	401	1	437	35,952	20,734	4	0	0
21	2538.95	71,276	35,935	12	431	435	1	449	35,953	20,755	4	0	0
22	2538.98	71,375	35,985	11	484	422	1	492	36,011	20,793	4	0	0
23	2539.05	71,606	36,101	10	561	434	1	539	36,105	20,887	3	0	0
24	2539.11	71,805	36,202	11	572	460	0	579	36,213	20,995	4	0	0
25	2539.17	72,004	36,302	25	605	479	1	616	36,324	21,106	8	0	0
26	2539.27	72,337	36,470	15	671	487	1	715	36,536	21,318	5	0	0
27	2539.48	73,040	36,824	15	869	499	1	803	36,824	21,606	5	0	0
28	2539.58	73,376	36,994	23	687	493	1	687	36,994	21,776	7	0	0
29	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
30	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
31	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

TOTAL SECOND FOOT DAYS	272	10,874	24	11,862	11,862	89	491	0
TOTAL ACRE-FOOT	540	21,568	48	23,528	23,528	177	974	0

By: *[Signature]* Date: MARCH 14, 1989

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+ LOSS+1ST POINT+FLOW ABOVE 1ST PT.	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE	KERN COUNTY		PRIANT-KERN INFLOW DRY
		MIDNIGHT STORAGE	STORAGE							RECREATION POOL + DEAD STORAGE = 15,218 S.F.D. (30,184 ACFT)	POOL LOSS AT 2ND PT.	
End of Previous Month	2539.58	73,376	36,994	***	***	687	***	***	36,994	21,776	***	***
1	2539.61	73,477	37,045	25	516	2	594	594	37,045	21,827	8	0
2	2540.08	75,075	37,850	1	634	1	1,441	1,441	37,850	22,632	0	0
3	2540.90	77,922	39,286	15	616	1	2,068	2,068	39,286	24,068	4	0
4	2541.24	79,125	39,892	11	504	2	1,123	1,123	39,892	24,674	3	0
5	2541.49	80,018	40,342	9	495	1	955	968	40,355	25,137	3	0
6	2541.76	80,989	40,832	22	479	2	993	1,033	40,885	25,667	6	0
7	2542.12	82,299	41,492	21	470	1	1,152	1,148	41,541	26,323	6	0
8	2542.35	83,883	42,291	16	483	2	1,300	1,277	42,317	27,099	4	0
9	2542.99	85,526	43,119	16	534	2	1,380	1,323	43,088	27,870	4	0
10	2543.36	86,925	43,825	16	565	2	1,289	1,292	43,797	28,579	4	0
11	2543.69	88,186	44,460	28	543	1	1,207	1,220	44,445	29,227	7	0
12	2544.00	89,383	45,064	22	536	2	1,164	1,144	45,029	29,811	6	0
13	2544.28	90,473	45,613	22	490	1	1,062	1,073	45,589	30,371	6	0
14	2544.51	91,376	46,069	17	519	2	994	1,021	46,072	30,854	4	0
15	2544.70	92,127	46,447	26	602	1	1,007	973	46,416	31,198	6	0
16	2544.85	92,722	46,747	17	599	2	918	971	46,769	31,551	4	0
17	2545.06	93,561	47,170	21	543	1	988	891	47,095	31,877	5	0
18	2545.18	94,043	47,413	25	497	2	767	869	47,440	32,222	6	0
19	2545.32	94,606	47,697	17	547	2	850	858	47,732	32,514	4	0
20	2545.48	95,254	48,024	17	611	2	957	909	48,011	32,793	4	0
21	2545.63	95,864	48,331	34	578	2	921	966	48,363	33,145	8	0
22	2545.81	96,599	48,702	25	621	2	1,019	1,021	48,736	33,518	6	0
23	2546.06	97,626	49,220	37	566	2	1,123	1,075	49,206	33,988	9	0
24	2546.36	98,870	49,847	14	440	2	1,083	1,119	49,869	34,651	3	0
25	2546.69	100,251	50,543	9	443	3	1,151	1,136	50,550	35,332	2	0
26	2547.02	101,644	51,246	18	452	2	1,175	1,112	51,190	35,972	4	0
27	2547.27	102,709	51,782	25	447	2	1,010	1,044	51,760	36,542	5	0
28	2547.49	103,653	52,258	34	434	2	946	1,008	52,298	37,080	7	0
29	2547.76	104,818	52,846	35	441	2	1,066	1,045	52,865	37,647	7	0
30	2548.04	106,037	53,460	37	469	2	1,122	1,103	53,460	38,242	8	0
31	2548.32	107,266	54,080	43	506	2	1,171	1,171	54,080	38,862	9	0
TOTAL SECOND FOOT DAYS				675	16,180	55	33,996	33,996	*****	*****	162	0
TOTAL ACRE-FEET				1,339	32,092	109	67,430	67,430	107,266	77,082	321	0

By: *[Signature]* Date: April 14, 1989

DAY	ELEVATION (FEET)	MIDNIGHT ACRE-Feet	RESERVOIR STORAGE S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE + LOSS-1ST POINT+FLOW ABOVE 1ST PT.	COMPUTED 1ST POINT NATURAL FLOW	KERN STORAGE		KERN COUNTY RECREATION POOL LOSS	2ND POINT GROUP FLOW AT 2ND PT.	FRONT- KERN INFLOW DRY			
									Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACF)	TOTAL IRRIGATION						
End of Previous Month	2548.32	107,266	54,080	***	***	***	1,171	***	54,080	38,862	***	***	***			
1	2548.59	108,460	54,682	42	540	3	1,187	1,205	54,700	39,482	9	0	0			
2	2548.87	109,708	55,311	43	569	3	1,240	1,259	55,348	40,130	8	0	0			
3	2549.19	111,146	56,036	43	579	3	1,350	1,317	56,040	40,822	9	0	0			
4	2549.50	112,552	56,745	31	617	4	1,361	1,371	56,759	41,541	6	0	0			
5	2549.82	114,015	57,483	31	630	3	1,402	1,401	57,496	42,278	6	0	0			
6	2550.15	115,538	58,250	43	627	3	1,440	1,454	58,287	43,069	8	9	0			
7	2550.52	117,261	59,119	51	626	4	1,550	1,564	59,170	43,952	9	25	0			
8	2550.95	119,288	60,141	51	626	3	1,702	1,681	60,171	44,953	9	5	0			
9	2551.41	121,480	61,246	53	631	3	1,792	1,765	61,249	46,031	9	3	0			
10	2551.87	123,700	62,365	57	620	4	1,800	1,823	62,391	47,173	10	0	0			
11	2552.35	126,046	63,548	52	638	3	1,876	1,847	63,545	48,327	9	0	0			
12	2552.79	128,221	64,645	42	723	3	1,865	1,859	64,636	49,418	7	0	0			
13	2553.20	130,273	65,679	47	751	3	1,835	1,847	65,682	50,464	8	0	0			
14	2553.60	132,294	66,698	53	767	3	1,842	1,853	66,712	51,494	9	0	0			
15	2554.02	134,438	67,779	65	734	3	1,883	1,884	67,794	52,576	10	0	0			
16	2554.47	136,763	68,951	58	693	4	1,927	1,897	68,936	53,718	9	0	0			
17	2554.89	138,955	70,057	62	711	3	1,882	1,900	70,060	54,842	9	0	0			
18	2555.32	141,224	71,200	52	692	4	1,891	1,885	71,197	55,979	8	0	0			
19	2555.74	143,464	72,330	41	707	3	1,881	1,907	72,353	57,135	6	0	0			
20	2556.19	145,889	73,552	61	664	3	1,950	1,860	73,485	58,267	9	0	0			
21	2556.57	147,957	74,595	61	641	3	1,748	1,778	74,558	59,340	9	0	0			
22	2556.92	149,880	75,565	47	615	4	1,636	1,582	75,474	60,256	7	0	0			
23	2557.17	151,263	76,262	36	626	3	1,362	1,437	76,246	61,028	5	0	0			
24	2557.39	152,487	76,879	39	654	3	1,313	1,288	76,838	61,620	5	0	0			
25	2557.58	153,549	77,414	32	619	4	1,190	1,258	77,411	62,193	4	4	0			
26	2557.76	154,559	77,924	41	627	3	1,181	1,147	77,887	62,669	5	43	0			
27	2557.90	155,349	78,322	46	622	3	1,069	1,091	78,307	63,089	6	72	0			
28	2558.02	156,027	78,664	46	631	4	1,063	1,021	78,647	63,429	6	82	0			
29	2558.12	156,594	78,950	48	635	3	972	989	78,950	63,732	6	97	0			
30	2558.20	157,049	79,179	56	633	3	921	921	79,179	63,961	7	102	0			
31	*****													31		
TOTAL SECOND FOOT DRY				1,426	19,448	98	46,071	46,071	*****					227	442	0
TOTAL ACRE-Feet				2,828	38,575	194	91,380	91,380	*****					450	877	0

By: *Spd* Date: MAY 12, 1989

NORTH KERN WATER STORAGE DISTRICT										BUENA VISTA WATER STORAGE DISTRICT										HACIENDA WATER DISTRICT									
FLOW ABOVE FIRST POINT					FLOW					FLOW ABOVE FIRST POINT					ENTITLEMENT					FLOW ABOVE FIRST POINT									
ENT'L AT 1ST POINT		LAKE La HACIENDA INC.		RESERVOIR STORAGE		ENT'L AT 2ND POINT		VIA KMSD		VIA KMD		VIA KMD		AT 1ST POINT		AT 2ND POINT		OLDESE MD		RESERVOIR STORAGE		CONTRIBUTED BY: KMSD BMSD		OLDESE MD		La HACIENDA INC.		RESERVOIR STORAGE	
DAY	POINT	DAY	POINT	LOSS	STORAGE	POINT	POINT	MD	KMD	KMD	KMD	POINT	POINT	MD	MD	MD	MD	MD	MD	MD	STORAGE	STORAGE	MD	MD	MD	MD	STORAGE	STORAGE	
End of Previous Month				***	**	***	**	**	**	**	**	**	**	**	**	**	**	**	**	**	***	**	**	**	**	***	**		
1	917	465	0	31	28,111	288	0	3	0	0	0	2	11	10,812	0	0	0	0	0	0	0	0	0	0	0	0	559	559	
2	564	484	0	29	28,551	305	0	3	0	0	0	2	10	11,020	0	0	0	0	0	0	0	0	0	0	0	0	559	559	
3	993	491	0	31	29,021	324	66	18	4	0	0	2	12	11,242	0	0	0	0	0	0	0	0	0	0	0	0	559	559	
4	1,030	518	0	23	29,509	341	40	56	3	0	0	3	8	11,473	0	0	0	0	0	0	0	0	0	0	0	0	559	559	
5	1,051	526	0	23	30,010	350	25	70	9	0	0	2	8	11,709	0	0	0	0	0	0	0	0	0	0	0	0	559	559	
6	1,094	524	0	31	30,548	370	0	75	8	11	9	2	12	11,962	0	0	0	0	0	0	0	0	0	0	0	0	559	559	
7	1,162	523	0	36	31,150	402	0	68	10	0	25	2	14	12,245	0	0	0	0	0	0	0	0	0	0	0	0	557	557	
8	1,242	523	0	36	31,632	439	0	86	12	0	5	2	14	12,565	0	0	0	0	0	0	0	0	0	0	0	0	556	556	
9	1,299	527	0	37	32,566	466	0	89	12	0	3	2	15	12,910	0	0	0	0	0	0	0	0	0	0	0	0	555	555	
10	1,339	520	0	40	33,344	484	0	88	12	0	0	3	16	13,275	0	0	0	0	0	0	0	0	0	0	0	0	554	554	
11	1,355	532	0	37	34,129	492	0	98	8	0	0	2	14	13,645	0	0	0	0	0	0	0	0	0	0	0	0	553	553	
12	1,363	598	0	30	34,863	496	0	97	28	0	0	2	12	14,002	0	0	0	0	0	0	0	0	0	0	0	0	553	553	
13	1,355	631	0	34	35,582	492	0	95	25	0	0	2	13	14,359	0	0	0	0	0	0	0	0	0	0	0	0	553	553	
14	1,359	644	0	38	36,228	494	0	95	28	0	0	2	15	14,713	0	0	0	0	0	0	0	0	0	0	0	0	552	552	
15	1,380	601	0	46	36,960	504	0	95	38	0	0	2	18	15,064	0	0	0	0	0	0	0	0	0	0	0	0	551	551	
16	1,389	564	0	41	37,743	508	0	95	34	0	0	3	16	15,424	0	0	0	0	0	0	0	0	0	0	0	0	550	550	
17	1,391	590	0	44	38,499	509	0	95	26	0	0	2	17	15,793	0	0	0	0	0	0	0	0	0	0	0	0	549	549	
18	1,381	614	0	37	39,228	504	0	60	18	0	0	2	15	16,202	0	0	0	0	0	0	0	0	0	0	0	0	549	549	
19	1,396	641	0	29	39,953	511	0	45	21	0	0	2	12	16,633	0	0	0	0	0	0	0	0	0	0	0	0	549	549	
20	1,364	610	0	44	40,662	496	0	40	14	0	0	2	17	17,056	0	0	0	0	0	0	0	0	0	0	0	0	549	549	
21	1,308	566	0	44	41,359	470	0	71	4	0	0	2	17	17,432	0	0	0	0	0	0	0	0	0	0	0	0	549	549	
22	1,174	517	0	33	41,982	408	0	98	0	0	0	3	14	17,725	0	0	0	0	0	0	0	0	0	0	0	0	549	549	
23	1,075	533	0	26	42,497	362	0	91	2	0	0	2	10	17,982	0	0	0	0	0	0	0	0	0	0	0	0	549	549	
24	974	552	0	28	42,890	314	0	100	2	0	0	2	11	18,181	0	0	0	0	0	0	0	0	0	0	0	0	548	548	
25	933	518	0	23	43,281	295	0	88	9	0	4	2	9	18,364	0	0	0	0	0	0	0	0	0	0	0	0	548	548	
26	878	524	0	29	43,605	269	0	43	17	0	43	2	12	18,516	0	0	0	0	0	0	0	0	0	0	0	0	548	548	
27	839	521	0	33	43,889	252	0	22	7	0	72	2	13	18,652	0	0	0	0	0	0	0	0	0	0	0	0	548	548	
28	792	527	0	33	44,120	229	0	17	5	0	82	3	13	18,761	0	0	0	0	0	0	0	0	0	0	0	0	548	548	
29	770	529	0	34	44,326	219	0	5	4	0	97	2	14	18,858	0	0	0	0	0	0	0	0	0	0	0	0	548	548	
30	723	528	0	40	44,480	198	0	2	1	0	102	2	16	18,933	0	0	0	0	0	0	0	0	0	0	0	0	548	548	
31	*****																												
S.F.D.	34,280	16,441	0	1,020	44,480	11,791	285	1,902	367	11	442	65	398	18,933	0	0	0	0	0	0	0	0	0	0	0	0	548	548	
AC.F.T.	67,993	32,611	60	2,023	88,225	23,387	585	3,772	728	22	877	129	789	37,553	0	0	0	0	0	0	0	0	0	0	0	0	1,087	1,087	
TOTAL ACRE-FOOT STORAGE DAYS										TOTAL ACRE-FOOT STORAGE DAYS										TOTAL ACRE-FOOT STORAGE DAYS									
2,203,414										903,486										32,870									

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		FIRST POINT REGULATED FLOW	CHANGE IN STORAGE+ LOSS+1ST POINT+FLOW ABOVE 1ST PT. ABOVE 1ST PT.	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE	KERN COUNTY RECREATION		2ND POINT GROUP FLOW AT 2ND PT.	PRIANT-KERN INFLOW DAY
		MIDNIGHT STORAGE	S.F.D. LOSS					Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)	POOL LOSS		
End of Previous Month	2558.20	157,049	79,179	***	921	***	79,179	63,961	***	***	***
1	2558.27	157,446	79,379	56	3	890	79,393	64,175	7	71	0
2	2558.35	157,903	79,609	70	4	931	79,637	64,419	9	49	0
3	2558.46	158,532	79,927	74	4	1,016	79,971	64,753	10	39	0
4	2558.62	159,448	80,388	63	3	1,150	80,460	65,242	8	35	0
5	2558.85	160,772	81,056	65	4	1,368	81,087	65,869	8	26	0
6	2559.11	162,278	81,815	67	3	1,462	81,831	66,613	8	29	0
7	2559.37	163,792	82,579	75	4	1,510	82,634	67,416	9	21	0
8	2559.66	165,492	83,436	79	4	1,676	83,423	68,205	10	25	0
9	2559.97	167,321	84,358	54	3	1,638	84,354	69,136	7	30	0
10	2560.28	169,162	85,286	56	4	1,627	85,186	69,968	7	54	0
11	2560.50	170,478	85,949	29	3	1,329	85,925	70,707	3	77	0
12	2560.68	171,559	86,494	78	4	1,258	86,466	71,248	9	88	0
13	2560.84	172,522	86,980	55	4	1,174	86,969	71,751	6	96	0
14	2560.99	173,430	87,438	45	3	1,140	87,419	72,201	5	97	0
15	2561.12	174,218	87,835	49	4	1,082	87,838	72,620	6	91	0
16	2561.25	175,010	88,234	61	4	1,090	88,221	73,003	7	82	0
17	2561.36	175,680	88,572	75	4	1,051	88,566	73,348	9	75	0
18	2561.46	176,292	88,881	79	4	1,032	88,908	73,690	9	81	0
19	2561.59	177,088	89,282	85	4	1,111	89,310	74,092	10	74	0
20	2561.74	178,011	89,747	80	4	1,192	89,749	74,531	9	68	0
21	2561.89	178,936	90,214	90	4	1,196	90,193	74,975	10	53	0
22	2562.02	179,739	90,618	78	4	1,130	90,635	75,437	9	81	0
23	2562.18	180,733	91,120	84	4	1,239	91,052	75,834	9	102	0
24	2562.28	181,354	91,433	79	4	1,024	91,420	76,202	9	54	0
25	2562.37	181,916	91,716	72	4	996	91,720	76,502	8	17	0
26	2562.46	182,479	92,000	74	4	1,007	92,004	76,786	8	79	0
27	2562.55	183,041	92,283	83	4	1,018	92,302	77,084	9	88	0
28	2562.66	183,732	92,632	76	4	1,074	92,600	77,382	8	73	0
29	2562.74	184,236	92,886	63	4	977	92,866	77,648	7	6	0
30	2562.79	184,549	93,044	78	4	917	93,044	77,826	8	0	0
31	2562.82	184,738	93,139	92	5	910	93,139	77,921	10	0	0
TOTAL SECOND FOOT DRY			2,164	19,981	119	36,224	*****	*****	251	1,761	0
TOTAL ACRE-FEET			4,292	39,632	236	71,849	184,738	154,554	498	3,493	0

By: *[Signature]* Date: JUNE 14, 1989

ENT'L AT 1ST POINT	FLOW AT 1ST POINT	NORTH KERN WATER STORAGE DISTRICT				BUENA VISTA WATER STORAGE DISTRICT				HACIENDA WATER DISTRICT								
		FLOW ABOVE FIRST POINT		FLOW		FLOW ABOVE FIRST POINT		FLOW		ENTITLEMENT		FLOW ABOVE FIRST POINT		RESERVOIR				
		LAKE MING	La HACIENDA INC.	RESERVOIR LOSS	ENT'L AT 2ND POINT	VIA CND	VIA KMD	AT 1ST POINT	AT 2ND POINT	OLCESE MD	OLCESE MD	CONTRIBUTED BY: MNSD	BYMSD	OLCESE MD	La HACIENDA INC.	RESERVOIR LOSS	STORAGE DRY	
End of Previous Month		**	**	***	**	**	**	**	**	**	**	**	**	**	**	**	**	
1	712	527	0	44,662	192	28	5	0	71	2	16	18,965	0	0	0	0	548	
2	740	525	0	44,827	205	44	9	0	49	3	20	19,045	0	0	0	1	547	
3	799	520	0	45,053	233	50	11	0	39	3	21	19,154	0	0	0	0	546	
4	899	521	0	45,385	279	56	11	0	35	2	18	19,311	0	0	0	0	546	
5	1,000	527	0	45,811	327	66	12	0	26	3	19	19,512	0	0	0	0	546	
6	1,082	528	0	46,316	365	63	13	0	29	2	19	19,751	0	0	0	0	546	
7	1,152	579	0	46,836	397	52	17	0	21	3	22	20,035	0	0	0	1	545	
8	1,192	625	0	47,347	416	68	18	0	25	3	23	20,314	0	0	0	1	544	
9	1,218	551	0	47,975	429	65	13	0	30	2	16	20,617	0	0	0	0	544	
10	1,139	533	0	48,540	392	37	15	0	54	3	16	20,884	0	0	0	0	544	
11	1,053	529	0	49,043	352	12	16	0	77	2	9	21,120	0	0	0	0	544	
12	951	525	0	49,414	303	0	18	0	88	3	23	21,291	0	0	0	1	543	
13	908	525	0	49,757	283	0	8	0	96	3	16	21,451	0	0	0	0	543	
14	867	531	0	50,060	265	5	1	0	97	2	13	21,598	0	0	0	0	543	
15	848	529	0	50,343	256	11	1	0	91	3	14	21,734	0	0	0	0	543	
16	828	524	0	50,603	246	20	0	0	82	3	18	21,857	0	0	0	0	543	
17	817	528	0	50,837	241	31	0	0	75	2	22	21,968	0	0	0	0	543	
18	822	534	0	51,069	243	18	7	0	81	3	23	22,079	0	0	0	1	542	
19	854	520	0	51,342	258	17	10	0	74	2	25	22,209	0	0	0	1	541	
20	891	536	0	51,641	275	38	1	0	68	3	24	22,350	0	0	0	1	540	
21	895	529	0	51,942	278	51	2	0	53	2	26	22,494	0	0	0	1	539	
22	906	536	0	52,256	282	23	4	0	81	3	23	22,642	0	0	0	0	539	
23	869	539	0	52,526	265	2	6	0	102	2	25	22,770	0	0	0	1	538	
24	838	532	0	52,775	251	38	14	0	54	3	23	22,889	0	0	0	0	538	
25	785	530	0	52,977	227	76	13	0	17	2	21	22,987	0	0	0	0	538	
26	782	537	0	53,169	225	21	8	0	79	3	22	23,079	0	0	0	0	538	
27	600	538	0	53,371	233	1	21	0	88	2	24	23,176	0	0	0	1	537	
28	793	537	0	53,572	230	18	17	0	73	3	22	23,273	0	0	0	0	537	
29	770	553	0	53,743	219	72	25	0	6	2	19	23,368	0	0	0	0	537	
30	734	575	0	53,846	203	72	30	0	0	3	23	23,443	0	0	0	0	537	
31	716	610	0	53,886	194	87	21	0	0	3	27	23,499	0	0	0	1	536	
S.F.D.	27,660	16,733	39	0	1,520	53,886	8,564	1,140	347	0	1,761	80	532	23,499	0	0	12	536
AC.FT.	54,863	33,190	77	0	3,014	106,881	16,986	2,261	688	0	3,493	159	1,254	46,510	0	0	24	1,063
TOTAL ACRE-FOOT STORAGE DAYS																	3,076,211	
TOTAL ACRE-FOOT STORAGE DAYS																	1,326,674	
TOTAL ACRE-FOOT STORAGE DAYS																	33,312	

DAY	ISABELLA		RESERVOIR		FIRST POINT		CHANGE IN		COMPUTED		MEAN		KERN		FRIANT-KERN INFLOW	DAY
	ELEVATION (FEET)	MIDNIGHT	STORAGE	S. F. D.	LOSS	REGULATED FLOW	FLOW ABOVE 1ST PT.	LOSS+POINT+FLOW ABOVE 1ST PT.	1ST POINT NATURAL FLOW	Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACF)	TOTAL IRRIGATION	RECREATION POOL LOSS	COUNTY RECREATION	2ND POINT GROUP FLOW AT 2ND PT.		
End of Previous Month	2562.82	184,738	93,139	***	***	910	***	910	***	93,139	77,921	***	***	***	***	***
1	2562.83	184,801	93,171	86	724	4	846	807	93,132	77,914	9	0	0	0	0	1
2	2562.79	184,549	93,044	74	776	5	728	775	93,082	77,834	8	0	0	0	0	2
3	2562.72	184,110	92,822	97	871	5	751	742	92,821	77,603	10	0	0	0	0	3
4	2562.63	183,544	92,537	78	950	5	748	760	92,548	77,330	8	0	0	0	0	4
5	2562.53	182,916	92,220	87	1,005	5	780	801	92,252	77,034	9	0	0	0	0	5
6	2562.46	182,479	92,000	78	1,013	5	876	847	92,003	76,785	8	0	0	0	0	6
7	2562.39	182,041	91,779	76	1,025	5	885	914	91,811	76,593	8	0	0	0	0	7
8	2562.35	181,791	91,653	79	1,024	5	982	961	91,664	76,446	9	0	0	0	0	8
9	2562.32	181,604	91,559	85	1,021	4	1,016	1,008	91,562	76,344	9	0	0	0	0	9
10	2562.30	181,479	91,495	98	985	5	1,025	1,034	91,508	76,290	11	0	0	0	0	10
11	2562.30	181,479	91,495	92	963	5	1,060	1,062	91,510	76,292	10	0	0	0	0	11
12	2562.32	181,604	91,559	98	935	5	1,101	1,061	91,533	76,315	11	0	0	0	0	12
13	2562.32	181,604	91,559	102	914	5	1,021	1,072	91,584	76,366	11	0	0	0	0	13
14	2562.33	181,666	91,590	113	944	5	1,093	1,077	91,599	76,381	12	0	0	0	0	14
15	2562.34	181,729	91,622	106	973	5	1,116	1,102	91,617	76,399	12	0	0	0	0	15
16	2562.35	181,791	91,653	98	961	6	1,095	1,063	91,615	76,397	11	0	0	0	0	16
17	2562.36	181,854	91,685	104	837	5	978	982	91,661	76,443	11	0	0	0	0	17
18	2562.35	181,791	91,653	113	816	5	902	926	91,653	76,435	12	0	0	0	0	18
19	2562.31	181,542	91,527	125	892	5	897	851	91,481	76,263	14	0	0	0	0	19
20	2562.23	181,044	91,276	113	888	5	755	848	91,323	76,105	12	0	0	0	0	20
21	2562.17	180,671	91,088	103	972	5	892	799	91,042	75,824	11	0	0	0	0	21
22	2562.06	179,987	90,743	96	992	6	749	781	90,729	75,511	11	0	0	0	0	22
23	2561.92	179,121	90,307	107	1,027	5	703	697	90,287	75,069	12	0	0	0	0	23
24	2561.77	178,195	89,840	93	1,009	5	640	669	89,849	74,531	10	0	0	0	0	24
25	2561.63	177,334	89,406	80	1,013	6	665	663	89,413	74,195	9	0	0	0	0	25
26	2561.48	176,414	88,942	87	1,056	5	684	672	88,937	73,719	10	0	0	0	0	26
27	2561.32	175,436	88,449	100	1,055	5	667	625	88,402	73,184	11	0	0	0	0	27
28	2561.13	174,279	87,866	76	1,024	6	523	553	87,849	72,631	9	0	0	0	0	28
29	2560.93	173,067	87,255	83	994	5	471	488	87,255	72,037	10	0	0	0	0	29
30	2560.78	172,160	86,797	82	840	5	469	469	86,797	71,579	10	0	0	0	0	30
31	*****															
TOTAL SECOND FOOT DAYS			2,809	28,499	153	25,119	25,119	25,119	*****	308	0	0	0	0	0	0
TOTAL ACRE-FEET			5,572	56,527	304	49,823	49,823	172,160	141,976	511	0	0	0	0	0	0

By: *[Signature]* Date: July 16, 1989

DAY	ELEVATION (FEET)	MIDNIGHT STORAGE		FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT. ABOVE 1ST PT.	CHANGE IN STORAGE- LOSS+1ST POINT+FLOW ABOVE 1ST PT.	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE		KERN COUNTY RECREATION POOL LOSS AT 2ND PT.	FRONT-KERN INFLOW DRY
		ACRE- FEET	S.F.D.					RECREATION POOL + DEAD STORAGE = 15,218 S.F.D. (30,184 RCFT)	IRRIGATION		
1	2560.78	172,160	86,797	722	5	460	454	86,737	71,579	11	0
2	2560.56	171,438	86,433	690	6	443	445	86,427	71,209	13	0
3	2560.54	170,717	86,070	738	5	432	432	86,065	70,848	13	0
4	2560.40	169,879	85,647	760	6	421	438	85,643	70,425	13	0
5	2560.25	168,984	85,196	780	5	460	421	85,209	69,991	15	0
6	2560.10	168,091	84,746	791	6	381	413	84,720	69,502	15	0
7	2559.92	167,025	84,208	982	5	399	404	84,214	68,996	15	0
8	2559.69	165,668	83,524	1,123	5	432	429	83,535	68,317	16	0
9	2559.41	164,026	82,696	1,065	6	456	426	82,704	67,496	15	0
10	2559.16	162,568	81,961	954	5	390	403	81,939	66,721	13	0
11	2558.93	161,235	81,289	904	6	364	367	81,280	66,062	15	0
12	2558.71	159,966	80,650	882	5	346	332	80,644	65,426	12	0
13	2558.49	158,704	80,013	1,155	5	286	342	79,993	64,775	13	173
14	2558.15	156,765	79,036	1,025	6	395	319	79,072	63,854	14	112
15	2557.89	155,293	78,294	814	5	275	321	78,254	63,036	15	0
16	2557.65	153,998	77,641	1,008	6	294	292	77,617	62,429	15	0
17	2557.43	152,711	76,992	958	5	307	323	76,996	61,778	15	0
18	2557.16	151,208	76,234	966	6	368	335	76,254	61,036	14	0
19	2556.91	149,825	75,537	972	5	330	341	75,524	60,306	13	0
20	2556.64	148,341	74,789	958	5	325	331	74,787	59,569	14	0
21	2556.37	146,866	74,045	944	6	289	303	74,049	58,831	15	0
22	2556.11	145,456	73,334	900	6	337	338	73,339	58,121	14	0
23	2555.87	144,161	72,681	890	6	352	350	72,684	57,466	14	0
24	2555.63	142,875	72,033	934	6	316	315	72,019	56,801	16	0
25	2555.36	141,436	71,307	949	5	289	303	71,292	56,074	15	0
26	2555.06	139,849	70,507	1,022	6	226	233	70,566	55,308	17	0
27	2554.77	138,326	69,739	984	6	324	294	69,728	54,510	15	0
28	2554.47	136,763	68,951	981	5	289	302	68,953	53,735	14	0
29	2554.19	135,314	68,221	926	6	292	276	68,207	52,969	14	0
30	2553.92	133,966	67,521	885	5	248	255	67,514	52,296	14	0
31	2553.64	132,497	66,801	844	6	201	201	66,801	51,583	15	0
TOTAL	SECOND FOOT DAYS	3,256	28,115	170	10,778	10,778	10,778	*****	*****	439	285
TOTAL	ACRE- FEET	6,458	55,765	337	21,378	21,378	21,378	130,977	100,793	871	565

By: *[Signature]* Date: AUGUST 14, 1989

DAY	ELEVATION (FEET)	MIDNIGHT ACRE-FEET	RESERVOIR STORAGE S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+ LOSS+1ST POINT+FLOW ABOVE 1ST PT.	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE TOTAL IRRIGATION	KERN COUNTY RECREATION POOL LOSS	2ND POINT GROUP FLOW AT 2ND PT.	FRIANT-KERN INFLOW DRY
End of Previous Month	2553.34	130,977	66,034	***	***	***	201	***	66,034	50,816	***	***
1	2553.04	129,469	65,274	98	869	5	212	206	65,268	50,050	16	0
2	2552.74	127,974	64,520	94	847	6	193	219	64,540	49,322	16	0
3	2552.46	126,588	63,821	81	864	5	251	235	63,825	48,607	14	0
4	2552.21	125,359	63,202	79	797	6	263	257	63,200	47,982	14	0
5	2551.99	124,284	62,660	92	702	5	257	249	62,650	47,432	16	0
6	2551.75	123,119	62,073	88	719	6	226	232	62,069	46,851	15	0
7	2551.48	121,817	61,416	91	773	5	212	213	61,413	46,195	16	0
8	2551.13	120,142	60,572	66	974	6	202	248	60,615	45,397	12	260
9	2550.80	118,578	59,783	59	1,054	5	329	280	59,777	44,559	11	170
10	2550.58	117,543	59,261	81	744	6	309	315	59,261	44,043	15	0
11	2550.37	116,561	58,766	80	717	5	307	294	58,753	43,535	15	0
12	2550.16	115,585	58,274	92	660	6	266	256	58,251	43,033	17	0
13	2549.91	114,429	57,691	82	690	5	194	226	57,700	42,482	16	0
14	2549.64	113,190	57,067	80	756	6	218	220	57,078	41,860	15	0
15	2549.39	112,052	56,493	89	729	5	249	230	56,485	41,267	17	0
16	2549.16	111,011	55,968	85	657	6	223	227	55,964	40,746	17	0
17	2548.96	110,112	55,515	76	591	5	209	221	55,523	40,305	15	0
18	2548.80	109,395	55,153	74	513	6	231	210	55,140	39,922	15	0
19	2548.66	108,771	54,839	75	425	5	191	208	54,843	39,625	15	0
20	2548.53	108,194	54,548	79	410	6	204	180	54,528	39,310	16	0
21	2548.39	107,575	54,236	61	390	5	144	173	54,245	39,027	13	0
22	2548.26	107,002	53,947	67	386	6	170	159	53,945	38,727	14	0
23	2548.12	106,388	53,637	66	402	5	163	156	53,628	38,410	14	0
24	2547.98	105,776	53,329	64	372	6	134	164	53,350	38,132	13	0
25	2547.87	105,296	53,087	63	370	5	196	165	53,077	37,859	13	0
26	2547.77	104,862	52,868	67	312	6	166	170	52,862	37,644	14	0
27	2547.67	104,429	52,650	59	301	5	147	165	52,662	37,444	13	0
28	2547.56	103,954	52,410	67	349	6	182	170	52,410	37,192	14	0
29	2547.46	103,524	52,193	66	328	5	182	177	52,188	36,970	14	0
30	2547.36	103,094	51,977	63	315	5	167	172	51,977	36,759	14	0
31	2547.29	102,794	51,825	62	247	5	162	162	51,825	36,607	13	0
TOTAL SECOND FOOT DRY			2,346	18,253	169	6,559	6,559	6,559	*****	452	430	0
TOTAL ACRE-FEET			4,653	36,204	336	13,010	13,010	13,010	102,794	72,610	897	853

By: *[Signature]* Date: SEPTEMBER 14, 1989

DAY	ISABELLA RESERVOIR		CHANGE IN STORAGE		FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE		KERN COUNTY RECREATION POOL LOSS AT 2ND PT.	FRONT-KERN INFLOW DRY
	ELEVATION (FEET)	MIDNIGHT ACRE-Feet	S.F.D.	LOSS				RECREATION Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)	TOTAL		
End of Previous Month	2547.29	102,794	51,825	***	***	162	***	51,825	36,607	***	***
1	2547.24	102,582	51,718	71	175	4	145	51,720	36,502	15	0
2	2547.19	102,368	51,611	64	188	4	147	51,611	36,393	14	0
3	2547.12	102,069	51,460	64	229	5	154	51,467	36,249	14	0
4	2547.05	101,771	51,310	64	248	4	159	51,310	36,092	14	0
5	2546.98	101,475	51,160	69	241	4	146	51,142	35,924	15	0
6	2546.89	101,094	50,968	79	215	5	136	50,979	35,761	17	0
7	2546.82	100,798	50,819	70	211	4	123	50,817	35,599	16	0
8	2546.75	100,503	50,670	57	214	4	136	50,678	35,460	13	0
9	2546.69	100,251	50,543	59	209	4	140	50,546	35,328	13	0
10	2546.63	99,999	50,416	65	208	4	153	50,422	35,204	15	0
11	2546.58	99,789	50,310	60	205	4	153	50,306	35,088	13	0
12	2546.53	99,579	50,204	60	189	4	146	50,199	34,981	13	0
13	2546.47	99,329	50,078	51	199	4	141	50,086	34,868	12	0
14	2546.40	99,037	49,931	52	240	4	146	49,936	34,718	12	0
15	2546.35	98,828	49,826	49	213	4	178	49,848	34,630	11	0
16	2546.37	98,912	49,868	9	170	4	181	49,846	34,628	2	0
17	2546.34	98,787	49,805	43	172	4	203	49,830	34,612	10	0
18	2546.35	98,828	49,826	31	173	4	196	49,818	34,600	7	0
19	2546.35	98,828	49,826	21	179	4	218	49,832	34,614	5	0
20	2546.33	98,745	49,784	37	222	4	221	49,790	34,572	8	0
21	2546.31	98,662	49,742	46	230	4	229	49,739	34,521	10	0
22	2546.27	98,495	49,658	46	262	4	223	49,650	34,432	10	0
23	2546.22	98,289	49,554	53	249	4	191	49,535	34,317	12	0
24	2546.12	97,874	49,345	52	295	4	185	49,369	34,151	12	0
25	2546.03	97,503	49,158	27	367	4	180	49,151	33,933	6	0
26	2545.93	97,091	48,950	41	351	4	201	48,956	33,738	9	0
27	2545.83	96,681	48,743	53	355	4	181	48,725	33,507	12	0
28	2545.71	96,190	48,496	51	343	4	185	48,512	33,294	12	0
29	2545.63	95,864	48,331	45	316	4	184	48,331	33,113	11	0
30	2545.54	95,497	48,146	37	312	4	168	48,146	32,928	9	0
31	*****										
TOTAL SECOND FOOT DRY	1,526	7,180	122	5,149	5,149	342	0	*****	*****	342	0
TOTAL ACRE-Feet	3,027	14,241	241	10,213	10,213	678	0	95,497	65,313	678	0

By: *[Signature]* Date: OCTOBER 9, 1989

End of Previous Month	NORTH KERN WATER STORAGE DISTRICT										BUENA VISTA WATER STORAGE DISTRICT										HACIENDA WATER DISTRICT																								
	FLOW ABOVE FIRST POINT					RESERVOIR					ENT'L AT 1ST POINT					FLOW					FLOW ABOVE FIRST POINT					RESERVOIR					ENTITLEMENT					FLOW ABOVE FIRST POINT					RESERVOIR				
	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	LAKE La HACIENDA INC.	LOSS STORAGE	ENT'L AT 1ST POINT	RESERVOIR LOSS STORAGE	ENT'L AT 1ST POINT	VIA CMO	VIA KMD	AT 1ST POINT	AT 2ND POINT	OLCSE WD	FLOW CMO	VIA KMD	AT 1ST POINT	AT 2ND POINT	OLCSE WD	FLOW CMO	VIA KMD	AT 1ST POINT	AT 2ND POINT	OLCSE WD	RESERVOIR LOSS STORAGE	ENTITLEMENT Contributed by: INMSD RWMSD	FLOW CMO	VIA KMD	AT 1ST POINT	AT 2ND POINT	OLCSE WD	RESERVOIR LOSS STORAGE	ENTITLEMENT Contributed by: INMSD RWMSD	FLOW CMO	VIA KMD	AT 1ST POINT	AT 2ND POINT	OLCSE WD	RESERVOIR LOSS STORAGE	ENTITLEMENT Contributed by: INMSD RWMSD							
1	145	124	0	45	22,223	0	13	38	0	0	0	0	25	13,895	3	0	0	1	41	0	0	28	13,477	3	0	1	366	6	136	173	2	50	21,918	0	1	41	0	0	28	13,477	3	0	1	366	
2	147	130	0	40	22,198	0	27	31	0	0	0	0	23	13,814	2	0	0	1	44	0	0	24	13,408	2	0	1	381	7	123	166	2	45	21,829	0	1	44	0	0	24	13,408	2	0	1	381	
3	154	166	0	41	22,143	0	17	46	0	0	0	0	22	13,729	3	0	0	4	42	0	0	20	13,342	3	0	1	377	8	136	168	2	37	21,758	0	4	42	0	0	20	13,342	3	0	1	377	
4	159	177	0	41	22,083	0	34	37	0	0	0	0	22	13,636	4	0	0	9	40	0	0	21	13,272	4	0	1	373	9	140	160	1	38	21,699	0	9	40	0	0	21	13,272	4	0	1	373	
5	146	176	0	44	22,007	0	25	40	0	0	0	0	24	13,547	5	0	0	11	35	0	0	23	13,203	5	0	1	370	10	153	162	2	41	21,647	0	11	35	0	0	23	13,203	5	0	1	370	
6	136	173	2	50	21,918	0	1	41	0	0	0	0	28	13,477	6	0	0	13	33	0	0	21	13,136	6	0	0	351	11	153	159	1	39	21,601	0	13	33	0	0	21	13,136	6	0	0	351	
7	123	166	1	45	21,829	0	1	44	0	0	0	0	24	13,408	7	0	0	11	31	0	0	21	13,073	7	0	0	349	12	146	147	2	39	21,559	0	11	31	0	0	21	13,073	7	0	0	349	
8	136	168	2	37	21,758	0	4	42	0	0	0	0	20	13,342	8	0	0	18	28	0	0	18	13,009	8	0	0	346	13	141	153	1	33	21,513	0	18	28	0	0	18	13,009	8	0	0	346	
9	140	160	1	38	21,699	0	9	40	0	0	0	0	21	13,272	9	0	0	52	27	0	0	18	12,912	9	0	0	344	14	146	161	2	34	21,462	0	52	27	0	0	18	12,912	9	0	0	344	
10	153	162	2	41	21,647	0	11	35	0	0	0	0	23	13,203	10	0	0	48	36	0	0	17	12,811	10	0	0	341	15	178	129	1	32	21,478	0	48	36	0	0	17	12,811	10	0	0	341	
11	153	159	1	39	21,601	0	13	33	0	0	0	0	21	13,136	11	0	0	20	37	0	0	3	12,751	11	0	0	329	20	221	205	2	24	21,658	0	20	37	0	0	3	12,751	11	0	0	329	
12	146	147	2	39	21,559	0	17	24	0	0	0	0	15	12,695	12	0	0	17	24	0	0	15	12,695	12	0	0	339	16	181	113	2	6	21,538	0	17	24	0	0	15	12,695	12	0	0	339	
13	141	153	1	33	21,513	0	18	28	0	0	0	0	11	12,653	13	0	0	13	18	0	0	11	12,653	13	0	0	336	17	196	142	2	20	21,613	0	13	18	0	0	11	12,653	13	0	0	336	
14	146	161	2	34	21,462	0	0	31	0	0	0	0	7	12,615	14	0	0	0	31	0	0	7	12,615	14	0	0	334	18	196	142	2	20	21,613	0	0	31	0	0	7	12,615	14	0	0	334	
15	178	129	1	32	21,478	0	0	17	0	0	0	0	13	12,585	15	0	0	0	17	0	0	13	12,585	15	0	0	341	15	178	129	1	32	21,478	0	0	17	0	0	13	12,585	15	0	0	341	
16	181	113	2	6	21,538	0	20	37	0	0	0	0	3	12,751	16	0	0	20	37	0	0	3	12,751	16	0	0	339	16	181	113	2	6	21,538	0	20	37	0	0	3	12,751	16	0	0	339	
17	203	131	1	28	21,581	0	17	24	0	0	0	0	16	12,614	17	0	0	14	0	0	0	16	12,614	17	0	0	326	21	229	216	1	30	21,640	0	14	0	0	16	12,614	17	0	0	326		
18	196	142	2	20	21,613	0	13	18	0	0	0	0	18	12,583	18	0	0	0	14	0	0	18	12,583	18	0	0	324	22	223	248	2	30	21,494	0	0	14	0	0	18	12,583	18	0	0	324	
19	218	148	1	14	21,568	0	0	31	0	0	0	0	18	12,549	19	0	0	0	16	0	0	18	12,549	19	0	0	321	23	23	191	236	1	35	21,413	0	0	13	0	0	18	12,549	19	0	0	321
20	221	205	2	24	21,658	0	0	17	0	0	0	0	9	12,519	20	0	0	0	21	0	0	9	12,519	20	0	0	319	24	24	185	279	2	34	21,283	0	0	16	0	0	18	12,519	20	0	0	319
21	229	216	1	30	21,640	0	0	14	0	0	0	0	16	12,555	21	0	0	0	14	0	0	16	12,555	21	0	0	326	21	229	216	1	30	21,640	0	0	14	0	0	16	12,555	21	0	0	326	
22	223	248	2	30	21,494	0	0	14	0	0	0	0	16	12,614	22	0	0	0	14	0	0	16	12,614	22	0	0	324	22	223	248	2	30	21,494	0	0	14	0	0	16	12,614	22	0	0	324	
23	191	236	1	35	21,413	0	0	13	0	0	0	0	18	12,583	23	0	0	0	13	0	0	18	12,583	23	0	0	321	23	23	191	236	1	35	21,413	0	0	13	0	0	18	12,583	23	0	0	321
24	185	279	2	34	21,283	0	0	16	0	0	0	0	18	12,549	24	0	0	0	16	0	0	18	12,549	24	0	0	319	24	24	185	279	2	34	21,283	0	0	16	0	0	18	12,549	24	0	0	319
25	180	346	1	18	21,098	0	0	21	0	0	0	0	9	12,519	25	0	0	0	21	0	0	9	12,519	25	0	0	316	25	25	180	346	1	18	21,098	0	0	21	0	0	9	12,519	25	0	0	316
26	201	323	2	27	20,947	0	0	28	0	0	0	0	14	12,477	26	0	0	0	28	0	0	14	12,477	26	0	0	314	26	26	201	323	2	27	20,947	0	0	28	0	0	14	12,477	26	0	0	314
27	181	340	1	35	20,752	0	0	15	0	0	0	0	18	12,444	27	0	0	0	15	0	0	18	12,444	27	0	0	311	27	27	181	340	1	35	20,752	0	0	15	0	0	18	12,444	27	0	0	311
28	185	327	2	34	20,574	0	0	16	0	0	0	0	17	12,411	28	0	0	0	16	0	0	17	12,411	28	0	0	309	28	28	185	327	2	34	20,574	0	0	16	0	0	17	12,411	28	0	0	309
29	184	302	1	30	20,425	0	0	14	0	0	0	0	15	12,382	29	0	0	0	14	0	0	15	12,382	29	0	0	306	29	29	184	302	1	30	20,425	0	0	14	0	0	15	12,382	29	0	0	306
30	168	303	2	24	20,264	0	0	9	0	0	0	0	13	12,360	30	0	0	0	9	0	0	13	12,360	30	0	0	304	30	30	168	303	2	24	20,264	0	0	9	0	0	13	12,360	30	0	0	304
31	*****																																												
S.F.D.	5,149	6,010	46	0	988	20,264	0	334	836	0	0	0	530	12,360	76	0	0	0	0	0	0	530	12,360	0	0	0	304	5.F.D.	5,149	6,010	46	0	988												

ELEVATION DRY (FEET)	ISABELLA		RESERVOIR		FIRST POINT REGULATED FLOW		CHANGE IN STORAGE+ LOSS-1ST POINT+FLOW		COMPUTED 1ST POINT NATURAL FLOW		MEAN STORAGE		KERN COUNTY RECREATION POOL LOSS AT 2ND PT.		FRONT- KERN INFLOW DAY	
	2545.54	95,497	48,146	48,146	***	***	***	168	***	***	48,146	32,928	***	***	***	***
1	2545.45	95,132	47,962	43	318	3	180	170	47,962	32,734	10	0	0	0	0	1
2	2545.36	94,768	47,779	48	281	3	149	182	47,802	32,584	11	0	0	0	0	2
3	2545.30	94,525	47,656	35	301	3	216	182	47,645	32,427	8	0	0	0	0	3
4	2545.22	94,204	47,495	38	300	3	180	194	47,498	32,280	9	0	0	0	0	4
5	2545.16	93,962	47,373	38	268	3	187	182	47,371	32,153	9	0	0	0	0	5
6	2545.11	93,761	47,271	39	239	3	179	189	47,279	32,061	9	0	0	0	0	6
7	2545.07	93,601	47,191	38	241	3	202	186	47,183	31,965	9	0	0	0	0	7
8	2545.02	93,400	47,089	41	234	3	176	187	47,092	31,874	10	0	0	0	0	8
9	2544.97	93,201	46,989	42	237	3	182	175	46,985	31,767	10	0	0	0	0	9
10	2544.91	92,962	46,868	42	243	3	167	182	46,879	31,661	10	0	0	0	0	10
11	2544.88	92,842	46,808	42	213	3	198	174	46,795	31,577	10	0	0	0	0	11
12	2544.85	92,722	46,747	39	176	3	157	174	46,751	31,533	10	0	0	0	0	12
13	2544.82	92,603	46,687	38	186	3	167	159	46,683	31,465	9	0	0	0	0	13
14	2544.79	92,484	46,627	41	169	3	153	166	46,635	31,418	10	0	0	0	0	14
15	2544.77	92,404	46,567	47	169	3	179	156	46,573	31,355	12	0	0	0	0	15
16	2544.72	92,206	46,487	37	195	3	135	165	46,503	31,285	9	0	0	0	0	16
17	2544.69	92,087	46,427	31	208	3	182	166	46,427	31,209	8	0	0	0	0	17
18	2544.67	92,008	46,367	34	184	3	181	177	46,383	31,155	8	0	0	0	0	18
19	2544.65	91,929	46,348	39	166	3	169	168	46,343	31,125	10	0	0	0	0	19
20	2544.63	91,850	46,308	37	154	3	154	161	46,310	31,092	9	0	0	0	39	20
21	2544.62	91,810	46,288	26	151	3	160	161	46,291	31,073	6	0	0	0	50	21
22	2544.62	91,810	46,268	16	150	2	168	159	46,282	31,064	4	0	0	0	16	22
23	2544.60	91,731	46,248	31	155	3	149	154	46,247	31,029	8	0	0	0	28	23
24	2544.56	91,573	46,168	22	201	3	146	182	46,203	30,985	5	0	0	0	23	24
25	2544.55	91,534	46,148	9	256	3	250	196	46,129	30,911	2	0	0	0	25	25
26	2544.54	91,494	46,128	22	187	3	192	207	46,124	30,906	5	0	0	0	20	26
27	2544.53	91,455	46,109	20	175	3	179	181	46,107	30,889	5	0	0	0	8	27
28	2544.52	91,415	46,088	23	168	2	172	176	46,090	30,872	6	0	0	0	0	28
29	2544.51	91,376	46,069	22	172	3	178	177	46,070	30,852	5	0	0	0	0	29
30	2544.50	91,337	46,049	28	170	3	181	180	46,049	30,831	7	0	0	0	0	30
31	2544.50	91,337	46,049	15	171	3	189	189	46,049	30,831	4	0	0	0	0	31
TOTAL SECOND FOOT DAYS				1,023	6,440	91	5,457	5,457	*****	*****	247	0	0	0	209	
TOTAL ACRE-FEET				2,029	12,773	180	10,824	10,824			91,337	61,153	490	0	415	

By:  Date: NOVEMBER 10, 1989

NORTH KERN WATER STORAGE DISTRICT										BUENA VISTA WATER STORAGE DISTRICT										HACIENDA WATER STORAGE DISTRICT																								
FLOW ABOVE FIRST POINT					RESERVOIR					ENT'L AT 1ST POINT					FLOW					FLOW ABOVE FIRST POINT					RESERVOIR					ENTITLEMENT					FLOW ABOVE FIRST POINT					RESERVOIR				
DAY	ENT'L AT 1ST POINT	LAKE La HACIENDA MING INC.	LOSS STORAGE	AT 1ST POINT	ENT'L AT 1ST POINT	VIA CND	VIA KND	VIA AT 1ST POINT	AT 2ND POINT	OLCESE WD	FLOW ABOVE FIRST POINT	LOSS STORAGE	AT 1ST POINT	AT 2ND POINT	OLCESE WD	FLOW ABOVE FIRST POINT	LOSS STORAGE	AT 1ST POINT	AT 2ND POINT	OLCESE WD	CONTRIBUTED BY: NAWSD BAWSD	FLOW ABOVE FIRST POINT	LOSS STORAGE	AT 1ST POINT	AT 2ND POINT	OLCESE WD	CONTRIBUTED BY: NAWSD BAWSD	FLOW ABOVE FIRST POINT	LOSS STORAGE	AT 1ST POINT	AT 2ND POINT	OLCESE WD	LOSS STORAGE	DAY										
End of Previous Month	**	**	***	20,264	***	**	**	**	**	**	**	***	**	**	**	**	***	**	**	**	**	**	**	***	**	**	**	**	**	**	***	**	**	304										
1	170	266	1	0	28	20,139	0	52	0	0	0	15	0	0	0	0	12,293	0	0	0	0	0	12,360	0	0	0	0	0	0	0	0	0	0	302	1									
2	182	265	1	0	31	20,024	0	7	9	0	0	17	0	0	0	0	12,260	0	0	0	0	0	12,233	0	0	0	0	0	0	0	0	0	0	300	2									
3	182	286	2	0	23	19,895	0	1	14	0	0	12	0	0	0	0	12,233	0	0	0	0	0	12,206	0	0	0	0	0	0	0	0	0	0	299	3									
4	194	286	1	0	25	19,777	0	0	14	0	0	13	0	0	0	0	12,206	0	0	0	0	0	12,180	0	0	0	0	0	0	0	0	0	0	297	4									
5	182	255	1	0	25	19,678	0	3	10	0	0	13	0	0	0	0	12,180	0	0	0	0	0	12,149	0	0	0	0	0	0	0	0	0	0	295	5									
6	189	222	1	0	25	19,619	0	0	17	0	0	14	0	0	0	0	12,149	0	0	0	0	0	12,121	0	0	0	0	0	0	0	0	0	0	293	6									
7	186	226	2	0	25	19,552	0	0	15	0	0	14	0	0	0	0	12,121	0	0	0	0	0	12,092	0	0	0	0	0	0	0	0	0	0	0	292	7								
8	187	219	1	0	27	19,492	0	0	15	0	0	14	0	0	0	0	12,092	0	0	0	0	0	12,060	0	0	0	0	0	0	0	0	0	0	0	290	8								
9	175	220	1	0	27	19,419	0	0	17	0	0	15	0	0	0	0	12,060	0	0	0	0	0	12,031	0	0	0	0	0	0	0	0	0	0	0	288	9								
10	182	229	1	0	27	19,344	0	0	14	0	0	15	0	0	0	0	12,031	0	0	0	0	0	11,828	0	0	0	0	0	0	0	0	0	0	0	286	10								
11	174	197	1	0	27	19,293	0	0	16	0	0	15	0	0	0	0	12,000	0	0	0	0	0	11,779	0	0	0	0	0	0	0	0	0	0	0	0	284	11							
12	174	150	1	0	25	19,291	0	4	22	0	0	14	0	0	0	0	11,960	0	0	0	0	0	11,729	0	0	0	0	0	0	0	0	0	0	0	282	12								
13	159	157	1	0	25	19,267	0	5	24	0	0	13	0	0	0	0	11,918	0	0	0	0	0	11,687	0	0	0	0	0	0	0	0	0	0	0	0	280	13							
14	166	139	1	0	27	19,266	0	8	22	0	0	14	0	0	0	0	11,874	0	0	0	0	0	11,665	0	0	0	0	0	0	0	0	0	0	0	0	278	14							
15	156	139	1	0	31	19,251	0	12	18	0	0	16	0	0	0	0	11,828	0	0	0	0	0	11,640	0	0	0	0	0	0	0	0	0	0	0	0	276	15							
16	165	159	1	0	24	19,232	0	13	23	0	0	13	0	0	0	0	11,779	0	0	0	0	0	11,620	0	0	0	0	0	0	0	0	0	0	0	0	274	16							
17	166	169	1	0	20	19,208	0	16	23	0	0	11	0	0	0	0	11,729	0	0	0	0	0	11,604	0	0	0	0	0	0	0	0	0	0	0	0	272	17							
18	177	154	1	0	22	19,208	0	19	11	0	0	12	0	0	0	0	11,687	0	0	0	0	0	11,578	0	0	0	0	0	0	0	0	0	0	0	0	270	18							
19	168	159	1	0	26	19,190	0	0	7	0	0	13	0	0	0	0	11,665	0	0	0	0	0	11,551	0	0	0	0	0	0	0	0	0	0	0	0	270	19							
20	161	144	1	0	24	19,182	0	0	10	0	0	13	0	0	0	0	11,640	0	0	0	0	0	11,525	0	0	0	0	0	0	0	0	0	0	0	0	270	20							
21	161	142	1	0	17	19,183	0	0	9	0	0	9	0	0	0	0	11,620	0	0	0	0	0	11,494	0	0	0	0	0	0	0	0	0	0	0	0	270	21							
22	159	140	1	0	11	19,190	0	0	10	0	0	5	0	0	0	0	11,604	0	0	0	0	0	11,469	0	0	0	0	0	0	0	0	0	0	0	0	270	22							
23	154	142	1	0	20	19,181	0	0	13	0	0	11	0	0	0	0	11,578	0	0	0	0	0	11,450	0	0	0	0	0	0	0	0	0	0	0	0	270	23							
24	182	184	1	0	14	19,164	0	0	17	0	0	8	0	0	0	0	11,551	0	0	0	0	0	11,424	0	0	0	0	0	0	0	0	0	0	0	0	270	24							
25	196	237	1	0	6	19,116	0	0	21	0	0	3	0	0	0	0	11,525	0	0	0	0	0	11,401	0	0	0	0	0	0	0	0	0	0	0	0	270	25							
26	207	166	1	0	14	19,142	0	0	21	0	0	8	0	0	0	0	11,494	0	0	0	0	0	11,383	0	0	0	0	0	0	0	0	0	0	0	0	270	26							
27	181	159	1	0	13	19,150	0	0	16	0	0	7	0	0	0	0	11,469	0	0	0	0	0	11,357	0	0	0	0	0	0	0	0	0	0	0	0	270	27							
28	176	158	1	0	15	19,152	0	0	10	0	0	8	0	0	0	0	11,450	0	0	0	0	0	11,330	0	0	0	0	0	0	0	0	0	0	0	0	270	28							
29	177	156	1	0	14	19,158	0	0	16	0	0	8	0	0	0	0	11,424	0	0	0	0	0	11,304	0	0	0	0	0	0	0	0	0	0	0	0	270	29							
30	180	159	1	0	18	19,160	0	0	11	0	0	10	0	0	0	0	11,401	0	0	0	0	0	11,278	0	0	0	0	0	0	0	0	0	0	0	0	270	30							
31	189	160	1	0	10	19,178	0	0	11	0	0	5	0	0	0	0	11,383	0	0	0	0	0	11,357	0	0	0	0	0	0	0	0	0	0	0	0	270	31							
S.F.D.	5,457	5,844	33	0	666	19,178	0	140	456	0	0	24	357	0	0	0	11,383	0	0	0	0	0	11,357	0	0	0	0	0	0	0	0	0	0	0	0	270	S.F.D.							
AC.F.T.	10,824	11,591	65	0	1,321	38,039	0	277	905	0	0	47	708	0	0	0	22,578	0	0	0	0	0	22,578	0	0	0	0	0	0	0	0	0	0	0	0	0	536	AC.F.T.						
TOTAL ACRE-FOOT STORAGE DAYS										TOTAL ACRE-FOOT STORAGE DAYS										TOTAL ACRE-FOOT STORAGE DAYS																								
1,190,282										786,355										17,193																								

Quantities in S.F.D. except where noted

ISABELLA RESERVOIR

CHARGE IN STORAGE + LOSS + 1ST POINT ABOVE 1ST PT. FLOW

MEAN STORAGE

KERN COUNTY RECREATION POOL LOSS AT 2ND PT. INFLOW DAY

DRY DAY	ELEVATION (FEET)	MIDNIGHT ACRE-FOOT	RESERVOIR STORAGE S.F.D.	LOSS	FIRST POINT REBULGED FLOW	FLOW ABOVE 1ST PT.	LOSS + 1ST POINT ABOVE 1ST PT. FLOW	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE TOTAL	KERN COUNTY RECREATION POOL LOSS AT 2ND PT.	INFLOW DAY	
End of Previous Month	2544.50	91,337	46,049	***	***	***	189	***	46,049	30,831	***	
1	2544.49	91,298	46,029	21	166	3	170	177	46,036	30,818	5	
2	2544.49	91,298	46,029	24	165	2	191	178	46,023	30,805	6	
3	2544.48	91,258	46,009	21	169	3	173	179	46,009	30,791	5	
4	2544.46	91,180	45,970	32	179	2	174	173	45,969	30,751	8	
5	2544.43	91,062	45,910	47	182	2	171	180	45,918	30,700	12	
6	2544.42	91,022	45,890	33	179	2	194	186	45,890	30,672	8	
7	2544.41	90,983	45,871	19	190	3	193	195	45,873	30,655	5	
8	2544.40	90,944	45,851	19	199	2	200	186	45,839	30,621	5	
9	2544.37	90,826	45,791	19	205	3	167	182	45,794	30,576	5	
10	2544.35	90,747	45,752	22	193	2	178	183	45,760	30,542	6	
11	2544.35	90,747	45,752	24	178	2	204	181	45,737	30,519	6	
12	2544.33	90,669	45,712	28	170	2	160	180	45,717	30,499	7	
13	2544.32	90,630	45,693	24	169	2	176	180	45,702	30,484	6	
14	2544.33	90,669	45,712	20	162	2	203	179	45,697	30,479	5	
15	2544.32	90,630	45,693	19	155	2	157	179	45,700	30,482	5	
16	2544.32	90,630	45,693	24	152	2	178	175	45,697	30,479	6	
17	2544.32	90,630	45,693	24	163	2	189	180	45,688	30,470	6	
18	2544.31	90,590	45,672	24	168	2	173	170	45,664	30,446	6	
19	2544.29	90,512	45,633	16	170	2	149	159	45,635	30,417	4	
20	2544.26	90,395	45,574	28	185	2	156	165	45,585	30,367	7	
21	2544.25	90,356	45,555	24	182	3	190	172	45,548	30,330	6	
22	2544.23	90,278	45,515	19	189	3	171	172	45,509	30,291	5	
23	2544.20	90,161	45,456	24	188	3	156	160	45,454	30,236	6	
24	2544.17	90,044	45,397	28	180	3	152	159	45,402	30,184	7	
25	2544.15	89,966	45,358	24	180	3	168	163	45,358	30,140	6	
26	2544.19	90,122	45,437	16	186	2	283	283	45,437	30,219	4	
27	2544.20	90,161	45,456	22	183	3	227	213	45,442	30,224	6	
28	2544.16	90,005	45,378	21	239	3	185	187	45,366	30,148	5	
29	2544.13	89,888	45,319	14	190	3	148	160	45,319	30,101	4	
30	2544.09	89,732	45,240	16	223	2	162	162	45,240	30,022	4	
31	*****											
TOTAL SECOND FOOT DRY	696	5,439	72	5,398	5,398	176	0	0	89,732	59,548	349	0
TOTAL ACRE-FOOT	1,360	10,788	142	10,707	10,707	89,732	59,548	0	0	0	0	0

By: *Gal* Date: DECEMBER 13, 1989

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR		MIDNIGHT STORAGE		FIRST POINT REGULATED FLOW		CHANGE IN STORAGE		COMPUTED 1ST POINT NATURAL FLOW		MERN STORAGE		KERN COUNTY RECREATION POOL LOSS AT 2ND PT.		FRONT-KERN INFLOW DAY	
	ELEVATION (FEET)	ACRE-FEET	S.F.D.	LOSS	REGULATED FLOW	FLOW ABOVE 1ST PT.	LOSS+1ST POINT+FLOW ABOVE 1ST PT.	1ST POINT NATURAL FLOW	Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 AOFF)	TOTAL IRRIGATION	RECREATION POOL LOSS	2ND POINT GROUP FLOW	FRONT-KERN INFLOW DAY			
End of Previous Month	2544.09	89,732	45,240	***	***	162	***	***	45,240	30,022	***	***	***			
1	2544.05	89,576	45,161	15	238	2	176	176	45,161	29,943	4	0	1			
2	2544.02	89,460	45,103	14	225	1	182	176	45,097	29,879	4	0	2			
3	2543.98	89,305	45,025	17	224	2	165	180	45,034	29,816	4	0	3			
4	2543.95	89,189	44,966	12	239	1	193	170	44,952	29,734	3	0	4			
5	2543.89	88,957	44,849	23	245	2	153	178	44,860	29,642	6	0	5			
6	2543.83	88,725	44,732	15	250	1	189	180	44,734	29,516	4	0	6			
7	2543.76	88,455	44,596	14	319	2	199	198	44,597	29,379	4	0	7			
8	2543.69	88,186	44,460	16	325	1	206	206	44,461	29,243	4	0	8			
9	2543.62	87,917	44,325	22	324	2	213	205	44,318	29,100	6	0	9			
10	2543.55	87,649	44,190	19	312	1	197	198	44,184	28,966	5	0	10			
11	2543.48	87,382	44,055	18	299	2	184	182	44,047	28,829	5	0	11			
12	2543.41	87,115	43,921	15	282	1	164	174	43,923	28,705	4	0	12			
13	2543.35	86,886	43,805	13	273	2	172	179	43,814	28,596	3	0	13			
14	2543.31	86,734	43,728	10	268	1	202	193	43,728	28,510	3	0	14			
15	2543.28	86,620	43,671	10	250	2	205	193	43,659	28,441	3	0	15			
16	2543.26	86,544	43,633	7	201	1	171	179	43,629	28,411	2	0	16			
17	2543.21	86,432	43,576	19	198	2	162	171	43,581	28,363	5	0	17			
18	2543.21	86,356	43,538	10	207	1	180	171	43,534	28,316	3	0	18			
19	2543.19	86,280	43,500	13	195	1	171	178	43,503	28,265	3	0	19			
20	2543.19	86,280	43,500	10	172	2	184	180	43,499	28,281	3	0	20			
21	2543.19	86,280	43,500	10	173	1	184	185	43,500	28,282	3	0	21			
22	2543.19	86,280	43,500	10	176	1	187	183	43,496	28,278	3	0	22			
23	2543.19	86,280	43,500	12	165	2	179	175	43,492	28,274	3	0	23			
24	2543.18	86,242	43,480	15	162	1	158	174	43,488	28,270	4	0	24			
25	2543.19	86,280	43,500	13	152	1	186	158	43,480	28,262	3	0	25			
26	2543.17	86,204	43,461	12	154	2	129	161	43,473	28,255	3	0	26			
27	2543.16	86,167	43,443	28	158	1	169	155	43,441	28,223	7	0	27			
28	2543.15	86,129	43,423	18	166	1	165	169	43,425	28,207	5	0	28			
29	2543.14	86,091	43,404	10	179	2	172	168	43,402	28,184	3	0	29			
30	2543.13	86,053	43,385	7	177	1	166	168	43,385	28,167	2	0	30			
31	2543.11	85,978	43,347	15	179	1	157	157	43,347	28,129	4	0	31			
TOTAL SECOND FOOT DAYS			442	6,927	44	5,520	5,520	5,520	*****	118	0	0				
TOTAL ACRE-FEET		877	13,739	87	10,949	85,978	55,794	234	0	0	0					

By: *[Signature]* Date: JANUARY 11, 1990

