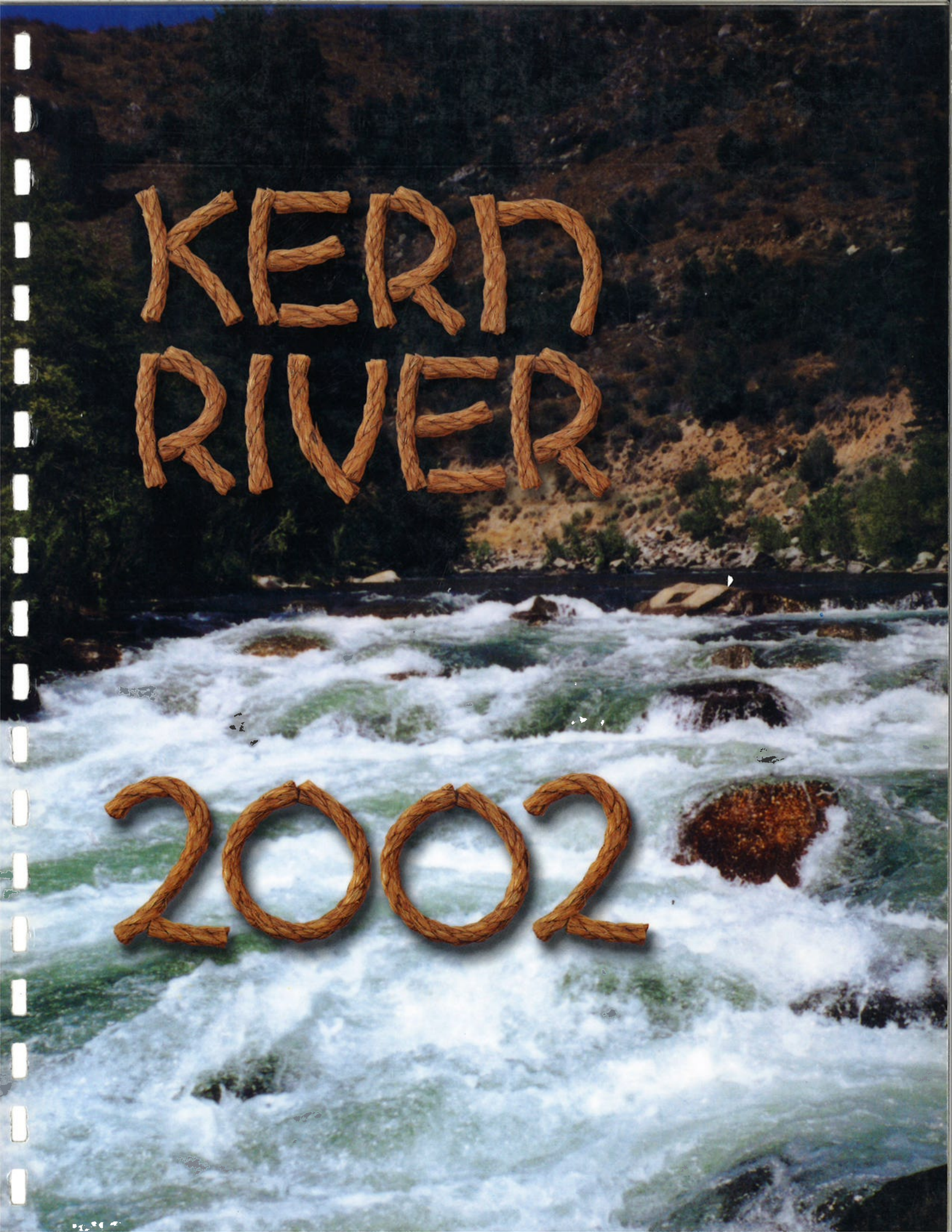
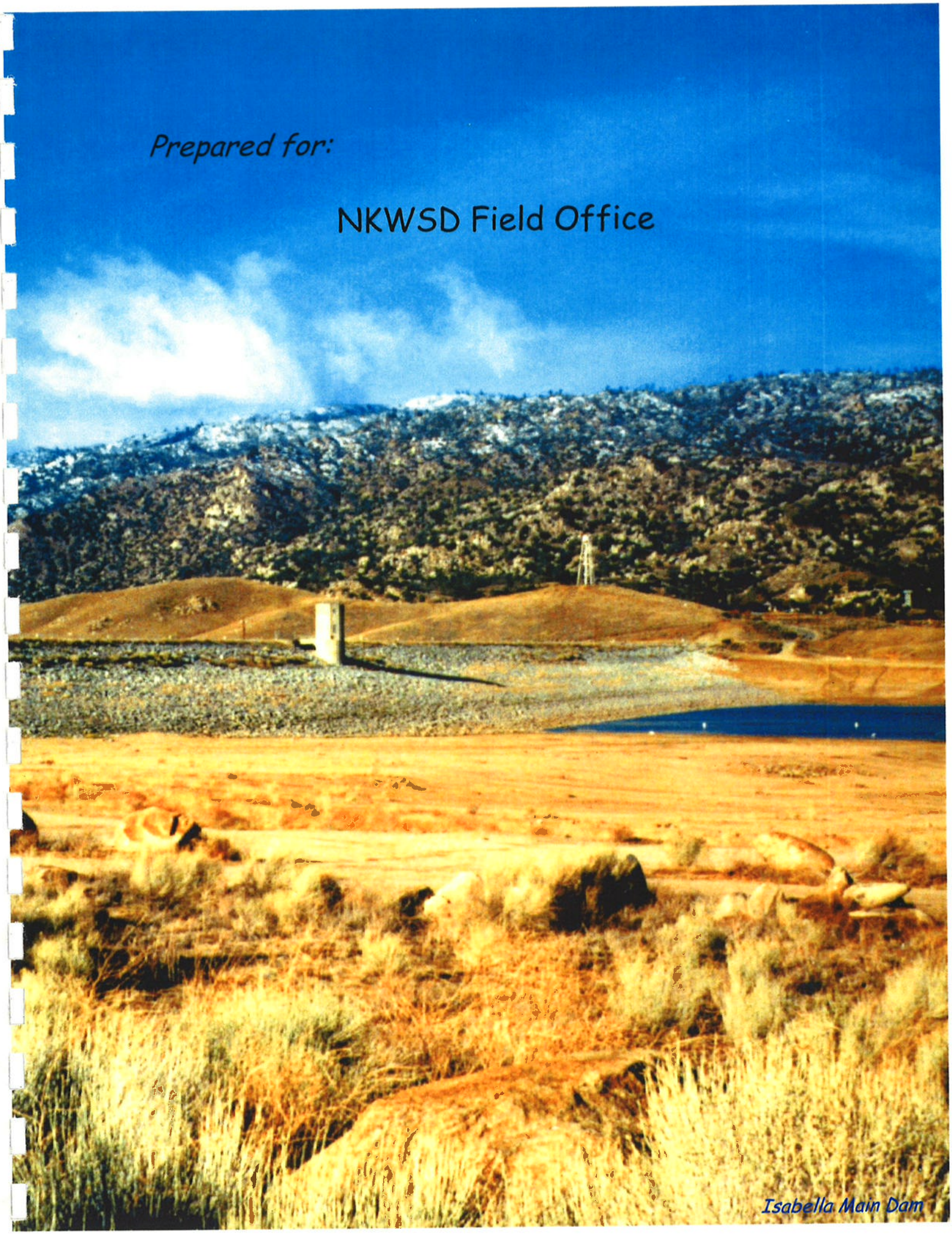

KERN
RIVER
2002

Prepared for:

NKWSD Field Office

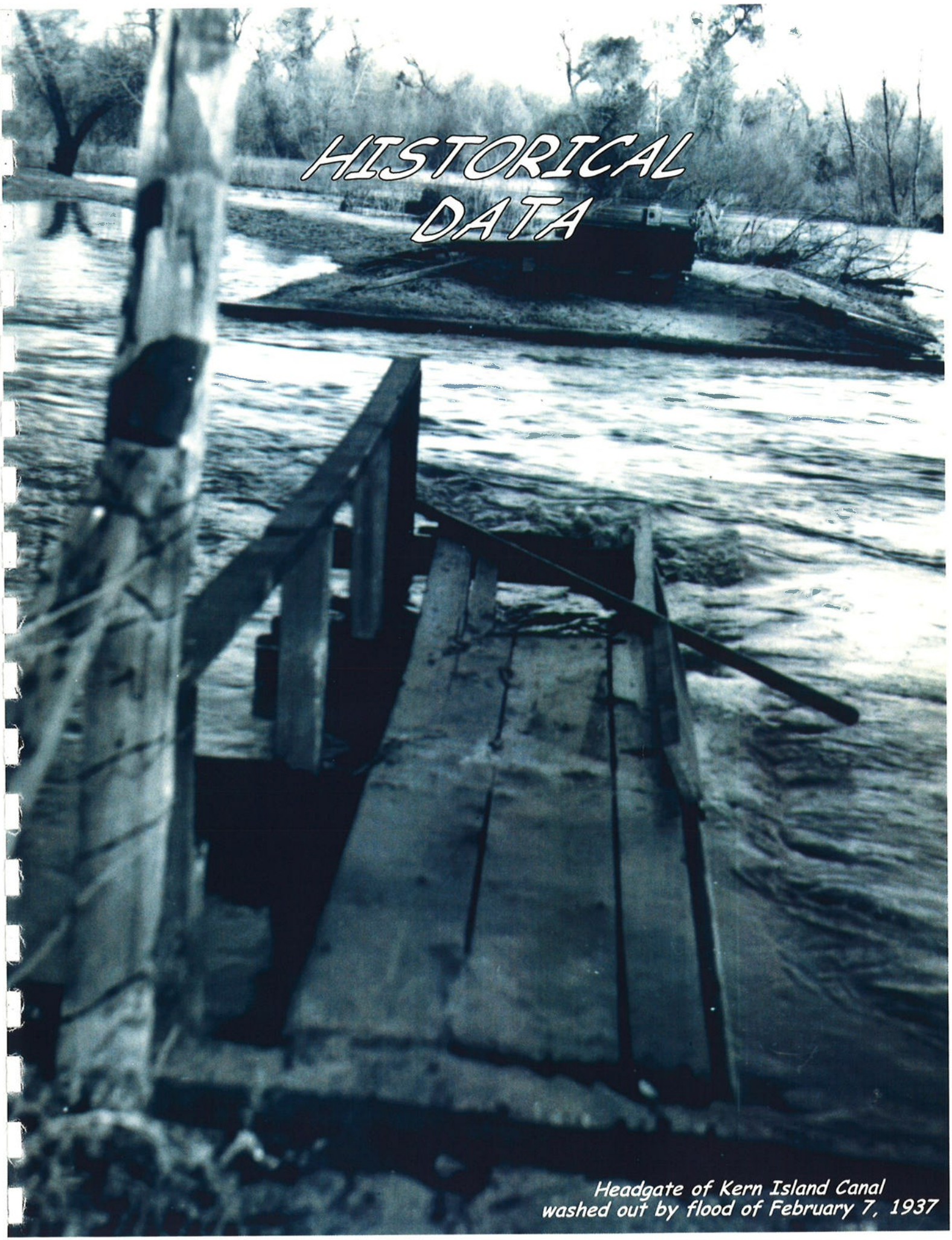


2002
HYDROGRAPHIC ANNUAL REPORT

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HISTORICAL DATA



Headgate of Kern Island Canal
washed out by flood of February 7, 1937

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

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

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

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

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

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

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

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

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

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

HISTORICAL RECAP
KERN RIVER AT FIRST POINT OF MEASUREMENT

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
1991	acre-feet	10,931	9,215	47,341	58,092	79,763	100,423	38,265	14,854	11,040	9,358	13,940	13,067	406,289	--	--	--
	mean s.f.d.	178	166	770	976	1,297	1,688	622	242	186	152	234	213	--	5,025	109	561
1992	acre-feet	14,069	22,314	26,410	55,448	74,394	32,987	16,324	11,942	7,896	9,414	11,054	14,577	296,829	--	--	--
	mean s.f.d.	229	388	430	932	1,210	554	265	194	133	153	186	237	--	1,584	104	409
1993	acre-feet	39,221	39,564	94,231	133,993	200,864	162,420	87,414	32,763	16,506	14,223	14,398	18,163	853,760	--	--	--
	mean s.f.d.	638	712	1,533	2,252	3,267	2,730	1,422	533	277	231	242	295	--	3,957	203	1,179
1994	acre-feet	18,936	23,946	38,592	46,489	67,224	56,223	21,068	11,939	8,981	14,771	12,780	15,507	336,456	--	--	--
	mean s.f.d.	308	431	628	781	1,093	945	343	194	151	240	215	252	--	1,686	121	465
1995	acre-feet	46,832	48,774	156,387	143,244	255,046	293,129	237,802	89,657	39,108	24,093	22,268	28,820	1,385,160	--	--	--
	mean s.f.d.	762	878	2,543	2,407	4,148	4,926	3,867	1,458	657	392	374	469	--	8,420	240	1,913
1996	acre-feet	40,304	98,549	108,042	147,959	225,987	154,883	70,502	32,255	16,651	15,788	40,903	86,438	1,038,261	--	--	--
	mean s.f.d.	655	1,713	1,757	2,487	3,675	2,603	1,147	525	280	257	687	1,406	--	9,024	222	1,430
1997	acre-feet	246,022	104,771	120,448	142,909	214,290	142,358	71,919	38,047	26,039	20,926	23,708	30,532	1,181,969	--	--	--
	mean s.f.d.	4,001	1,887	1,959	2,402	3,485	2,392	1,170	619	438	340	398	497	--	19,794	284	1,633
1998	acre-feet	45,927	136,340	151,329	189,663	308,440	371,835	267,435	94,510	50,959	35,008	33,302	33,219	1,717,967	--	--	--
	mean s.f.d.	747	2,455	2,461	3,187	5,016	6,249	4,349	1,537	856	569	560	540	--	8,477	436	2,373
1999	acre-feet	37,722	38,388	38,495	55,843	95,199	68,733	32,852	17,133	12,547	11,714	12,288	13,057	433,971	--	--	--
	mean s.f.d.	613	691	626	938	1,548	1,155	534	279	211	191	207	212	--	2,077	174	599
2000	acre-feet	19,140	35,096	50,176	67,388	129,406	81,396	28,306	16,610	10,937	12,912	12,764	12,688	476,819	--	--	--
	mean s.f.d.	311	610	816	1,133	2,105	1,368	460	270	184	210	215	206	--	2,910	145	657
2001	acre-feet	15,429	19,004	36,948	58,249	124,417	43,033	24,593	11,558	8,916	9,142	15,293	24,869	391,451	--	--	--
	mean s.f.d.	251	342	601	979	2,023	723	400	188	150	149	257	404	--	2,525	132	541
2002	acre-feet	27,533	21,072	31,603	58,838	69,991	63,775	22,703	10,439	7,720	8,939	73,894	28,189	424,696	--	--	--
	mean s.f.d.	448	379	514	989	1,138	1,072	369	170	130	145	1,242	458	--	10,627	115	587

KERN RIVER AT FIRST POINT OF MEASUREMENT

HISTORICAL MONTHLY NATURAL FLOWS

YEAR: 2002

October 1893 to Date...

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Monthly Flow (acre-feet)	37,490	43,942	65,717	99,601	156,442	139,223	72,666	31,389	18,447	17,452	20,370	27,879	730,618
Mean Monthly Flow (second foot days)	610	784	1,069	1,674	2,544	2,340	1,182	510	310	284	342	453	1,008
Maximum Monthly Flow (acre-feet)	246,022	202,510	378,116	481,749	617,968	571,846	399,841	154,935	68,503	53,300	96,968	313,811	
Year of Occurrence	*1997*	*1916*	*1916*	*1916*	*1969*	*1983*	*1906*	*1983*	*1983*	*1983*	*1950*	*1966*	
Minimum Monthly Flow (acre-feet)	10,931	9,215	14,221	23,391	25,630	14,069	8,225	5,881	5,494	6,817	8,241	9,148	
Year of Occurrence	*1991*	*1991*	*1961*	*1977*	*1977*	*1924*	*1924*	*1924*	*1924*	*1931*	*1931*	*1990*	
Number Months of Record	109	109	109	109	109	109	109	109	109	110	110	110	
Cumulative Monthly Flow (All Months - acre-feet)	4,086,386	4,789,657	7,163,188	10,856,498	17,052,207	15,175,305	7,920,579	3,421,438	2,010,710	1,919,686	2,240,718	3,066,701	
Median Monthly Flow (acre-feet)	23,516	30,819	47,113	75,461	120,740	111,054	48,230	21,638	13,902	14,404	16,065	19,670	542,612
Median Monthly Flow (second foot days)	382	550	766	1,268	1,964	1,866	784	352	234	234	270	320	749

MEAN APRIL - JULY RUNOFF TO DATE = 467,932 AcFt
MEDIAN APRIL - JULY RUNOFF TO DATE = 355,485 AcFt

MEAN MARCH - OCTOBER RUNOFF TO DATE = 600,937 AcFt
MEDIAN MARCH - OCTOBER RUNOFF TO DATE = 452,542 AcFt

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

Acre-foot Quantities In order of Magnitude

Year: 2002

YEAR	APR	MAY	JUN	JUL	TOTAL	% OF AVERAGE
1961	24,137	29,980	24,305	8,952	87,374	19%
1924	28,540	41,722	14,069	8,225	92,556	20%
1977	23,391	25,630	35,655	10,973	95,649	20%
1931	23,440	41,867	24,262	8,493	98,062	21%
1976	25,924	47,151	20,930	14,749	108,754	23%
1990	32,019	38,600	29,345	13,380	113,344	24%
1934	39,919	43,065	21,820	11,341	116,145	25%
1972	28,288	45,965	38,531	14,936	127,720	27%
1959	40,566	39,945	32,061	18,013	130,585	28%
1898	42,248	45,213	32,809	15,033	135,303	29%
1988	39,584	58,350	43,140	20,969	162,043	35%
1960	46,272	58,336	47,181	16,683	168,472	36%
1992	55,448	74,394	32,987	16,324	179,153	38%
1964	42,946	61,521	54,658	23,803	182,928	39%
1994	46,489	67,224	56,223	21,068	191,004	41%
1928	37,757	76,885	60,344	18,716	193,702	41%
1900	28,102	68,295	76,366	24,125	196,888	42%
1949	50,517	84,508	57,685	17,201	209,911	45%
1987	55,236	75,108	56,146	24,918	211,408	45%
1913	42,494	73,561	60,738	34,929	211,722	45%
1899	53,133	51,353	79,178	30,046	213,710	46%
2002	**58,838**	**69,991**	**63,775**	**22,703**	**215,307**	**46%**
1929	39,064	85,995	63,487	30,986	219,532	47%
1966	68,779	82,336	45,431	23,347	219,893	47%
1955	37,567	69,544	86,660	31,014	224,785	48%
1930	53,506	67,851	82,824	28,401	232,582	50%
1926	66,079	98,598	49,530	18,575	232,782	50%
1989	91,380	71,849	49,823	21,378	234,430	50%
1948	43,976	86,108	78,565	31,331	239,980	51%
1971	52,661	66,635	82,707	42,472	244,475	52%
1968	65,584	87,991	64,054	30,690	248,319	53%
1947	60,353	110,325	57,778	21,116	249,572	53%
2001	58,249	124,417	43,033	24,593	250,292	53%
1912	37,246	80,471	100,925	33,170	251,812	54%
1999	55,843	95,199	68,733	32,852	252,627	54%
1981	69,320	91,914	65,817	25,630	252,681	54%
1908	79,320	79,418	60,305	41,851	260,894	56%
1951	48,914	85,039	88,990	38,941	261,884	56%
1939	92,136	92,253	58,400	25,480	268,269	57%
1991	58,092	79,763	100,423	38,265	276,543	59%
1957	38,644	79,355	132,359	41,988	292,346	62%
1894	88,974	98,801	64,564	43,061	295,400	63%
1933	57,265	60,026	125,395	56,898	299,584	64%
1950	76,155	98,483	90,367	34,901	299,906	64%
2000	67,388	129,406	81,396	28,306	306,496	66%
1925	56,408	102,016	96,252	58,437	313,113	67%
1904	59,812	113,205	103,904	39,725	316,646	68%
1970	63,513	110,057	95,700	50,138	319,408	68%
1921	51,723	100,096	120,387	49,119	321,325	69%
1953	70,730	86,019	103,164	69,657	329,570	70%
1923	73,355	120,849	82,528	55,800	332,532	71%
1918	74,513	78,722	136,753	44,828	334,816	72%
1919	86,574	140,215	81,844	34,364	342,997	73%
1935	71,042	103,787	133,634	42,184	350,647	75%
1910	102,883	127,733	79,464	42,046	352,126	75%

YEAR	APR	MAY	JUN	JUL	TOTAL	% OF AVERAGE
1954	101,203	139,719	73,553	39,642	354,117	76%
1905	62,047	117,748	132,766	53,835	366,396	78%
1896	57,864	86,174	146,124	82,760	372,922	80%
1975	46,602	147,001	140,660	51,917	386,180	83%
1902	107,403	109,904	128,853	43,436	389,596	83%
1946	109,658	155,476	85,880	39,733	390,747	84%
1903	74,315	132,097	139,222	53,355	398,989	85%
1944	80,223	150,109	115,862	59,197	405,391	87%
1979	102,079	164,935	106,112	46,733	419,859	90%
1984	91,359	161,613	93,114	77,046	423,132	90%
1985	136,241	146,799	99,858	41,395	424,293	91%
1920	83,370	158,904	137,840	50,699	430,813	92%
1915	80,916	124,506	172,324	77,496	455,242	97%
1965	80,043	131,980	149,357	95,288	456,668	98%
1963	69,412	137,839	163,944	105,384	476,579	102%
1940	118,175	196,465	145,503	50,471	510,614	109%
1962	147,463	135,884	157,253	74,874	515,474	110%
1927	100,362	184,721	161,153	75,481	521,717	111%
1942	112,586	150,036	178,754	81,529	522,905	112%
1956	97,553	159,683	168,876	99,529	525,641	112%
1932	111,273	154,742	166,404	94,013	526,432	113%
1974	114,113	183,733	167,740	69,580	535,166	114%
1917	126,329	165,062	187,638	81,275	560,304	120%
1997	142,909	214,290	142,358	71,919	571,476	122%
1936	157,290	219,404	137,028	67,902	581,624	124%
1901	83,190	186,446	197,792	114,613	582,041	124%
1993	133,993	200,864	162,420	87,414	584,691	125%
1945	131,246	205,509	169,002	91,593	597,350	128%
1996	147,959	225,987	154,883	70,502	599,331	128%
1922	84,407	242,259	202,395	88,649	617,710	132%
1897	173,393	281,639	137,393	61,837	654,262	140%
1907	197,720	199,950	183,995	97,083	678,748	145%
1914	144,934	210,676	201,064	128,338	685,012	146%
1895	162,071	268,635	172,890	91,133	694,729	148%
1943	198,736	254,785	155,650	88,011	697,182	149%
1911	138,113	184,481	222,076	156,498	701,168	150%
1973	110,892	288,652	230,390	93,834	723,768	155%
1982	212,963	254,985	198,748	130,098	796,794	170%
1958	168,105	316,974	230,866	115,724	831,669	178%
1937	183,505	352,050	225,395	91,097	852,047	182%
1986	208,147	293,335	263,794	121,398	886,674	189%
1967	99,509	269,631	311,063	243,802	924,005	197%
1995	143,244	255,046	293,129	237,802	929,221	199%
1938	223,928	315,044	291,880	130,917	961,769	206%
1980	211,608	287,825	282,877	208,715	991,025	212%
1941	124,615	386,666	309,960	174,416	995,657	213%
1978	181,700	363,157	354,825	194,693	1,094,375	234%
1952	222,633	434,769	302,557	159,856	1,119,815	239%
1998	189,663	308,440	371,835	267,435	1,137,373	243%
1909	247,402	382,617	394,086	194,870	1,218,975	261%
1906	173,143	360,234	458,418	399,841	1,391,636	297%
1983	206,473	478,625	571,846	288,866	1,545,810	330%
1916	481,749	472,994	391,700	225,154	1,571,597	336%
1969	378,333	617,968	496,796	254,777	1,747,874	374%
MAXIMUM	481,749	617,968	571,846	399,841	1,747,874	
MINIMUM	23,391	25,630	14,069	8,225	87,374	
AVERAGE	99,601	156,442	139,223	72,666	467,932	

Kern River Mean Natural Flow at First Point of Measurement

DISCHARGE IN CUBIC FEET PER SECOND (1893 to Date) Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	462	739	867	1,307	2,138	2,711	1,700	724	368	301	291	356
2	512	704	900	1,313	2,164	2,680	1,680	701	364	298	289	358
3	605	661	978	1,330	2,203	2,662	1,655	684	361	295	286	374
4	509	615	955	1,324	2,264	2,654	1,627	668	352	292	283	396
5	500	616	984	1,355	2,308	2,662	1,570	642	366	285	285	502
6	477	675	946	1,382	2,348	2,669	1,524	627	370	292	285	1,099
7	469	804	904	1,401	2,377	2,668	1,478	611	346	283	288	524
8	474	750	920	1,427	2,420	2,643	1,432	597	334	289	363	432
9	457	792	1,005	1,454	2,457	2,593	1,390	582	323	289	383	438
10	470	762	1,047	1,482	2,483	2,572	1,350	572	313	285	322	447
11	491	695	1,051	1,581	2,487	2,534	1,301	563	308	282	323	459
12	550	710	1,003	1,598	2,488	2,514	1,265	550	312	279	319	442
13	569	820	1,008	1,591	2,513	2,496	1,235	525	302	279	312	419
14	668	811	1,018	1,608	2,538	2,461	1,212	506	292	275	315	393
15	589	805	988	1,630	2,556	2,427	1,174	499	291	275	310	390
16	601	781	1,021	1,672	2,575	2,377	1,148	495	286	276	311	386
17	589	803	1,049	1,692	2,603	2,344	1,116	483	284	282	320	389
18	658	903	1,111	1,722	2,636	2,303	1,087	481	281	279	335	379
19	629	903	1,102	1,764	2,672	2,266	1,054	478	275	278	465	372
20	590	893	1,095	1,814	2,672	2,231	1,027	465	275	280	415	370
21	598	838	1,132	1,859	2,673	2,196	992	446	276	278	370	377
22	691	840	1,120	1,897	2,682	2,161	962	428	276	275	380	406
23	710	863	1,125	1,911	2,674	2,114	947	419	274	276	366	536
24	717	836	1,137	1,929	2,683	2,052	947	405	273	275	387	486
25	954	837	1,185	1,949	2,704	1,999	905	395	290	273	389	484
26	929	830	1,209	1,984	2,748	1,936	876	382	331	280	366	461
27	772	834	1,243	2,009	2,754	1,892	855	381	306	284	380	495
28	723	821	1,249	2,054	2,757	1,842	826	383	289	286	374	471
29	641	869	1,248	2,071	2,773	1,793	793	383	293	287	364	459
30	619	-	1,248	2,105	2,766	1,740	770	378	289	293	394	503
31	678	-	1,284	-	2,757	-	738	372	-	298	-	453
TOTAL	18,901	22,154	33,132	50,215	78,873	70,192	36,636	15,825	9,300	8,799	10,270	14,056
MAXIMUM DAY	954	903	1,284	2,105	2,773	2,711	1,700	724	370	301	465	1,099
MINIMUM DAY	457	615	867	1,307	2,138	1,740	738	372	273	273	283	356
MEAN	610	784	1,069	1,674	2,544	2,340	1,182	510	310	284	342	453
TOTAL AC. FT.	37,490	43,942	65,717	99,601	156,442	139,223	72,666	31,389	18,447	17,452	20,370	27,879

WHOLE YEAR:- TOTAL, 368,353 MAX., 2,773 MIN., 273 MEAN, 1,008 TOTAL AC.FT., 730,618

DISCHARGE IN CUBIC FEET PER SECOND

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

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	347	441	616	1,018	1,621	2,130	1,281	482	262	232	245	293
2	346	429	635	1,005	1,655	2,201	1,142	463	253	231	255	283
3	345	452	647	994	1,661	2,210	1,130	463	256	227	251	307
4	352	459	650	998	1,717	2,146	1,115	459	258	238	250	319
5	353	463	700	1,050	1,698	2,073	1,069	431	254	227	257	324
6	364	480	675	1,108	1,722	2,131	1,041	425	257	224	252	327
7	368	492	648	1,198	1,708	2,405	969	412	257	230	256	317
8	371	523	629	1,199	1,765	2,229	917	417	248	231	257	313
9	379	541	650	1,214	1,880	2,189	905	388	246	231	259	310
10	365	554	633	1,241	1,919	2,122	856	381	245	230	263	304
11	375	550	648	1,186	1,903	2,275	826	367	234	225	263	311
12	386	560	661	1,180	1,905	2,284	823	359	241	226	268	312
13	385	582	622	1,213	2,002	2,189	825	366	232	231	269	317
14	391	562	672	1,249	1,947	2,184	814	349	225	229	272	319
15	372	537	694	1,177	1,941	2,069	770	340	232	230	271	319
16	384	570	689	1,217	1,906	1,954	731	346	238	230	269	327
17	373	612	706	1,235	2,061	1,842	719	331	230	234	269	323
18	372	609	728	1,265	2,147	1,801	717	324	226	237	276	312
19	382	597	790	1,296	2,141	1,683	684	318	219	243	281	318
20	388	594	813	1,322	2,073	1,602	701	308	217	241	283	319
21	386	577	879	1,360	2,011	1,570	681	306	221	237	268	315
22	388	581	843	1,405	2,040	1,609	634	293	223	233	275	320
23	383	575	876	1,430	2,048	1,534	608	302	218	236	284	337
24	417	581	871	1,467	2,086	1,439	596	306	212	234	288	328
25	412	601	900	1,463	2,111	1,439	600	296	211	234	294	334
26	397	605	953	1,515	2,073	1,431	575	281	222	240	288	322
27	404	622	999	1,485	2,162	1,333	550	291	215	249	285	325
28	403	636	986	1,511	2,193	1,301	526	277	216	246	281	338
29	403	642	964	1,504	2,284	1,346	510	277	216	246	285	337
30	422	-	973	1,540	2,250	1,269	519	277	225	242	289	342
31	443	-	1,003	-	2,243	-	482	274	-	246	-	354
TOTAL	11,856	15,538	23,753	38,045	60,873	55,990	24,316	10,909	7,009	7,262	8,100	9,917
MAXIMUM DAY	443	642	1,003	1,540	2,284	2,405	1,281	482	262	249	294	354
MINIMUM DAY	345	429	616	994	1,621	1,269	482	274	211	224	245	283
MEAN	382	550	766	1,268	1,964	1,866	784	352	234	234	270	320
TOTAL AC. FT.	23,516	30,819	47,113	75,461	120,740	111,054	48,230	21,638	13,902	14,404	16,065	19,670

WHOLE YEAR:- TOTAL, 273,568 MAX., 2,405 MIN., 211 MEAN, 749 TOTAL AC.FT., 542,612

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

RECAPITULATION IN ACRE-FEET

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1954	22,019	30,361	44,575	79,089	80,539	81,189	61,059	39,830	22,114	14,450	17,500	17,595	510,320
1955	19,795	22,058	34,671	38,874	48,188	72,196	43,259	25,065	12,936	10,399	13,599	26,743	367,783
1956	41,377	40,326	62,779	49,291	94,887	115,428	124,007	99,489	52,098	42,294	16,990	16,534	755,500
1957	17,958	22,425	34,935	39,677	52,885	96,466	70,175	39,943	22,471	17,282	13,795	17,847	445,859
1958	19,137	28,175	42,125	78,472	131,421	181,305	187,890	143,722	61,519	49,825	25,095	18,825	967,511
1959	20,811	20,991	37,767	29,936	27,463	94,028	59,817	22,699	10,524	8,700	9,786	10,643	353,165
1960	12,516	17,405	24,044	25,041	47,986	81,481	38,991	26,386	13,154	10,483	13,803	12,798	324,088
1961	11,280	10,736	14,017	16,318	16,780	19,321	25,222	21,316	13,404	7,267	9,281	12,121	177,063
1962	13,121	27,435	44,838	95,445	87,187	112,437	113,318	40,778	26,164	22,623	12,448	12,054	607,848
1963	12,067	24,175	32,959	38,914	54,756	80,063	127,710	118,179	68,368	64,828	31,174	23,044	676,237
1964	20,356	21,152	28,532	27,485	28,451	76,268	71,078	31,323	10,989	8,852	14,259	22,879	361,624
1965	35,784	35,907	41,383	39,399	61,313	85,934	96,236	75,497	52,397	47,220	34,356	28,877	634,303
1966	29,978	22,752	50,933	44,634	37,289	67,486	68,338	51,110	19,535	14,739	15,265	82,447	504,506
1967	**146,180**	40,516	57,923	82,732	190,249	200,743	183,566	**240,154**	146,509	85,002	56,799	35,482	1,465,855
1968	33,088	36,284	44,904	45,035	52,156	88,046	82,937	56,584	13,656	13,886	16,365	14,085	497,026
1969	50,499	106,247	**237,265**	**378,817**	332,015	374,787	263,903	221,738	121,359	102,494	90,523	34,122	2,313,769
1970	42,299	32,206	52,489	60,101	53,698	86,904	94,112	88,421	35,667	21,285	18,228	15,844	601,254
1971	25,978	35,520	48,589	30,809	31,950	57,322	82,128	64,643	23,520	12,184	12,839	17,169	442,651
1972	19,527	22,094	32,130	29,760	32,410	44,965	47,996	31,579	11,560	10,286	12,460	16,524	311,291
1973	21,356	26,214	38,878	66,541	97,172	143,554	161,028	102,660	47,883	29,457	24,811	25,579	785,133
1974	35,447	45,969	49,248	47,151	57,477	96,807	120,476	109,093	69,648	54,365	37,085	23,137	745,903
1975	21,221	34,844	45,041	38,444	57,142	95,197	108,932	89,738	34,139	17,072	15,108	15,213	572,091
1976	14,690	19,008	31,789	23,609	28,901	52,300	54,190	30,742	21,828	19,440	12,946	11,341	320,784
1977	14,051	14,380	15,925	18,778	17,431	25,813	32,951	21,888	8,765	7,660	8,287	14,773	200,702
1978	26,132	50,285	49,222	149,450	266,073	236,549	198,587	146,660	73,234	93,098	70,927	30,458	1,390,675
1979	32,549	31,793	45,903	46,508	62,557	109,987	126,343	107,605	32,267	22,792	18,855	18,909	656,068
1980	55,976	81,590	157,503	185,089	167,415	194,134	238,716	200,338	106,516	82,893	61,644	28,838	1,560,652
1981	25,482	27,013	40,594	41,768	46,348	78,405	80,906	51,310	14,315	14,324	18,426	21,578	460,469
1982	30,363	43,374	49,110	57,060	86,469	155,508	166,492	156,341	88,411	104,122	**101,403**	82,435	1,121,088
1983	57,566	71,165	152,862	286,605	**370,706**	**419,760**	**387,505**	176,194	**153,814**	**117,233**	97,616	**90,549**	**2,381,575**
1984	84,280	96,998	68,614	49,793	67,327	89,409	110,785	96,734	43,180	41,726	37,420	47,770	834,036
1985	40,133	48,686	53,821	56,358	72,506	98,757	111,385	77,728	34,973	25,305	20,333	28,986	668,971
1986	31,277	39,039	95,946	172,221	205,204	233,197	193,767	141,114	67,569	82,792	45,227	24,208	1,331,561
1987	24,117	28,919	43,408	44,894	43,609	68,424	73,047	42,545	18,589	15,824	14,269	14,664	432,309
1988	20,793	26,906	35,036	33,769	31,815	50,995	60,456	28,346	13,529	9,025	10,318	14,483	335,473
1989	16,869	21,568	32,092	38,575	39,632	56,527	55,765	36,204	14,241	12,773	10,788	13,739	348,773
1990	12,926	16,124	25,071	24,422	25,454	30,030	31,129	21,519	6,885	8,979	8,037	8,925	219,501
1991	10,627	9,112	27,814	28,937	30,539	62,997	63,654	48,196	12,490	11,353	13,381	14,394	333,494
1992	13,593	20,711	25,451	25,777	33,548	38,600	40,967	31,928	10,195	7,789	10,383	13,880	272,822
1993	22,062	25,426	52,479	45,489	63,322	107,357	118,677	88,671	51,846	34,725	14,021	18,264	642,339
1994	19,622	28,720	41,819	41,256	35,411	69,470	75,175	53,484	16,072	13,745	12,060	15,527	422,361
1995	19,839	20,858	57,225	113,865	138,034	186,960	195,546	205,924	102,593	71,157	57,106	27,993	1,197,100
1996	28,994	34,576	47,226	59,046	148,419	153,050	147,913	113,232	64,770	43,593	45,201	82,016	968,036
1997	63,352	**142,831**	158,678	95,933	120,789	133,315	133,724	108,452	55,240	42,278	46,977	31,894	1,133,463
1998	45,636	93,987	97,468	132,317	239,423	284,408	239,607	200,713	114,224	89,980	93,054	31,739	1,662,556
1999	32,523	40,907	29,209	29,480	38,071	64,411	78,924	64,167	36,405	20,473	10,848	16,203	461,621
2000	19,946	23,320	33,834	46,580	49,204	81,023	83,659	59,577	26,533	20,340	12,260	16,260	472,536
2001	13,936	17,643	26,364	29,679	41,423	73,624	61,618	42,432	21,410	15,588	13,259	18,793	375,769
2002	25,339	19,898	26,465	28,300	34,740	54,714	58,163	36,317	16,197	13,351	20,063	23,613	357,160
MAXIMUM	**146,180**	**142,831**	**237,265**	**378,817**	**370,706**	**419,760**	**387,505**	**240,154**	**153,814**	**117,233**	**101,403**	**90,549**	**2,381,575**
MINIMUM	**10,627**	**9,112**	**14,017**	**16,318**	**16,780**	**19,321**	**25,222**	**21,316**	**6,885**	**7,267**	**8,037**	**8,925**	**177,063**
AcFt TOTAL	**1,474,467**	**1,798,629**	**2,620,953**	**3,287,523**	**4,177,784**	**5,561,651**	**5,451,831**	**4,128,308**	**2,115,705**	**1,707,351**	**1,396,678**	**1,261,794**	**34,982,674**
AcFt AVERAGE	**30,091**	**36,707**	**53,489**	**67,092**	**85,261**	**113,503**	**111,262**	**84,251**	**43,178**	**34,844**	**28,504**	**25,751**	**713,933**
S.F.D. AVERAGE	**489**	**655**	**870**	**1,128**	**1,387**	**1,907**	**1,810**	**1,370**	**726**	**567**	**479**	**419**	**984**
% OF TOTAL	**4.22%**	**5.14%**	**7.49%**	**9.40%**	**11.94%**	**15.90%**	**15.58%**	**11.80%**	**6.05%**	**4.88%**	**3.99%**	**3.61%**	**100.00%**

Kern River Mean Regulated Flow at First Point of Measurement

DISCHARGE IN CUBIC FEET PER SECOND (1954 to Date) Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	464	538	811	964	1,284	1,556	1,932	1,570	921	659	472	443
2	473	553	801	986	1,301	1,605	1,885	1,547	900	670	465	412
3	460	572	807	992	1,298	1,658	1,887	1,554	881	657	466	399
4	454	575	821	989	1,327	1,711	1,853	1,547	866	644	470	405
5	453	574	819	996	1,328	1,747	1,876	1,561	837	639	474	416
6	453	586	816	992	1,327	1,768	1,895	1,570	811	662	479	494
7	456	587	823	1,014	1,323	1,808	1,904	1,548	791	633	474	421
8	454	591	821	1,048	1,351	1,834	1,919	1,528	774	619	477	408
9	446	688	818	1,082	1,362	1,858	1,921	1,544	756	618	483	405
10	437	666	843	1,105	1,359	1,874	1,906	1,544	744	609	485	402
11	435	627	872	1,117	1,342	1,891	1,883	1,535	736	588	497	399
12	439	623	845	1,124	1,357	1,912	1,876	1,505	721	558	495	405
13	449	636	854	1,126	1,358	1,931	1,862	1,482	711	556	499	399
14	455	657	844	1,134	1,352	1,955	1,872	1,456	708	554	483	395
15	457	654	862	1,151	1,336	1,959	1,876	1,442	701	546	480	401
16	482	646	868	1,156	1,342	1,982	1,865	1,437	700	536	484	397
17	483	644	875	1,163	1,341	2,038	1,833	1,409	696	522	490	404
18	492	653	865	1,162	1,358	2,051	1,794	1,416	680	531	481	422
19	500	665	865	1,175	1,377	2,049	1,779	1,383	667	534	483	420
20	496	707	883	1,168	1,415	2,020	1,744	1,345	658	538	485	417
21	495	705	902	1,168	1,433	2,033	1,776	1,311	656	539	487	416
22	495	718	906	1,173	1,446	2,047	1,761	1,260	658	531	480	418
23	503	754	914	1,188	1,454	2,031	1,753	1,238	660	529	469	414
24	541	748	919	1,211	1,457	2,048	1,731	1,212	657	527	456	421
25	564	731	920	1,219	1,454	2,037	1,711	1,179	654	530	471	420
26	588	735	925	1,228	1,443	2,016	1,707	1,139	649	523	479	420
27	572	745	933	1,242	1,448	1,954	1,695	1,114	647	515	477	434
28	549	760	934	1,237	1,454	1,937	1,673	1,085	643	507	481	440
29	535	675	916	1,246	1,477	1,965	1,661	1,046	652	508	474	438
30	542	-	936	1,269	1,517	1,949	1,650	1,005	634	502	475	443
31	549	-	949	-	1,565	-	1,615	964	-	483	-	455
TOTAL	15,171	18,507	26,967	33,825	42,986	57,224	56,095	42,476	21,769	17,567	14,371	12,983
MAXIMUM INSTANT.	3,331	8,280	5,691	7,394	6,675	7,576	7,327	4,694	3,126	7,000	2,275	9,289
MINIMUM INSTANT.	111	67	143	86	223	215	349	84	64	40	66	22
MEAN	489	655	870	1,128	1,387	1,907	1,810	1,370	726	567	479	419
TOTAL AC. FT.	30,091	36,707	53,489	67,092	85,261	113,503	111,262	84,251	43,178	34,844	28,504	25,751

WHOLE YEAR:- TOTAL, 359,941 MAX., 9,289 MIN., 22 MEAN, 984 TOTAL AC.FT., 713,933

ACCRETIONS TO KERN RIVER BELOW ISABELLA DAM

APRIL 1954 TO DATE

Quantities in acre-feet except where noted...

Year: 2002

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1954				4,038	2,977	1,479	3,897	2,559	514	626	966	1,870	
1955	2,358	1,921	1,821	2,386	1,390	3,298	1,929	402	(314)	551	1,065	2,524	19,331
1956	5,828	1,732	2,448	2,860	2,366	1,406	2,347	3,061	1,119	5,799	1,356	1,452	31,774
1957	2,114	886	1,097	169	1,251	397	918	1,114	(369)	48	743	1,057	9,425
1958	1,494	2,918	6,644	14,550	4,681	(801)	(4,348)	5,125	1,735	222	1,168	1,289	34,677
1959	1,299	1,068	1,544	1,073	540	(936)	3,318	119	(383)	(880)	438	797	7,997
1960	1,071	2,739	1,633	1,581	92	1,601	1,311	1,559	149	502	1,060	1,099	14,397
1961	815	757	914	971	787	126	264	814	734	257	673	1,196	8,308
1962	1,085	6,284	5,125	7,050	4,778	2,709	2,271	1,753	633	1,041	835	816	34,380
1963	1,005	2,190	1,900	1,827	3,826	1,339	2,855	4,520	2,424	2,710	2,045	1,936	28,577
1964	1,692	472	2,378	3,237	1,275	2,408	1,793	577	346	432	926	2,729	18,265
1965	3,172	1,460	2,608	4,776	811	(367)	151	(2,100)	(46)	1,941	1,036	2,285	15,727
1966	2,286	997	1,303	2,095	803	(63)	1,229	1,932	(58)	1,214	1,740	**14,810**	28,288
1967	3,856	3,320	3,094	3,945	1,998	7,531	5,736	10,549	1,517	1,296	2,619	2,688	48,149
1968	1,870	1,300	1,400	1,224	1,383	1,757	2,220	1,993	418	936	1,687	2,428	18,616
1969	**19,079**	17,945	23,687	**40,391**	20,384	11,064	**18,659**	**17,163**	5,750	2,480	2,457	3,381	182,440
1970	4,742	2,450	3,028	1,168	186	2,916	869	1,434	739	655	2,794	1,814	22,795
1971	2,309	1,547	1,202	1,459	2,154	1,500	808	707	211	156	785	1,833	14,671
1972	1,634	1,204	975	1,003	501	844	180	42	16	777	222	1,075	8,473
1973	3,146	4,182	7,686	7,394	6,123	3,811	1,882	3,879	4,168	1,982	1,890	2,699	48,842
1974	4,393	2,003	5,145	6,054	1,704	1,011	817	2,357	3,055	2,717	2,303	2,894	34,453
1975	704	1,299	2,925	2,641	4,023	2,265	1,565	55	699	497	189	746	17,608
1976	1,646	1,503	1,373	1,562	386	1,675	833	821	1,914	1,679	1,172	1,120	15,684
1977	1,174	1,652	1,844	954	1,124	1,087	622	1,001	683	184	260	2,130	12,715
1978	4,577	26,353	12,041	11,512	11,745	4,945	7,597	736	2,682	1,438	2,039	1,656	87,321
1979	1,724	3,158	5,330	2,675	1,718	494	(415)	234	516	1,428	476	1,544	18,882
1980	6,814	9,429	8,860	7,525	3,543	7,595	9,802	8,239	(86)	2	(58)	1,426	63,091
1981	2,861	1,313	2,041	1,858	1,129	140	148	1,786	958	764	459	1,798	15,255
1982	3,805	3,501	7,352	10,277	1,973	3,885	5,471	3,876	1,128	1,256	1,897	4,141	48,562
1983	6,887	17,322	**37,912**	24,107	12,710	4,711	3,097	2,414	**7,454**	**6,473**	**5,718**	9,390	138,195
1984	7,549	5,329	5,418	3,381	2,701	2,213	4,495	3,970	1,434	328	1,460	3,897	42,175
1985	3,759	3,640	3,865	2,714	(625)	(593)	2,697	517	279	1,497	2,264	3,501	23,515
1986	3,734	6,350	8,619	9,540	9,416	13,375	13,999	11,019	2,280	2,850	2,957	2,192	86,331
1987	3,123	2,239	3,822	738	2,535	1,611	1,486	1,149	696	901	418	669	19,387
1988	713	764	1,228	(51)	(15)	495	(485)	100	534	415	1,042	870	5,610
1989	551	962	3,415	1,188	2,049	1,464	(716)	671	(3)	376	150	973	11,080
1990	1,471	1,278	1,669	42	298	59	(1,580)	228	170	571	763	1,300	6,269
1991	1,351	683	3,099	2,983	849	(236)	376	662	(66)	(26)	1,205	1,429	12,309
1992	1,384	2,297	1,800	1,196	(294)	(288)	16	267	352	(222)	(433)	1,183	7,258
1993	3,131	3,757	4,177	2,110	(1,854)	(1,528)	(638)	(1,789)	366	903	308	1,019	9,962
1994	604	1,351	446	226	(1,152)	(367)	258	746	(89)	208	537	1,435	4,203
1995	4,978	2,805	10,025	5,664	10,025	11,210	10,055	11,347	1,380	2,463	1,784	3,132	74,868
1996	3,627	10,773	8,346	4,362	7,908	3,906	2,628	2,405	531	716	1,360	5,573	52,135
1997	14,168	9,981	7,447	911	2,616	4,619	809	(1,658)	2,448	(1,509)	(1,397)	4,441	42,876
1998	5,482	**34,907**	24,539	25,855	**30,900**	**25,533**	16,059	12,476	4,730	(121)	155	3,425	**183,940**
1999	3,772	4,820	3,236	3,148	1,092	1,033	1,516	2,094	624	1,088	122	690	23,235
2000	1,637	3,112	3,640	517	(688)	(562)	543	1,896	(3)	795	803	801	12,491
2001	1,144	1,377	1,200	1,240	(807)	1,613	821	250	(385)	(428)	437	1,202	7,664
2002	2,359	1,163	1,307	514	(1,096)	(111)	1,145	757	(251)	(17)	2,010	1,860	9,640
Total	159,977	220,493	252,608	238,640	162,219	133,273	131,310	125,828	53,333	49,971	56,905	116,215	1,700,772
Maximum	19,079	34,907	37,912	40,391	30,900	25,533	18,659	17,163	7,454	6,473	5,718	14,810	183,940
Minimum	551	472	446	(51)	(1,854)	(1,528)	(4,348)	(2,100)	(385)	(1,509)	(1,397)	669	
Mean	3,333	4,594	5,263	4,870	3,311	2,720	2,680	2,568	1,088	1,020	1,161	2,372	34,979
Mean CFS	*54*	*82*	*86*	*82*	*54*	*46*	*44*	*42*	*18*	*17*	*20*	*39*	*48*

MIDNIGHT STORAGE IN ACRE-FEET

Isabella Reservoir Daily Mean Storage (1954-2002)

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	152,717	164,541	175,047	188,049	216,543	284,094	300,736	256,821	202,165	176,163	156,747	148,635
2	152,961	164,935	175,438	188,834	218,152	286,202	300,122	255,090	201,022	175,350	156,331	148,529
3	153,649	165,052	175,766	189,537	219,764	288,165	299,441	253,265	199,889	174,371	155,921	148,586
4	153,966	165,130	176,215	190,186	221,461	289,935	298,766	251,410	198,799	173,800	155,500	148,549
5	154,219	165,230	176,785	190,798	223,114	291,652	297,929	249,481	197,852	173,025	155,049	149,025
6	154,368	165,365	177,131	191,436	224,877	293,265	297,010	247,490	196,968	172,221	154,623	151,992
7	154,505	165,548	177,392	192,040	226,618	294,861	295,990	245,532	196,042	171,472	154,194	152,593
8	154,645	165,853	177,717	192,579	228,370	296,284	294,836	243,638	195,109	170,715	154,118	152,753
9	154,745	166,329	178,002	193,174	230,239	297,561	293,615	241,628	194,173	169,966	154,103	152,835
10	154,864	166,780	178,376	193,769	232,256	298,745	292,347	239,623	193,229	169,225	153,814	152,946
11	155,054	167,017	178,846	194,703	234,245	299,758	291,017	237,666	192,308	168,522	153,492	153,151
12	155,516	167,211	179,199	195,679	236,202	300,670	289,609	235,725	191,446	167,895	153,117	153,245
13	156,115	167,713	179,475	196,600	238,236	301,377	288,204	233,759	190,554	167,240	152,758	153,293
14	156,712	168,199	179,801	197,485	240,260	302,042	286,778	231,825	189,647	166,598	152,411	153,305
15	157,051	168,648	180,033	198,374	242,368	302,574	285,248	229,888	188,744	165,970	152,077	153,299
16	157,542	169,074	180,275	199,232	244,546	303,010	283,726	227,997	187,834	165,377	151,710	153,298
17	157,948	169,479	180,592	200,139	246,775	303,289	282,184	226,098	186,945	164,830	151,396	153,280
18	158,162	170,352	180,873	201,053	249,101	303,433	280,686	224,185	186,081	164,252	151,154	153,235
19	158,501	171,108	181,182	201,979	251,586	303,613	279,132	222,359	185,231	163,668	150,871	153,088
20	158,799	171,902	181,464	202,986	254,082	303,811	277,529	220,573	184,391	163,100	150,565	153,085
21	159,120	172,406	181,844	204,055	256,559	303,894	275,841	218,788	183,584	162,481	150,308	153,020
22	159,414	172,841	182,278	205,174	259,103	303,894	274,194	217,090	182,759	161,892	150,143	153,088
23	159,690	173,277	182,720	206,254	261,653	303,845	272,517	215,392	181,927	161,314	149,938	153,714
24	160,125	173,601	183,194	207,290	264,182	303,626	270,846	213,744	181,119	160,749	149,791	154,071
25	161,411	173,973	183,678	208,359	266,632	303,353	269,134	212,114	180,376	160,155	149,702	154,379
26	162,244	174,441	184,174	209,448	269,143	303,056	267,366	210,532	179,813	159,603	149,498	154,634
27	162,744	174,512	184,734	210,654	271,670	302,790	265,631	208,982	179,145	159,106	149,231	154,993
28	163,055	174,729	185,373	211,982	274,199	302,445	263,881	207,498	178,395	158,606	148,997	155,226
29	163,256	-	185,961	213,399	276,780	301,944	262,092	206,064	177,654	158,315	148,806	155,362
30	163,408	-	186,552	214,938	279,243	301,369	260,317	204,697	176,918	157,657	148,757	155,473
31	163,841	-	187,281	-	281,714	-	258,537	203,385	-	157,239	-	155,523
MAXIMUM DAY	163,841	174,729	187,281	214,938	281,714	303,894	300,736	256,821	202,165	176,163	156,747	155,523
MINIMUM DAY	152,717	164,541	175,047	188,049	216,543	284,094	258,537	203,385	176,918	157,239	148,757	148,529

HISTORICAL INFLOWS TO ISABELLA LAKE

Runoff in 1,000 acre-feet

WATER YEAR ENDING	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL TOTAL
1955	11.8	14.4	16.0	18.1	22.7	28.1	35.1	67.9	83.4	29.1	18.9	10.3	355.8
1956	9.5	11.5	90.4	77.1	48.2	59.9	94.5	156.3	167.4	97.2	38.1	20.3	870.4
1957	17.6	15.7	15.1	16.4	25.3	30.3	38.5	78.1	131.8	41.0	16.4	12.5	438.7
1958	13.6	13.3	17.6	20.6	36.5	61.5	153.6	312.3	231.7	120.1	51.1	25.8	1057.7
1959	20.6	18.7	17.8	19.3	21.2	31.7	39.5	39.4	33.0	15.8	9.9	9.6	276.5
1960	9.6	9.7	10.3	12.2	27.9	30.2	44.5	58.0	45.5	15.1	7.9	8.4	279.3
1961	9.5	13.0	11.7	10.6	10.0	13.1	23.0	29.1	23.8	8.5	15.1	7.6	175.0
1962	7.1	8.8	11.0	12.4	47.1	32.4	140.5	130.8	154.7	72.1	23.7	13.1	653.7
1963	12.9	11.6	11.1	26.5	99.6	41.0	67.6	134.0	162.3	102.6	42.2	26.5	737.9
1964	24.5	23.8	21.5	18.2	16.6	22.7	39.6	60.0	52.3	22.0	13.3	8.6	323.1
1965	8.7	13.9	44.2	43.5	30.2	33.2	74.5	131.0	149.9	94.9	50.7	22.0	696.7
1966	15.6	28.4	28.3	27.0	21.4	37.8	66.7	81.5	45.4	21.9	16.1	9.6	399.7
1967	9.5	13.7	299.0	59.6	62.5	83.2	95.5	268.1	302.9	238.1	90.5	53.5	1576.1
1968	34.9	31.9	33.0	32.2	38.9	47.1	64.4	86.7	62.1	28.4	18.4	11.3	489.3
1969	12.6	15.3	17.1	159.4	93.4	133.9	337.4	597.5	485.6	236.0	93.8	44.3	2226.3
1970	33.3	32.4	30.9	61.8	39.0	56.9	62.1	109.8	92.7	49.2	22.7	13.4	604.2
1971	12.7	18.8	26.8	31.5	29.4	40.6	51.1	64.4	81.1	41.6	18.9	11.1	428.0
1972	11.4	13.4	17.2	18.2	17.6	32.3	27.3	45.4	37.7	14.6	10.7	11.2	257.0
1973	10.6	14.5	19.3	30.5	32.2	45.0	103.9	282.5	226.5	91.8	36.9	18.8	912.5
1974	16.8	20.4	25.1	45.6	28.1	68.8	108.1	182.2	166.7	68.6	37.6	20.4	788.4
1975	19.1	17.6	20.6	21.1	25.3	39.9	43.9	142.8	138.8	50.3	22.4	16.2	558.0
1976	15.1	14.7	15.6	14.6	15.3	21.8	24.2	47.0	18.9	13.9	13.7	23.1	237.9
1977	18.7	11.7	10.0	12.2	12.0	12.6	22.4	24.3	34.5	10.3	9.8	7.0	185.5
1978	7.9	8.1	21.8	42.0	90.0	163.4	170.2	352.2	351.9	188.1	73.1	58.9	1527.6
1979	28.1	24.3	27.2	32.2	38.7	66.9	99.4	164.0	105.5	47.0	26.9	19.1	679.3
1980	18.2	18.2	17.7	138.7	159.4	130.7	204.1	284.4	274.9	198.9	69.9	35.1	1550.2
1981	27.1	24.9	28.0	25.9	33.4	43.6	67.5	90.8	65.7	25.5	15.6	12.2	460.2
1982	14.0	18.5	21.4	33.9	49.5	71.4	202.9	253.0	194.9	124.6	58.1	60.6	1102.8
1983	45.1	55.2	73.7	81.0	121.2	227.6	182.2	465.9	567.1	285.8	152.5	61.0	2318.3
1984	46.9	65.9	93.6	69.1	55.0	77.3	88.0	159.4	90.7	72.4	45.6	26.9	890.8
1985	26.2	33.6	35.6	36.7	37.0	49.5	133.6	147.4	100.4	38.7	23.4	16.7	678.8
1986	15.1	20.0	30.4	38.9	143.6	196.2	198.6	283.9	250.4	107.4	46.1	24.3	1354.9
1987	25.5	22.4	21.3	22.5	27.3	37.7	54.5	72.6	54.5	23.4	13.6	10.0	385.3
1988	10.6	14.3	15.5	22.0	19.1	29.0	39.6	58.4	42.6	21.5	13.4	10.2	296.2
1989	8.9	9.9	14.6	15.4	22.6	64.0	90.2	69.8	48.4	22.1	12.3	10.2	388.4
1990	10.4	10.5	10.0	11.4	11.8	21.4	32.0	38.5	29.1	14.9	8.2	6.3	204.5
1991	8.3	7.6	7.8	9.6	8.5	44.2	55.2	78.9	100.7	37.9	14.1	11.1	383.9
1992	9.4	12.7	11.6	12.7	20.0	24.6	54.2	74.7	33.3	16.3	11.7	7.5	288.7
1993	9.6	11.5	13.4	36.1	35.8	90.1	131.9	202.9	163.9	88.0	34.6	16.1	833.9
1994	13.4	14.1	17.1	18.3	22.6	38.1	46.3	68.4	56.6	20.8	11.2	9.1	336.0
1995	14.6	12.2	14.1	41.9	45.9	146.4	137.6	245.0	281.9	227.7	78.3	37.7	1283.3
1996	21.7	20.4	25.7	36.7	87.8	99.7	143.7	218.1	150.6	67.9	29.9	16.0	918.2
1997	15.1	39.5	80.9	231.9	94.8	113.0	142.0	211.7	137.7	71.1	39.7	23.6	1201.0
1998	22.5	25.1	26.1	40.4	101.4	126.8	163.9	277.5	346.3	251.4	82.0	46.2	1509.6
1999	35.2	33.1	29.8	33.9	33.6	35.3	52.7	94.1	67.7	31.3	15.0	12.0	473.7
2000	10.6	12.2	12.4	17.5	32.0	46.5	66.9	130.1	81.9	27.8	14.7	10.9	463.5
2001	12.1	12.0	11.9	14.3	17.6	35.7	57.1	125.2	41.4	23.8	11.3	9.3	371.7
2002	9.6	14.8	23.6	25.2	19.9	30.3	58.3	71.1	63.9	21.6	9.7	8.0	356.0
MEAN	17.1	19.3	31.1	39.1	44.4	62.8	92.3	153.5	138.1	73.7	33.1	20.1	724.7

PRECIPITATION DATA -- ISABELLA DAM & RESERVOIR

OCTOBER 1949 TO DATE

(In Inches)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1949-50	0.05	0.65	1.32	1.37	2.60	1.02	0.44	0.00	0.00	0.23	0.11	0.21	8.00
1950-51	0.08	3.16	0.98	1.12	0.18	0.11	0.93	0.03	0.00	0.00	0.00	0.00	6.59
1951-52	0.35	0.47	4.77	5.52	0.37	3.26	0.12	0.00	0.00	0.00	0.00	0.11	14.97
1952-53	0.00	1.98	3.09	2.39	0.04	0.67	1.20	0.20	0.00	0.00	0.09	0.00	9.66
1953-54	0.13	0.90	0.78	1.88	2.26	2.13	0.16	0.07	0.00	0.00	0.00	0.02	8.33
1954-55	0.00	0.80	1.30	2.47	1.05	0.00	0.67	0.78	0.00	0.00	0.00	0.00	7.07
1955-56	0.00	1.34	4.01	4.25	0.26	0.03	1.51	0.43	0.00	0.20	0.00	0.00	12.03
1956-57	0.42	0.00	0.17	1.88	0.96	0.84	0.72	1.03	0.01	0.02	0.00	0.00	6.05
1957-58	0.19	0.33	1.63	3.09	4.45	3.63	**2.77**	0.24	0.00	0.00	0.05	0.20	16.58
1958-59	0.17	0.49	0.02	0.64	1.54	0.08	0.45	0.07	0.00	0.00	0.00	0.34	3.80
1959-60	0.00	0.00	0.97	1.77	6.48	0.43	1.28	0.34	0.00	0.00	0.00	0.07	11.34
1960-61	0.12	1.26	0.12	0.50	0.01	1.59	0.51	0.16	0.11	0.02	**1.20**	0.00	5.60
1961-62	0.00	2.15	0.79	2.55	5.35	1.26	0.00	0.08	0.00	0.00	0.00	0.00	12.18
1962-63	0.03	0.00	0.00	1.52	3.06	2.06	1.07	0.13	0.72	0.00	1.16	1.16	10.91
1963-64	2.02	1.20	0.46	0.97	0.07	1.93	0.84	0.10	0.03	0.00	0.01	0.00	7.63
1964-65	0.47	1.82	3.99	1.75	0.27	1.21	2.58	0.18	0.13	0.39	0.50	0.20	13.49
1965-66	0.00	2.76	2.37	0.66	0.75	0.22	0.00	0.00	0.00	0.00	0.80	0.00	7.56
1966-67	0.00	1.09	**11.53**	**2.49**	0.02	0.63	2.75	0.18	0.24	0.30	0.23	1.63	21.09
1967-68	0.00	1.41	1.85	0.82	0.85	1.55	0.77	0.01	0.00	0.01	0.11	0.00	7.38
1968-69	0.35	1.28	1.65	**9.56**	6.12	1.14	0.95	0.35	0.34	0.27	0.00	0.10	22.11
1969-70	0.07	0.56	0.24	3.91	0.54	1.89	0.43	0.00	0.00	0.02	0.01	0.00	7.67
1970-71	0.04	3.47	2.20	0.54	0.37	0.45	0.66	0.89	0.00	0.06	0.54	0.00	9.22
1971-72	0.05	0.47	3.04	0.00	0.39	0.00	0.37	0.05	**0.80**	0.00	0.34	0.03	5.54
1972-73	0.66	3.13	2.48	3.96	2.57	2.65	0.25	0.25	0.00	0.00	0.00	0.00	15.95
1973-74	0.11	1.26	1.25	2.75	0.09	2.00	1.95	0.39	0.00	0.78	0.00	0.00	10.58
1974-75	**2.30**	0.10	1.96	0.65	1.82	2.77	0.49	0.04	0.00	0.00	0.03	1.85	12.01
1975-76	0.41	0.22	0.07	0.02	1.25	1.61	0.89	0.05	0.00	0.41	0.00	**5.20**	10.13
1976-77	0.23	0.07	0.32	1.50	1.04	0.75	0.00	0.91	0.39	0.00	0.87	0.00	6.08
1977-78	0.02	0.17	5.02	4.51	7.44	3.46	0.87	0.00	0.00	0.03	0.00	1.33	22.85
1978-79	0.02	0.39	1.11	3.24	3.22	2.54	0.00	0.19	0.00	0.03	0.14	0.93	11.81
1979-80	0.95	0.33	0.34	7.71	4.32	1.85	0.51	0.55	0.00	0.00	0.00	0.00	16.56
1980-81	0.09	0.01	0.63	2.65	1.49	3.05	0.23	0.34	0.00	0.00	0.00	0.04	8.53
1981-82	1.05	1.17	1.16	4.04	1.15	4.27	1.59	0.01	0.04	0.00	0.13	0.71	15.32
1982-83	0.78	3.14	3.78	4.31	4.36	5.96	0.58	0.09	0.00	0.00	1.14	0.20	**24.34**
1983-84	0.63	**3.49**	3.56	0.00	1.13	0.31	0.51	0.00	0.02	**2.01**	0.63	0.00	12.29
1984-85	0.62	2.90	1.93	0.68	1.16	1.71	0.03	0.00	0.00	0.00	0.00	0.15	9.18
1985-86	0.10	2.27	1.43	2.94	3.58	3.58	0.10	0.00	0.00	0.38	0.00	0.27	14.65
1986-87	0.24	0.54	0.27	2.65	2.03	1.88	0.10	0.42	0.48	0.00	0.00	0.04	8.65
1987-88	0.62	0.87	1.36	1.80	0.40	0.24	1.41	0.50	0.05	0.51	0.00	0.00	7.76
1988-89	0.00	1.75	3.15	0.29	2.24	2.28	0.09	0.04	0.00	0.00	0.00	0.62	10.46
1989-90	0.11	0.30	0.00	1.33	1.00	0.67	0.44	0.26	0.02	0.00	0.00	0.35	4.48
1990-91	0.01	0.61	0.74	0.99	1.17	**6.43**	0.03	0.09	0.00	0.00	0.01	0.19	10.27
1991-92	0.53	1.30	1.45	1.02	3.10	1.82	0.00	0.12	0.00	0.00	0.00	0.00	9.34
1992-93	0.94	0.00	2.80	4.09	4.15	0.79	0.00	0.00	0.64	0.00	0.00	0.00	13.41
1993-94	0.12	1.52	1.60	0.66	3.10	0.76	0.87	0.19	0.00	0.00	0.00	0.25	9.07
1994-95	0.31	1.45	0.71	7.26	1.35	3.83	0.38	0.55	0.40	0.00	0.51	0.00	16.75
1995-96	0.00	0.00	1.79	4.36	5.03	1.47	0.53	0.00	0.00	0.00	0.00	0.00	13.18
1996-97	0.66	2.38	4.29	3.90	0.13	0.00	0.00	0.00	0.00	0.08	0.00	1.02	12.46
1997-98	0.40	1.76	1.74	2.72	**10.60**	2.87	0.52	**1.74**	0.09	0.00	0.00	0.09	22.53
1998-99	0.12	1.03	0.60	3.82	0.51	0.57	1.65	0.98	0.00	0.04	0.00	0.39	9.71
1999-00	0.00	0.18	0.00	1.55	3.98	0.79	0.56	0.10	0.00	0.00	0.07	0.00	7.23
2000-01	0.51	0.14	0.23	2.28	3.16	0.15	1.86	0.00	0.00	0.42	0.00	0.00	8.75
2001-02	0.57	3.11	2.37	0.39	0.32	1.09	0.03	0.28	0.00	0.11	0.00	0.00	8.27
AVERAGE	0.33	1.19	1.80	2.45	2.17	1.67	0.71	0.25	0.09	0.12	0.16	0.33	11.27
MAXIMUM	2.30	3.49	11.53	9.56	10.60	6.43	2.77	1.74	0.80	2.01	1.20	5.20	24.34
DAILY MAXIMUM	0.96	2.85	5.20	2.40	3.40	1.72	1.45	0.75	0.50	0.88	1.01	3.09	
DATE OF OCCURRENCE	10/17/63	11/20/50	12/05/66	01/16/96	02/01/60	03/04/91	04/02/74	05/26/99	06/08/72	07/16/84	08/08/63	09/30/76	

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

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1956	46.6	43.7	52.5	55.6	65.0	74.0	79.8	76.2	74.7	59.1	53.7	46.8	60.6
1957	40.6	52.5	52.0	58.1	62.8	77.3	81.9	78.4	73.5	59.3	49.8	46.9	61.1
1958	46.3	49.3	47.6	56.1	68.7	72.2	79.7	82.8	74.9	67.3	52.1	50.8	62.3
1959	47.6	46.1	56.5	64.1	62.8	77.2	86.4	79.9	70.7	65.4	55.6	47.3	63.3
1960	41.7	45.8	55.6	57.2	63.6	79.8	83.0	80.0	76.0	61.6	50.9	45.3	61.7
1961	48.0	50.0	50.7	59.5	62.0	79.4	84.5	81.3	71.2	62.3	49.6	44.7	61.9
1962	44.7	46.4	48.0	61.3	60.9	73.4	79.6	79.0	74.4	63.2	53.0	47.8	61.0
1963	44.0	52.7	48.6	50.2	63.5	68.2	76.7	76.1	74.3	62.7	51.0	46.1	59.5
1964	43.3	44.8	47.2	53.6	60.6	70.5	79.4	78.8	70.1	66.8	48.6	47.2	59.2
1965	46.1	47.9	49.6	54.1	60.7	67.1	77.3	76.8	66.5	64.4	51.8	43.6	58.8
1966	41.9	43.8	52.4	60.7	68.0	73.3	77.8	79.5	72.4	62.2	51.2	44.4	60.6
1967	44.4	47.9	50.9	45.4	62.6	69.2	80.9	82.1	72.3	63.9	56.4	39.7	59.6
1968	42.8	52.2	53.0	55.7	63.6	74.4	80.6	74.8	71.9	61.0	50.8	40.7	60.1
1969	44.0	42.4	48.1	54.3	65.9	69.6	78.9	79.4	73.1	57.6	53.3	45.0	59.3
1970	45.6	50.4	49.9	51.0	65.8	72.7	81.6	80.1	69.6	60.1	52.4	41.3	60.0
1971	43.4	44.8	50.6	52.5	58.3	70.7	79.7	79.7	70.9	56.4	48.6	38.8	57.9
1972	42.0	49.1	56.1	56.1	65.6	73.5	80.5	76.1	68.2	56.8	45.7	39.6	59.1
1973	40.3	45.7	42.8	53.0	64.9	73.1	76.9	74.8	68.5	59.1	46.9	44.9	57.6
1974	41.3	44.6	49.4	51.2	62.2	72.5	76.6	76.2	74.2	61.4	50.0	41.0	58.4
1975	43.1	43.6	45.7	45.7	60.7	71.2	75.9	73.6	72.4	57.6	48.7	45.1	56.9
1976	44.2	45.7	47.4	50.6	65.7	71.2	77.5	70.5	68.3	60.3	53.6	44.5	58.3
1977	42.8	48.4	43.8	57.5	55.4	74.0	77.6	77.2	70.0	62.3	51.1	47.3	59.0
1978	44.3	46.1	53.1	50.9	60.4	71.7	76.7	76.8	67.6	65.3	47.2	39.7	58.3
1979	40.7	41.7	48.5	60.6	63.2	71.4	75.9	72.6	74.0	61.8	50.0	48.4	59.1
1980	47.5	49.1	46.5	54.8	57.7	66.8	77.8	75.3	69.2	63.2	52.4	49.0	59.1
1981	48.3	49.5	47.7	57.0	63.6	76.0	79.1	79.7	73.2	56.9	52.9	47.1	60.9
1982	41.8	47.8	47.4	52.5	63.6	68.6	75.6	77.1	68.5	59.2	48.6	43.2	57.8
1983	45.2	47.2	48.5	49.9	61.4	69.2	73.0	75.7	74.0	61.3	50.2	46.1	58.5
1984	47.0	46.6	51.4	52.6	67.3	70.6	80.9	78.2	74.6	55.7	48.3	41.9	59.6
1985	43.2	45.7	46.5	59.3	62.9	75.1	79.9	75.3	65.1	59.0	47.0	44.5	58.6
1986	49.7	49.0	53.5	54.9	63.5	73.7	75.7	78.6	64.1	58.2	51.0	43.0	59.6
1987	38.9	45.9	47.5	59.0	63.2	73.8	72.6	76.5	69.6	64.4	48.6	38.8	58.2
1988	42.3	48.5	50.8	55.1	59.6	70.3	80.2	77.9	72.5	66.1	50.3	43.1	59.7
1989	41.8	43.4	52.7	61.7	63.0	72.1	78.4	74.3	68.4	58.6	51.8	44.2	59.2
1990	42.5	42.6	50.7	57.9	61.7	71.9	80.1	74.9	69.6	62.7	49.4	37.4	58.5
1991	42.7	50.8	43.6	51.2	56.7	71.0	82.1	77.8	77.2	67.6	53.4	45.2	59.9
1992	43.4	49.2	52.4	62.5	71.7	73.3	79.1	81.3	74.5	64.8	51.3	42.0	62.1
1993	42.5	45.5	54.9	56.8	65.3	70.5	76.7	77.0	72.5	62.7	50.9	43.2	59.9
1994	46.5	45.6	54.7	58.1	66.8	79.6	86.8	85.5	76.7	64.8	48.0	46.1	63.3
1995	45.2	56.1	53.8	56.2	61.4	71.4	81.0	81.7	76.9	68.5	60.8	48.5	63.5
1996	47.1	48.8	52.7	58.8	64.7	74.1	82.3	82.0	73.4	61.2	52.7	48.1	62.2
1997	46.4	48.1	57.1	58.3	71.2	72.4	78.8	80.0	74.6	61.4	52.6	44.2	62.1
1998	46.7	44.3	52.7	53.2	56.1	67.8	80.5	82.5	71.2	59.3	50.8	43.9	59.1
1999	47.9	48.1	49.1	52.2	63.8	72.3	78.9	77.5	75.9	68.0	56.4	47.8	61.5
2000	47.4	49.0	51.9	58.2	67.4	77.1	79.0	80.4	73.3	61.7	48.6	49.5	62.0
2001	44.4	44.1	54.8	53.5	73.0	76.9	79.7	81.6	76.0	67.4	54.1	43.5	62.4
2002	43.2	50.4	51.0	57.7	65.4	76.3	83.6	79.4	74.7	62.0	55.8	45.8	62.1
Normal	44.3	47.3	50.5	55.5	63.5	72.7	79.3	78.1	72.0	62.0	51.2	44.5	60.1
Maximum	49.7	56.1	57.1	64.1	73.0	79.8	86.8	85.5	77.2	68.5	60.8	50.8	63.5
Minimum	38.9	41.7	42.8	45.4	55.4	66.8	72.6	70.5	64.1	55.7	45.7	37.4	56.9

PAN EVAPORATION AT ISABELLA DAM & RESERVOIR

OCTOBER 1953 TO DATE

(In Inches)

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1953-54	5.98	3.42	1.92	1.77	1.93	3.19	6.93	10.60	11.82	14.48	11.94	9.21	83.19
1954-55	6.57	3.03	2.02	1.24	2.52	5.05	5.94	8.93	11.76	13.92	13.67	9.66	84.31
1955-56	6.67	3.24	1.58	1.52	2.60	5.30	5.70	8.87	11.91	12.37	11.84	9.57	81.17
1956-57	4.93	3.99	2.29	1.83	2.46	4.40	6.60	7.53	12.51	13.76	12.90	9.18	82.38
1957-58	4.74	3.27	2.14	2.08	1.93	2.73	5.97	9.46	10.68	12.56	11.87	8.64	76.07
1958-59	6.54	3.03	2.60	2.36	2.13	5.95	7.98	9.73	13.56	15.53	13.76	9.03	92.20
1959-60	6.57	4.05	2.67	1.49	2.10	5.08	6.39	8.46	13.11	13.14	12.99	9.54	85.59
1960-61	5.43	2.34	2.02	2.60	3.05	4.28	7.20	8.99	13.65	15.41	10.39	9.06	84.42
1961-62	6.42	3.18	1.80	2.28	1.65	3.47	7.29	8.49	12.03	13.33	12.56	9.30	81.80
1962-63	5.55	3.00	2.70	2.82	2.74	4.46	4.38	8.31	10.74	14.32	12.03	7.89	78.94
1963-64	4.59	2.40	2.08	2.26	3.11	4.37	6.51	8.93	11.88	13.95	12.68	9.30	82.06
1964-65	6.54	2.58	2.02	1.83	2.97	3.94	4.74	8.90	10.32	11.87	10.48	8.19	74.38
1965-66	6.26	2.25	1.40	2.11	2.41	4.84	7.86	11.10	12.75	14.07	14.04	9.51	88.60
1966-67	6.20	2.55	1.58	1.89	2.52	4.43	3.72	8.22	10.20	12.71	11.63	7.41	73.06
1967-68	6.32	2.94	1.49	1.83	2.35	3.72	6.54	10.23	12.60	12.77	11.04	9.09	80.92
1968-69	5.24	2.58	1.24	1.40	1.57	4.03	5.76	9.30	9.78	12.28	12.56	8.70	74.44
1969-70	5.43	3.27	1.83	1.95	2.97	4.56	6.09	10.85	11.85	13.49	13.36	10.23	85.88
1970-71	6.63	3.51	1.36	1.74	2.77	5.61	6.63	8.49	12.51	14.38	13.30	9.93	86.86
1971-72	6.32	3.39	1.46	2.33	3.47	6.94	7.89	11.28	12.03	16.09	12.93	9.33	93.46
1972-73	5.24	2.43	1.71	2.20	2.55	3.69	7.17	10.20	13.83	15.78	13.14	10.56	88.50
1973-74	6.79	3.69	1.89	1.83	3.42	4.28	7.02	12.06	14.82	15.13	14.32	11.82	97.07
1974-75	5.64	3.24	2.20	2.51	2.52	3.97	5.70	11.53	15.72	16.93	15.53	10.68	96.17
1975-76	6.39	3.87	2.45	3.69	3.61	6.11	8.04	13.86	15.68	15.93	13.27	8.88	101.78
1976-77	6.17	3.72	2.76	2.14	3.75	5.49	10.05	9.36	15.03	18.45	15.41	11.52	103.85
1977-78	7.56	4.47	2.70	1.77	2.55	4.34	6.15	12.21	15.36	16.34	14.82	8.76	97.03
1978-79	7.56	3.24	1.67	2.14	2.18	4.37	7.83	11.87	15.08	15.97	13.36	10.98	96.25
1979-80	6.14	3.42	2.39	2.05	2.63	4.22	7.23	8.46	12.39	14.23	14.14	9.78	87.08
1980-81	6.96	4.05	2.82	2.39	3.11	3.94	7.98	11.56	17.16	17.92	15.69	11.34	104.92
1981-82	5.55	3.66	2.36	2.08	3.06	3.66	6.84	11.19	12.15	15.28	13.36	8.28	87.47
1982-83	5.77	2.70	1.80	2.11	2.10	3.78	5.67	10.91	13.32	14.32	10.11	9.81	82.40
1983-84	5.30	2.43	1.86	2.82	3.22	5.83	7.71	13.61	14.22	13.14	12.06	10.20	92.40
1984-85	5.95	2.73	1.92	2.26	3.00	4.56	8.76	12.43	15.18	16.03	14.76	8.79	96.37
1985-86	6.42	3.09	1.74	2.51	2.60	4.56	8.31	12.28	14.82	15.56	15.25	9.60	96.74
1986-87	5.98	3.81	2.11	1.83	3.30	4.46	8.52	10.45	14.19	15.59	15.31	10.74	96.29
1987-88	6.85	3.18	1.77	2.29	3.67	6.94	7.56	10.45	12.38	15.25	12.74	9.84	92.92
1988-89	6.73	3.24	1.95	2.23	2.74	6.01	9.90	12.43	14.94	18.07	14.88	9.93	103.05
1989-90	6.54	4.38	2.98	2.60	2.97	5.80	8.73	12.25	15.36	17.48	14.85	10.95	104.89
1990-91	8.40	4.02	2.54	2.48	3.84	3.75	7.98	10.35	12.96	14.07	12.65	9.60	92.64
1991-92	7.44	5.61	4.71	4.25	4.37	5.86	9.45	11.56	12.36	14.14	14.20	10.53	104.48
1992-93	6.48	4.32	4.37	3.64	4.34	4.99	7.92	10.79	12.15	14.57	13.18	9.66	96.41
1993-94	6.12	3.83	1.98	2.33	2.51	5.44	7.35	9.99	14.93	15.80	14.96	9.75	94.99
1994-95	6.06	2.95	1.94	1.34	3.09	3.59	5.83	6.64	11.12	14.96	14.20	11.02	82.74
1995-96	7.75	4.31	2.43	2.65	1.96	5.20	9.14	12.78	14.88	15.78	14.03	10.50	101.41
1996-97	6.51	3.36	1.94	1.45	3.23	6.22	8.33	12.51	12.59	13.66	13.33	9.30	92.43
1997-98	6.64	2.61	2.07	1.51	0.91	3.91	5.44	6.21	10.42	13.95	13.83	8.59	76.09
1998-99	6.18	3.09	2.55	2.75	2.88	4.71	5.58	10.74	13.18	14.56	12.93	10.54	89.69
1999-00	7.87	4.21	3.37	2.14	1.83	4.71	8.03	11.79	14.13	15.27	14.59	10.46	98.40
2000-01	6.08	3.27	3.19	2.28	1.85	5.67	6.57	13.31	15.73	14.94	15.09	11.28	99.26
2001-02	7.59	3.34	1.58	1.78	3.62	5.06	7.81	11.42	14.99	15.65	14.73	11.28	98.85
MEAN	6.32	3.35	2.20	2.19	2.75	4.72	7.12	10.45	13.20	14.80	13.40	9.75	90.25

ISABELLA RESERVOIR EVAPORATION

April 1954 to Date

Quantities in acre-feet

Year: 2002

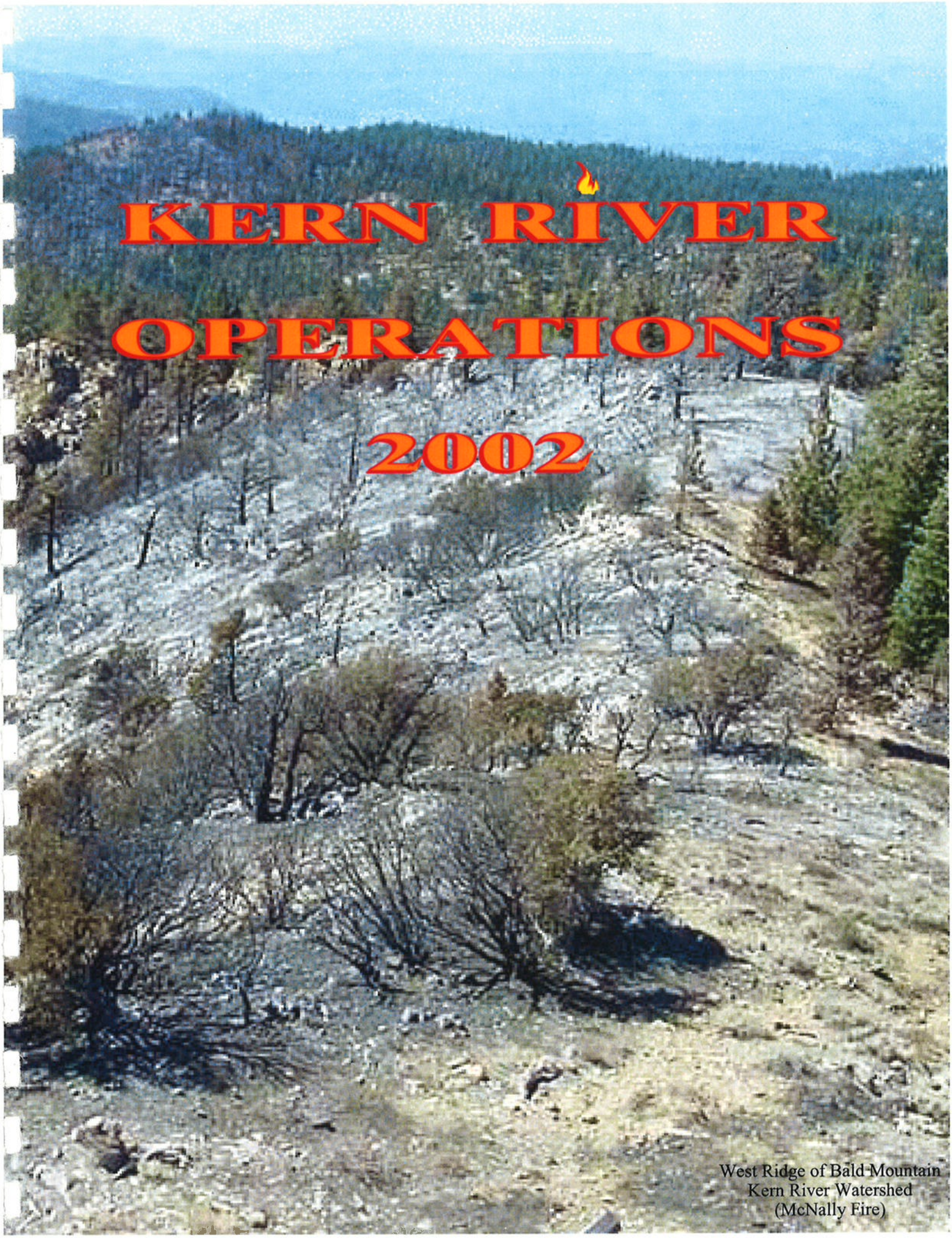
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1954				181	1,662	2,554	2,599	1,563	833	436	192	109	10,129
1955	72	117	236	141	526	1,547	1,705	1,375	847	542	258	190	7,556
1956	407	788	1,444	1,797	3,330	5,496	6,084	5,484	4,183	2,056	1,650	897	33,616
1957	628	724	1,258	1,823	2,210	4,588	5,173	4,512	3,068	1,588	1,107	700	27,379
1958	593	494	734	2,043	4,470	6,462	7,720	6,843	4,729	3,521	1,603	1,307	40,519
1959	1,021	811	2,148	2,880	3,711	4,983	4,439	3,503	2,263	1,728	1,087	684	29,258
1960	323	466	1,099	1,505	2,287	3,372	2,720	2,128	1,379	783	341	280	16,683
1961	315	319	419	780	1,158	2,178	2,204	1,200	930	647	329	168	10,647
1962	188	182	446	1,105	2,307	4,128	4,840	4,084	2,880	1,684	916	770	23,530
1963	694	930	1,523	1,577	3,503	5,534	8,202	6,696	4,136	2,289	1,172	962	37,218
1964	916	1,105	1,418	2,162	3,221	4,584	4,842	3,915	2,836	2,057	849	635	28,540
1965	595	857	1,053	1,368	3,251	4,757	5,986	5,397	4,169	3,098	1,103	656	32,290
1966	843	833	1,555	2,624	4,159	5,117	5,246	4,576	2,821	1,819	767	928	31,288
1967	970	1,071	1,874	1,700	3,931	5,960	8,805	8,051	4,574	3,578	1,597	744	42,855
1968	801	930	1,380	2,511	4,243	5,574	5,258	4,048	3,239	1,954	991	476	31,405
1969	494	668	1,511	1,886	4,334	6,486	8,916	9,046	5,911	3,560	1,968	980	45,760
1970	885	1,289	1,935	2,593	4,954	6,051	6,959	6,376	4,597	3,010	1,623	619	40,891
1971	700	990	1,836	2,277	3,181	5,337	6,227	5,233	3,678	2,370	1,304	545	33,678
1972	729	1,000	1,807	2,045	3,096	3,512	4,154	2,703	1,816	1,059	524	355	22,800
1973	434	496	760	1,738	4,009	7,698	9,126	7,109	5,530	3,564	1,981	966	43,411
1974	825	1,347	1,622	3,023	6,119	9,055	9,630	8,904	7,073	3,308	1,864	1,166	53,936
1975	1,174	1,002	1,476	2,162	4,911	8,206	8,936	7,488	4,887	2,957	1,845	1,125	46,169
1976	1,468	1,291	1,952	2,537	4,552	5,226	4,560	3,261	2,108	1,609	984	702	30,250
1977	466	700	968	1,761	1,765	3,289	3,757	2,495	1,795	1,216	726	428	19,366
1978	343	621	1,597	2,698	5,891	9,253	10,969	9,945	6,020	5,115	2,049	996	55,497
1979	1,069	954	1,896	3,701	6,337	9,080	9,535	7,242	5,710	3,306	1,866	1,246	51,942
1980	1,047	1,375	2,229	3,715	4,943	8,289	10,374	10,171	6,637	4,544	2,446	1,565	57,335
1981	1,154	1,317	1,619	3,386	5,371	8,644	8,660	6,966	5,028	2,582	1,747	1,067	47,541
1982	827	1,093	1,333	3,172	6,563	8,180	10,967	9,418	5,732	4,086	1,769	1,053	54,193
1983	1,097	1,057	2,182	3,235	5,905	9,255	10,645	7,630	7,337	3,814	1,656	1,188	55,001
1984	1,624	1,547	2,545	3,594	7,055	8,327	7,914	7,142	6,085	3,642	1,642	1,103	52,220
1985	1,139	1,287	1,749	3,894	6,375	8,622	9,025	7,650	4,441	3,287	1,577	885	49,931
1986	1,119	1,150	2,323	4,740	7,436	10,088	10,933	10,276	6,361	3,866	2,329	1,206	61,827
1987	916	1,428	1,833	3,537	4,596	6,682	7,115	6,454	4,469	2,906	1,361	732	42,029
1988	823	1,178	1,962	2,132	3,148	4,141	4,667	3,318	2,493	1,777	865	500	27,004
1989	502	540	1,339	2,828	4,292	5,572	6,458	4,653	3,027	2,029	1,380	877	33,497
1990	667	649	1,148	1,755	2,705	3,713	3,993	2,872	2,035	1,609	797	480	22,423
1991	409	547	635	1,587	2,674	4,568	5,171	4,026	2,951	2,315	1,789	1,434	28,106
1992	1,137	1,016	1,295	2,218	3,459	4,132	4,542	4,024	2,910	1,862	1,285	1,238	29,118
1993	970	1,081	1,365	2,888	5,185	7,057	9,080	8,063	5,808	3,652	2,291	1,139	48,579
1994	1,170	1,063	2,212	2,945	4,253	6,827	6,833	5,585	3,431	2,221	1,099	704	38,343
1995	462	1,016	1,444	2,614	3,447	6,952	10,701	10,151	7,525	5,177	2,698	1,402	53,589
1996	1,341	914	2,646	5,072	7,928	9,967	10,681	9,076	6,587	4,019	2,053	1,139	61,423
1997	918	1,862	3,183	4,350	7,260	8,057	8,941	8,428	5,790	4,219	1,611	1,196	55,815
1998	768	415	1,817	2,807	3,586	6,714	10,102	10,163	6,050	4,296	1,981	1,472	50,171
1999	1,384	1,252	1,983	2,430	5,092	6,956	7,761	6,480	5,113	3,802	2,045	1,569	45,867
2000	849	649	1,686	2,971	5,060	6,944	7,315	6,327	4,320	2,499	1,363	1,252	41,235
2001	780	551	1,620	2,053	5,165	6,791	5,978	5,476	3,858	2,539	1,115	524	36,450
2002	541	928	1,261	2,146	3,634	5,581	5,597	4,647	3,338	2,081	1,488	813	32,055
Average	804	915	1,570	2,463	4,250	6,165	6,981	5,963	4,150	2,687	1,410	881	38,238

ISABELLA RESERVOIR

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

Units in Acre-Feet

Year	Maximum Annual Storage	Date of Occurrence	Minimum Annual Storage	Date of Occurrence	December 31 Carryover Storage
1954	85,380	June 9, 1954	0	April 16, 1954	8,670
1955	78,567	December 31	4,330	April 21	78,567
1956	283,033	June 30	79,823	January 1	130,313
1957	183,979	June 20	101,074	December 14	101,413
1958	455,162	June 28	100,947	January 23	198,112
1959	207,674	May 21	71,344	December 19	71,608
1960	119,253	May 19	29,119	December 31	29,119
1961	53,096	June 17	17,410	November 19	17,524
1962	173,675	June 29	17,448	January 11	82,849
1963	369,990	June 28	82,190	January 28	170,043
1964	203,628	June 7	94,497	December 18	118,303
1965	288,937	July 9	117,117	March 23	171,193
1966	337,369	December 21	81,941	November 27	313,258
1967	538,698	July 20	199,282	December 14	199,937
1968	261,193	June 6	119,349	December 7	124,480
1969	578,116	July 14	124,283	January 12	225,535
1970	327,771	June 10	156,517	November 24	172,038
1971	240,996	June 22	120,161	November 25	122,040
1972	126,754	June 11	50,030	October 16	55,589
1973	399,448	June 29	55,449	January 7	205,948
1974	475,881	June 23	201,710	March 1	223,930
1975	348,695	June 17	169,893	December 17	170,190
1976	171,617	January 26	67,668	December 29	67,701
1977	82,347	June 16	34,504	December 16	43,820
1978	491,451	July 16	44,060	January 1	244,904
1979	442,035	June 11	208,632	December 30	208,768
1980	585,381	July 3	208,224	January 7	229,813
1981	312,456	June 7	166,907	December 27	168,210
1982	560,083	June 29	168,984	January 1	261,558
1983	630,825	July 6	260,010	January 9	311,944
1984	407,745	June 7	244,755	December 15	244,979
1985	388,621	June 13	189,823	November 23	195,516
1986	562,134	June 16	195,579	January 1	244,085
1987	276,266	June 7	142,661	December 1	143,410
1988	158,189	June 6	72,638	December 9	73,545
1989	184,801	June 1	71,111	February 18	85,978
1990	97,420	June 12	45,895	December 18	46,014
1991	175,558	June 19	45,300	February 27	89,654
1992	153,942	June 5	82,080	December 28	82,262
1993	416,982	June 29	82,189	January 1	242,525
1994	262,332	June 6	115,492	December 24	115,585
1995	551,921	July 19	115,492	January 3	246,474
1996	546,849	June 11	244,979	December 4	252,811
1997	491,994	June 6	242,450	December 30	242,525
1998	562,474	July 24	242,005	January 31	244,904
1999	334,267	June 8	169,341	December 31	169,341
2000	293,234	June 8	129,469	December 29	129,519
2001	244,904	June 3	98,787	November 22	105,906
2002	184,173	June 15	82,043	November 6	138,222



West Ridge of Bald Mountain
Kern River Watershed
(McNally Fire)

KERN RIVER IN REVIEW
2002

Introduction

Although climatologists predicted below normal rainfall for California during the 2001-2002 winter season, an early wet pattern developed in the eastern Pacific, throwing a curve at the long-range forecasts. Over a dozen storm systems pounded the Kern River watershed during November and December of 2001, producing near record precipitation at many locations in the basin. After the new year, winter storms seemed to go into hibernation, and the once promising water supply picture spiraled downward. Lack of any major storm activity after January 1, 2002, left a dismal spring snowpack in the southern Sierra, resulting in ***2002 Kern River April-July runoff*** of only 215,307 acre-feet, ***46%*** of the long-term First Point average.



Southern Sierra Nevada Mountains rise above tule fog-bound San Joaquin Valley floor

Isabella Reservoir storage reached its minimum point for 2002 in early November at 82,043 acre-feet. The intense storm period of November 8-9, 2002 followed shortly thereafter, triggering a sharp increase in the flow of Kern River above Lake Isabella. Peak 24-hour discharge from this storm as computed at First Point occurred on November 9, 2002, at 10,627 cubic feet per second, second greatest for the month only to the November 19, 1950 rain flood of 15,400 cubic feet per second. All told, the storm runoff added nearly 50,000 acre-feet of water to reservoir storage, reversing a recent trend of declining year-end carryover storage behind the dam.

Precipitation

Monthly precipitation amounts in inches as recorded at selected Kern County stations during the 2001-2002 Water Year were as follows:



Snow surveyor at Casa Vieja Meadow

	Bakersfield Meadows Field (Elev. 494 ft.)			Isabella Dam (Elev. 2660 ft.)			Glennville (Elev. 3140 ft.)		
	01-02	Ave.	% of Ave.	01-02	Ave.	% of Ave.	01-02	Ave.	% of Ave.
Oct	0.21	0.30	70%	0.57	0.33	173%	0.71	0.92	77%
Nov	1.08	0.59	183%	3.11	1.19	261%	3.99	2.13	187%
Dec	0.66	0.76	87%	2.37	1.80	132%	4.24	2.51	169%
Jan	0.52	1.18	44%	0.39	2.45	16%	1.55	3.88	40%
Feb	0.26	1.21	21%	0.32	2.17	15%	0.82	3.54	23%
Mar	0.43	1.41	30%	1.09	1.67	65%	3.07	3.74	82%
Apr	0.25	0.45	56%	0.03	0.71	4%	0.67	1.62	41%
May	0.13	0.24	54%	0.28	0.25	112%	1.50	0.73	205%
Jun	0.00	0.12	0%	0.00	0.09	0%	0.00	0.14	0%
Jul	0.00	0.00	0%	0.11	0.12	92%	0.00	0.05	0%
Aug	0.00	0.08	0%	0.00	0.16	0%	0.00	0.16	0%
Sep	0.00	0.15	0%	0.00	0.33	0%	0.02	0.53	4%
TOTAL	**3.54**	**6.49**	**55%**	**8.27**	**11.27**	**73%**	**16.57**	**19.95**	**83%**

Precipitation in the Kern River watershed for the 2002 water year began with a moderate storm system affecting the basin towards the end of October 2001. Storminess intensified during the month of November 2001, with five storm periods sweeping through the southern Sierra, culminating in a record 1.51" of rainfall at Isabella Dam headquarters on the 24th. This was the maximum amount ever reported for the day and third greatest rainfall event for the month dating back to 1949. The wet trend continued into December with several additional Pacific storm systems moving through the watershed. This unexpected wet beginning to the water year came to a brutal halt around the first of the new year. Precipitation amounts during the January-February period of 2002 were extremely sparse, netting just 15% of normal. Typically, the months of January and February combine for nearly half of the annual Kern River Basin precipitation. A warm, dry spring followed in the Sierra, ensuring a "dry" Kern River yield during the 2002 snow melt period.

Temperature

Isabella, California, 2002 mean air temperatures (°F) with comparative averages were as follows:

	2002 Actual	Normal	Variance from Norm		2002 Actual	Normal	Variance from Norm
Jan	43.2	44.3	- 1.1	Jul	83.6	79.3	+4.3
Feb	50.4	47.3	+3.1	Aug	79.4	78.1	+1.3
Mar	51.0	50.5	+0.5	Sep	74.7	72.0	+2.7
Apr	57.7	55.5	+2.2	Oct	62.0	62.0	0.0
May	65.4	63.5	+1.9	Nov	55.8	51.2	+4.6
Jun	76.3	72.7	+3.6	Dec	45.8	44.5	+1.3

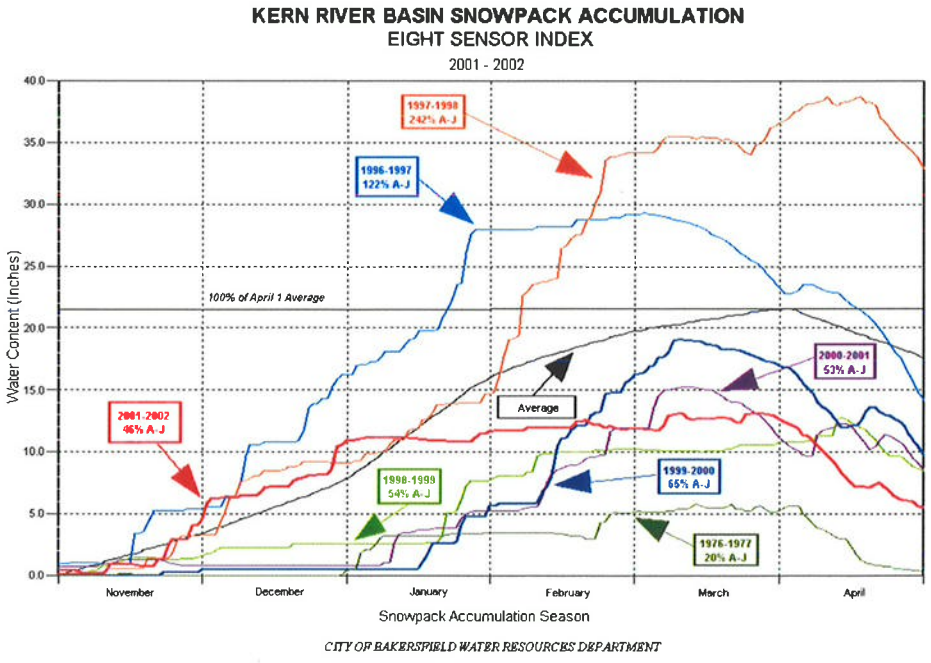
The mean annual temperature as recorded at Isabella Dam for 2002 was 62.1° Fahrenheit, 2.0° above the long-term (1956 to 2002) normal. Temperature extremes reached 108°F on July 9th and 10th with the low of 21°F occurring on January 30, 2002.

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, 2002, with April 1st historical average water contents of same shown for comparison:

	Upper Tyndall Creek	Crabtree Meadow	Chagoopa Plateau	Pascoe	Wet Meadow	Tunnel Guard	Casa Vieja Meadow	Beach Meadows
April 1, 2002	16.6	12.7	14.2	28.0	11.2	0.3	16.4	0.4
April 1, Average	27.7	19.8	21.8	24.9	30.3	15.6	20.9	11.0

The Kern River Basin snowpack accumulation for 2001-2002 is summarized in the graph below. The chart illustrates the storminess during November and December of 2001 which pushed snow water content to 40% above the average for that time period. Unfortunately, during January and February of 2002, snowpack water content showed little positive gain, a result of the driest January-February period to occur since 1972. By the first of March, the eight sensor index had dwindled to roughly 60% of normal for that date. During the balance of the snowpack accumulation season, there was insufficient storm activity to offset the critical lack of precipitation in the Kern River watershed early in the year. This left the Kern River 2002 April-July yield at 46% of normal, the driest in a recent series of years of below normal runoff that began in 1999.



Forecast



Kern River near mouth of canyon

The State of California, Department of Water Resources, issued the following forecasts of Kern River runoff into Isabella Reservoir for the 2002 April-July snow melt period:

February 1, 2002:	72% of average (340,000 acre-feet)
March 1, 2002:	57% of average (270,000 acre-feet)
April 1, 2002:	54% of average (255,000 acre-feet)
May 1, 2002:	45% of average (210,000 acre-feet)

Runoff

Actual 2002 April-July Kern River inflow to Lake Isabella was 214,892 acre-feet (46% of average). Peak snow melt inflow to Isabella Reservoir occurred on May 31, 2002 with 1,776 cfs. Calendar year runoff at First Point of Measurement equaled 424,696 acre-feet, 58% of the long-term average (730,618 acre-feet) and 78% of the historical median (542,612 acre-feet). Kern River 2002 annual yield was boosted substantially by the November 8-9, 2002 rain flood above Lake Isabella. It is estimated that, absent operation of Isabella Dam and Reservoir, the flood crest of Kern River from this storm would have reached 33,800 cubic feet per second at Bakersfield. Full natural flow for November 2002 was 73,894 acre-feet, second greatest for the month in history.



Looking southerly from Mt. Whitney towards Lake Isabella

Storage

Reservoir storage for 2002 began at 105,906 acre-feet. Peak Isabella Reservoir storage for the year fell on June 15, 2002 at 184,173 acre-feet, the lowest peak storage achieved since 1992. By late summer, diminishing lake levels began



Borel Canal Diversion Weir, North Fork of the Kern River

to expose the four-mile section of Borel Canal inside Lake Isabella. This prompted both the Corps of Engineers and Southern California Edison Company to ready the old canal section for activation. On November 5, 2002, after more than a month of maintenance activity, water from the Kern River North Fork began to flow in the Borel Canal through its original head works. By November 7, 2002, the canal was carrying the entire North Fork flow less the minimum Main Dam fish flow. Within 48 hours of this date, the great rain flood of November 2002 had washed out the recently constructed sediment basin and soft plug enabling diversion of North Fork flow into the Borel Canal, while fully inundating the Borel head works and canal section inside the lake. The abrupt rise in lake surface elevation allowed dam operators to utilize the auxiliary dam once more for diversion into the Borel Canal. Isabella Reservoir ended the year with 138,222 acre-feet of storage, constituting 24% of the lake capacity and 89% of the average December 31st carryover storage figure of 155,523 acre-feet.

Operations

Kern River regulated flow at First Point of Measurement during the 2002 Calendar Year totaled 357,160 acre-feet, 50% of the 1954-2002 average regulated flow of 713,933 acre-feet. Peak regulated flow during 2002 occurred on July 15th, with a mean daily discharge of 1,279 cubic feet per second.



Bellevue River Weir



Kern River below Isabella Main Dam

The Bellevue River Weir (pictured at left) was reconstructed during the spring of 2002. Located just upstream of the Stockdale Highway Bridge, the major river structure provides for diversion of Kern River, State and Federal water supplies into local canals diverting both north and south of the river while ensuring the accurate measurement of flow passing downstream. This unique river weir, which features a bike bridge integrated into the structure, first became operational in July of 2002.



Helicopter pilot returns from mid-winter maintenance flight into Wet Meadow

Total water yield of the Kern River drainage basin and its surface storage reservoir in acre-feet during 2002 is summarized as follows:

+	Kern River Computed Natural Flow	424,696
-	Isabella Reservoir Storage	32,318
-	Isabella Reservoir Evaporation	32,055
-	Kern River Diversion Above First Point	3,163
=	Kern River Regulated Flow at First Point	357,160

Delivery of ***Kern River*** water to canal and conveyance facilities located below First Point of Measurement during 2002 was as follows:

Delivery Point	Flow in Acre-Feet
Beardsley Canal	88,530
Calloway Canal	24,450
Kern Island Canal	138,220
Eastside Canal	13,928
Stine Canal	1,305
Truxtun Lakes	307
Arvin-Edison Turnout	1,693
Buena Vista Canal	16,182
Rosedale Channel	3,189
Pioneer Canal	199
Berrenda Mesa Pipeline	431
Pioneer Property	0
2800 Acre Recharge Facility	0
Second Point of Measurement	12,312
Seepage Loss (River & Carrier)	56,414



Inspecting March 1983 construction work on "old" Calloway River Weir are (left to right) Frank Tinoco, Pat Hauptman, Lloyd Phillips, Eddie Steinmetz and Chuck Hawks

DISCHARGE IN CUBIC FEET PER SECOND — Kern River at First Point of Measurement "Computed Natural" — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	834	336	496	743	704	1,676	614	221	146	128	167	431
2	691	326	480	794	702	1,614	596	216	135	129	161	410
3	678	318	461	860	704	1,541	584	211	129	136	155	394
4	636	308	443	907	722	1,507	526	200	125	152	152	392
5	575	316	448	961	745	1,494	508	193	127	163	147	376
6	535	316	486	974	801	1,571	479	184	134	164	171	369
7	529	339	544	983	893	1,683	471	184	137	160	199	370
8	521	358	551	952	954	1,495	446	190	134	154	8,542	367
9	503	378	531	1,019	1,008	1,344	424	192	130	153	10,627	367
10	470	366	490	1,059	1,011	1,139	411	180	126	156	3,312	361
11	458	353	480	1,176	1,005	1,088	406	170	132	151	1,947	368
12	449	350	483	1,249	955	1,026	400	161	125	148	1,152	352
13	446	366	491	1,336	984	1,013	374	156	120	143	1,041	349
14	428	376	499	1,416	1,043	1,012	365	151	120	150	940	353
15	414	372	480	1,606	1,192	984	361	157	125	150	742	364
16	384	380	493	1,374	1,321	959	359	162	132	143	664	801
17	373	395	503	1,150	1,494	924	349	164	133	141	643	863
18	345	400	507	1,070	1,585	955	335	159	134	143	619	621
19	356	407	486	953	1,624	965	330	153	137	144	601	499
20	353	391	482	923	1,540	939	308	142	141	142	587	651
21	368	408	479	852	1,416	909	284	138	143	134	562	562
22	363	400	504	818	1,245	845	275	140	141	137	532	477
23	347	402	540	784	1,138	816	263	151	135	134	517	457
24	338	416	575	787	1,074	743	260	154	133	137	507	444
25	330	426	562	821	1,061	705	254	161	125	135	477	437
26	371	465	544	869	1,116	668	258	161	123	140	447	450
27	380	480	532	881	1,197	644	261	165	117	140	421	440
28	387	476	546	838	1,336	628	250	162	117	149	413	483
29	346	-	558	781	1,445	621	241	165	115	147	406	468
30	330	-	579	728	1,532	645	231	164	121	149	404	469
31	343	-	680	-	1,740	-	223	156	-	155	-	467
TOTAL	13,881	10,624	15,933	29,664	35,287	32,153	11,446	5,263	3,892	4,507	37,255	14,212
MAXIMUM DAY	834	480	680	1,606	1,740	1,683	614	221	146	164	10,627	863
MINIMUM DAY	330	308	443	728	702	621	223	138	115	128	147	349
MEAN	448	379	514	989	1,138	1,072	369	170	130	145	1,242	458
TOTAL AC. FT.	27,533	21,072	31,603	58,838	69,991	63,775	22,703	10,439	7,720	8,939	73,894	28,189

WHOLE YEAR:- TOTAL, 214,117 MAX., 10,627 MIN., 115 MEAN, 587 TOTAL AC.FT., 424,696

DISCHARGE IN CUBIC FEET PER SECOND

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

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	665	251	435	645	671	1,743	590	187	123	123	161	340
2	537	255	426	720	656	1,636	576	190	122	128	136	327
3	565	253	399	777	646	1,514	541	181	122	134	136	311
4	496	269	391	855	669	1,475	506	178	124	140	136	303
5	436	271	388	916	711	1,464	474	176	125	138	131	298
6	407	263	398	883	777	1,570	460	171	134	135	144	298
7	404	260	492	854	926	1,687	432	167	144	131	143	297
8	402	267	471	892	1,001	1,549	405	165	142	127	9,992	284
9	389	267	428	957	1,000	1,372	378	161	131	126	9,480	280
10	371	266	418	990	1,009	1,174	355	155	127	129	2,045	272
11	362	272	409	1,045	970	1,043	362	153	124	137	1,215	266
12	347	288	422	1,155	919	995	372	154	121	128	1,004	262
13	337	296	460	1,286	941	995	371	151	119	128	860	258
14	327	300	431	1,373	1,051	1,022	387	146	117	126	783	261
15	319	312	394	1,574	1,169	1,013	345	146	114	127	675	348
16	296	316	386	1,363	1,282	987	329	142	113	126	623	483
17	277	336	377	1,149	1,461	959	314	141	114	125	516	581
18	276	327	395	997	1,618	914	319	141	117	127	438	462
19	276	314	385	899	1,666	922	309	138	115	128	422	380
20	278	335	403	822	1,487	947	279	134	113	128	505	471
21	281	342	407	786	1,364	948	256	135	112	128	427	394
22	281	352	404	742	1,230	883	236	135	112	129	407	393
23	253	375	454	731	1,140	763	245	136	111	131	403	371
24	231	299	455	753	1,041	703	232	134	110	132	388	344
25	270	382	430	801	998	679	223	130	110	134	373	358
26	257	393	428	866	1,059	649	221	128	110	134	361	372
27	269	493	433	863	1,191	624	222	126	112	135	346	358
28	268	450	452	786	1,329	623	217	124	113	136	333	371
29	249	-	478	745	1,425	633	211	123	115	136	330	390
30	215	-	533	712	1,576	624	199	124	121	136	336	352
31	228	-	594	-	1,687	-	192	124	-	137	-	408
TOTAL	10,569	8,804	13,376	27,937	34,670	32,110	10,558	4,596	3,587	4,059	33,249	10,893
MAXIMUM DAY	665	493	594	1,574	1,687	1,743	590	190	144	140	9,992	581
MINIMUM DAY	215	251	377	645	646	623	192	123	110	123	131	258
MEAN	341	314	431	931	1,118	1,070	341	148	120	131	1,108	351
TOTAL AC. FT.	20,963	17,462	26,531	55,412	68,767	63,689	20,941	9,116	7,115	8,051	65,948	21,606

WHOLE YEAR:- TOTAL, 194,408 MAX., 9,992 MIN., 110 MEAN, 533 TOTAL AC.FT., 385,601

DISCHARGE IN CUBIC FEET PER SECOND — Kern River at First Point of Measurement "Regulated" — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	473	307	413	424	432	667	1,107	856	256	232	147	361
2	500	314	441	431	425	700	1,121	795	269	227	148	342
3	567	235	437	426	422	836	944	738	290	220	148	346
4	546	280	430	445	424	840	1,031	752	287	204	143	337
5	505	280	425	469	435	834	1,070	702	254	176	151	334
6	468	296	424	465	439	806	977	702	261	173	153	315
7	470	284	429	433	449	795	985	726	237	220	163	315
8	467	296	423	424	506	736	1,017	643	205	254	279	314
9	464	384	428	435	547	803	1,020	511	202	271	487	317
10	461	365	430	541	576	880	1,027	387	197	278	356	305
11	454	351	428	529	553	889	988	433	218	266	389	320
12	446	340	436	501	552	829	953	511	249	233	454	364
13	433	352	431	464	568	835	855	540	237	226	581	364
14	431	379	434	479	553	788	1,027	645	211	259	430	340
15	423	373	430	535	550	759	1,279	670	259	271	393	321
16	415	385	432	503	598	861	1,231	664	332	255	391	512
17	377	392	441	499	580	1,027	1,029	568	369	210	391	467
18	345	380	434	484	572	963	942	544	342	213	398	479
19	340	375	428	548	584	862	988	623	363	208	387	458
20	351	377	428	510	659	812	921	614	388	212	387	485
21	368	383	433	479	646	979	967	628	366	218	404	501
22	345	423	429	452	588	973	1,003	725	341	215	383	479
23	353	409	432	465	601	1,035	923	687	299	216	383	410
24	350	415	448	517	705	1,213	846	553	278	215	385	422
25	346	422	438	535	663	1,164	797	557	265	206	382	391
26	343	420	433	519	636	1,094	792	594	228	180	386	386
27	369	413	440	484	651	1,080	695	503	270	181	385	381
28	359	402	430	428	627	1,161	656	443	245	195	380	386
29	356	-	422	420	665	1,174	673	360	217	191	363	390
30	334	-	421	424	638	1,190	687	336	231	158	288	384
31	316	-	415	-	671	-	773	300	-	148	-	379
TOTAL	12,775	10,032	13,343	14,268	17,515	27,585	29,324	18,310	8,166	6,731	10,115	11,905
MAXIMUM INSTANT.	645	565	517	701	742	1,312	1,332	1,001	489	303	711	670
MINIMUM INSTANT.	303	104	333	233	392	645	590	249	188	142	83	269
MEAN	412	358	430	476	565	920	946	591	272	217	337	384
TOTAL AC. FT.	25,339	19,898	26,465	28,300	34,740	54,714	58,163	36,317	16,197	13,351	20,063	23,613

WHOLE YEAR:- TOTAL, 180,069 MAX., 1,332 MIN., 83 MEAN, 493 TOTAL AC.FT., 357,160

DISCHARGE IN CUBIC FEET PER SECOND — Kern River Conduit at Alternate Second Point (Total Flow) — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	20	0	80	0	51	58	0	0	0	0
2	0	0	27	0	80	0	60	54	0	0	0	0
3	0	0	31	0	82	0	103	60	0	0	0	0
4	0	0	32	0	74	0	132	62	0	0	0	0
5	0	0	19	0	77	0	156	56	0	0	0	0
6	0	0	10	0	74	0	193	22	0	0	0	0
7	0	0	0	0	73	0	184	0	0	0	0	0
8	0	0	0	0	72	0	129	0	0	0	0	0
9	0	0	0	0	69	0	98	0	0	0	0	0
10	0	0	0	48	70	0	133	0	0	0	0	0
11	0	0	0	73	78	0	100	0	0	0	0	0
12	0	0	0	66	67	0	99	0	0	0	0	0
13	0	0	0	91	2	0	72	0	0	0	0	0
14	0	0	0	81	0	0	63	0	0	0	0	0
15	0	0	0	78	0	54	122	0	0	0	0	0
16	0	0	0	82	0	53	100	0	0	0	0	0
17	0	0	0	74	0	57	72	0	0	0	0	0
18	0	0	0	75	0	64	50	0	0	0	0	0
19	0	0	0	84	0	65	65	0	0	0	0	0
20	0	0	0	81	0	51	33	0	0	0	0	0
21	0	0	0	32	0	65	40	0	0	0	0	0
22	0	0	0	0	0	69	47	76	0	0	0	0
23	0	0	0	0	0	48	54	75	0	0	0	0
24	0	0	0	0	0	61	49	0	0	0	0	0
25	0	0	0	0	0	73	77	0	0	0	0	0
26	0	0	0	3	0	67	72	0	0	0	0	0
27	0	0	0	74	0	44	71	0	0	0	0	0
28	0	0	0	41	0	57	62	0	0	0	0	0
29	0	-	0	39	0	55	45	0	0	0	0	0
30	0	-	19	60	0	55	53	0	0	0	0	0
31	0	-	24	-	0	-	60	0	-	0	-	0
TOTAL	0	0	182	1,082	898	938	2,645	463	0	0	0	0
MAXIMUM DAY	0	0	32	91	82	73	193	76	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	33	0	0	0	0	0
MEAN	0	0	6	36	29	31	85	15	0	0	0	0
TOTAL AC. FT.	0	0	361	2,146	1,781	1,860	5,246	918	0	0	0	0

WHOLE YEAR:- TOTAL, 6,208 MAX., 193 MIN., 0 MEAN, 17 TOTAL AC.FT., 12,312

DISCHARGE IN CUBIC FEET PER SECOND | Kern River Channel at Second Point of Measurement (Total Flow) | Year: 2002

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

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

DISCHARGE IN CUBIC FEET PER SECOND

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

Year: 2002

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	5
3	0	0	0	0	0	0	0	0	0	0	0	13
4	0	0	0	0	0	0	0	0	0	0	0	25
5	0	0	0	0	0	0	0	0	0	0	0	18
6	0	0	0	0	0	0	0	0	0	0	0	15
7	0	0	0	0	0	0	0	0	0	0	0	12
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	88
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	25
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	3
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	0	175

WHOLE YEAR:- TOTAL, 88 MAX., 25 MIN., 0 MEAN, 0 TOTAL AC.FT., 175

CITY OF BAKERSFIELD
SUMMARY OF KERN RIVER ENTITLEMENTS

Quantities in acre-feet

Year: 2002

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Buena Vista W.S.D. Entitlement	0	0	4,179	13,037	16,399	14,612	1,670	0	0	0	11,625	0	61,522
Hacienda W.D. Entitlement	0	0	0	0	0	0	0						0
K.C.L. Entitlement @ 2nd Point	0	0	12	623	788	696	83	0	0	0	557	0	2,759
Kern Island (1-st)	18,446	16,655	17,792	17,851	18,446	17,851	17,203	9,763	7,065	8,263	17,217	18,446	184,998
Eastside													
Kern River Conduit			8,944	18,472	18,310	16,923	3,071	0					65,720
Castro	290	232		58	81	67					252	300	1,280
KCC & W Co.	769	613		141	230	196					706	807	3,462
South Fork	553	417		105	163	134					498	581	2,451
Buena Vista (1-st)	2,958	2,158		797	1,246	1,057					3,810	3,489	15,515
James (1-st)	2,360	386		1,196	1,880	1,587					4,578	2,250	14,237
Anderson (1-st)	199			198	311	263					631	192	1,794
Stine	1,023			1,496	2,341	1,978					3,703	938	11,479
Meacham	58			303	468	395					597	115	1,936
Farmers	201			1,414	2,317	1,947					2,711	395	8,985
Plunket				319	609	504					714		2,146
Joyce				292	601	470					676		2,039
Johnson				250	565	405					637		1,857
Pioneer (1-st)				657	1,488	1,065					1,902		5,112
Beardsley (1-st)				238	577	424					770		2,009
Lerdo (NKWSD)													
Anderson (2-nd)				34	87	71					121		313
James & Dixon				137	331	286					482		1,236
Wilson				18	38	36					71		163
KCC & W Co.				16	42	36					50		144
McCaffrey				71	198	183					313		765
McCord: Lerdo 30%				77	212	204					363		856
Beardsley 70%				180	496	476					847		1,999
Calloway: Central 20%				42	218	252					1,956		2,468
NKWSD 80%				161	873	1,002					7,823		9,859
Railroad: KCC & W Co. 20%											411		411
NKWSD 80%											1,646		1,646
Buena Vista (2-nd)											926		926
James (2-nd)											1,853		1,853
Pioneer (2-nd)											1,747		1,747
Beardsley (3-rd)											2,469		2,469
Kern Island (2-nd)											577		577
Computed Loss	676	611	676	655	676	655	676	676	655	676	655	676	7,963
Total 1st Point Group Entitlement	27,533	21,072	27,424	45,801	53,592	49,163	21,033	10,439	7,720	8,939	62,269	28,189	363,174

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

Quantities in acre-feet

Year: 2002

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FIRST POINT REGULATED FLOW	**25,339**	**19,898**	**26,465**	**28,300**	**34,740**	**54,714**	**58,163**	**36,317**	**16,197**	**13,351**	**20,063**	**23,613**	**357,160**
BEARDSLEY CANAL	2,622	3,832	9,267	6,963	12,105	13,660	16,310	8,582	2,820	2,509	4,191	5,669	88,530
CALLOWAY CANAL	3,025	1,400	1,829	2,307	3,092	105	2,253	3,850	3,189	2,723	567	110	24,450
KERN ISLAND CANAL	6,206	10,695	11,726	11,901	11,679	22,616	21,882	18,653	7,771	6,284	1,928	6,879	138,220
EASTSIDE CANAL	0	0	1,404	2,055	2,291	2,584	2,245	1,954	982	413	0	0	13,928
STINE CANAL	0	0	0	0	0	0	0	0	0	0	1,170	135	1,305
TRUXTUN LAKES	214	0	0	0	0	0	0	0	0	0	71	22	307
ARVIN-EDISON TURNOUT	0	0	0	0	0	0	1,693	0	0	0	0	0	1,693
BUENA VISTA CANAL	2,352	2,346	48	371	206	5,687	2,602	0	0	0	1,297	1,273	16,182
RIVER CANAL BOOSTERS	0	0	0	0	0	0	0	0	0	0	0	0	0
JAMES CANAL	0	0	0	0	0	0	0	0	0	0	0	0	0
ROSEDALE CHANNEL	581	0	0	0	0	0	0	0	0	0	75	2,533	3,189
PIONEER CANAL	0	0	0	0	0	46	153	0	0	0	0	0	199
BERRENDA MESA PIPELINE	0	0	0	0	0	131	300	0	0	0	0	0	431
PIONEER PROPERTY	0	0	0	0	0	0	0	0	0	0	0	0	0
BOSWELL TURNOUT	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
CARRIER CANAL LOSS/REFILL	619	659	541	1,045	715	1,164	831	383	0	0	1,514	442	7,913
RIVER LOSS & SPREADING	9,720	966	1,289	1,512	2,871	6,861	4,648	1,977	1,435	1,422	9,250	6,550	48,501
FIRST POINT CANALS TOTAL FLOW	**25,339**	**19,898**	**26,104**	**26,154**	**32,959**	**52,854**	**52,917**	**35,399**	**16,197**	**13,351**	**20,063**	**23,613**	**344,848**
TOTAL FLOW AT SECOND POINT	**0**	**0**	**361**	**2,146**	**1,781**	**1,860**	**5,246**	**918**	**0**	**0**	**0**	**0**	**12,312**
BUENA VISTA WSD	0	0	361	2,146	1,781	1,646	4,907	741	0	0	0	0	11,582
KERN WATER BANK	0	0	0	0	0	0	0	0	0	0	0	0	0
KERN DELTA WD	0	0	0	0	0	214	339	177	0	0	0	0	730

2002 Summary of Kern River Water Diversions by Entity

(Acre-Feet)

Area of Use	*Diverted*
Above First Point	
California Water Service Co.	1,252
Kern Valley Golf Course	191
La Hacienda, Inc.	133
Lake Ming	790
Olcese WD	795
City of Bakersfield	2
Sub-total	3,163
Below First Point	
Arvin-Edison WSD	1,693
Buena Vista WSD	11,582
Cawelo WD	28,019
City of Bakersfield, Irrigation and Spreading	63,365
Improvement District #4	24,450
Kern County Water Agency	0
Kern Delta WD	170,205
North Kern WSD	52,456
Rosedale Ranch Improvement District	95
Rosedale-Rio Bravo WSD	5,135
Kern-Tulare WD	0
Rag Gulch WD	0
South Fork	160
Sub-total	357,160
Grand Total	360,323

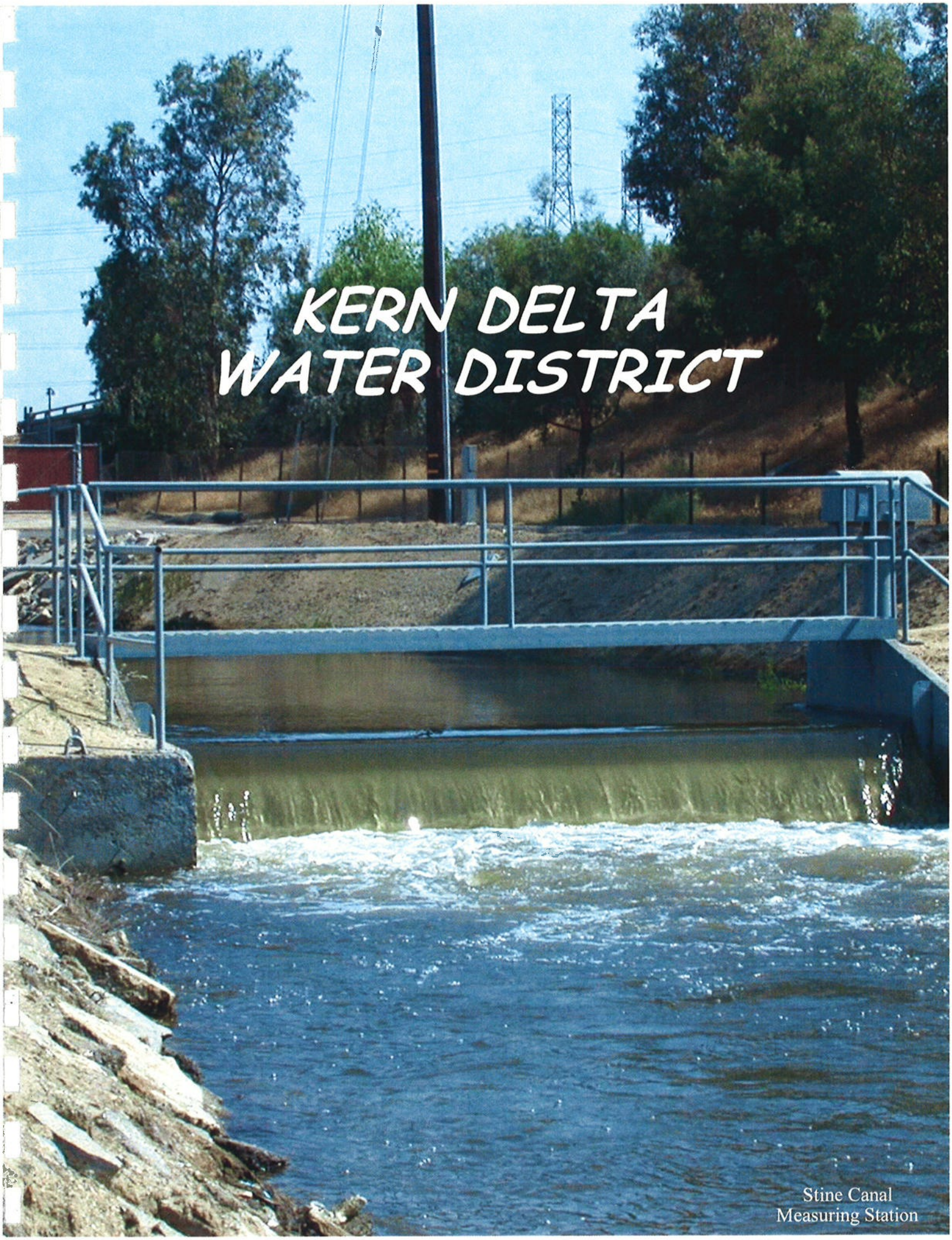
UTILIZATION OF STORAGE - ISABELLA RESERVOIR
KERN RIVER FIRST POINT GROUP

Year: 2002

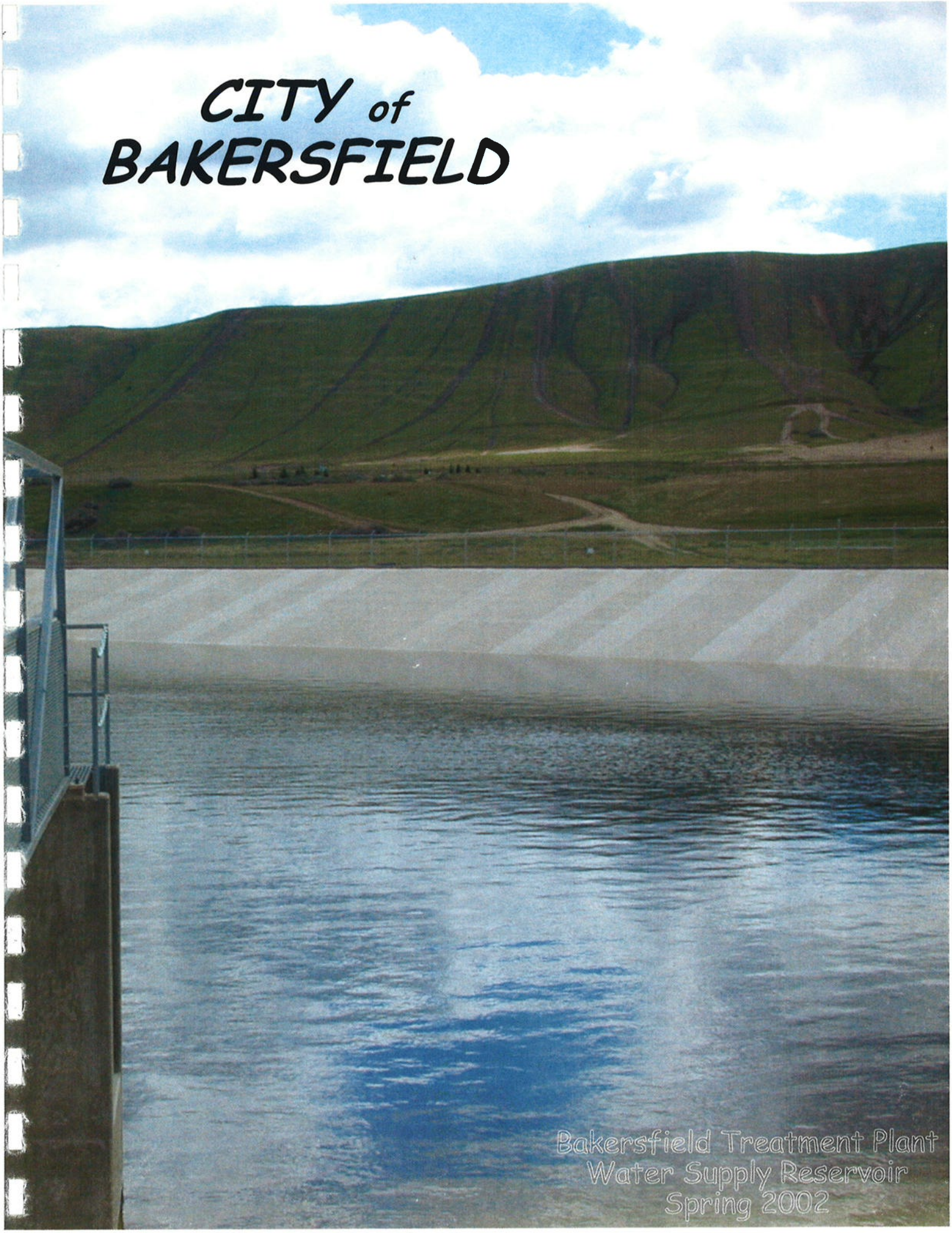
Quantities in acre-feet

End of Month Unit Storage

STORAGE UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern Island	2,500	4,196	4,126	6,327	9,134	8,620	7,000	16	91	2,223	2,500	2,500	49,233
Buena Vista	1,500	1,690	1,662	2,017	2,787	595	928	547	517	496	1,500	1,500	15,739
Stine	1,490	1,470	1,446	2,156	3,969	2,386	12	0	0	0	1,500	1,500	15,929
Farmers	1,180	1,164	1,144	1,823	3,519	1,928	18	0	0	0	1,500	1,500	13,776
KERN DELTA WD TOTAL	**6,670**	**8,520**	**8,378**	**12,323**	**19,409**	**13,529**	**7,958**	**563**	**608**	**2,719**	**7,000**	**7,000**	**94,677**
City of Bakersfield	5,427	5,219	6,499	15,032	22,344	29,283	15,643	8,178	6,618	5,556	14,573	15,229	149,601
Kern River Canal & Irr. Co.	114	0	0	0	48	0	0	0	0	0	4,733	4,667	9,562
South Fork	600	638	626	669	774	890	935	935	935	935	600	600	9,137
Improvement District No. 4	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY OF BAKERSFIELD TOTAL	**6,141**	**5,857**	**7,125**	**15,701**	**23,166**	**30,173**	**16,578**	**9,113**	**7,553**	**6,491**	**19,906**	**20,496**	**168,300**
NORTH KERN WSD	**31,019**	**30,837**	**30,972**	**38,214**	**44,073**	**43,430**	**36,355**	**30,060**	**23,673**	**19,242**	**43,621**	**47,015**	**418,511**
TOTAL 1ST POINT STORAGE	**43,830**	**45,214**	**46,475**	**66,238**	**86,648**	**87,132**	**60,891**	**39,736**	**31,834**	**28,452**	**70,527**	**74,511**	**681,488**


KERN DELTA
WATER DISTRICT
Stine Canal
Measuring Station

CITY of BAKERSFIELD



KERN DELTA WATER DISTRICT

Monthly Summary of Kern River Entitlements, Diversions,

Deliveries and Storage ... All Canals

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+	22,628	18,813	17,792	21,558	24,350	22,833	17,203	9,763	7,065	8,263	28,944	23,268	222,480
Release	+ or -	(12,742)	(3,566)	(5,510)	(3,550)	(3,228)	0	(601)	0	0	(176)	(19,146)	(14,563)	(63,082)
Entitlement + or - Releases	=	**9,886**	**15,247**	**12,282**	**18,008**	**21,122**	**22,833**	**16,602**	**9,763**	**7,065**	**8,087**	**9,798**	**8,705**	**159,398**
Into Isabella Storage	-	842	1,950	0	4,189	7,561	2,306	940	186	331	2,184	4,385	56	24,930
From Isabella Storage	+	0	0	0	2	20	7,548	6,035	7,357	252	4	0	0	21,218
From City of Bakersfield	+	0	0	0	0	0	0	0	0	0	0	0	0	0
From Buena Vista WSD	+	0	0	0	0	0	0	0	0	0	0	0	0	0
To City of Bakersfield	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Transfer/Exch.	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal Loss/Refill	-	607	659	0	0	0	0	0	0	0	0	1,189	418	2,873
Via North Kern WSD	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Via Cawelo Water District	-	0	0	0	0	0	0	0	0	0	0	0	0	0
For Improvement District No.4	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted at Heads of Canals	=	**8,437**	**12,638**	**12,282**	**13,821**	**13,581**	**28,075**	**21,697**	**16,934**	**6,986**	**5,907**	**4,224**	**8,231**	**152,813**
From North Kern WSD	+	0	0	0	0	0	0	0	0	0	0	0	0	0
From Cawelo Water District	+	0	0	0	0	0	0	0	0	0	0	0	0	0
From Improvement District No.4	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Utility Supply	=	**8,437**	**12,638**	**12,282**	**13,821**	**13,581**	**28,075**	**21,697**	**16,934**	**6,986**	**5,907**	**4,224**	**8,231**	**152,813**
Utility Deliveries		4,271	8,231	7,842	8,723	8,750	18,988	15,260	12,356	4,097	3,430	829	5,866	98,643
Contract Deliveries		91	518	732	509	479	374	444	592	193	143	39	8	4,122
Total Irrigation Deliveries	-	**4,362**	**8,749**	**8,574**	**9,232**	**9,229**	**19,362**	**15,704**	**12,948**	**4,290**	**3,573**	**868**	**5,874**	**102,765**
Canal Conveyance Losses	=	4,075	3,889	3,708	4,589	4,352	8,713	5,993	3,986	2,696	2,334	3,356	2,357	50,048
Delivery Percentage		52%	69%	70%	67%	68%	69%	72%	76%	61%	60%	21%	71%	67%

Reservoir Evaporation Loss		48	100	142	242	455	638	476	224	34	69	104	56	2,588
End of Month Reservoir Storage		**6,670**	**8,520**	**8,378**	**12,323**	**19,409**	**13,529**	**7,958**	**563**	**608**	**2,719**	**7,000**	**7,000**	

DISCHARGE IN CUBIC FEET PER SECOND — Total Flow via the Kern Island Canal Headgate — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	38	83	254	155	154	311	365	376	135	101	0	106
2	42	88	259	174	115	298	359	392	142	104	0	146
3	57	98	243	193	119	373	351	366	157	96	0	184
4	71	149	227	209	155	412	389	359	161	89	0	225
5	68	170	234	257	157	401	399	317	134	84	0	250
6	61	178	219	262	167	411	388	348	149	79	0	226
7	75	179	208	235	153	405	359	359	133	95	0	210
8	89	181	180	238	141	383	387	308	106	114	0	207
9	84	176	179	186	168	384	385	271	104	134	0	210
10	86	178	183	232	197	402	402	194	108	143	0	213
11	82	203	200	229	170	429	377	173	134	133	0	216
12	79	227	233	225	150	436	351	240	160	102	0	247
13	73	227	207	213	194	451	355	250	155	100	0	246
14	95	240	202	228	223	450	374	284	132	139	0	228
15	113	244	195	223	227	450	435	336	123	141	32	183
16	146	243	190	193	209	443	397	397	117	121	67	111
17	163	228	173	179	191	440	367	347	108	88	71	67
18	151	181	175	163	185	417	356	306	120	97	43	30
19	155	171	189	176	177	411	387	327	137	94	45	9
20	148	202	220	156	193	391	409	310	146	93	46	22
21	156	224	250	157	210	299	407	310	137	101	46	22
22	152	224	244	172	212	297	404	343	126	108	55	21
23	145	210	220	200	198	317	361	347	135	112	55	22
24	128	193	177	237	203	341	380	316	137	116	59	0
25	109	194	126	254	202	267	327	288	130	113	75	19
26	103	222	125	206	200	287	315	308	129	92	80	23
27	98	231	141	160	214	380	256	305	132	89	80	22
28	90	248	126	161	230	372	233	313	123	93	78	3
29	86	-	127	175	235	376	248	234	110	85	74	0
30	94	-	98	152	257	368	235	208	98	69	66	0
31	92	-	108	-	282	-	274	172	-	43	-	0
TOTAL	3,129	5,392	5,912	6,000	5,888	11,402	11,032	9,404	3,918	3,168	972	3,468
MAXIMUM DAY	163	248	259	262	282	451	435	397	161	143	80	250
MINIMUM DAY	38	83	98	152	115	267	233	172	98	43	0	0
MEAN	101	193	191	200	190	380	356	303	131	102	32	112
TOTAL AC. FT.	6,206	10,695	11,726	11,901	11,679	22,616	21,882	18,653	7,771	6,284	1,928	6,879

WHOLE YEAR:- TOTAL, 69,685 MAX., 451 MIN., 0 MEAN, 191 TOTAL AC.FT., 138,220

KERN DELTA WATER DISTRICT
KERN ISLAND CANAL SERVICE AREA

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+	18,446	16,655	17,792	17,851	18,446	17,851	17,203	9,763	7,065	8,263	17,794	18,446	185,575
Release	-	10,634	4,128	5,558	2,362	2,220	0	962	0	0	176	15,648	11,329	53,017
Entitlement + or - Releases	=	**7,812**	**12,527**	**12,234**	**15,489**	**16,226**	**17,851**	**16,241**	**9,763**	**7,065**	**8,087**	**2,146**	**7,117**	**132,558**
Into Storage	-	18	1,740	0	2,322	3,059	1,614	579	186	331	2,184	323	20	12,376
From Storage	+	0	0	0	0	20	1,823	1,820	6,980	252	4	0	0	10,899
From City of Bakersfield	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal Loss/Refill	-	212	83	0	0	0	0	0	0	0	0	54	58	407
Other	+/-	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer in Storage	+/-	0	0	0	0	0	0	0	377	0	0	0	0	377
Eastside Canal Entitlement	-	0	0	934	1,829	2,085	2,342	2,013	909	0	0	0	0	10,112
To City of Bakersfield	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Via Cawelo Water District	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Via North Kern WSD	-	0	0	0	0	0	0	0	0	0	0	0	0	0
For Improvement District No.4	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted at Head of Canal	=	**7,582**	**10,704**	**11,300**	**11,338**	**11,102**	**15,718**	**15,469**	**16,025**	**6,986**	**5,907**	**1,769**	**7,039**	**120,939**
From Cawelo Water District	+	0	0	0	0	0	0	0	0	0	0	0	0	0
From North Kern WSD	+	0	0	0	0	0	0	0	0	0	0	0	0	0
From Improvement District No.4	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Utility Supply	=	**7,582**	**10,704**	**11,300**	**11,338**	**11,102**	**15,718**	**15,469**	**16,025**	**6,986**	**5,907**	**1,769**	**7,039**	**120,939**
Utility Deliveries		3,890	6,904	7,206	7,037	7,100	10,464	11,061	11,624	4,097	3,430	382	5,316	78,511
Contract Deliveries		91	518	709	439	361	342	436	583	193	143	39	8	3,862
Total Irrigation Deliveries	-	**3,981**	**7,422**	**7,915**	**7,476**	**7,461**	**10,806**	**11,497**	**12,207**	**4,290**	**3,573**	**421**	**5,324**	**82,373**
Canal Conveyance Losses	=	3,601	3,282	3,385	3,862	3,641	4,912	3,972	3,818	2,696	2,334	1,348	1,715	38,566
Delivery Percentage		53%	69%	70%	66%	67%	69%	74%	76%	61%	60%	24%	76%	68%

Into Reservoir Storage	18	1,740	0	2,322	3,059	1,614	579	186	331	2,184	323	20	12,376
Reservoir Evaporation Loss	18	44	70	121	232	305	379	190	4	48	46	20	1,477
From Reservoir Storage	0	0	0	0	20	1,823	1,820	6,980	252	4	0	0	10,899
End of Month Reservoir Storage	**2,500**	**4,196**	**4,126**	**6,327**	**9,134**	**8,620**	**7,000**	**16**	**91**	**2,223**	**2,500**	**2,500**	

State Exchange Diverted	0	353	388	262	365	882	1,188	1,470	785	377	159	44	6,273
State Exchange Delivered	0	353	388	262	365	871	1,190	1,390	572	377	159	44	5,971
Carmel Water Diverted	0	0	0	0	0	0	0	688	0	0	0	0	688
Carmel Water Delivered	0	0	0	0	0	0	0	688	0	0	0	0	688
Oilfield Discharge Diverted	121	0	0	0	0	0	0	0	0	0	0	0	121
Oilfield Discharge Delivered	121	0	0	0	0	0	0	0	0	0	0	0	121

KERN ISLAND CANAL

ENTITLEMENT AND DIVERSION OF CONTRACT WATER

BALFOUR - GUTHRIE CONTRACT

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

Year: 2002

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
KERN ISLAND CANAL ENTITLEMENT:													
Maximum	18,446	16,661	18,424	17,851	18,446	17,851	18,446	18,446	17,851	18,446	17,851	18,446	217,165
Actual	18,446	16,655	17,792	17,851	18,446	17,851	17,203	9,763	7,065	8,263	17,217	18,446	184,998
Maximum Percentage	100.00%	99.96%	96.57%	100.00%	100.00%	100.00%	93.26%	52.93%	39.58%	44.80%	96.45%	100.00%	
CONTRACT ENTITLEMENT:													
Maximum	269	242	269	260	269	260	269	269	260	269	260	--	2,896
Actual	269	242	260	260	269	260	251	142	103	121	251	--	2,428
Sum to Date	269	511	771	1,031	1,300	1,560	1,811	1,953	2,056	2,177	2,428	2,428	
CONTRACT DIVERTED:													
For Month	31	343	299	104	122	188	265	412	0	0	0	0	1,764
To Date	31	374	673	777	899	1,087	1,352	1,764	1,764	1,764	1,764	1,764	
UNUSED ENTITLEMENT:													
For Month	238	(101)	(39)	156	147	72	(14)	(270)	103	121	251	0	664
Sum to Date	238	137	98	254	401	473	459	189	292	413	664	664	

KERN ISLAND CANAL

ENTITLEMENT AND DIVERSION OF CONTRACT WATER

BLOOMFIELD CONTRACT

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

Year: 2002

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
KERN ISLAND CANAL ENTITLEMENT:													
Maximum	18,446	16,661	18,424	17,851	18,446	17,851	18,446	18,446	17,851	18,446	17,851	18,446	217,165
Actual	18,446	16,655	17,792	17,851	18,446	17,851	17,203	9,763	7,065	8,263	17,217	18,446	184,998
Maximum Percentage	100.00%	99.96%	96.57%	100.00%	100.00%	100.00%	93.26%	52.93%	39.58%	44.80%	96.45%	100.00%	
CONTRACT ENTITLEMENT:													
Maximum	336	303	336	325	336	325	336	336	325	336	325	--	3,619
Actual	336	303	324	325	336	325	313	178	129	151	313	--	3,033
Sum to Date	336	639	963	1,288	1,624	1,949	2,262	2,440	2,569	2,720	3,033	3,033	
CONTRACT DIVERTED:													
For Month	60	175	410	335	239	154	171	171	193	143	39	8	2,098
To Date	60	235	645	980	1,219	1,373	1,544	1,715	1,908	2,051	2,090	2,098	
UNUSED ENTITLEMENT:													
For Month	276	128	(86)	(10)	97	171	142	7	(64)	8	274	(8)	935
Sum to Date	276	404	318	308	405	576	718	725	661	669	943	935	

DISCHARGE IN CUBIC FEET PER SECOND — Total Flow via the Eastside Canal Headgate — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	30	28	41	38	40	24	9	0	0
2	0	0	0	34	30	42	44	34	29	10	0	0
3	0	0	0	39	31	46	42	33	35	12	0	0
4	0	0	0	41	30	46	38	32	34	11	0	0
5	0	0	0	37	33	47	37	33	33	6	0	0
6	0	0	0	29	41	44	35	38	25	12	0	0
7	0	0	6	25	39	41	36	41	23	16	0	0
8	0	0	26	30	39	40	39	44	25	20	0	0
9	0	0	25	32	38	46	39	41	24	22	0	0
10	0	0	25	36	37	49	40	25	16	22	0	0
11	0	0	25	43	37	52	36	27	8	21	0	0
12	0	0	32	41	35	49	31	42	8	15	0	0
13	0	0	32	35	39	47	30	48	4	7	0	0
14	0	0	33	32	43	36	32	54	4	7	0	0
15	0	0	36	27	45	27	40	46	7	7	0	0
16	0	0	31	33	41	28	45	36	17	5	0	0
17	0	0	22	36	37	41	37	24	15	5	0	0
18	0	0	27	34	30	41	36	30	17	1	0	0
19	0	0	32	35	29	37	35	30	24	0	0	0
20	0	0	41	33	37	36	33	30	17	0	0	0
21	0	0	42	36	36	41	29	28	7	0	0	0
22	0	0	40	38	37	39	30	26	8	0	0	0
23	0	0	34	46	38	40	33	23	12	0	0	0
24	0	0	32	46	36	50	35	13	13	0	0	0
25	0	0	28	40	28	56	37	17	18	0	0	0
26	0	0	28	38	32	61	40	22	12	0	0	0
27	0	0	24	29	43	54	36	26	10	0	0	0
28	0	0	22	23	46	47	32	26	9	0	0	0
29	0	-	23	28	44	41	36	25	8	0	0	0
30	0	-	19	30	49	38	40	26	9	0	0	0
31	0	-	23	-	47	-	41	25	-	0	-	0
TOTAL	0	0	708	1,036	1,155	1,303	1,132	985	495	208	0	0
MAXIMUM DAY	0	0	42	46	49	61	45	54	35	22	0	0
MINIMUM DAY	0	0	0	23	28	27	29	13	4	0	0	0
MEAN	0	0	23	35	37	43	37	32	17	7	0	0
TOTAL AC. FT.	0	0	1,404	2,055	2,291	2,584	2,245	1,954	982	413	0	0

WHOLE YEAR:- TOTAL, 7,022 MAX., 61 MIN., 0 MEAN, 19 TOTAL AC.FT., 13,928

KERN DELTA WATER DISTRICT
EASTSIDE CANAL SERVICE AREA

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+	0	0	934	1,829	2,085	2,342	2,013	909	0	0	0	0	10,112
State Exchange Diverted	+	0	0	470	226	206	242	232	1,045	982	413	0	0	3,816
City Miscellaneous Diverted	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Oilfield Discharge Diverted	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Eastside Canal at Head	=	**0**	**0**	**1,404**	**2,055**	**2,291**	**2,584**	**2,245**	**1,954**	**982**	**413**	**0**	**0**	**13,928**
Utility Deliveries	+	0	0	636	1,276	1,461	1,841	1,618	732	0	0	0	0	7,564
Contract Deliveries	+	0	0	23	70	118	32	8	9	0	0	0	0	260
Subtotal Utility Deliveries	=	0	0	659	1,346	1,579	1,873	1,626	741	0	0	0	0	7,824
State Exchange Delivered	+	0	0	195	226	206	242	232	899	741	377	0	0	3,118
City Miscellaneous Delivered	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Oilfield Discharge Delivered	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Arvin-Edison Payback Delivered	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal State/Other Deliveries	=	0	0	195	226	206	242	232	899	741	377	0	0	3,118
Total Irrigation Deliveries		**0**	**0**	**854**	**1,572**	**1,785**	**2,115**	**1,858**	**1,640**	**741**	**377**	**0**	**0**	**10,942**
Canal Loss (Utility)	+	0	0	275	483	506	469	387	168	0	0	0	0	2,288
Canal Loss (State)	+	0	0	275	0	0	0	0	146	241	36	0	0	698
Canal Loss (Other)	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Canal Loss	=	**0**	**0**	**550**	**483**	**506**	**469**	**387**	**314**	**241**	**36**	**0**	**0**	**2,986**
Delivery Percentage		0%	0%	61%	76%	78%	82%	83%	84%	75%	91%	0%	0%	79%

DISCHARGE IN CUBIC FEET PER SECOND — Total Flow via the Buena Vista Canal Headgate — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11	56	0	23	0	23	92	0	0	0	10	14
2	21	55	0	26	0	87	83	0	0	0	45	19
3	21	54	0	28	0	100	70	0	0	0	42	25
4	23	51	0	13	0	108	74	0	0	0	35	17
5	22	37	0	0	0	114	74	0	0	0	34	21
6	17	38	0	0	0	126	70	0	0	0	33	27
7	13	34	0	0	0	122	66	0	0	0	34	28
8	16	30	0	0	0	105	70	0	0	0	46	27
9	16	31	0	0	0	105	73	0	0	0	43	26
10	19	28	0	0	0	117	64	0	0	0	13	30
11	20	24	0	0	0	112	66	0	0	0	9	47
12	22	24	0	0	0	102	81	0	0	0	26	47
13	20	24	0	0	0	95	83	0	0	0	26	48
14	15	28	0	0	0	95	75	0	0	0	25	47
15	16	25	0	0	0	95	72	0	0	0	22	44
16	18	22	0	0	0	91	66	0	0	0	22	27
17	18	26	0	8	12	93	58	0	0	0	22	27
18	18	34	0	16	22	93	40	0	0	0	20	28
19	18	33	0	16	23	89	35	0	0	0	13	19
20	57	52	0	14	23	88	0	0	0	0	13	25
21	66	54	0	13	20	83	0	0	0	0	13	14
22	63	67	0	14	4	73	0	0	0	0	12	8
23	69	68	0	12	0	76	0	0	0	0	12	7
24	74	72	0	4	0	91	0	0	0	0	12	0
25	72	71	0	0	0	108	0	0	0	0	12	0
26	71	61	0	0	0	95	0	0	0	0	12	9
27	84	58	0	0	0	96	0	0	0	0	12	8
28	73	26	0	0	0	95	0	0	0	0	12	3
29	71	-	0	0	0	94	0	0	0	0	12	0
30	74	-	4	0	0	96	0	0	0	0	12	0
31	68	-	20	-	0	-	0	0	-	0	-	0
TOTAL	1,186	1,183	24	187	104	2,867	1,312	0	0	0	654	642
MAXIMUM DAY	84	72	20	28	23	126	92	0	0	0	46	48
MINIMUM DAY	11	22	0	0	0	23	0	0	0	0	9	0
MEAN	38	42	1	6	3	96	42	0	0	0	22	21
TOTAL AC. FT.	2,352	2,346	48	371	206	5,687	2,602	0	0	0	1,297	1,273

WHOLE YEAR:- TOTAL, 8,159 MAX., 126 MIN., 0 MEAN, 22 TOTAL AC.FT., 16,182

KERN DELTA WATER DISTRICT

BUENA VISTA CANAL SERVICE AREA

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+	2,958	2,158	0	797	1,246	1,057	0	0	0	0	4,736	3,489	16,441
Release	+ or -	(1,263)	562	48	(27)	(201)	0	361	0	0	0	(1,368)	(2,072)	(3,960)
Entitlement + or - Releases	=	**1,695**	**2,720**	**48**	**770**	**1,045**	**1,057**	**361**	**0**	**0**	**0**	**3,368**	**1,417**	**12,481**
Into Storage	-	445	210	0	399	839	24	361	0	0	0	1,026	12	3,316
From Storage	+	0	0	0	0	0	2,147	0	347	0	0	0	0	2,494
Via Cawelo Water District	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Via North Kern WSD	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer in Storage	+ or -	0	0	0	0	0	0	0	(347)	0	0	0	0	(347)
Carrier Canal Loss	-	395	576	0	0	0	0	0	0	0	0	1,045	348	2,364
Diverted at Head of Canal	=	**855**	**1,934**	**48**	**371**	**206**	**3,180**	**0**	**0**	**0**	**0**	**1,297**	**1,057**	**8,948**
From Cawelo Water District	+	0	0	0	0	0	0	0	0	0	0	0	0	0
From North Kern WSD	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Utility Supply	=	**855**	**1,934**	**48**	**371**	**206**	**3,180**	**0**	**0**	**0**	**0**	**1,297**	**1,057**	**8,948**
Utility Deliveries		381	1,327	0	127	21	2,351	0	0	0	0	436	550	5,193
Contract Deliveries		0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Deliveries	-	**381**	**1,327**	**0**	**127**	**21**	**2,351**	**0**	**0**	**0**	**0**	**436**	**550**	**5,193**
Canal Conveyance Losses	=	474	607	48	244	185	829	0	0	0	0	861	507	3,755
Delivery Percentage		45%	69%	0%	34%	10%	74%	0%	0%	0%	0%	34%	52%	58%

Into Reservoir Storage		445	210	0	399	839	24	361	0	0	0	1,026	12	3,316
Reservoir Evaporation Loss		10	20	28	44	69	69	28	34	30	21	22	12	387
From Reservoir Storage		0	0	0	0	0	2,147	0	347	0	0	0	0	2,494
End of Month Reservoir Storage		**1,500**	**1,690**	**1,662**	**2,017**	**2,787**	**595**	**928**	**547**	**517**	**496**	**1,500**	**1,500**	

State Exchange Diverted		0	0	0	0	0	1,729	2,150	0	0	0	0	0	3,879
State Exchange Delivered		0	0	0	0	0	1,461	1,737	0	0	0	0	0	3,198
Friant-Kern Floodwater Diverted		0	0	0	0	0	0	0	0	0	0	0	0	0
Friant-Kern Floodwater Delivered		0	0	0	0	0	0	0	0	0	0	0	0	0
City of Bakersfield via Buena Vista		0	0	0	0	0	0	0	0	0	0	0	0	0

KERN DELTA WATER DISTRICT
BUENA VISTA CANAL

DISTRIBUTION OF WATER

Quantities in acre-feet

Year: 2002

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Buena Vista Canal at Headworks	2,352	2,346	48	371	206	5,687	2,602	0	0	0	1,297	1,273	16,182
Buena Vista Canal from Maples Canal	0	0	0	0	0	214	339	177	0	0	0	0	730
TOTAL BUENA VISTA CANAL SUPPLY	**2,352**	**2,346**	**48**	**371**	**206**	**5,901**	**2,941**	**177**	**0**	**0**	**1,297**	**1,273**	**16,912**
Deliveries: Head to Section 17													
Buena Vista Utility	252	563	0	127	21	1,111	0	0	0	0	271	28	2,373
Buena Vista State Exchange	0	0	0	0	0	708	879	0	0	0	0	0	1,587
Stine Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Total	**252**	**563**	**0**	**127**	**21**	**1,819**	**879**	**0**	**0**	**0**	**271**	**28**	**3,960**
Deliveries: At or Below Section 17													
Buena Vista Utility	129	764	0	0	0	1,240	0	0	0	0	165	522	2,820
Buena Vista State Exchange	0	0	0	0	0	753	858	0	0	0	0	0	1,611
Stine Utility	0	0	0	0	0	97	0	0	0	0	0	0	97
Stine State Exchange	0	0	0	0	0	42	0	0	0	0	0	0	42
Kern Island Utility	1,107	355	0	0	0	634	555	218	0	0	0	177	3,046
Kern Island State Exchange	0	0	0	0	0	78	84	0	0	0	0	0	162
Sub-Total	**1,236**	**1,119**	**0**	**0**	**0**	**2,844**	**1,497**	**218**	**0**	**0**	**165**	**699**	**7,778**
TOTAL DELIVERED	**1,488**	**1,682**	**0**	**127**	**21**	**4,663**	**2,376**	**218**	**0**	**0**	**436**	**727**	**11,738**
Canal Conveyance Losses	864	664	48	244	185	1,238	565	(41)	0	0	861	546	5,174
Delivery Percentage	63%	72%	0%	34%	10%	79%	81%	123%	0%	0%	34%	57%	69%
DISTRIBUTION:													
Buena Vista Utility	855	1,934	48	371	206	3,180	0	0	0	0	1,297	1,057	8,948
Buena Vista State Exchange	0	0	0	0	0	1,729	2,150	0	0	0	0	0	3,879
Stine Utility	0	0	0	0	0	97	0	0	0	0	0	0	97
Stine State Exchange	0	0	0	0	0	42	0	0	0	0	0	0	42
Kern Island Utility	1,497	412	0	0	0	764	708	177	0	0	0	216	3,774
Kern Island State Exchange	0	0	0	0	0	89	83	0	0	0	0	0	172
Kern River Floodwater	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	**2,352**	**2,346**	**48**	**371**	**206**	**5,901**	**2,941**	**177**	**0**	**0**	**1,297**	**1,273**	**16,912**

DISCHARGE IN CUBIC FEET PER SECOND | Total Flow via the Stine Canal Headgate | Year: 2002

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	40
2	0	0	0	0	0	0	0	0	0	0	0	28
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	9	0
16	0	0	0	0	0	0	0	0	0	0	39	0
17	0	0	0	0	0	0	0	0	0	0	41	0
18	0	0	0	0	0	0	0	0	0	0	39	0
19	0	0	0	0	0	0	0	0	0	0	34	0
20	0	0	0	0	0	0	0	0	0	0	35	0
21	0	0	0	0	0	0	0	0	0	0	37	0
22	0	0	0	0	0	0	0	0	0	0	39	0
23	0	0	0	0	0	0	0	0	0	0	40	0
24	0	0	0	0	0	0	0	0	0	0	40	0
25	0	0	0	0	0	0	0	0	0	0	40	0
26	0	0	0	0	0	0	0	0	0	0	40	0
27	0	0	0	0	0	0	0	0	0	0	40	0
28	0	0	0	0	0	0	0	0	0	0	40	0
29	0	-	0	0	0	0	0	0	0	0	40	0
30	0	-	0	0	0	0	0	0	0	0	37	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	0	0	0	0	0	590	68
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	41	40
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	20	2
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	1,170	135

WHOLE YEAR:- TOTAL, 658 MAX., 41 MIN., 0 MEAN, 2 TOTAL AC.FT., 1,305

DISCHARGE IN CUBIC FEET PER SECOND | Stine via Arvin-Edison Intake Canal | Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	36	0	0	0	0
2	0	0	0	0	0	0	48	35	0	0	0	0
3	0	0	0	0	0	0	42	19	0	0	0	0
4	0	0	0	0	0	44	42	0	0	0	0	0
5	0	0	0	0	0	44	42	0	0	0	0	0
6	0	0	0	0	0	49	43	0	0	0	0	0
7	0	0	0	0	0	49	43	0	0	0	0	0
8	0	0	0	0	0	49	48	0	0	0	0	0
9	0	0	0	0	0	46	47	0	0	0	0	0
10	0	0	0	0	0	49	55	0	0	0	0	0
11	0	0	0	0	0	49	57	0	0	0	0	0
12	0	0	0	0	0	59	56	0	0	0	0	0
13	0	0	0	0	0	52	56	0	0	0	0	0
14	0	0	0	0	0	54	52	0	0	0	0	0
15	0	0	0	0	0	56	55	0	0	0	0	0
16	0	0	0	0	0	54	58	0	0	0	0	0
17	0	0	0	0	0	57	50	0	0	0	0	0
18	0	0	0	0	0	53	44	0	0	0	0	0
19	0	0	0	0	0	54	45	0	0	0	0	0
20	0	0	0	0	0	53	25	0	0	0	0	0
21	0	0	0	0	0	52	25	0	0	0	0	0
22	0	0	0	0	0	52	25	0	0	0	0	0
23	0	0	0	0	0	53	21	0	0	0	0	0
24	0	0	0	0	0	53	20	0	0	0	0	0
25	0	0	0	0	0	50	25	0	0	0	0	0
26	0	0	0	0	0	51	24	0	0	0	0	0
27	0	0	0	0	0	61	26	0	0	0	0	0
28	0	0	0	0	0	58	26	0	0	0	0	0
29	0	-	0	0	0	56	27	0	0	0	0	0
30	0	-	0	0	0	53	26	0	0	0	0	0
31	0	-	0	-	0	-	31	0	-	0	-	0
TOTAL	0	0	0	0	0	1,410	1,184	90	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	61	58	36	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	47	38	3	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	2,797	2,348	179	0	0	0	0

WHOLE YEAR:- TOTAL, 2,684 MAX., 61 MIN., 0 MEAN, 7 TOTAL AC.FT., 5,324

KERN DELTA WATER DISTRICT
STINE CANAL SERVICE AREA

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+	1,023	0	0	1,496	2,341	1,978	0	0	0	0	3,703	938	11,479
Release	+ or -	(785)	0	0	(744)	(445)	0	0	0	0	0	(1,469)	(868)	(4,311)
Entitlement + or - Releases	=	**238**	**0**	**0**	**752**	**1,896**	**1,978**	**0**	**0**	**0**	**0**	**2,234**	**70**	**7,168**
Into Storage	-	238	0	0	752	1,896	555	0	0	0	0	1,518	12	4,971
From Storage	+	0	0	0	0	0	1,991	2,337	12	0	0	0	0	4,340
Via North Kern WSD	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Via Cawelo Water District	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer in Storage	+ or -	0	0	0	0	0	0	0	(12)	0	0	0	0	(12)
Carrier Canal Loss	-	0	0	0	0	0	0	0	0	0	0	52	4	56
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted at Head of Canal	=	**0**	**0**	**0**	**0**	**0**	**3,414**	**2,337**	**0**	**0**	**0**	**664**	**54**	**6,469**
From Cawelo Water District	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Utility Supply	=	**0**	**0**	**0**	**0**	**0**	**3,414**	**2,337**	**0**	**0**	**0**	**664**	**54**	**6,469**
Utility Deliveries		0	0	0	0	0	2,085	1,324	0	0	0	11	0	3,420
Contract Deliveries		0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Deliveries	-	**0**	**0**	**0**	**0**	**0**	**2,085**	**1,324**	**0**	**0**	**0**	**11**	**0**	**3,420**
Canal Conveyance Losses	=	0	0	0	0	0	1,329	1,013	0	0	0	653	54	3,049
Delivery Percentage		0%	0%	0%	0%	0%	61%	57%	0%	0%	0%	2%	0%	53%

Into Reservoir Storage		238	0	0	752	1,896	555	0	0	0	0	1,518	12	4,971
Reservoir Evaporation Loss		12	20	24	42	83	147	37	0	0	0	18	12	395
From Reservoir Storage		0	0	0	0	0	1,991	2,337	12	0	0	0	0	4,340
End of Month Reservoir Storage		**1,490**	**1,470**	**1,446**	**2,156**	**3,969**	**2,386**	**12**	**0**	**0**	**0**	**1,500**	**1,500**	

State Exchange Diverted		0	0	0	0	0	155	797	298	0	0	0	0	1,250
State Exchange Delivered		0	0	0	0	0	155	377	177	0	0	0	0	709
City of Bakersfield via Stine		0	0	0	0	0	0	0	0	0	0	0	0	0

KERN DELTA WATER DISTRICT
FARMERS CANAL SERVICE AREA

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+	201	0	0	1,414	2,317	1,947	0	0	0	0	2,711	395	8,985
Release	+ or -	(60)	0	0	(417)	(362)	0	0	0	0	0	(661)	(294)	(1,794)
Entitlement + or - Releases	=	**141**	**0**	**0**	**997**	**1,955**	**1,947**	**0**	**0**	**0**	**0**	**2,050**	**101**	**7,191**
Into Storage	-	141	0	0	716	1,767	113	0	0	0	0	1,518	12	4,267
From Storage	+	0	0	0	2	0	1,587	1,878	18	0	0	0	0	3,485
Transfer in Storage	+ or -	0	0	0	0	0	0	0	(18)	0	0	0	0	(18)
Carrier Canal Loss	-	0	0	0	0	0	0	0	0	0	0	38	8	46
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted at Head of Canal	=	**0**	**0**	**0**	**283**	**188**	**3,421**	**1,878**	**0**	**0**	**0**	**494**	**81**	**6,345**
Utility Deliveries		0	0	0	283	168	2,247	1,257	0	0	0	0	0	3,955
Contract Deliveries		0	0	0	0	0	0	0	0	0	0	0	0	0
Total Irrigation Deliveries	-	**0**	**0**	**0**	**283**	**168**	**2,247**	**1,257**	**0**	**0**	**0**	**0**	**0**	**3,955**
Canal Conveyance Losses	=	0	0	0	0	20	1,174	621	0	0	0	494	81	2,390
Delivery Percentage		0%	0%	0%	100%	89%	66%	67%	0%	0%	0%	0%	0%	62%

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Into Reservoir Storage	141	0	0	716	1,767	113	0	0	0	0	1,518	12	4,267
Reservoir Evaporation Loss	8	16	20	35	71	117	32	0	0	0	18	12	329
From Reservoir Storage	0	0	0	2	0	1,587	1,878	18	0	0	0	0	3,485
End of Month Reservoir Storage	**1,180**	**1,164**	**1,144**	**1,823**	**3,519**	**1,928**	**18**	**0**	**0**	**0**	**1,500**	**1,500**	

State Exchange Diverted	0	8	22	0	0	0	986	349	0	0	0	0	1,365
State Exchange Delivered	0	8	22	0	0	0	824	224	0	0	0	0	1,078

DISCHARGE IN CUBIC FEET PER SECOND

Kern Delta Water District Kern River Water Diverted via Kern River Canal

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	7	22	0	0	0	0
2	0	0	0	0	0	0	6	22	0	0	0	0
3	0	0	0	0	0	0	0	13	0	0	0	0
4	0	0	0	0	0	0	0	12	0	0	0	0
5	0	0	0	0	0	0	0	14	0	0	0	0
6	0	0	0	0	0	0	0	6	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	6	0	0	0	0	0
11	0	0	0	0	0	0	5	0	0	0	0	0
12	0	0	0	0	0	0	5	0	0	0	0	0
13	0	0	0	0	0	0	5	0	0	0	0	0
14	0	0	0	0	0	0	5	0	0	0	0	0
15	0	0	0	0	0	12	5	0	0	0	0	0
16	0	0	0	0	0	15	8	0	0	0	0	0
17	0	0	0	0	0	15	8	0	0	0	0	0
18	0	0	0	0	0	8	8	0	0	0	0	0
19	0	0	0	0	0	7	0	0	0	0	0	0
20	0	0	0	0	0	8	0	0	0	0	0	0
21	0	0	0	0	0	5	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	7	0	0	0	0	0
24	0	0	0	0	0	0	7	0	0	0	0	0
25	0	0	0	0	0	8	7	0	0	0	0	0
26	0	0	0	0	0	6	6	0	0	0	0	0
27	0	0	0	0	0	6	7	0	0	0	0	0
28	0	0	0	0	0	6	7	0	0	0	0	0
29	0	-	0	0	0	6	20	0	0	0	0	0
30	0	-	0	0	0	6	21	0	0	0	0	0
31	0	-	0	-	0	-	21	0	-	0	-	0
TOTAL	0	0	0	0	0	108	171	89	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	15	21	22	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	4	6	3	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	214	339	177	0	0	0	0

WHOLE YEAR:- TOTAL, 368 MAX., 22 MIN., 0 MEAN, 1 TOTAL AC.FT., 730

KERN DELTA WATER DISTRICT

State Aqueduct Exchange Diversion and Storage Recapitulation

Quantities in acre-feet

Year: 2002

		Kern Island	Eastside	East of Kern Island	Buena Vista	Stine	Farmers	Pioneer Project	For ID4	Via A-EWSD	Carrier Loss	Reservoir Loss	Total	Storage Balance
														1,066
	November	0	0	0	0	0	0	0	0	0	0	0	0	1,066
	December	0	0	0	0	0	0	0	0	0	0	0	0	1,066
2001	January	0	0	0	0	0	0	0	0	0	0	0	0	1,066
Carry	February	137	0	216	0	0	8	0	0	0	0	0	361	705
Over	March	145	405	133	0	0	22	0	0	0	0	0	705	0
	Total	**282**	**405**	**349**	**0**	**0**	**30**	**0**	**0**	**0**	**0**	**0**	**1,066**	
														18,388
	March	45	65	65	0	0	0	0	0	0	0	0	175	18,213
	April	99	226	163	0	0	0	0	0	0	0	0	488	17,725
	May	300	206	65	0	0	0	0	0	0	0	0	571	17,154
	June	674	242	208	1,729	155	0	0	0	0	0	0	3,008	14,146
2002	July	631	232	557	2,150	797	986	0	0	0	0	0	5,353	8,793
Contract	August	911	1,045	559	0	298	349	0	0	0	0	0	3,162	5,631
	September	551	982	234	0	0	0	0	0	0	0	0	1,767	3,864
	October	309	413	68	0	0	0	0	0	0	0	0	790	3,074
	November	0	0	0	0	0	0	0	0	0	0	0	0	3,074
	Total	**3,520**	**3,411**	**1,919**	**3,879**	**1,250**	**1,335**	**0**	**0**	**0**	**0**	**0**	**15,314**	
														3,074
2002	November	81	0	78	0	0	0	0	0	0	0	0	159	2,915
Carry	December	32	0	12	0	0	0	0	0	0	0	0	44	2,871
Over	**Total**	**113**	**0**	**90**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**203**	

KERN RIVER CHANNEL OPERATIONS
CITY OF BAKERSFIELD

Quantities in acre-feet

Year: 2002

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
+	**Kern River at First Point of Measurement**	**25,339**	**19,898**	**26,465**	**28,300**	**34,740**	**54,714**	**58,163**	**36,317**	**16,197**	**13,351**	**20,063**	**23,613**	**357,160**
-	Computed Loss	676	611	676	655	676	655	676	676	655	676	655	676	7,963
-	Beardsley Canal at Head	2,622	3,832	9,267	6,963	12,105	13,660	16,310	8,582	2,820	2,509	4,191	5,669	88,530
-	Carrier Canal at Head	8,955	15,455	16,522	20,396	18,744	32,489	28,576	27,059	12,722	10,146	4,901	9,225	205,190
=	**Rocky Point Weir**	**13,086**	**0**	**0**	**286**	**3,215**	**7,910**	**12,601**	**0**	**0**	**20**	**10,316**	**8,043**	**55,477**
+	Carrier Waste Gate	0	0	0	0	0	0	0	0	0	18	14	0	32
+	Farmers-Stine-Anderson: to River	789	1,755	2,442	3,003	2,957	0	980	5,151	3,969	3,431	10	625	25,112
-	Farmers-Stine-Anderson: from River	1,374	0	0	125	885	0	1,662	0	0	0	2,220	0	6,266
-	Calloway Canal at Head	3,025	1,400	1,829	2,307	3,092	105	2,253	3,850	3,189	2,723	567	110	24,450
-	River Loss: Rocky Point to Calloway Weir	746	355	613	857	902	536	762	719	780	746	873	690	8,579
=	**Calloway River Weir**	**8,730**	**0**	**0**	**0**	**1,293**	**7,269**	**8,904**	**582**	**0**	**0**	**6,680**	**7,868**	**41,326**
+	CVC T.O. #4 to River	0	0	434	936	0	0	0	498	532	0	0	1,553	3,953
+	CVC T.O. #3 to River	0	0	77	190	0	0	0	302	325	0	0	0	894
+	Friant-Kern Inflow	0	0	0	0	0	0	0	0	0	0	0	175	175
-	River Canal from River	0	0	0	0	0	2,170	5,708	0	0	0	0	383	8,261
-	River Loss: Cally. Weir to River Canal Weir	6,356	0	511	1,126	1,293	4,962	3,166	1,382	857	0	6,619	5,220	31,492
=	**River Canal Weir**	**2,374**	**0**	**0**	**0**	**0**	**137**	**30**	**0**	**0**	**0**	**61**	**3,993**	**6,595**
+	Pioneer Turnout	149	0	0	0	0	748	467	0	0	0	1,117	232	2,713
+	CVC T.O. #2 to River	0	0	0	0	0	615	1,416	0	0	0	0	0	2,031
-	Rosedale Channel at Head	581	0	0	0	0	0	0	0	0	0	75	2,533	3,189
-	Pioneer Canal at Head	0	0	0	0	0	46	153	0	0	0	0	0	199
-	Berrenda Mesa Pipeline Turnout	0	0	0	0	0	131	300	0	0	0	0	0	431
-	River Loss: River Canal to Bellevue Weir	1,942	0	0	0	0	764	591	0	0	0	992	1,634	5,923
=	**Flow at Bellevue Weir**	**0**	**0**	**0**	**0**	**0**	**559**	**869**	**0**	**0**	**0**	**111**	**58**	**1,597**
-	River Loss: Bellevue Weir to ID#4 Boundary	0	0	0	0	0	559	869	0	0	0	111	58	1,597
-	River Loss: ID#4 Boundary to 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
+	Outflow from Berrenda Mesa Spdg. Grounds	0	0	0	0	0	0	0	0	0	0	0	0	0
+	CVC T.O. #1 to River	0	0	1,191	1,160	0	0	0	0	0	0	0	0	2,351
+	River Canal Turnout to 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
-	Central Pioneer from 2800 Acres	0	0	0	42	0	0	0	0	0	0	0	0	42
-	North Pioneer from 2800 Acres	0	0	262	567	0	0	0	0	0	0	0	0	829
-	River Loss: 2800 Acres to Second Point	0	0	0	0	0	0	0	0	0	0	0	0	0
-	2800 Acre Recharge Facility	0	0	929	551	0	0	0	0	0	0	0	0	1,480
=	**Second Point via Kern River Channel**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

CARRIER CANAL OPERATIONS
CITY OF BAKERSFIELD

Quantities in acre-feet

Year: 2002

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
+ **Carrier Canal at Head**	**8,955**	**15,455**	**16,522**	**20,396**	**18,744**	**32,489**	**28,576**	**27,059**	**12,722**	**10,146**	**4,901**	**9,225**	**205,190**
- Carrier Waste Gate	0	0	0	0	0	0	0	0	0	18	14	0	32
+ Oilfield Discharge	121	0	0	0	0	0	0	0	0	0	0	0	121
- Canal Refill	0	0	0	0	0	0	0	0	0	0	54	0	54
= **Carrier Reclamation Weir**	**9,076**	**15,455**	**16,522**	**20,396**	**18,744**	**32,489**	**28,576**	**27,059**	**12,722**	**10,128**	**4,833**	**9,225**	**205,225**
+ Storm Drain Inflow	0	0	0	0	0	0	0	0	0	0	83	38	121
- Eastside Canal at Head	0	0	1,404	2,055	2,291	2,584	2,245	1,954	982	413	0	0	13,928
- Kern Island Canal at Head	6,206	10,695	11,726	11,901	11,679	22,616	21,882	18,653	7,771	6,284	1,928	6,879	138,220
= **Levee No. 1**	**2,870**	**4,760**	**3,392**	**6,440**	**4,774**	**7,289**	**4,449**	**6,452**	**3,969**	**3,431**	**2,988**	**2,384**	**53,198**
- Farmers-Stine-Anderson: to River	789	1,755	2,442	3,003	2,957	0	980	5,151	3,969	3,431	10	625	25,112
+ Farmers-Stine-Anderson: from River	1,374	0	0	125	885	0	1,662	0	0	0	2,220	0	6,266
= **Carrier Canal at Oak Street**	**3,455**	**3,005**	**950**	**3,562**	**2,702**	**7,289**	**5,131**	**1,301**	**0**	**0**	**5,198**	**1,759**	**34,352**
- Stine Canal at Head	0	0	0	0	0	0	0	0	0	0	1,170	135	1,305
- Carrier to Truxtun Lakes	662	551	111	95	296	643	540	202	0	0	718	470	4,288
+ Truxtun Lakes to Carrier	448	551	111	95	296	643	540	202	0	0	647	448	3,981
- Arvin-Edison Turnout	0	0	0	0	0	0	1,693	0	0	0	0	0	1,693
- Total Carrier Canal Loss	740	659	541	1,045	715	1,164	831	383	0	0	1,543	480	8,101
+ River Canal from River	0	0	0	0	0	2,170	5,708	0	0	0	0	383	8,261
= **River Canal at Stockdale Highway**	**2,501**	**2,346**	**409**	**2,517**	**1,987**	**8,295**	**8,315**	**918**	**0**	**0**	**2,414**	**1,505**	**31,207**
- Buena Vista Canal at Head	2,352	2,346	48	371	206	5,687	2,602	0	0	0	1,297	1,273	16,182
- Pioneer Turnout	149	0	0	0	0	748	467	0	0	0	1,117	232	2,713
- James Canal at Head	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Pioneer Well Water Production	0	0	0	0	0	0	0	0	0	0	0	0	0
= **River Canal at Alternate Second Point**	**0**	**0**	**361**	**2,146**	**1,781**	**1,860**	**5,246**	**918**	**0**	**0**	**0**	**0**	**12,312**
+ 2800 Acre Well Water Production	0	0	0	2,039	3,122	3,364	3,450	3,370	658	0	0	1,685	17,688
+ Pioneer Well Water Production	0	0	0	0	0	0	0	0	0	0	0	0	0
+ KWB Well Water Production	0	0	0	199	309	0	0	0	0	0	0	0	508
- Kern Delta WD via River Canal	0	0	0	0	0	214	339	177	0	0	0	0	730
- KCWA via River Canal	0	0	0	199	309	2,793	3,450	1,997	0	0	0	0	8,748
- Henry Miller WD via River Canal	0	0	0	0	0	0	0	0	0	0	0	0	0
- County of Kern	0	0	0	0	0	0	0	1,373	658	0	0	1,685	3,716
= **Second Point Group Flow via River Canal**	**0**	**0**	**361**	**4,185**	**4,903**	**2,217**	**4,907**	**741**	**0**	**0**	**0**	**0**	**17,314**

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

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	+	1,059	845	8,944	18,747	18,919	17,510	3,071	0	0	0	4,171	1,107	74,373
Release	+	1,039	266	1,202	991	528	0	119	0	0	40	5,454	1,155	10,794
ENTITLEMENT + OR - RELEASES	=	**2,098**	**1,111**	**10,146**	**19,738**	**19,447**	**17,510**	**3,190**	**0**	**0**	**40**	**9,625**	**2,262**	**85,167**
NKWSD to City	+	292	0	134	0	0	0	0	0	0	0	0	2,533	2,959
From Reservoir Storage	+	0	143	18	0	0	4,397	13,080	6,864	1,093	775	0	0	26,370
Into Reservoir Storage	-	162	10	1,407	8,805	7,886	12,330	332	0	0	0	9,203	775	40,910
Other	+ or -	0	10	0	0	0	40	0	(54)	(325)	(179)	873	6	371
TOTAL SUPPLY	=	**2,228**	**1,254**	**8,891**	**10,933**	**11,561**	**9,617**	**15,938**	**6,810**	**768**	**636**	**1,295**	**4,026**	**73,957**

Lake Ming		16	16	44	60	77	105	127	121	91	65	42	26	790
Kern Valley Golf Course		0	4	6	19	28	30	32	30	22	20	0	0	191
California Water Service Company		38	46	73	104	131	155	192	167	133	129	40	44	1,252
Olcese Water District		13	23	41	59	99	115	132	128	86	70	18	11	795
Glen Grundeis		0	0	0	0	0	0	0	0	0	0	2	0	2
Jack Jost		0	0	0	0	0	0	0	0	0	0	0	0	0
North Kern WSD (Basic Contract)		0	0	0	0	0	5,000	10,000	5,000	0	0	0	0	20,000
North Kern WSD (Miscellaneous)		541	364	0	0	0	0	0	0	0	0	0	0	905
North Kern WSD (Borrow/Payback)		0	0	2,121	3,384	828	0	0	0	0	0	0	0	6,333
Cawelo WD (Basic Contract)		0	0	2,840	2,560	5,400	0	665	0	0	0	0	0	11,465
Cawelo WD (Miscellaneous)		0	0	0	0	0	0	0	0	0	8	753	603	1,364
Kern-Tulare WD (Basic Contract)		0	0	2,123	2,751	3,404	91	290	0	0	0	0	0	8,659
Kern-Tulare WD (Miscellaneous)		0	0	0	0	0	0	0	0	0	0	0	0	0
Rag Gulch WD (Basic Contract)		0	0	319	413	511	14	42	0	0	0	0	0	1,299
Rag Gulch WD (Miscellaneous)		0	0	0	0	0	0	0	0	0	0	0	0	0
Rosedale RBWSD (Basic Contract)		581	0	0	0	0	0	0	0	0	0	75	2,533	3,189
Rosedale RBWSD (Miscellaneous)		1,038	0	0	0	0	0	0	0	0	0	101	807	1,946
Rosedale Ranch ID		0	0	0	0	0	0	0	0	0	0	0	0	0
Via Kern Island Canal		0	0	0	0	0	0	0	0	0	0	0	0	0
Kern County Water Agency		0	0	0	0	0	0	0	0	0	0	0	0	0
Improvement District No.4		0	0	0	0	0	0	0	0	0	0	0	0	0
Kern Delta Water District (Miscellaneous)		0	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Canal & Irrigating Co.		0	802	781	537	367	532	1,137	981	434	347	127	0	6,045
Truxtun Lakes		0	0	0	0	0	0	0	0	0	0	0	0	0
First Point Passing Second Point		0	0	0	0	0	0	0	0	0	0	0	0	0
2800 Acre Banking		0	0	0	0	0	0	0	0	0	0	0	0	0
River and Carrier Canal Loss		1	(1)	543	1,046	716	3,575	3,321	383	2	(3)	137	2	9,722
TOTAL DIVERTED	=	**2,228**	**1,254**	**8,891**	**10,933**	**11,561**	**9,617**	**15,938**	**6,810**	**768**	**636**	**1,295**	**4,026**	**73,957**

Into Reservoir Storage		162	10	1,407	8,805	7,886	12,330	332	0	0	0	9,203	775	40,910
Reservoir Evaporation Loss		46	75	109	272	574	994	892	601	467	287	186	119	4,622
From Reservoir Storage		0	143	18	0	0	4,397	13,080	6,864	1,093	775	0	0	26,370
End of Month Reservoir Storage		**5,427**	**5,219**	**6,499**	**15,032**	**22,344**	**29,283**	**15,643**	**8,178**	**6,618**	**5,556**	**14,573**	**15,229**	

CITY OF BAKERSFIELD
STATUS OF LONG TERM CONTRACTS

Quantities in acre-feet

NORTH KERN WATER STORAGE DISTRICT

Year	Basic Contract Amount	Cumulative Contract Amount	Basic Contract Delivered	Cumulative Contract Delivery	Basic Contract Balance
1977	20,000	20,000	20,000	20,000	0
1978	20,000	40,000	20,000	40,000	0
1979	20,000	60,000	20,000	60,000	0
1980	20,000	80,000	20,000	80,000	0
1981	20,000	100,000	20,000	100,000	0
1982	20,000	120,000	20,000	120,000	0
1983	20,000	140,000	20,000	140,000	0
1984	20,000	160,000	20,000	160,000	0
1985	20,000	180,000	20,000	180,000	0
1986	20,000	200,000	20,000	200,000	0
1987	20,000	220,000	20,000	220,000	0
1988	20,000	240,000	20,000	240,000	0
1989	20,000	260,000	20,000	260,000	0
1990	20,000	280,000	20,000	280,000	0
1991	20,000	300,000	20,000	300,000	0
1992	20,000	320,000	14,381	314,381	(5,619)
1993	20,000	340,000	23,700	338,081	(1,919)
1994	20,000	360,000	20,000	358,081	(1,919)
1995	20,000	380,000	21,919	380,000	0
1996	20,000	400,000	20,000	400,000	0
1997	20,000	420,000	20,000	420,000	0
1998	20,000	440,000	20,000	440,000	0
1999	20,000	460,000	20,000	460,000	0
2000	20,000	480,000	20,000	480,000	0
2001	20,000	500,000	20,000	500,000	0
2002	20,000	520,000	20,000	520,000	0

CAWELO WATER DISTRICT

Year	Basic Contract Amount	Cumulative Contract Amount	Basic Contract Delivered	Cumulative Contract Delivery	Basic Contract Balance
1977	27,000	27,000	5,024	5,024	(21,976)
1978	27,000	54,000	35,404	40,428	(13,572)
1979	27,000	81,000	36,780	77,208	(3,792)
1980	27,000	108,000	30,792	108,000	0
1981	27,000	135,000	27,000	135,000	0
1982	27,000	162,000	27,000	162,000	0
1983	27,000	189,000	27,000	189,000	0
1984	27,000	216,000	27,000	216,000	0
1985	27,000	243,000	27,000	243,000	0
1986	27,000	270,000	27,000	270,000	0
1987	27,000	297,000	27,000	297,000	0
1988	27,000	324,000	12,821	309,821	(14,179)
1989	27,000	351,000	22,460	332,281	(18,719)
1990	27,000	378,000	17,723	350,004	(27,996)
1991	27,000	405,000	29,316	379,320	(25,680)
1992	27,000	432,000	28,868	408,188	(23,812)
1993	27,000	459,000	32,000	440,188	(18,812)
1994	27,000	486,000	23,760	463,948	(22,052)
1995	27,000	513,000	32,000	495,948	(17,052)
1996	27,000	540,000	32,000	527,948	(12,052)
1997	27,000	567,000	32,000	559,948	(7,052)
1998	27,000	594,000	32,000	591,948	(2,052)
1999	27,000	621,000	29,052	621,000	0
2000	27,000	648,000	27,000	648,000	0
2001	27,000	675,000	15,670	663,670	(11,330)
2002	27,000	702,000	18,270	681,940	(20,060)

KERN-TULARE WATER DISTRICT

Year	Basic Contract Amount	Cumulative Contract Amount	Basic Contract Delivered	Cumulative Contract Delivery	Basic Contract Balance
1977	20,000	20,000	4,673	4,673	(15,327)
1978	20,000	40,000	23,690	28,363	(11,637)
1979	20,000	60,000	24,122	52,485	(7,515)
1980	20,000	80,000	23,403	75,888	(4,112)
1981	20,000	100,000	23,700	99,588	(412)
1982	20,000	120,000	20,412	120,000	0
1983	20,000	140,000	4,587	124,587	(15,413)
1984	20,000	160,000	20,000	144,587	(15,413)
1985	20,000	180,000	20,000	164,587	(15,413)
1986	20,000	200,000	20,000	184,587	(15,413)
1987	20,000	220,000	20,000	204,587	(15,413)
1988	20,000	240,000	11,763	216,350	(23,650)
1989	20,000	260,000	16,635	232,985	(27,015)
1990	20,000	280,000	0	232,985	(47,015)
1991	20,000	300,000	20,000	252,985	(47,015)
1992	20,000	320,000	9,089	262,074	(57,926)
1993	20,000	340,000	29,332	291,406	(48,594)
1994	20,000	360,000	18,348	309,754	(50,246)
1995	20,000	380,000	32,733	342,487	(37,513)
1996	20,000	400,000	23,700	366,187	(33,813)
1997	20,000	420,000	23,700	389,887	(30,113)
1998	20,000	440,000	23,700	413,587	(26,413)
1999	20,000	460,000	23,700	437,287	(22,713)
2000	20,000	480,000	20,000	457,287	(22,713)
2001	20,000	500,000	11,610	468,897	(31,103)
2002	20,000	520,000	8,659	477,556	(42,444)

RAG GULCH WATER DISTRICT

Year	Basic Contract Amount	Cumulative Contract Amount	Basic Contract Delivered	Cumulative Contract Delivery	Basic Contract Balance
1977	3,000	3,000	449	449	(2,551)
1978	3,000	6,000	3,550	3,999	(2,001)
1979	3,000	9,000	3,550	7,549	(1,451)
1980	3,000	12,000	3,550	11,099	(901)
1981	3,000	15,000	3,550	14,649	(351)
1982	3,000	18,000	3,351	18,000	0
1983	3,000	21,000	600	18,600	(2,400)
1984	3,000	24,000	3,000	21,600	(2,400)
1985	3,000	27,000	3,000	24,600	(2,400)
1986	3,000	30,000	3,000	27,600	(2,400)
1987	3,000	33,000	3,000	30,600	(2,400)
1988	3,000	36,000	1,764	32,364	(3,636)
1989	3,000	39,000	2,495	34,859	(4,141)
1990	3,000	42,000	0	34,859	(7,141)
1991	3,000	45,000	3,000	37,859	(7,141)
1992	3,000	48,000	1,363	39,222	(8,778)
1993	3,000	51,000	4,394	43,616	(7,384)
1994	3,000	54,000	2,753	46,369	(7,631)
1995	3,000	57,000	4,993	51,362	(5,638)
1996	3,000	60,000	3,550	54,912	(5,088)
1997	3,000	63,000	3,550	58,462	(4,538)
1998	3,000	66,000	3,550	62,012	(3,988)
1999	3,000	69,000	3,550	65,562	(3,438)
2000	3,000	72,000	3,000	68,562	(3,438)
2001	3,000	75,000	1,740	70,302	(4,698)
2002	3,000	78,000	1,299	71,601	(6,399)

CITY OF BAKERSFIELD

Deliveries to Long Term Contractors

Basic Contract

Quantities in acre-feet

Year: 2002

	NORTH KERN WSD		CAWELO WD		KERN-TULARE WD		RAG GULCH WD		MONTH TOTALS	
	Basic	Accum.	Basic	Accum.	Basic	Accum.	Basic	Accum.	Basic	Accum.
January	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0
March	0	0	2,840	2,840	2,123	2,123	319	319	5,282	5,282
April	0	0	2,560	5,400	2,751	4,874	413	732	5,724	11,006
May	0	0	5,400	10,800	3,404	8,278	511	1,243	9,315	20,321
June	5,000	5,000	0	10,800	91	8,369	14	1,257	5,105	25,426
July	10,000	15,000	665	11,465	290	8,659	42	1,299	10,997	36,423
August	5,000	20,000	0	11,465	0	8,659	0	1,299	5,000	41,423
September	0	20,000	0	11,465	0	8,659	0	1,299	0	41,423
October	0	20,000	0	11,465	0	8,659	0	1,299	0	41,423
November	0	20,000	1) 3,134	14,599	0	8,659	0	1,299	3,134	44,557
December	0	20,000	1) 3,671	18,270	0	8,659	0	1,299	3,671	48,228
Year Total	**20,000**		**18,270**		**8,659**		**1,299**		**48,228**	

Note: 1) Includes water delivered as per terms of City of Bakersfield/Cawelo Water District letter agreement dated May 16, 2002.

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted to North Kern WSD
(Basic Contract)
(Does not include deliveries into Isabella Reservoir storage)

Year: 2002

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

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

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted to North Kern WSD
(Miscellaneous)

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	19	0	0	0	0	0	0	0	0	0	0
2	0	19	0	0	0	0	0	0	0	0	0	0
3	0	19	0	0	0	0	0	0	0	0	0	0
4	0	18	0	0	0	0	0	0	0	0	0	0
5	0	18	0	0	0	0	0	0	0	0	0	0
6	0	19	0	0	0	0	0	0	0	0	0	0
7	0	18	0	0	0	0	0	0	0	0	0	0
8	0	4	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	9	3	0	0	0	0	0	0	0	0	0	0
18	19	3	0	0	0	0	0	0	0	0	0	0
19	19	4	0	0	0	0	0	0	0	0	0	0
20	19	1	0	0	0	0	0	0	0	0	0	0
21	19	11	0	0	0	0	0	0	0	0	0	0
22	19	8	0	0	0	0	0	0	0	0	0	0
23	18	6	0	0	0	0	0	0	0	0	0	0
24	19	7	0	0	0	0	0	0	0	0	0	0
25	19	2	0	0	0	0	0	0	0	0	0	0
26	19	0	0	0	0	0	0	0	0	0	0	0
27	19	0	0	0	0	0	0	0	0	0	0	0
28	19	4	0	0	0	0	0	0	0	0	0	0
29	19	-	0	0	0	0	0	0	0	0	0	0
30	19	-	0	0	0	0	0	0	0	0	0	0
31	18	-	0	-	0	-	0	0	-	0	-	0
TOTAL	273	183	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	19	19	0	0	0	0	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	9	7	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	541	364	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 456 MAX., 19 MIN., 0 MEAN, 1 TOTAL AC.FT., 905

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted to North Kern WSD
(Non-Kern River)

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1	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	1	0	0	0	0	0	0	0	0	0	0	0
20	1	0	0	0	0	0	0	0	0	0	0	0
21	1	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	4	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	1	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.	8	0	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 4 MAX., 1 MIN., 0 MEAN, 0 TOTAL AC.FT., 8

CAWELO WATER DISTRICT OPERATIONS

Quantities in acre-feet

Year: 2002

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
+	**Cawelo WD via Pump Station "B"**		**198**	**371**	**2,682**	**3,571**	**5,851**	**10,050**	**11,480**	**9,158**	**4,207**	**2,700**	**1,059**	**549**	**51,876**
	Lerdo Delivery Gate No. 8-0-1	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lerdo Delivery Gate No. 8-0-2	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lerdo Delivery Gate No. 8-0-10	+	0	0	0	0	0	125	246	36	0	143	0	0	550
	Lerdo Delivery Gate No. 8-0-15	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lerdo Delivery Gate No. 8-0-22	+	0	18	75	63	24	196	137	109	30	226	20	0	898
	Lerdo Delivery Gate No. 8-0-25	+	0	39	8	16	56	95	95	51	32	8	45	0	445
	Lerdo Delivery Gate No. 8-0-100	+	0	0	4	10	12	10	10	8	12	8	0	0	74
	Lerdo Delivery Gate No. 8-0-288	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lerdo Delivery Gate No. 8-0-289	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lerdo Delivery Gate No. 8-0-290	+	0	36	63	131	151	200	252	127	138	79	0	0	1,177
	Lerdo Delivery Gate No. 8-0-291	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lerdo Delivery Gate No. 8-0-292	+	0	2	8	12	16	12	26	8	14	12	0	0	110
	Lerdo Delivery Gate No. 8-23-006	+	0	0	0	0	0	0	0	0	0	0	0	0	0
+	**Total Lerdo Gate Deliveries**	=	**0**	**95**	**158**	**232**	**259**	**638**	**766**	**339**	**226**	**476**	**65**	**0**	3,254
	Beardsley Canal Loss	+	12	36	61	60	61	60	61	61	60	61	52	50	635
	Lerdo Loss	+	2	6	30	40	63	113	127	97	46	36	12	4	576
+	Total Loss	=	14	42	91	100	124	173	188	158	106	97	64	54	1,211
=	**Total Diverted for Cawelo WD**		**212**	**508**	**2,931**	**3,903**	**6,234**	**10,861**	**12,434**	**9,655**	**4,539**	**3,273**	**1,188**	**603**	**56,341**
	Cawelo Water District Source of Supply:														
+	City of Bakersfield Basic Contract		0	0	2,840	2,560	5,400	0	665	0	0	0	0	0	11,465
+	City of Bakersfield Miscellaneous		0	0	0	0	0	0	0	0	0	8	753	603	1,364
+	City of Bakersfield Non-Kern River		8	0	0	0	0	0	0	0	0	0	0	0	8
+	Kern River Canal & Irrigating Company		0	0	0	0	0	0	0	0	0	0	0	0	0
+	Sunview Vineyards Well		0	0	0	0	0	0	0	32	32	143	0	0	207
+	Paramount Farming Company Well		0	0	0	0	0	0	36	137	117	91	0	0	381
+	Buena Vista WSD Exchange		204	508	0	1,192	550	1,283	1,256	2,152	1,149	1,761	435	0	10,490
+	North Kern WSD Exchange		0	0	0	0	0	1,283	1,256	2,161	0	0	0	0	4,700
+	Kern Delta Water District Exchange		0	0	0	0	0	0	0	0	0	0	0	0	0
+	via CVC Conduit "A"		0	0	91	151	284	8,295	9,221	5,173	3,241	1,270	0	0	27,726
+	North Kern WSD Non-Kern River		0	0	0	0	0	0	0	0	0	0	0	0	0
=	**Total Cawelo Water District Supply**		**212**	**508**	**2,931**	**3,903**	**6,234**	**10,861**	**12,434**	**9,655**	**4,539**	**3,273**	**1,188**	**603**	**56,341**

DISCHARGE IN CUBIC FEET PER SECOND — Cawelo Water District Total Diverted via Beardsley-Lerdo Canal System — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	18	8	47	46	142	187	195	137	57	17	0
2	0	0	4	51	41	136	195	167	134	66	19	0
3	0	0	2	56	42	166	197	159	109	68	18	0
4	0	3	45	44	42	176	196	154	107	67	20	0
5	0	3	52	80	42	187	215	155	107	71	18	0
6	0	3	64	82	47	191	220	180	107	63	19	0
7	0	0	67	82	50	201	207	175	105	65	24	13
8	0	0	63	84	103	182	200	172	86	64	19	13
9	0	0	61	107	98	179	216	147	89	64	20	13
10	0	0	62	105	97	185	220	143	89	66	19	11
11	0	0	61	105	97	190	226	143	86	67	19	12
12	0	0	70	63	97	189	220	144	86	64	22	12
13	0	3	72	46	132	187	217	171	89	65	19	12
14	0	3	72	41	141	194	187	175	65	66	18	12
15	0	3	65	43	121	203	195	189	47	63	16	13
16	0	0	62	41	117	195	207	189	44	59	13	12
17	0	0	61	48	121	202	214	144	83	55	13	12
18	0	46	64	47	123	195	172	148	42	55	13	12
19	0	39	64	50	121	195	183	149	48	54	17	12
20	0	40	64	78	118	186	213	150	47	55	17	12
21	0	37	42	77	118	192	206	147	40	54	17	12
22	0	38	41	83	120	193	206	160	42	41	20	12
23	0	3	42	80	122	190	190	159	55	38	60	12
24	0	3	41	82	123	189	190	165	85	38	61	13
25	0	3	43	82	82	203	210	166	85	37	60	12
26	17	3	44	84	79	204	210	167	60	37	21	12
27	17	2	21	43	86	197	193	147	51	38	0	12
28	18	6	19	41	140	108	196	123	56	37	0	12
29	18	-	20	48	139	130	195	121	53	37	0	12
30	19	-	41	48	166	189	191	133	54	20	0	12
31	18	-	41	-	172	-	195	131	-	19	-	12
TOTAL	107	256	1,478	1,968	3,143	5,476	6,269	4,868	2,288	1,650	599	304
MAXIMUM DAY	19	46	72	107	172	204	226	195	137	71	61	13
MINIMUM DAY	0	0	2	41	41	108	172	121	40	19	0	0
MEAN	3	9	48	66	101	183	202	157	76	53	20	10
TOTAL AC. FT.	212	508	2,931	3,903	6,234	10,861	12,434	9,655	4,539	3,273	1,188	603

WHOLE YEAR:- TOTAL, 28,406 MAX., 226 MIN., 0 MEAN, 78 TOTAL AC.FT., 56,341

City of Bakersfield Diverted to Cawelo Water District

DISCHARGE IN CUBIC FEET PER SECOND (Basic Contract) Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	8	27	46	0	0	0	0	0	0	0
2	0	0	4	29	41	0	0	0	0	0	0	0
3	0	0	2	34	42	0	0	0	0	0	0	0
4	0	0	45	44	42	0	0	0	0	0	0	0
5	0	0	52	68	42	0	0	0	0	0	0	0
6	0	0	64	82	47	0	0	0	0	0	0	0
7	0	0	67	82	50	0	0	0	0	0	0	0
8	0	0	63	84	103	0	0	0	0	0	0	0
9	0	0	61	107	98	0	0	0	0	0	0	0
10	0	0	62	105	97	0	0	0	0	0	0	0
11	0	0	61	105	97	0	0	0	0	0	0	0
12	0	0	70	63	97	0	0	0	0	0	0	0
13	0	0	72	46	132	0	0	0	0	0	0	0
14	0	0	72	41	141	0	0	0	0	0	0	0
15	0	0	65	43	121	0	120	0	0	0	0	0
16	0	0	62	41	117	0	160	0	0	0	0	0
17	0	0	61	48	121	0	56	0	0	0	0	0
18	0	0	64	47	123	0	0	0	0	0	0	0
19	0	0	64	50	121	0	0	0	0	0	0	0
20	0	0	64	78	118	0	0	0	0	0	0	0
21	0	0	42	67	118	0	0	0	0	0	0	0
22	0	0	41	0	120	0	0	0	0	0	0	0
23	0	0	42	0	122	0	0	0	0	0	0	0
24	0	0	41	0	123	0	0	0	0	0	0	0
25	0	0	43	0	82	0	0	0	0	0	0	0
26	0	0	44	0	79	0	0	0	0	0	0	0
27	0	0	21	0	86	0	0	0	0	0	0	0
28	0	0	19	0	140	0	0	0	0	0	0	0
29	0	-	20	0	57	0	0	0	0	0	0	0
30	0	-	18	0	0	0	0	0	0	0	0	0
31	0	-	18	-	0	-	0	0	-	0	-	0
TOTAL	0	0	1,432	1,291	2,723	0	336	0	0	0	0	0
MAXIMUM DAY	0	0	72	107	141	0	160	0	0	0	0	0
MINIMUM DAY	0	0	2	0	0	0	0	0	0	0	0	0
MEAN	0	0	46	43	88	0	11	0	0	0	0	0
TOTAL AC. FT.	0	0	2,840	2,560	5,400	0	665	0	0	0	0	0

WHOLE YEAR:- TOTAL, 5,782 MAX., 160 MIN., 0 MEAN, 16 TOTAL AC.FT., 11,465

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield Diverted for Cawelo Water District
(Pursuant to terms of City/CWD Letter Agreement dated May 16, 2002)

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	24	76
2	0	0	0	0	0	0	0	0	0	0	92	77
3	0	0	0	0	0	0	0	0	0	0	91	76
4	0	0	0	0	0	0	0	0	0	0	87	68
5	0	0	0	0	0	0	0	0	0	0	86	62
6	0	0	0	0	0	0	0	0	0	0	84	60
7	0	0	0	0	0	0	0	0	0	0	88	55
8	0	0	0	0	0	0	0	0	0	0	74	56
9	0	0	0	0	0	0	0	0	0	0	72	56
10	0	0	0	0	0	0	0	0	0	0	88	71
11	0	0	0	0	0	0	0	0	0	0	39	68
12	0	0	0	0	0	0	0	0	0	0	44	76
13	0	0	0	0	0	0	0	0	0	0	53	33
14	0	0	0	0	0	0	0	0	0	0	45	15
15	0	0	0	0	0	0	0	0	0	0	34	36
16	0	0	0	0	0	0	0	0	0	0	36	29
17	0	0	0	0	0	0	0	0	0	0	49	25
18	0	0	0	0	0	0	0	0	0	0	35	9
19	0	0	0	0	0	0	0	0	0	0	25	2
20	0	0	0	0	0	0	0	0	0	0	39	34
21	0	0	0	0	0	0	0	0	0	0	32	14
22	0	0	0	0	0	0	0	0	0	0	31	90
23	0	0	0	0	0	0	0	0	0	0	25	93
24	0	0	0	0	0	0	0	0	0	0	30	93
25	0	0	0	0	0	0	0	0	0	0	0	93
26	0	0	0	0	0	0	0	0	0	0	0	77
27	0	0	0	0	0	0	0	0	0	0	41	78
28	0	0	0	0	0	0	0	0	0	0	75	90
29	0	-	0	0	0	0	0	0	0	0	73	78
30	0	-	0	0	0	0	0	0	0	0	88	75
31	0	-	0	-	0	-	0	0	-	0	-	86
TOTAL	0	0	0	0	0	0	0	0	0	0	1,580	1,851
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	92	93
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	2
MEAN	0	0	0	0	0	0	0	0	0	0	53	60
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	3,134	3,671

WHOLE YEAR:- TOTAL, 3,431 MAX., 93 MIN., 0 MEAN, 9 TOTAL AC.FT., 6,805

City of Bakersfield Diverted to Cawelo Water District

DISCHARGE IN CUBIC FEET PER SECOND (Miscellaneous) Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	8	0
2	0	0	0	0	0	0	0	0	0	0	11	0
3	0	0	0	0	0	0	0	0	0	0	8	0
4	0	0	0	0	0	0	0	0	0	0	5	0
5	0	0	0	0	0	0	0	0	0	0	6	0
6	0	0	0	0	0	0	0	0	0	0	7	0
7	0	0	0	0	0	0	0	0	0	0	8	13
8	0	0	0	0	0	0	0	0	0	0	19	13
9	0	0	0	0	0	0	0	0	0	0	19	13
10	0	0	0	0	0	0	0	0	0	0	19	11
11	0	0	0	0	0	0	0	0	0	0	19	12
12	0	0	0	0	0	0	0	0	0	0	19	12
13	0	0	0	0	0	0	0	0	0	0	18	12
14	0	0	0	0	0	0	0	0	0	0	18	12
15	0	0	0	0	0	0	0	0	0	0	16	13
16	0	0	0	0	0	0	0	0	0	0	13	12
17	0	0	0	0	0	0	0	0	0	0	13	12
18	0	0	0	0	0	0	0	0	0	0	13	12
19	0	0	0	0	0	0	0	0	0	0	17	12
20	0	0	0	0	0	0	0	0	0	0	17	12
21	0	0	0	0	0	0	0	0	0	0	17	12
22	0	0	0	0	0	0	0	0	0	0	19	12
23	0	0	0	0	0	0	0	0	0	0	19	12
24	0	0	0	0	0	0	0	0	0	0	18	13
25	0	0	0	0	0	0	0	0	0	0	19	12
26	0	0	0	0	0	0	0	0	0	0	14	12
27	0	0	0	0	0	0	0	0	0	0	0	12
28	0	0	0	0	0	0	0	0	0	0	0	12
29	0	-	0	0	0	0	0	0	0	0	0	12
30	0	-	0	0	0	0	0	0	0	0	0	12
31	0	-	0	-	0	-	0	0	-	4	-	12
TOTAL	0	0	0	0	0	0	0	0	0	4	379	304
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	4	19	13
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	13	10
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	8	753	603

WHOLE YEAR:- TOTAL, 687 MAX., 19 MIN., 0 MEAN, 2 TOTAL AC.FT., 1,364

DISCHARGE IN CUBIC FEET PER SECOND

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

Year: 2002

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	2	0	0	0	0	0	0	0	0	0	0	0
28	1	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	1	-	0	-	0	-	0	0	-	0	-	0
TOTAL	4	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	2	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.	8	0	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 4 MAX., 2 MIN., 0 MEAN, 0 TOTAL AC.FT., 8

Buena Vista WSD Diverted for Cawelo Water District

DISCHARGE IN CUBIC FEET PER SECOND **(Kern River/SWP Exchange)** **Year: 2002**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	18	0	0	0	26	14	56	20	13	9	0
2	0	0	0	0	0	23	17	42	17	16	8	0
3	0	0	0	0	0	38	19	38	13	17	10	0
4	0	3	0	0	0	20	18	36	6	16	15	0
5	0	3	0	0	0	14	27	36	6	20	12	0
6	0	3	0	0	0	15	30	49	7	15	12	0
7	0	0	0	0	0	21	24	46	7	18	16	0
8	0	0	0	0	0	11	20	46	0	17	0	0
9	0	0	0	0	0	9	28	32	0	17	1	0
10	0	0	0	0	0	13	30	30	0	16	0	0
11	0	0	0	0	0	15	33	30	3	17	0	0
12	0	0	0	0	0	14	30	31	3	17	3	0
13	0	3	0	0	0	14	28	44	0	18	1	0
14	0	3	0	0	0	17	14	46	0	16	0	0
15	0	3	0	0	0	21	17	53	0	37	0	0
16	0	0	0	0	0	18	24	53	16	56	0	0
17	0	0	0	0	0	21	27	32	78	52	0	0
18	0	46	0	0	0	17	3	32	39	52	0	0
19	0	39	0	0	0	18	9	33	45	51	0	0
20	0	40	0	0	0	13	24	33	44	52	0	0
21	0	37	0	10	0	16	21	32	40	51	0	0
22	0	38	0	83	0	16	20	40	39	35	1	0
23	0	3	0	80	0	15	15	39	52	34	41	0
24	0	3	0	82	0	15	15	42	57	35	43	0
25	0	3	0	82	0	21	24	41	38	34	41	0
26	17	3	0	84	0	22	23	41	13	34	7	0
27	15	2	0	43	0	19	17	31	7	35	0	0
28	17	6	0	41	0	6	16	9	10	34	0	0
29	18	-	0	48	82	65	16	0	9	34	0	0
30	19	-	0	48	113	94	14	7	10	17	0	0
31	17	-	0	-	82	-	16	5	-	12	-	0
TOTAL	103	256	0	601	277	647	633	1,085	579	888	220	0
MAXIMUM DAY	19	46	0	84	113	94	33	56	78	56	43	0
MINIMUM DAY	0	0	0	0	0	6	3	0	0	12	0	0
MEAN	3	9	0	20	9	22	20	35	19	29	7	0
TOTAL AC. FT.	204	508	0	1,192	550	1,283	1,256	2,152	1,149	1,761	435	0

WHOLE YEAR:- TOTAL, 5,289 MAX., 113 MIN., 0 MEAN, 14 TOTAL AC.FT., 10,490

DISCHARGE IN CUBIC FEET PER SECOND — Cawelo Water District Diverted via Cross Valley Canal Conduit "A" — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	20	0	90	160	80	116	44	0	0
2	0	0	0	22	0	90	160	80	116	44	0	0
3	0	0	0	22	0	90	160	80	96	45	0	0
4	0	0	0	0	0	136	160	80	96	45	0	0
5	0	0	0	12	0	160	160	80	96	45	0	0
6	0	0	0	0	0	160	160	80	95	45	0	0
7	0	0	0	0	0	160	160	80	95	44	0	0
8	0	0	0	0	0	160	160	80	86	44	0	0
9	0	0	0	0	0	160	160	80	86	44	0	0
10	0	0	0	0	0	160	160	80	86	44	0	0
11	0	0	0	0	0	160	160	80	80	44	0	0
12	0	0	0	0	0	160	160	80	80	44	0	0
13	0	0	0	0	0	160	160	80	86	44	0	0
14	0	0	0	0	0	160	160	80	63	44	0	0
15	0	0	0	0	0	160	40	80	42	20	0	0
16	0	0	0	0	0	160	0	80	26	0	0	0
17	0	0	0	0	0	160	104	80	0	0	0	0
18	0	0	0	0	0	160	165	80	0	0	0	0
19	0	0	0	0	0	160	165	80	0	0	0	0
20	0	0	0	0	0	160	165	80	0	0	0	0
21	0	0	0	0	0	160	165	80	0	0	0	0
22	0	0	0	0	0	160	165	80	0	0	0	0
23	0	0	0	0	0	160	160	80	0	0	0	0
24	0	0	0	0	0	160	160	80	25	0	0	0
25	0	0	0	0	0	160	160	80	44	0	0	0
26	0	0	0	0	0	160	160	80	44	0	0	0
27	0	0	0	0	0	160	160	80	44	0	0	0
28	0	0	0	0	0	96	160	100	44	0	0	0
29	0	-	0	0	0	0	160	116	44	0	0	0
30	0	-	23	0	53	0	160	116	44	0	0	0
31	0	-	23	-	90	-	160	116	-	0	-	0
TOTAL	0	0	46	76	143	4,182	4,649	2,608	1,634	640	0	0
MAXIMUM DAY	0	0	23	22	90	160	165	116	116	45	0	0
MINIMUM DAY	0	0	0	0	0	0	0	80	0	0	0	0
MEAN	0	0	1	3	5	139	150	84	54	21	0	0
TOTAL AC. FT.	0	0	91	151	284	8,295	9,221	5,173	3,241	1,270	0	0

WHOLE YEAR:- TOTAL, 13,978 MAX., 165 MIN., 0 MEAN, 38 TOTAL AC.FT., 27,726

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

Quantities in acre-feet

Year: 2002

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
+	**Total Basic Contract Diverted**	+	**0**	**0**	**2,442**	**3,164**	**3,915**	**105**	**332**	**0**	**0**	**0**	**0**	**0**	**9,958**
	Kern-Tulare Water District	-	0	0	2,123	2,751	3,404	91	290	0	0	0	0	0	8,659
	Rag Gulch Water District	=	0	0	319	413	511	14	42	0	0	0	0	0	1,299
+	**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**	**2,442**	**3,164**	**3,915**	**105**	**332**	**0**	**0**	**0**	**0**	**0**	**9,958**
	via Calloway Canal	+	0	0	1,829	2,307	3,013	105	310	0	0	0	0	0	7,564
	River Transportation Loss/Spreading	+	0	0	613	857	902	0	22	0	0	0	0	0	2,394
	Carrier Canal Recharge	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	via Kern River Canal & Irrigating Co.	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	via Pioneer Inlet	+	0	0	0	0	0	0	0	0	0	0	0	0	0
-	**Total Diverted to I.D. #4**	=	**0**	**0**	**2,442**	**3,164**	**3,915**	**105**	**332**	**0**	**0**	**0**	**0**	**0**	**9,958**
	Kern-Tulare Water District	-	0	0	2,123	2,751	3,404	91	290	0	0	0	0	0	8,659
	Rag Gulch Water District	=	0	0	319	413	511	14	42	0	0	0	0	0	1,299
	via Arvin-Edison Turnout	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Canal Transportation Loss	+	0	0	0	0	0	0	0	0	0	0	0	0	0
-	**Total Diverted to Arvin-Edison T.O.**	=	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
	Kern-Tulare Water District	-	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rag Gulch Water District	=	0	0	0	0	0	0	0	0	0	0	0	0	0
=	**Via North Kern Water Storage District**	+	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
	Kern-Tulare Water District	-	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rag Gulch Water District	=	0	0	0	0	0	0	0	0	0	0	0	0	0

DISCHARGE IN CUBIC FEET PER SECOND

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

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	42	34	53	0	0	0	0	0	0	0
2	0	0	39	40	49	0	0	0	0	0	0	0
3	0	0	31	41	54	0	0	0	0	0	0	0
4	0	0	33	59	56	0	0	0	0	0	0	0
5	0	0	37	35	50	0	0	0	0	0	0	0
6	0	0	37	58	35	0	0	0	0	0	0	0
7	0	0	35	43	50	0	0	0	0	0	0	0
8	0	0	30	42	32	0	0	0	0	0	0	0
9	0	0	30	48	43	0	0	0	0	0	0	0
10	0	0	27	49	44	0	0	0	0	0	0	0
11	0	0	30	31	49	0	0	0	0	0	0	0
12	0	0	47	62	67	0	0	0	0	0	0	0
13	0	0	44	41	61	0	0	0	0	0	0	0
14	0	0	41	46	31	0	0	0	0	0	0	0
15	0	0	23	43	51	0	55	0	0	0	0	0
16	0	0	31	35	90	0	66	0	0	0	0	0
17	0	0	33	41	54	0	25	0	0	0	0	0
18	0	0	30	43	57	0	0	0	0	0	0	0
19	0	0	33	41	71	0	0	0	0	0	0	0
20	0	0	36	36	78	0	0	0	0	0	0	0
21	0	0	37	54	57	0	0	0	0	0	0	0
22	0	0	31	45	29	0	0	0	0	0	0	0
23	0	0	32	38	87	0	0	0	0	0	0	0
24	0	0	41	41	85	0	0	0	0	0	0	0
25	0	0	35	46	74	0	0	0	0	0	0	0
26	0	0	20	74	60	0	0	0	0	0	0	0
27	0	0	30	91	50	0	0	0	0	0	0	0
28	0	0	38	37	43	15	0	0	0	0	0	0
29	0	-	45	43	58	31	0	0	0	0	0	0
30	0	-	42	50	64	0	0	0	0	0	0	0
31	0	-	30	-	34	-	0	0	-	0	-	0
TOTAL	0	0	1,070	1,387	1,716	46	146	0	0	0	0	0
MAXIMUM DAY	0	0	47	91	90	31	66	0	0	0	0	0
MINIMUM DAY	0	0	20	31	29	0	0	0	0	0	0	0
MEAN	0	0	35	46	55	2	5	0	0	0	0	0
TOTAL AC. FT.	0	0	2,123	2,751	3,404	91	290	0	0	0	0	0

WHOLE YEAR:- TOTAL, 4,365 MAX., 91 MIN., 0 MEAN, 12 TOTAL AC.FT., 8,659

DISCHARGE IN CUBIC FEET PER SECOND

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

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	6	5	8	0	0	0	0	0	0	0
2	0	0	6	6	7	0	0	0	0	0	0	0
3	0	0	5	6	8	0	0	0	0	0	0	0
4	0	0	5	9	8	0	0	0	0	0	0	0
5	0	0	6	5	7	0	0	0	0	0	0	0
6	0	0	6	9	5	0	0	0	0	0	0	0
7	0	0	5	6	7	0	0	0	0	0	0	0
8	0	0	5	6	5	0	0	0	0	0	0	0
9	0	0	4	7	7	0	0	0	0	0	0	0
10	0	0	4	7	7	0	0	0	0	0	0	0
11	0	0	5	5	7	0	0	0	0	0	0	0
12	0	0	7	9	10	0	0	0	0	0	0	0
13	0	0	6	6	9	0	0	0	0	0	0	0
14	0	0	6	7	5	0	0	0	0	0	0	0
15	0	0	3	7	8	0	8	0	0	0	0	0
16	0	0	5	5	14	0	10	0	0	0	0	0
17	0	0	5	6	8	0	3	0	0	0	0	0
18	0	0	5	6	9	0	0	0	0	0	0	0
19	0	0	5	6	11	0	0	0	0	0	0	0
20	0	0	5	6	12	0	0	0	0	0	0	0
21	0	0	5	8	9	0	0	0	0	0	0	0
22	0	0	5	7	4	0	0	0	0	0	0	0
23	0	0	5	6	13	0	0	0	0	0	0	0
24	0	0	6	6	13	0	0	0	0	0	0	0
25	0	0	5	7	11	0	0	0	0	0	0	0
26	0	0	3	11	9	0	0	0	0	0	0	0
27	0	0	5	14	7	0	0	0	0	0	0	0
28	0	0	6	6	7	2	0	0	0	0	0	0
29	0	-	7	6	9	5	0	0	0	0	0	0
30	0	-	6	8	9	0	0	0	0	0	0	0
31	0	-	4	-	5	-	0	0	-	0	-	0
TOTAL	0	0	161	208	258	7	21	0	0	0	0	0
MAXIMUM DAY	0	0	7	14	14	5	10	0	0	0	0	0
MINIMUM DAY	0	0	3	5	4	0	0	0	0	0	0	0
MEAN	0	0	5	7	8	0	1	0	0	0	0	0
TOTAL AC. FT.	0	0	319	413	511	14	42	0	0	0	0	0

WHOLE YEAR:- TOTAL, 655 MAX., 14 MIN., 0 MEAN, 2 TOTAL AC.FT., 1,299

IMPROVEMENT DISTRICT NO. 4
KERN RIVER SUPPLY AND DIVERSION RECAP

(Does not include deliveries into Isabella Reservoir storage)

Quantities in acre-feet

YEAR: 2002

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	Treatment Plant via Calloway Canal	+	1,045	1,252	1,658	2,130	2,882	79	2,104	3,642	2,993	2,535	422	32	20,774
	Calloway Canal Operational Losses	+	155	136	167	177	196	20	131	208	188	168	68	20	1,634
	Calloway Canal Below "99"	+	1,787	12	4	0	14	0	0	0	8	20	77	58	1,980
	Cross Valley Canal Filling Losses	+	38	0	0	0	0	6	18	0	0	0	0	0	62
	Cross Valley Canal Reverse Flow	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cross Valley Canal River Turnout #4	+	0	0	0	0	0	0	0	0	0	0	0	0	0
+	Sub-total Calloway Canal	=	3,025	1,400	1,829	2,307	3,092	105	2,253	3,850	3,189	2,723	567	110	24,450
+	KRC&I Co. #1 Ditch Spreading		0	0	0	0	0	0	0	0	0	0	0	0	0
+	KRC&I Co. #1 Ditch to Cally. Spreading		0	0	0	0	0	0	0	0	0	0	0	0	0
	Truxtun Lakes	+	214	0	0	0	0	0	0	0	0	0	71	22	307
	Arvin-Edison WSD Turnout	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Carrier Canal Loss/Spdg.	+	133	0	0	0	0	0	0	0	0	0	337	40	510
+	Sub-total via Carrier Canal	=	347	0	0	0	0	0	0	0	0	0	408	62	817
	River Loss/Spdg. Above Cally. Weir	+	746	355	613	857	902	333	279	719	780	746	742	632	7,704
	River Spreading Below Cally. Weir	+	7,260	0	0	0	1,293	3,638	1,654	582	0	0	7,242	4,419	26,088
+	Sub-total River Loss/Spreading	=	8,006	355	613	857	2,195	3,971	1,933	1,301	780	746	7,984	5,051	33,792
+	Via Pioneer Canal Inlet		0	0	0	0	0	0	0	0	0	0	0	0	0
+	Via Pioneer North		0	0	0	0	0	0	0	0	0	0	0	0	0
+	Kern Water Bank at 2nd Point		0	0	0	0	0	0	0	0	0	0	0	0	0
+	For North Kern WSD (Category "B" Payback)		0	0	0	0	0	0	0	0	0	0	0	0	0
=	**Improvement District #4 Total Diverted**		**11,378**	**1,755**	**2,442**	**3,164**	**5,287**	**4,076**	**4,186**	**5,151**	**3,969**	**3,469**	**8,959**	**5,223**	**59,059**
	Kern-Tulare WD Basic Contract	+	0	0	2,123	2,751	3,404	91	290	0	0	0	0	0	8,659
	Rag Gulch WD Basic Contract	+	0	0	319	413	511	14	42	0	0	0	0	0	1,299
+	Sub-total K-TWD/RGWD Basic Contract	=	0	0	2,442	3,164	3,915	105	332	0	0	0	0	0	9,958
	Kern-Tulare WD 2002 Miscellaneous	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rag Gulch WD 2002 Miscellaneous	+	0	0	0	0	0	0	0	0	0	0	0	0	0
+	Sub-total K-TWD/RGWD '02 Misc.	=	0	0	0	0	0	0	0	0	0	0	0	0	0
	City Truxtun Lake Exchange	+	0	0	0	0	0	0	0	0	0	0	0	0	0
	City Miscellaneous	+	0	0	0	0	0	0	0	0	0	0	0	0	0
+	Sub-total City of Bakersfield	=	0	0	0	0	0	0	0	0	0	0	0	0	0
+	North Kern WSD Exchange (Category "A")		11,378	0	0	0	0	0	0	0	0	0	8,509	5,223	25,110
+	North Kern WSD Exchange (Category "B")		0	1,755	0	0	79	0	2,200	4,569	3,969	3,469	450	0	16,491
+	Hacienda WD Exchange		0	0	0	0	0	0	0	0	0	0	0	0	0
+	BVWSD Exchange		0	0	0	0	1,293	3,971	1,654	582	0	0	0	0	7,500
+	Kern Delta WD Exchange		0	0	0	0	0	0	0	0	0	0	0	0	0
+	Lake Isabella Storage		0	0	0	0	0	0	0	0	0	0	0	0	0
=	**Improvement District #4 Total Supply**		**11,378**	**1,755**	**2,442**	**3,164**	**5,287**	**4,076**	**4,186**	**5,151**	**3,969**	**3,469**	**8,959**	**5,223**	**59,059**

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

DISCHARGE IN CUBIC FEET PER SECOND (Diverted from Kern River Channel) Year: 2002

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	24	0	0	0	0	0	0	0	0	0	0	0
11	36	0	0	0	0	0	0	0	0	0	0	0
12	38	0	0	0	0	0	0	0	0	0	9	0
13	56	0	0	0	0	0	0	0	0	0	29	0
14	51	0	0	0	0	0	0	0	0	0	0	0
15	49	0	0	0	0	0	0	0	0	0	0	0
16	29	0	0	0	0	0	0	0	0	0	0	0
17	10	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	120
25	0	0	0	0	0	0	0	0	0	0	0	154
26	0	0	0	0	0	0	0	0	0	0	0	163
27	0	0	0	0	0	0	0	0	0	0	0	171
28	0	0	0	0	0	0	0	0	0	0	0	164
29	0	-	0	0	0	0	0	0	0	0	0	174
30	0	-	0	0	0	0	0	0	0	0	0	171
31	0	-	0	-	0	-	0	0	-	0	-	160
TOTAL	293	0	0	0	0	0	0	0	0	0	38	1,277
MAXIMUM DAY	56	0	0	0	0	0	0	0	0	0	29	174
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	9	0	0	0	0	0	0	0	0	0	1	41
TOTAL AC. FT.	581	0	0	0	0	0	0	0	0	0	75	2,533

WHOLE YEAR:- TOTAL, 1,608 MAX., 174 MIN., 0 MEAN, 4 TOTAL AC.FT., 3,189

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT

Hydrographic and Accounting Report by City of Bakersfield

Quantities in acre-feet

Year: 2002

	1	2	3	4	5	6	7	8	9	10	11	12
	(a)	(b)	(c)	(d)	(e)		(f) Basic Contract		(g) Miscellaneous		(h) Other Supply	
	Friant-Kern Inflow	Friant-Kern Delivered	SWP Inflow	SWP Delivered	River Canal Transportation Charge on Column 2	Total Kern River Delivered	No Charge (1st 4000) acre-feet	acre-feet Sold at $1.00	acre-feet Sold at $6.00	acre-feet Sold at $21.00	Kern River Floodwater	Friant-Kern Floodwater
January	0	0	0	0	0	1,619	581	0	1,038	0	0	0
February	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	176	75	0	101	0	0	0
December	0	0	0	0	0	3,340	2,533	0	807	0	0	0
Total	0	0	0	0	0	5,135	3,189	0	1,946	0	0	0

4.066	= Current Escalator =	4.066	795	0	2001	
$0.00	= Totals =	$0.00	758	0	2000	*Preceding Four*
	(per 1961 Agreement)		200	0	1999	*Years*
			48,695	0	1998	
			52,394	0		*Five Year Totals*
			10,479	0		*Five Year Averages*
			2.158	2.158		*Current Escalator*
			$12.95	$45.32		*Current Price per acre-foot*
			$135,703.05	$0.00		*Five Year Average Sales*
			$135,703.05			*May 31, 2003 Payment*

Notes :

(a) As charged RRBWSD by U.S.B.R.
(b) Column 1 less transportation losses.
(c) As charged RRBWSD by KCWA.
(d) Column 3 less transportation losses.
(e) $0.10 per acre-foot escalated annually (31.6 = 1-82 base index).
(f) $1.00 per acre-foot escalated annually (31.6 = 1-82 base index) after the first 4,000 AcFt of each successive 10,000 acre-feet delivered.
(g) Subject to annual escalation per 1976 agreement (62.8 = 1-82 base index).
(h) Delivered during periods of Kern River Mandatory Release when designated by U.S. Army Corps of Engineers.

ROSEDALE RBWSD DIVERSION RECAPITULATION

Does not include deliveries off the Cross Valley Canal.....

Quantities in acre-feet

YEAR: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Rosedale Channel at Headgate	+	581	0	0	0	0	0	0	0	0	0	75	2,533	3,189
City to Bolthouse Farms	-	0	0	0	0	0	0	0	0	0	0	0	0	0
for Rosedale RBWSD	=	**581**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**75**	**2,533**	**3,189**
- City Contract Water		581	0	0	0	0	0	0	0	0	0	75	2,533	3,189
= Other Water		0	0	0	0	0	0	0	0	0	0	0	0	0
via 2800 Acres to South Pioneer	+	0	0	0	0	0	0	0	0	0	0	0	0	0
via 2800 Acres to North Pioneer	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Central Pioneer	+	0	0	0	0	0	0	0	0	0	0	0	0	0
via Pioneer Canal Inlet	+	0	0	0	0	0	0	0	0	0	0	0	0	0
2800 Acre Spreading (Net)	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Channel Spreading	+	1,038	0	0	0	0	0	0	0	0	0	101	807	1,946
For Improvement District #4	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Diverted	=	**1,619**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**176**	**3,340**	**5,135**

City of Bakersfield Basic Contract	+	581	0	0	0	0	0	0	0	0	0	75	2,533	3,189
City of Bakersfield Miscellaneous	+	1,038	0	0	0	0	0	0	0	0	0	101	807	1,946
Hacienda WD Exchange	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Buena Vista WSD Purchase	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Improvement District #4	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Supply	=	**1,619**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**176**	**3,340**	**5,135**

STATUS OF CONTRACT

per terms of

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

Service Agreement, dated August 31, 1961.

Quantities in acre-feet

Year	TOTAL DELIVERED	FRIANT-KERN DELIVERED	TOTAL KERN RIVER DELIVERED	(1) KERN RIVER BASIC CONTRACT DELIVERED	KERN RIVER BASIC CONTRACT OBLIGATION	(2) CARRY FORWARD OVER (UNDER)	END of YEAR CONTRACT BALANCE (3)
						(4)	60,000
1976	0	0	0	0	10,000	(10,000)	50,000
1977	2,199	0	2,199	2,199	10,000	(7,801)	42,199
1978	76,365	4,371	71,994	10,000	10,000	0	42,199
1979	14,568	9,921	4,647	4,647	10,000	(5,353)	36,846
1980	70,790	4,167	66,623	10,000	10,000	0	36,846
1981	773	0	773	773	10,000	(9,227)	27,619
1982	88,374	40,595	47,779	10,000	10,000	0	27,619
1983	134,534	1,440	133,094	10,000	10,000	0	27,619
1984	38,854	0	38,854	10,000	10,000	0	27,619
1985	20,694	0	20,694	0	10,000	(10,000)	17,619
1986	87,761	5,209	82,552	20,000	10,000	10,000	27,619
1987	6,000	0	6,000	0	10,000	(10,000)	17,619
1988	7,845	0	7,845	0	10,000	(10,000)	7,619
1989	4,500	0	4,500	0	10,000	(10,000)	(2,381)
1990	0	0	0	0	10,000	(10,000)	(12,381)
1991	9,076	0	9,076	9,076	10,000	(924)	(13,305)
1992	1,117	0	1,117	1,117	10,000	(8,883)	(22,188)
1993	55,710	28,820	26,890	10,000	10,000	0	(22,188)
1994	3,039	0	3,039	3,039	10,000	(6,961)	(29,149)
1995	110,777	8,470	102,307	30,000	10,000	20,000	(9,149)
1996	93,257	35,396	57,861	19,149	10,000	9,149	0
1997	97,062	6,612	90,450	10,000	10,000	0	0
1998	113,736	4,432	109,304	25,688	10,000	15,688	15,688
1999	13,387	3,187	10,200	10,000	10,000	0	15,688
2000	29,200	18,442	10,758	10,000	10,000	0	15,688
2001	3,972	0	3,972	3,177	10,000	(6,823)	8,865
2002	5,135	0	5,135	3,189	10,000	(6,811)	2,054

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

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

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

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

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

Quantities in acre-feet

Year: 2002

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
City Entitlement + or - Release	**2,098**	**1,111**	**10,146**	**19,738**	**19,447**	**17,510**	**3,190**	**0**	**0**	**40**	**9,625**	**2,262**	**85,167**
Lake Ming	16	16	44	60	77	105	127	121	91	65	42	26	790
North Kern Water Storage District	0	0	0	0	0	5,000	10,000	5,000	0	0	0	0	20,000
Cawelo Water District	0	0	2,840	2,560	5,400	0	665	0	0	0	3,134	3,671	18,270
Kern-Tulare Water District	0	0	2,123	2,751	3,404	91	290	0	0	0	0	0	8,659
Rag Gulch Water District	0	0	319	413	511	14	42	0	0	0	0	0	1,299
Rosedale Rio Bravo WSD	581	0	0	0	0	0	0	0	0	0	75	2,533	3,189
Kern River Canal & Irrigating Co.	0	802	781	537	367	532	1,137	981	434	347	127	0	6,045
Truxtun Lakes	0	0	0	0	0	0	0	0	0	0	0	0	0
First Point Passing Second Point	0	0	0	0	0	0	0	0	0	0	0	0	0
Transportation Loss Assignment	0	0	0	0	0	0	0	0	0	0	0	0	0
Isabella Reservoir Loss	46	75	109	272	574	994	892	601	467	287	186	119	4,622
River Transportation Loss	1	(1)	543	1,046	716	3,575	3,321	383	2	(3)	137	2	9,722
Total Basic Commitments	**644**	**892**	**6,759**	**7,639**	**11,049**	**10,311**	**16,474**	**7,086**	**994**	**696**	**3,701**	**6,351**	**72,596**

Total City Miscellaneous Water.....	**12,571**
Rosedale Rio Bravo WSD 1/3 Share.....	**4,190**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Misc. Water Delivered to RRBWSD	1,038	0	0	0	0	0	0	0	0	0	101	807	1,946
Del. under Art.11,Sec. 2.1 (i)(7)	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Misc. Delivered to RRBWSD	**1,038**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**101**	**807**	**1,946**

Over (Under) City Miscellaneous Water Obligation.....	**(2,244)**
Prior Year Miscellaneous Water Delivery Balance.....	**(9,714)**
Cumulative Miscellaneous Water Delivery Balance.....	**(11,958)**

STATUS OF CONTRACT

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

Cumulative Miscellaneous Water Balance
Pursuant to June 6, 1976 Agreement No. 76-80

Quantities in acre-feet

Year	(A) TOTAL CITY MISCELLANEOUS WATER	(B) RRBWSD 1/3 SHARE OF MISC.	(C) MISC. WATER DELIVERED TO RRBWSD (1)	(D) OVER (UNDER) 1/3 SHARE	(E) END OF YEAR CUMULATIVE MISC. WATER BALANCE
					0
1977	0	0	0	0	0
1978	75,473	25,158	29,405	4,247	4,247
1979	34,885	11,628	0	(11,628)	(7,381)
1980	81,572	27,191	28,246	1,055	(6,326)
1981	1,634	545	0	(545)	(6,871)
1982	184,335	61,445	37,779	(23,666)	(30,537)
1983	64,686	21,562	12,292	(9,270)	(39,807)
1984	56,816	18,939	20,856	1,917	(37,890)
1985	50,537	16,846	20,694	3,848	(34,042)
1986	161,307	53,769	56,590	2,821	(31,221)
1987	0	0	6,000	6,000	(25,221)
1988	2,157	719	7,845	7,126	(18,095)
1989	3,838	1,279	4,500	3,221	(14,874)
1990	0	0	0	0	(14,874)
1991	0	0	0	0	(14,874)
1992	0	0	0	0	(14,874)
1993	49,610	16,537	16,890	353	(14,521)
1994	0	0	0	0	(14,521)
1995	91,532	30,511	57,383	26,872	12,351
1996	131,683	43,894	38,603	(5,291)	7,060
1997	196,451	65,484	49,226	(16,258)	(9,198)
1998	142,316	47,439	48,695	1,256	(7,942)
1999	1,807	602	200	(402)	(8,344)
2000	1,745	582	758	176	(8,168)
2001	7,024	2,341	795	(1,546)	(9,714)
2002	12,571	4,190	1,946	(2,244)	(11,958)

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: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+	0	0	0	418	1,073	900	0	0	0	0	4,086	0	6,477
Release	+ or -	0	0	0	0	0	0	0	0	0	0	1,955	52	2,007
ENTITLEMENT + OR - RELEASE	=	**0**	**0**	**0**	**418**	**1,073**	**900**	**0**	**0**	**0**	**0**	**6,041**	**52**	**8,484**
Oilfield Discharge	+	10	42	80	46	55	52	34	8	4	4	0	0	335
From City of Bakersfield	+	0	802	781	537	367	532	1,137	981	434	347	127	0	6,045
From NKWSD	+	0	0	0	0	0	0	0	54	325	179	0	0	558
Into Isabella Storage	-	0	0	0	113	195	327	0	0	0	0	4,784	8	5,427
From Isabella Storage	+	69	114	0	113	147	371	0	0	0	0	0	36	850
To City of Bakersfield	-	0	10	0	0	0	40	0	0	0	0	0	0	50
To NKWSD in Isabella Storage	-	0	0	0	45	0	0	0	0	0	0	471	0	516
DIVERTED AT HEAD	=	**79**	**948**	**861**	**956**	**1,447**	**1,488**	**1,171**	**1,043**	**763**	**530**	**913**	**80**	**10,279**
Irrigation Deliveries	-	60	820	714	748	993	1,074	1,018	899	654	427	121	58	7,586
NKWSD at Seventh Standard Line	-	0	0	0	81	321	270	0	0	0	0	754	0	1,426
Cawelo WD at Pump Station "B"	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Spreading Deliveries	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Canal Loss	=	19	128	147	127	133	144	153	144	109	103	38	22	1,267
Irrigation Delivery Percentage		76%	86%	83%	87%	91%	90%	87%	86%	86%	81%	96%	73%	88%

Into Isabella Storage		0	0	0	113	195	327	0	0	0	0	4,784	8	5,427
Isabella Evaporation Loss		2	0	0	0	0	4	0	0	0	0	51	38	95
From Isabella Storage		69	114	0	113	147	371	0	0	0	0	0	36	850
Transfer in Storage		0	0	0	0	0	0	0	0	0	0	0	0	0
End of Month Isabella Storage		**114**	**0**	**0**	**0**	**48**	**0**	**0**	**0**	**0**	**0**	**4,733**	**4,667**	

SOUTH FORK DIVERSION RIGHT SUMMARY

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	+	553	417	0	105	163	134	0	0	0	0	498	581	2,451
Release	+ or -	(553)	(337)	4	(44)	(34)	0	63	0	0	0	52	(569)	(1,418)
Entitlement + or - Releases	=	**0**	**80**	**4**	**61**	**129**	**134**	**63**	**0**	**0**	**0**	**550**	**12**	**1,033**
Into Isabella Storage	-	0	38	0	43	105	122	63	0	0	0	538	0	909
From Isabella Storage	+	0	0	12	0	0	6	18	0	0	0	0	0	36
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Deliveries	=	**0**	**42**	**16**	**18**	**24**	**18**	**18**	**0**	**0**	**0**	**12**	**12**	**160**
Old South Fork		0	0	0	0	0	0	0	0	0	0	0	0	0
Panama Ranch		0	42	16	18	24	18	18	0	0	0	12	12	160

Into Isabella Storage		0	38	0	43	105	122	63	0	0	0	538	0	909
From Isabella Storage		0	0	12	0	0	6	18	0	0	0	0	0	36
Transfer in Storage		0	0	0	0	0	0	0	0	0	0	873	0	873
End of Month Isabella Storage		**600**	**638**	**626**	**669**	**774**	**890**	**935**	**935**	**935**	**935**	**600**	**600**	

City of Bakersfield Diverted to Kern Delta WD

DISCHARGE IN CUBIC FEET PER SECOND (Non-Kern River) Year: 2002

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	1	0	0	0	0	0	0	0	0	0	0	0
3	3	0	0	0	0	0	0	0	0	0	0	0
4	2	0	0	0	0	0	0	0	0	0	0	0
5	3	0	0	0	0	0	0	0	0	0	0	0
6	5	0	0	0	0	0	0	0	0	0	0	0
7	2	0	0	0	0	0	0	0	0	0	0	0
8	3	0	0	0	0	0	0	0	0	0	0	0
9	3	0	0	0	0	0	0	0	0	0	0	0
10	3	0	0	0	0	0	0	0	0	0	0	0
11	4	0	0	0	0	0	0	0	0	0	0	0
12	5	0	0	0	0	0	0	0	0	0	0	0
13	5	0	0	0	0	0	0	0	0	0	0	0
14	3	0	0	0	0	0	0	0	0	0	0	0
15	3	0	0	0	0	0	0	0	0	0	0	0
16	4	0	0	0	0	0	0	0	0	0	0	0
17	6	0	0	0	0	0	0	0	0	0	0	0
18	5	0	0	0	0	0	0	0	0	0	0	0
19	1	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	61	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM DAY	6	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	2	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	121	0	0	0	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 61 MAX., 6 MIN., 0 MEAN, 0 TOTAL AC.FT., 121

DISCHARGE IN CUBIC FEET PER SECOND — City of Bakersfield Diverted to California Water Service Company — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	1	1	2	2	2	2	4	2	3	2	1
2	1	0	2	1	1	3	4	3	3	2	1	1
3	0	1	1	2	3	2	3	3	2	2	2	0
4	1	0	1	2	1	3	4	3	2	3	2	2
5	0	2	1	2	2	3	2	4	2	2	2	0
6	0	1	2	1	3	2	4	3	2	2	1	1
7	1	0	1	2	2	3	3	4	3	2	1	0
8	1	1	1	2	2	2	3	2	2	2	0	2
9	1	1	1	1	2	2	3	3	2	3	0	1
10	0	1	1	2	2	3	4	2	2	2	0	0
11	1	1	1	2	1	2	2	3	3	2	0	1
12	1	1	1	2	3	3	4	2	2	2	0	1
13	0	0	1	1	2	3	3	3	2	2	1	0
14	1	1	1	2	2	3	3	2	2	2	0	2
15	0	2	2	2	2	2	3	3	2	2	1	0
16	1	0	1	1	2	3	4	2	3	2	0	1
17	1	1	1	2	1	2	3	3	2	2	0	1
18	1	1	1	2	3	4	3	2	2	2	1	1
19	0	1	1	2	2	2	3	3	3	2	0	1
20	0	1	2	2	2	3	3	2	2	2	1	0
21	1	1	1	2	2	2	3	3	2	2	0	1
22	1	0	1	2	3	3	3	2	2	2	0	0
23	1	1	1	2	2	2	3	3	3	2	1	0
24	1	1	2	1	3	3	3	2	2	2	1	1
25	0	1	1	2	2	3	3	3	2	2	0	1
26	1	1	1	2	3	3	3	2	2	2	1	0
27	0	1	1	1	2	2	3	3	2	2	0	1
28	1	0	1	2	3	3	4	2	2	2	1	0
29	1	-	2	2	2	2	3	3	3	2	0	0
30	0	-	1	1	3	3	3	3	2	2	1	1
31	1	-	1	-	1	-	3	2	-	2	-	1
TOTAL	19	23	37	52	66	78	97	84	67	65	20	22
MAXIMUM DAY	1	2	2	2	3	4	4	4	3	3	2	2
MINIMUM DAY	0	0	1	1	1	2	2	2	2	2	0	0
MEAN	1	1	1	2	2	3	3	3	2	2	1	1
TOTAL AC. FT.	38	46	73	104	131	155	192	167	133	129	40	44

WHOLE YEAR:- TOTAL, 630 MAX., 4 MIN., 0 MEAN, 2 TOTAL AC.FT., 1,252

DISCHARGE IN CUBIC FEET PER SECOND

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

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	1	2	2	2	2	2	2	1	0
2	0	1	1	1	2	2	2	2	1	1	1	1
3	0	0	1	1	1	2	2	3	2	1	0	0
4	0	1	1	1	2	2	2	2	1	1	1	0
5	1	0	1	1	1	2	2	2	2	2	1	0
6	0	0	0	1	1	2	2	2	1	1	1	0
7	0	1	1	1	2	2	2	2	1	1	1	1
8	0	0	0	1	2	2	3	3	2	2	0	0
9	0	1	1	1	1	2	2	2	1	1	0	0
10	0	0	1	1	2	2	2	2	2	2	0	1
11	0	0	1	1	2	2	2	2	1	1	0	0
12	0	0	0	1	1	2	2	2	2	1	0	0
13	1	1	1	1	1	2	2	2	1	1	0	0
14	0	0	1	1	2	2	2	2	2	1	1	0
15	0	0	0	1	1	2	2	2	1	1	0	1
16	1	1	1	1	2	2	2	2	1	1	0	0
17	0	0	1	1	2	2	2	2	2	1	1	0
18	0	1	1	1	1	1	3	2	1	1	0	0
19	1	0	1	1	2	2	2	2	2	1	0	0
20	0	0	0	1	2	2	2	2	1	1	0	0
21	0	0	1	1	2	2	2	2	2	1	0	0
22	0	1	0	1	1	2	2	2	1	1	0	1
23	1	0	1	1	2	2	2	2	1	1	0	0
24	0	1	0	1	2	2	3	2	1	1	0	0
25	0	0	1	1	1	1	2	2	2	1	0	0
26	0	1	0	1	2	2	2	2	2	1	0	0
27	1	0	1	1	1	2	2	2	1	1	0	0
28	0	1	1	1	2	2	2	2	2	1	0	1
29	0	-	0	1	1	2	2	2	1	1	0	0
30	0	-	1	1	2	2	3	2	1	1	1	0
31	1	-	1	-	2	-	2	3	-	1	-	0
TOTAL	7	11	21	30	50	58	66	65	43	35	9	6
MAXIMUM DAY	1	1	1	1	2	2	3	3	2	2	1	1
MINIMUM DAY	0	0	0	1	1	1	2	2	1	1	0	0
MEAN	0	0	1	1	2	2	2	2	1	1	0	0
TOTAL AC. FT.	13	23	41	59	99	115	132	128	86	70	18	11

WHOLE YEAR:- TOTAL, 401 MAX., 3 MIN., 0 MEAN, 1 TOTAL AC.FT., 795

DISCHARGE IN CUBIC FEET PER SECOND

City of Bakersfield 2800 Acre Well Water Diverted to County of Kern
(Pursuant to City/County Letter Agreement dated May 9, 2002)

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	53	0	0	0
2	0	0	0	0	0	0	0	0	52	0	0	0
3	0	0	0	0	0	0	0	0	53	0	0	0
4	0	0	0	0	0	0	0	0	53	0	0	0
5	0	0	0	0	0	0	0	0	51	0	0	28
6	0	0	0	0	0	0	0	0	51	0	0	48
7	0	0	0	0	0	0	0	0	19	0	0	50
8	0	0	0	0	0	0	0	0	0	0	0	50
9	0	0	0	0	0	0	0	0	0	0	0	53
10	0	0	0	0	0	0	0	0	0	0	0	55
11	0	0	0	0	0	0	0	0	0	0	0	55
12	0	0	0	0	0	0	0	0	0	0	0	56
13	0	0	0	0	0	0	0	0	0	0	0	56
14	0	0	0	0	0	0	0	0	0	0	0	55
15	0	0	0	0	0	0	0	0	0	0	0	55
16	0	0	0	0	0	0	0	0	0	0	0	55
17	0	0	0	0	0	0	0	0	0	0	0	55
18	0	0	0	0	0	0	0	0	0	0	0	54
19	0	0	0	0	0	0	0	57	0	0	0	48
20	0	0	0	0	0	0	0	57	0	0	0	49
21	0	0	0	0	0	0	0	57	0	0	0	25
22	0	0	0	0	0	0	0	57	0	0	0	3
23	0	0	0	0	0	0	0	56	0	0	0	0
24	0	0	0	0	0	0	0	56	0	0	0	0
25	0	0	0	0	0	0	0	56	0	0	0	0
26	0	0	0	0	0	0	0	54	0	0	0	0
27	0	0	0	0	0	0	0	51	0	0	0	0
28	0	0	0	0	0	0	0	43	0	0	0	0
29	0	-	0	0	0	0	0	43	0	0	0	0
30	0	-	0	0	0	0	0	52	0	0	0	0
31	0	-	0	-	0	-	0	53	-	0	-	0
TOTAL	0	0	0	0	0	0	0	692	332	0	0	850
MAXIMUM DAY	0	0	0	0	0	0	0	57	53	0	0	56
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	22	11	0	0	27
TOTAL AC. FT.	0	0	0	0	0	0	0	1,373	658	0	0	1,685

WHOLE YEAR:- TOTAL, 1,874 MAX., 57 MIN., 0 MEAN, 5 TOTAL AC.FT., 3,716

Total Water Spread in City of Bakersfield's 2800 Acre Recharge Facility

DISCHARGE IN CUBIC FEET PER SECOND (All Sources, All Entities) Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	138	0	0	0	0	0	0	0	0
2	0	0	0	130	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	10	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	-	267	0	0	0	0	0	0	0	0	0
31	0	-	201	-	0	-	0	0	-	0	-	0
TOTAL	0	0	468	278	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	267	138	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	15	9	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	0	929	551	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 746 MAX., 267 MIN., 0 MEAN, 2 TOTAL AC.FT., 1,480

DISCHARGE IN CUBIC FEET PER SECOND

Buena Vista WSD Diverted via Arvin-Edison Turnout
(Per terms of BVWSD/A-EWSD/K-TWD Exchange Agreement dated 11-02-01)

Year: 2002

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	20	0	0	0	0	0
16	0	0	0	0	0	0	93	0	0	0	0	0
17	0	0	0	0	0	0	103	0	0	0	0	0
18	0	0	0	0	0	0	102	0	0	0	0	0
19	0	0	0	0	0	0	100	0	0	0	0	0
20	0	0	0	0	0	0	102	0	0	0	0	0
21	0	0	0	0	0	0	100	0	0	0	0	0
22	0	0	0	0	0	0	95	0	0	0	0	0
23	0	0	0	0	0	0	80	0	0	0	0	0
24	0	0	0	0	0	0	59	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	0	854	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	103	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	28	0	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	0	1,693	0	0	0	0	0

WHOLE YEAR:- TOTAL, 854 MAX., 103 MIN., 0 MEAN, 2 TOTAL AC.FT., 1,693

DISCHARGE IN CUBIC FEET PER SECOND | Total Flow via the Berrenda Mesa Pipeline at Head | Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	43	0	0	0	0	0
2	0	0	0	0	0	0	34	0	0	0	0	0
3	0	0	0	0	0	0	27	0	0	0	0	0
4	0	0	0	0	0	0	19	0	0	0	0	0
5	0	0	0	0	0	0	12	0	0	0	0	0
6	0	0	0	0	0	0	12	0	0	0	0	0
7	0	0	0	0	0	0	4	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	20	0	0	0	0	0	0
30	0	-	0	0	0	46	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	66	151	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	46	43	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	2	5	0	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	131	300	0	0	0	0	0

WHOLE YEAR:- TOTAL, 217 MAX., 46 MIN., 0 MEAN, 1 TOTAL AC.FT., 431

DISCHARGE IN CUBIC FEET PER SECOND — Total Flow via the Pioneer Canal at Head — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	24	0	0	0	0	0
2	0	0	0	0	0	0	12	0	0	0	0	0
3	0	0	0	0	0	0	11	0	0	0	0	0
4	0	0	0	0	0	0	9	0	0	0	0	0
5	0	0	0	0	0	0	8	0	0	0	0	0
6	0	0	0	0	0	0	8	0	0	0	0	0
7	0	0	0	0	0	0	5	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	23	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	23	77	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	23	24	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	1	2	0	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	46	153	0	0	0	0	0

WHOLE YEAR:- TOTAL, 100 MAX., 24 MIN., 0 MEAN, 0 TOTAL AC.FT., 199

DISCHARGE IN CUBIC FEET PER SECOND

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

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	294	0	0	0	0	0	0	0	0
2	0	0	0	281	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	10	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	-	288	0	0	0	0	0	0	0	0	0
31	0	-	312	-	0	-	0	0	-	0	-	0
TOTAL	0	0	600	585	0	0	0	0	0	0	0	0
MAXIMUM DAY	0	0	312	294	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	19	20	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	0	1,191	1,160	0	0	0	0	0	0	0	0

WHOLE YEAR:- TOTAL, 1,185 MAX., 312 MIN., 0 MEAN, 3 TOTAL AC.FT., 2,351

DISCHARGE IN CUBIC FEET PER SECOND

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

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	175	0	0	0	0	0
2	0	0	0	0	0	0	149	0	0	0	0	0
3	0	0	0	0	0	0	115	0	0	0	0	0
4	0	0	0	0	0	0	75	0	0	0	0	0
5	0	0	0	0	0	0	75	0	0	0	0	0
6	0	0	0	0	0	0	75	0	0	0	0	0
7	0	0	0	0	0	0	50	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	124	0	0	0	0	0	0
30	0	-	0	0	0	186	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	310	714	0	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	186	175	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	10	23	0	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	615	1,416	0	0	0	0	0

WHOLE YEAR:- TOTAL, 1,024 MAX., 186 MIN., 0 MEAN, 3 TOTAL AC.FT., 2,031

DISCHARGE IN CUBIC FEET PER SECOND

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

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	36	0	0	0	0	93	0	0	0
2	0	0	0	44	0	0	0	0	71	0	0	0
3	0	0	0	16	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	11	0	0	0	0	59	0	0	0	0
31	0	-	28	-	0	-	0	93	-	0	-	0
TOTAL	0	0	39	96	0	0	0	152	164	0	0	0
MAXIMUM DAY	0	0	28	44	0	0	0	93	93	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	1	3	0	0	0	5	5	0	0	0
TOTAL AC. FT.	0	0	77	190	0	0	0	302	325	0	0	0

WHOLE YEAR:- TOTAL, 451 MAX., 93 MIN., 0 MEAN, 1 TOTAL AC.FT., 894

DISCHARGE IN CUBIC FEET PER SECOND

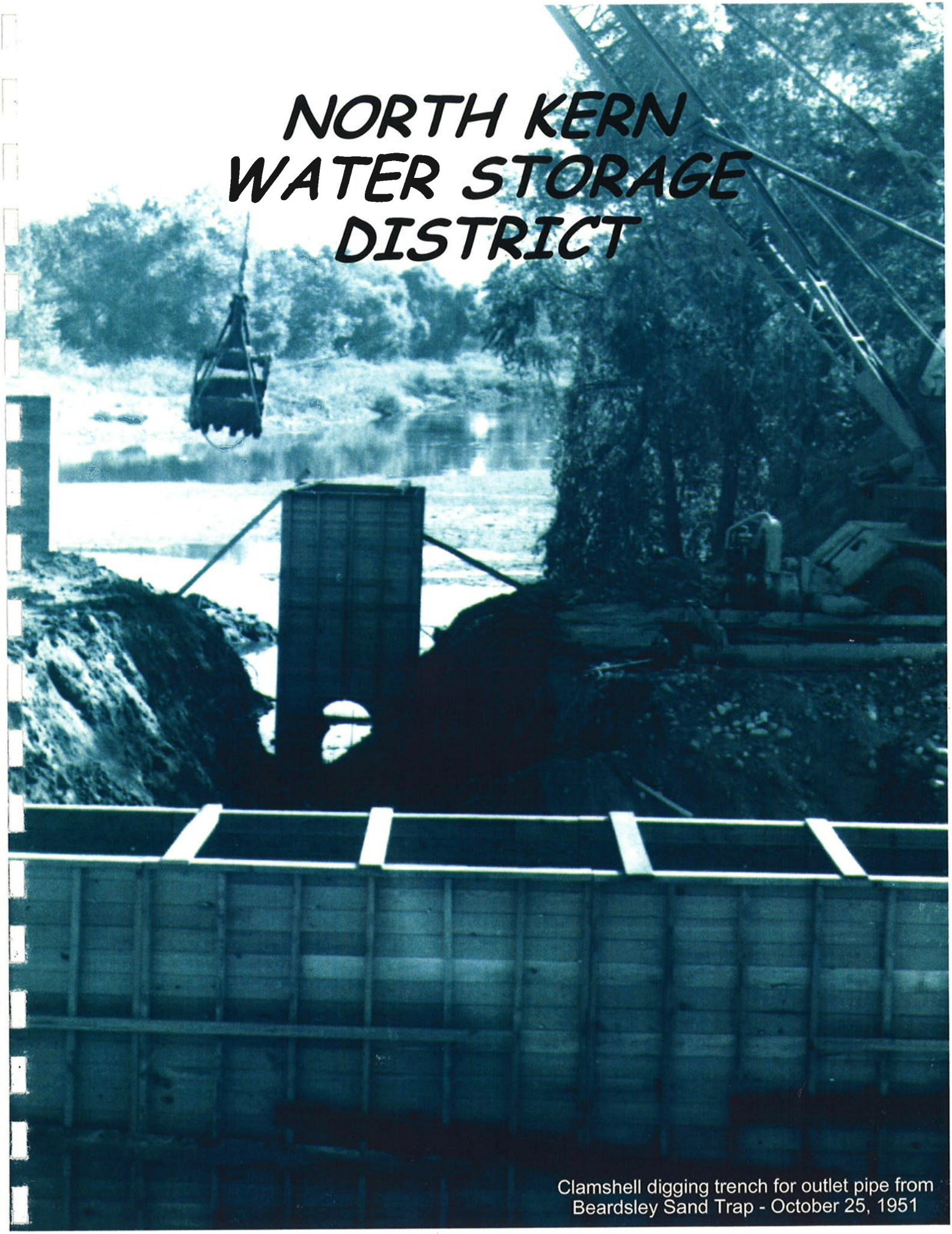
Cross Valley Canal - Turnout #4 to Kern River Channel
(As reported by Kern County Water Agency)

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	137	0	0	0	0	151	0	0	0
2	0	0	0	150	0	0	0	0	117	0	0	0
3	0	0	0	139	0	0	0	0	0	0	0	0
4	0	0	0	12	0	0	0	0	0	0	0	0
5	0	0	0	30	0	0	0	0	0	0	0	0
6	0	0	0	4	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	23
11	0	0	0	0	0	0	0	0	0	0	0	44
12	0	0	0	0	0	0	0	0	0	0	0	45
13	0	0	0	0	0	0	0	0	0	0	0	43
14	0	0	0	0	0	0	0	0	0	0	0	44
15	0	0	0	0	0	0	0	0	0	0	0	43
16	0	0	0	0	0	0	0	0	0	0	0	44
17	0	0	0	0	0	0	0	0	0	0	0	46
18	0	0	0	0	0	0	0	0	0	0	0	46
19	0	0	0	0	0	0	0	0	0	0	0	42
20	0	0	0	0	0	0	0	0	0	0	0	41
21	0	0	0	0	0	0	0	0	0	0	0	39
22	0	0	0	0	0	0	0	0	0	0	0	37
23	0	0	0	0	0	0	0	0	0	0	0	37
24	0	0	0	0	0	0	0	0	0	0	0	34
25	0	0	0	0	0	0	0	0	0	0	0	33
26	0	0	0	0	0	0	0	0	0	0	0	33
27	0	0	0	0	0	0	0	0	0	0	0	32
28	0	0	0	0	0	0	0	0	0	0	0	34
29	0	-	0	0	0	0	0	0	0	0	0	33
30	0	-	67	0	0	0	0	99	0	0	0	10
31	0	-	152	-	0	-	0	152	-	0	-	0
TOTAL	0	0	219	472	0	0	0	251	268	0	0	783
MAXIMUM DAY	0	0	152	150	0	0	0	152	151	0	0	46
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	7	16	0	0	0	8	9	0	0	25
TOTAL AC. FT.	0	0	434	936	0	0	0	498	532	0	0	1,553

WHOLE YEAR:- TOTAL, 1,993 MAX., 152 MIN., 0 MEAN, 5 TOTAL AC.FT., 3,953

NORTH KERN WATER STORAGE DISTRICT



Clamshell digging trench for outlet pipe from Beardsley Sand Trap - October 25, 1951

NORTH KERN WATER STORAGE DISTRICT

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
NKWSD River Entitlement	+	2,617	386	12	4,318	8,411	7,131	83	0	0	0	23,915	2,557	49,430
Release	+ or -	12,256	3,637	4,304	2,603	2,734	0	419	0	0	136	11,685	13,925	51,699
ENTITLEMENT + OR - RELEASE	=	**14,873**	**4,023**	**4,316**	**6,921**	**11,145**	**7,131**	**502**	**0**	**0**	**136**	**35,600**	**16,482**	**101,129**
From KRC & Irr. Company	+	0	0	0	126	321	270	0	0	0	0	1,225	0	1,942
From City of Bakersfield	+	541	364	2,121	3,384	828	5,000	10,000	5,054	325	179	0	0	27,796
From Isabella Reservoir Storage	+	145	476	0	0	0	5,843	14,451	9,124	4,881	3,553	1,972	109	40,554
From Cawelo WD	+	0	0	0	0	0	0	0	0	0	0	0	0	0
From Buena Vista WSD	+	0	0	0	0	0	0	0	0	0	0	0	0	0
From Improvement District No. 4	+	0	0	0	0	0	0	0	0	0	0	0	0	0
To La Hacienda, Inc.	-	0	0	0	0	0	0	0	0	0	0	0	0	0
To City of Bakersfield	-	292	0	134	0	0	0	0	0	0	0	0	2,533	2,959
To Improvement District #4	-	11,378	1,755	0	0	79	0	2,200	4,569	3,969	3,469	8,959	5,233	41,611
To Cawelo WD	-	0	0	0	0	0	1,283	1,256	2,161	0	0	0	0	4,700
Into Isabella Reservoir Storage	-	1,540	690	657	8,049	7,131	7,033	9,501	4,840	0	6	26,994	3,853	70,294
Other	+ or -	0	0	0	0	0	0	0	680	0	0	0	4	684
TOTAL DIVERTED FROM RIVER	=	**2,349**	**2,418**	**5,646**	**2,382**	**5,084**	**9,928**	**11,996**	**3,288**	**1,237**	**393**	**2,844**	**4,976**	**52,541**
Loss to Seventh Standard Line	-	68	76	61	60	61	60	61	61	64	74	106	111	863
Oilfield Discharge	+	44	69	135	68	77	102	64	25	10	10	0	0	604
NKWSD Deep Well Production	+	309	3,354	4,580	10,068	11,322	12,089	12,288	9,550	2,233	0	885	0	66,678
Non-District Deep Well Production	+	0	0	0	893	1,243	1,210	1,277	1,421	1,238	1,004	0	0	8,286
Poso Creek Natural Flow	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Friant-Kern Inflow to Poso Creek	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Inflow to Poso Creek	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern River Canal & Irrigating Company	-	0	0	0	0	0	0	0	54	325	179	0	0	558
Rosedale Ranch Improvement District	-	0	0	0	0	0	0	24	79	0	0	0	0	103
Semitropic WSD via Poso Creek	-	0	0	0	0	0	0	0	0	0	0	0	0	0
CVC Conduit "A" Inflow	+	0	1,755	79	0	0	0	0	4,665	3,554	6,891	40	0	16,984
TOTAL DISTRICT SUPPLY	=	**2,634**	**7,520**	**10,379**	**13,351**	**17,665**	**23,269**	**25,540**	**18,755**	**7,883**	**8,045**	**3,663**	**4,865**	**143,569**
Class 1 Irrigation Deliveries	+	1,336	2,910	5,886	8,801	12,586	16,388	18,379	11,700	4,918	4,953	1,532	892	90,281
Class 2 Irrigation Deliveries	+	568	1,157	1,638	2,503	2,417	3,472	3,924	3,363	1,362	583	412	482	21,881
Semitropic WSD Irrigation Deliveries	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Shafter-Wasco ID Irrigation Deliveries	+	0	263	779	385	193	0	773	116	0	0	0	0	2,509
TOTAL IRRIGATION USE	=	**1,904**	**4,330**	**8,303**	**11,689**	**15,196**	**19,860**	**23,076**	**15,179**	**6,280**	**5,536**	**1,944**	**1,374**	**114,671**
District Spreading Ponds (Kern)	+	0	0	0	0	0	0	0	0	0	0	0	2,099	2,099
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	=	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2,099**	**2,099**
TOTAL DISTRICT USE		**1,904**	**4,330**	**8,303**	**11,689**	**15,196**	**19,860**	**23,076**	**15,179**	**6,280**	**5,536**	**1,944**	**3,473**	**116,770**
Total NKWSD Canal Loss		730	3,190	2,076	1,662	2,469	3,409	2,464	3,576	1,603	2,509	1,719	1,392	26,799
Into Reservoir Storage		1,540	690	657	8,049	7,131	7,033	9,501	4,840	0	6	26,994	3,853	70,294
Reservoir Evaporation Loss		227	396	522	807	1,272	1,833	2,125	2,011	1,506	884	643	350	12,576
From Reservoir Storage		145	476	0	0	0	5,843	14,451	9,124	4,881	3,553	1,972	109	40,554
END OF MONTH RESERVOIR STORAGE		**31,019**	**30,837**	**30,972**	**38,214**	**44,073**	**43,430**	**36,355**	**30,060**	**23,673**	**19,242**	**43,621**	**47,015**	

DISCHARGE IN CUBIC FEET PER SECOND

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

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	8	116	55	136	81	218	297	284	20	45	25	28
2	0	127	81	113	113	214	283	205	17	44	25	30
3	0	50	101	82	98	277	227	177	13	41	27	30
4	0	24	105	80	68	239	230	197	6	40	31	30
5	0	24	103	124	81	243	263	211	6	20	29	33
6	0	23	127	96	85	191	166	181	7	15	29	33
7	0	21	164	113	91	197	193	187	7	48	33	51
8	0	30	171	97	181	180	258	150	0	49	102	52
9	0	109	179	146	192	237	268	114	0	48	212	58
10	0	127	180	114	194	280	265	69	0	46	94	40
11	0	47	157	114	187	270	276	128	7	41	85	32
12	0	38	106	73	189	209	265	143	7	46	71	42
13	0	51	131	51	237	208	205	162	1	44	81	41
14	0	39	141	56	240	176	303	176	0	46	80	40
15	0	36	162	124	208	100	486	159	38	58	80	47
16	0	60	164	119	215	217	401	135	121	56	72	45
17	0	80	197	119	240	362	265	106	167	52	73	95
18	15	127	186	122	235	321	234	120	127	52	73	276
19	74	129	158	160	243	225	248	187	125	51	78	297
20	80	73	115	144	290	216	228	187	151	52	79	354
21	76	57	88	133	296	221	282	185	143	51	80	357
22	70	70	98	137	295	99	317	127	128	35	85	356
23	78	67	130	142	254	160	286	117	78	34	124	70
24	80	88	181	176	204	255	219	137	57	35	120	43
25	103	94	233	177	144	259	241	169	38	34	117	44
26	119	80	246	156	132	225	271	177	13	34	79	44
27	131	70	229	80	212	218	218	87	47	35	46	48
28	146	75	212	124	290	251	235	21	29	34	30	45
29	140	-	150	100	308	280	243	0	29	34	30	44
30	107	-	170	103	248	339	253	14	40	17	23	82
31	95	-	152	-	252	-	297	15	-	28	-	71
TOTAL	1,322	1,932	4,672	3,511	6,103	6,887	8,223	4,327	1,422	1,265	2,113	2,858
MAXIMUM DAY	146	129	246	177	308	362	486	284	167	58	212	357
MINIMUM DAY	0	21	55	51	68	99	166	0	0	15	23	28
MEAN	43	69	151	117	197	230	265	140	47	41	70	92
TOTAL AC. FT.	2,622	3,832	9,267	6,963	12,105	13,660	16,310	8,582	2,820	2,509	4,191	5,669

WHOLE YEAR:- TOTAL, 44,635 MAX., 486 MIN., 0 MEAN, 122 TOTAL AC.FT., 88,530

DISCHARGE IN CUBIC FEET PER SECOND — Oilfield Discharge Diverted via Beardsley Canal (Total Flow) — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2	2	3	2	1	2	2	2	0	7	0	0
2	0	2	3	2	1	2	1	2	0	0	0	0
3	0	3	3	2	2	2	2	1	0	0	0	0
4	0	2	3	2	4	1	2	1	0	0	0	0
5	0	2	5	2	3	2	1	1	0	0	0	0
6	0	1	5	2	3	2	1	1	0	0	0	0
7	0	1	5	3	1	1	1	1	0	0	0	0
8	0	2	5	1	2	6	1	1	0	0	0	0
9	0	3	6	2	3	1	1	1	0	0	0	0
10	0	2	6	2	2	8	1	0	0	0	0	0
11	0	1	6	2	3	3	1	0	0	0	0	0
12	0	1	5	2	2	3	1	0	0	0	0	0
13	0	2	5	2	2	3	2	0	0	0	0	0
14	0	2	3	3	2	3	1	0	0	0	0	0
15	0	2	2	2	2	3	2	6	0	0	0	0
16	0	3	2	1	2	3	2	0	0	0	0	0
17	0	3	3	1	2	7	1	0	6	0	0	0
18	0	1	3	1	2	3	1	0	0	0	0	0
19	2	1	3	1	2	2	1	0	0	0	0	0
20	2	1	3	2	2	2	2	0	0	0	0	0
21	2	2	3	3	2	2	2	0	1	0	0	0
22	2	2	3	3	2	1	1	0	0	0	0	0
23	2	3	3	2	2	1	2	0	0	0	0	0
24	2	3	3	2	3	1	2	0	0	0	0	0
25	2	2	3	2	3	1	2	0	0	0	0	0
26	4	2	3	2	2	1	2	0	0	0	0	0
27	5	2	3	2	2	4	2	0	0	0	0	0
28	2	3	2	1	2	2	2	0	0	0	0	0
29	1	-	2	2	2	4	3	0	0	0	0	0
30	1	-	2	1	2	2	2	0	0	0	0	0
31	2	-	2	-	2	-	2	0	-	0	-	0
TOTAL	31	56	108	57	67	78	49	17	7	7	0	0
MAXIMUM DAY	5	3	6	3	4	8	3	6	6	7	0	0
MINIMUM DAY	0	1	2	1	1	1	1	0	0	0	0	0
MEAN	1	2	3	2	2	3	2	1	0	0	0	0
TOTAL AC. FT.	62	111	215	114	132	154	98	33	14	14	0	0

WHOLE YEAR:- TOTAL, 477 MAX., 8 MIN., 0 MEAN, 1 TOTAL AC.FT., 947

DISCHARGE IN CUBIC FEET PER SECOND

Total Diverted via
Cross Valley Canal Conduit "A"

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	23	0	20	0	90	160	160	160	165	20	0
2	0	23	0	22	0	90	160	160	160	165	0	0
3	0	22	0	22	0	90	160	160	160	165	0	0
4	0	22	0	0	0	136	160	160	160	165	0	0
5	0	22	0	12	0	160	160	160	160	154	0	0
6	0	43	0	0	0	160	160	160	160	136	0	0
7	0	43	0	0	0	160	160	160	160	165	0	0
8	0	22	0	0	0	160	160	160	160	165	0	0
9	0	22	0	0	0	160	160	160	160	165	0	0
10	0	22	0	0	0	160	160	160	160	165	0	0
11	0	20	0	0	0	160	160	160	160	165	0	0
12	0	20	0	0	0	160	160	160	160	165	0	0
13	0	20	0	0	0	160	160	160	160	165	0	0
14	0	47	0	0	0	160	160	160	160	165	0	0
15	0	47	24	0	0	160	40	160	160	134	0	0
16	0	47	16	0	0	160	0	160	71	114	0	0
17	0	47	0	0	0	160	104	160	0	114	0	0
18	0	47	0	0	0	160	165	160	0	114	0	0
19	0	23	0	0	0	160	165	160	0	110	0	0
20	0	23	0	0	0	160	165	160	0	104	0	0
21	0	23	0	0	0	160	165	160	0	160	0	0
22	0	23	0	0	0	160	165	160	0	165	0	0
23	0	23	0	0	0	160	160	160	28	140	0	0
24	0	23	0	0	0	160	160	160	89	119	0	0
25	0	47	0	0	0	160	160	160	108	117	0	0
26	0	47	0	0	0	160	160	160	108	83	0	0
27	0	47	0	0	0	160	160	160	142	64	0	0
28	0	47	0	0	0	96	160	160	160	75	0	0
29	0	-	0	0	0	0	160	160	160	86	0	0
30	0	-	23	0	53	0	160	160	160	76	0	0
31	0	-	23	-	90	-	160	160	-	69	-	0
TOTAL	0	885	86	76	143	4,182	4,649	4,960	3,426	4,114	20	0
MAXIMUM DAY	0	47	24	22	90	160	165	160	160	165	20	0
MINIMUM DAY	0	20	0	0	0	0	0	160	0	64	0	0
MEAN	0	32	3	3	5	139	150	160	114	133	1	0
TOTAL AC. FT.	0	1,755	170	151	284	8,295	9,221	9,838	6,795	8,161	40	0

WHOLE YEAR:- TOTAL, 22,541 MAX., 165 MIN., 0 MEAN, 62 TOTAL AC.FT., 44,710

NORTH KERN WATER STORAGE DISTRICT

BEARDSLEY CANAL OPERATIONS

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River	+	2,622	3,832	9,267	6,963	12,105	13,660	16,310	8,582	2,820	2,509	4,191	5,669	88,530
Oilfield Discharge	+	62	111	215	114	132	154	98	33	14	14	0	0	947
C.V.C. Conduit "A"	+	0	1,755	170	151	284	8,295	9,221	9,838	6,795	8,161	40	0	44,710
+ TOTAL BEARDSLEY CANAL SUPPLY	**=**	**2,684**	**5,698**	**9,652**	**7,228**	**12,521**	**22,109**	**25,629**	**18,453**	**9,629**	**10,684**	**4,231**	**5,669**	**134,187**
KRC & Irr. Co. # 1 Lateral (Total Flow)	+	0	0	0	0	0	0	0	0	0	0	0	0	0
KRC & Irr. Co. # 4 Lateral	+	0	218	246	105	158	177	192	198	138	150	0	0	1,582
KRC & Irr. Co. # 5 Lateral	+	42	554	379	415	648	658	623	571	359	214	125	0	4,588
KRC & Irr. Co. Bidart Boosters	+	27	120	175	295	259	323	295	213	210	118	12	58	2,105
KRC & Irr. Co. via 1-0-20	+	0	0	0	0	0	0	0	0	0	0	0	0	0
KRC & Irr. Co. via 1-0-80	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Lined Section Loss	+	10	56	61	60	61	60	61	61	56	48	22	22	578
- TOTAL KRC & IRR. CO. DIVERTED	**=**	**79**	**948**	**861**	**875**	**1,126**	**1,218**	**1,171**	**1,043**	**763**	**530**	**159**	**80**	**8,853**
Kern River Supply	-	69	906	781	829	1,071	1,166	1,137	981	434	347	159	80	7,960
Oilfield Discharge Supply	-	10	42	80	46	55	52	34	8	4	4	0	0	335
C.V.C. Conduit "A" Supply	=	0	0	0	0	0	0	0	54	325	179	0	0	558
Cawelo WD via Pump Station "B"	+	198	371	2,682	3,571	5,851	10,050	11,480	9,158	4,207	2,700	1,059	549	51,876
Cawelo WD Lerdo Gate Deliveries	+	0	95	158	232	259	638	730	170	77	242	65	0	2,666
Lined Section Loss	+	12	36	61	60	61	60	61	61	60	61	52	50	635
Lerdo Canal Loss	+	2	6	30	40	63	113	127	97	46	36	12	4	576
- TOTAL CAWELO WD DIVERTED	**=**	**212**	**508**	**2,931**	**3,903**	**6,234**	**10,861**	**12,398**	**9,486**	**4,390**	**3,039**	**1,188**	**603**	**55,753**
Kern River Supply	-	204	508	2,840	3,752	5,950	2,566	3,177	4,313	1,149	1,769	1,188	603	28,019
Oilfield Discharge Supply	-	8	0	0	0	0	0	0	0	0	0	0	0	8
C.V.C. Conduit "A" Supply	=	0	0	91	151	284	8,295	9,221	5,173	3,241	1,270	0	0	27,726
- Rosedale Ranch ID Diverted	+	0	0	0	0	0	0	24	79	0	0	0	0	103
Kern River Supply	-	0	0	0	0	0	0	24	71	0	0	0	0	95
C.V.C. Conduit "A" Supply	=	0	0	0	0	0	0	0	8	0	0	0	0	8
- KRC & Irr. Co. Diverted		0	0	0	0	0	0	0	0	0	0	0	0	0
- Kern-Tulare WD/Rag Gulch WD Diverted		0	0	0	0	0	0	0	0	0	0	0	0	0
- Lined Section Loss: NKWSD	+	68	76	61	60	61	60	61	61	64	74	106	111	863
= NKWSD FROM LERDO CANAL	**+**	**2,325**	**4,166**	**5,799**	**2,390**	**5,100**	**9,970**	**11,975**	**7,784**	**4,412**	**7,041**	**2,778**	**4,875**	**68,615**
Kern River Supply	-	2,349	2,418	5,646	2,382	5,084	9,928	11,972	3,217	1,237	393	2,844	4,986	52,456
Oilfield Discharge Supply	-	44	69	135	68	77	102	64	25	10	10	0	0	604
C.V.C. Conduit "A" Supply	=	0	1,755	79	0	0	0	0	4,603	3,229	6,712	40	0	16,418

DISCHARGE IN CUBIC FEET PER SECOND — Lerdo Canal at Seventh Standard Line (Total Flow) — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7	137	36	134	73	279	430	436	173	186	35	25
2	0	146	69	121	108	283	422	353	170	183	17	27
3	0	69	99	88	92	355	371	325	167	184	16	27
4	0	34	93	64	63	362	374	345	160	179	18	27
5	0	36	84	123	75	388	411	357	160	152	16	28
6	0	56	109	81	67	340	308	327	162	147	17	27
7	0	55	150	99	70	341	334	333	164	200	22	48
8	0	29	159	83	161	325	404	297	157	202	90	49
9	0	103	169	135	173	379	408	265	156	202	208	55
10	0	119	182	104	180	431	408	218	156	198	91	37
11	0	33	140	104	178	418	416	276	156	203	81	29
12	0	26	88	62	185	360	405	284	157	200	68	39
13	0	47	113	45	223	352	343	294	145	202	77	36
14	0	64	122	55	217	316	439	311	140	202	77	37
15	0	60	173	92	187	240	504	295	174	184	77	42
16	0	86	170	87	186	354	376	264	169	165	69	39
17	0	112	191	90	214	501	345	233	141	162	70	91
18	12	158	172	91	205	459	378	251	93	163	70	273
19	73	136	145	134	221	370	397	319	94	157	75	294
20	79	78	105	122	274	360	373	321	134	153	76	351
21	75	71	79	122	281	364	425	323	127	207	77	354
22	64	81	86	127	281	239	461	273	109	197	82	353
23	66	79	127	129	238	300	423	264	87	171	121	67
24	73	100	180	165	186	397	352	267	129	151	117	40
25	95	123	218	159	126	385	375	303	127	146	114	41
26	114	106	222	139	109	351	399	310	103	114	76	41
27	133	88	212	76	189	349	354	220	173	95	43	41
28	145	107	192	121	258	315	378	161	176	89	27	39
29	138	-	135	93	276	250	395	154	177	96	27	39
30	105	-	178	98	273	310	409	169	172	77	20	74
31	94	-	172	-	314	-	452	168	-	83	-	66
TOTAL	1,273	2,339	4,370	3,143	5,683	10,473	12,269	8,716	4,408	5,050	1,974	2,736
MAXIMUM DAY	145	158	222	165	314	501	504	436	177	207	208	354
MINIMUM DAY	0	26	36	45	63	239	308	154	87	77	16	25
MEAN	41	84	141	105	183	349	396	281	147	163	66	88
TOTAL AC. FT.	2,525	4,638	8,669	6,233	11,273	20,771	24,336	17,288	8,742	10,019	3,914	5,428

WHOLE YEAR:- TOTAL, 62,434 MAX., 504 MIN., 0 MEAN, 171 TOTAL AC.FT., 123,836

NORTH KERN WATER STORAGE DISTRICT
LERDO CANAL OPERATIONS

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Total Beardsley Canal Supply	+	**2,684**	**5,698**	**9,652**	**7,228**	**12,521**	**22,109**	**25,629**	**18,453**	**9,629**	**10,684**	**4,231**	**5,669**	**134,187**
+ KRC & Irr. Co. Laterals		42	772	625	520	806	835	815	769	497	364	125	0	6,170
+ KRC & Irr. Co. Boosters		27	120	175	295	259	323	295	213	210	118	12	58	2,105
+ Lined Section Loss: KRC & Irr. Co.		10	56	61	60	61	60	61	61	56	48	22	22	578
= KRC & Irr. Co. from Beardsley	-	**79**	**948**	**861**	**875**	**1,126**	**1,218**	**1,171**	**1,043**	**763**	**530**	**159**	**80**	**8,853**
Rosedale Ranch ID via 1-1-0	-	0	0	0	0	0	0	0	0	0	0	0	0	0
KCWA-ID4 via 1-1-0 Lateral	-	0	0	0	0	0	0	0	0	0	0	0	0	0
North Kern WSD via 1-1-0	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Lined Section Loss: Cawelo WD	-	12	36	61	60	61	60	61	61	60	61	52	50	635
Lined Section Loss: NKWSD	-	68	76	61	60	61	60	61	61	64	74	106	111	863
Lerdo Canal Total Flow	=	**2,525**	**4,638**	**8,669**	**6,233**	**11,273**	**20,771**	**24,336**	**17,288**	**8,742**	**10,019**	**3,914**	**5,428**	**123,836**
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 Lerdo	-	0	0	0	0	0	0	24	79	0	0	0	0	103
K-TWD/RGWD via 8-17-0	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Cawelo WD Well Water Inflow	+	0	0	0	0	0	0	36	169	149	234	0	0	588
+ Cawelo WD Delivered at Sta. "B"		198	371	2,682	3,571	5,851	10,050	11,480	9,158	4,207	2,700	1,059	549	51,876
+ Cawelo WD 8-0 Deliveries		0	95	158	232	259	638	766	339	226	476	65	0	3,254
+ Lerdo Loss: to Station "B"		2	4	27	36	58	101	115	91	42	27	11	4	518
+ Lerdo Loss: 8-0 Deliveries		0	2	3	4	5	12	12	6	4	9	1	0	58
= Cawelo WD Total from Lerdo	-	**200**	**472**	**2,870**	**3,843**	**6,173**	**10,801**	**12,373**	**9,594**	**4,479**	**3,212**	**1,136**	**553**	**55,706**
North Kern WSD from Lerdo	=	**2,325**	**4,166**	**5,799**	**2,390**	**5,100**	**9,970**	**11,975**	**7,784**	**4,412**	**7,041**	**2,778**	**4,875**	**68,615**

DISCHARGE IN CUBIC FEET PER SECOND — Total Flow via the Calloway Canal Headgate — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	93	25	30	41	37	0	0	67	56	48	23	0
2	122	23	26	45	42	0	0	66	64	43	34	0
3	141	23	32	43	47	0	0	57	67	47	28	0
4	151	24	33	37	42	0	0	58	62	43	25	0
5	150	24	34	35	43	0	0	62	47	46	27	0
6	149	25	27	30	49	0	0	60	44	51	15	0
7	34	25	27	40	50	0	0	61	54	52	13	0
8	32	26	19	40	49	0	0	63	54	49	23	0
9	28	26	29	45	44	0	0	60	56	46	22	0
10	34	27	33	37	50	0	0	65	49	48	24	0
11	35	20	31	38	51	0	0	61	51	51	12	0
12	31	26	33	40	53	0	0	64	51	46	17	0
13	30	31	31	40	54	0	0	60	53	45	0	0
14	30	24	24	45	53	0	0	67	55	46	0	0
15	31	25	25	39	49	0	58	70	55	42	0	0
16	34	23	27	30	50	0	74	68	50	47	0	0
17	33	23	26	42	53	0	71	65	54	47	0	0
18	34	22	27	33	53	0	71	61	50	45	0	0
19	28	18	27	37	55	0	66	63	54	42	0	0
20	23	25	27	43	42	0	66	63	54	42	23	0
21	40	23	33	45	41	0	70	62	56	48	0	0
22	37	25	34	39	47	0	64	66	54	45	0	0
23	29	30	30	42	50	0	65	63	58	44	0	0
24	23	29	23	49	54	0	63	62	60	40	0	0
25	28	26	19	41	58	0	69	57	59	35	0	0
26	21	32	27	29	56	0	68	59	48	36	0	0
27	21	29	37	28	52	0	67	65	51	36	0	0
28	20	27	30	35	60	17	64	65	51	43	0	0
29	19	-	39	37	63	36	69	66	46	45	0	32
30	21	-	41	38	49	0	67	61	45	38	0	11
31	23	-	41	-	63	-	64	54	-	37	-	12
TOTAL	1,525	706	922	1,163	1,559	53	1,136	1,941	1,608	1,373	286	55
MAXIMUM DAY	151	32	41	49	63	36	74	70	67	52	34	32
MINIMUM DAY	19	18	19	28	37	0	0	54	44	35	0	0
MEAN	49	25	30	39	50	2	37	63	54	44	10	2
TOTAL AC. FT.	3,025	1,400	1,829	2,307	3,092	105	2,253	3,850	3,189	2,723	567	110

WHOLE YEAR:- TOTAL, 12,327 MAX., 151 MIN., 0 MEAN, 34 TOTAL AC.FT., 24,450

NORTH KERN WATER STORAGE DISTRICT

CALLOWAY CANAL OPERATIONS

Quantities in acre-feet

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FLOW AT HEADWORKS	+	**3,025**	**1,400**	**1,829**	**2,307**	**3,092**	**105**	**2,253**	**3,850**	**3,189**	**2,723**	**567**	**110**	**24,450**
KCWA Armco Turnout	-	1,121	1,295	1,710	2,182	2,936	89	2,152	3,695	3,041	2,577	438	36	21,272
Seepage Loss	-	117	93	115	125	142	16	101	155	140	126	52	16	1,198
FLOW AT MEASURING STATION	=	**1,787**	**12**	**4**	**0**	**14**	**0**	**0**	**0**	**8**	**20**	**77**	**58**	**1,980**
CVC Turnout to Calloway	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Seepage Loss	-	301	12	4	0	14	0	0	0	8	20	41	14	414
FLOW AT BUCK OWENS WEIR	=	**1,486**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**36**	**44**	**1,566**
Friant-Kern Inflow	+	0	0	0	0	0	0	0	0	0	0	0	0	0
KRC & Irr. Co. 1-1-0 Inflow	+	0	0	0	0	0	0	0	0	0	0	0	0	0
KRC & Irr. Co. Calloway Delivery	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Seepage Loss	-	1,363	0	0	0	0	0	0	0	0	0	36	44	1,443
FLOW AT CENTENNIAL WEIR	=	**123**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**123**
KRC & Irr. Co. Calloway Delivery	-	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	-	123	0	0	0	0	0	0	0	0	0	0	0	123
NKWSD 8-1-0 Inflow	+	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**
for Rosedale Ranch ID	-	0	0	0	0	0	0	0	0	0	0	0	0	0
for North Kern WSD	=	0	0	0	0	0	0	0	0	0	0	0	0	0
KERN COUNTY WATER AGENCY / ID4:														
Operating Loss	+	155	136	167	177	196	20	131	208	188	168	68	20	1,634
Turnout #4 to River	+	0	0	0	0	0	0	0	0	0	0	0	0	0
ID4 Treatment Plant	+	1,045	1,252	1,658	2,130	2,882	79	2,104	3,642	2,993	2,535	422	32	20,774
Cross Valley Canal Filling Losses	+	38	0	0	0	0	6	18	0	0	0	0	0	62
CVC Backflow (Net)	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Spreading Below Measuring Station	+	1,787	12	4	0	14	0	0	0	8	20	77	58	1,980
TOTAL DIVERTED	=	**3,025**	**1,400**	**1,829**	**2,307**	**3,092**	**105**	**2,253**	**3,850**	**3,189**	**2,723**	**567**	**110**	**24,450**
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**

DISCHARGE IN CUBIC FEET PER SECOND

North Kern Water Storage District
Class 1 Irrigation Deliveries

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	48	113	158	185	229	286	312	53	96	76	9
2	4	40	111	158	180	202	284	329	104	106	59	7
3	0	11	103	162	161	353	329	185	80	94	3	16
4	0	29	71	143	163	315	346	167	74	120	64	9
5	2	34	87	149	61	337	326	206	164	98	30	6
6	0	34	97	117	134	352	254	243	119	51	49	6
7	2	30	87	78	144	357	222	227	163	83	29	7
8	2	14	126	144	179	251	272	230	120	104	15	6
9	0	10	57	127	255	215	285	237	75	116	19	7
10	4	10	47	151	251	372	295	149	86	103	0	12
11	4	23	87	194	122	353	373	130	69	107	23	16
12	4	30	95	156	78	264	374	212	76	70	11	15
13	4	33	97	102	214	262	262	180	64	42	24	15
14	4	37	127	28	165	335	277	189	134	88	20	19
15	2	42	130	165	223	253	313	218	96	93	20	20
16	8	40	111	145	265	203	323	221	55	85	21	19
17	12	24	46	179	292	308	332	189	65	79	6	20
18	19	37	134	170	191	292	331	139	111	92	19	19
19	8	94	166	185	118	316	339	214	95	51	20	17
20	8	90	156	168	258	329	256	238	95	18	36	27
21	33	139	107	48	246	282	231	250	70	96	33	24
22	34	88	87	159	278	235	307	191	41	100	33	14
23	56	78	81	182	262	206	272	153	42	98	35	32
24	55	52	39	220	256	259	224	160	63	81	25	0
25	49	105	77	226	81	223	315	111	63	88	38	0
26	38	96	87	175	70	222	339	142	85	73	23	23
27	33	110	126	140	279	248	254	123	68	20	9	23
28	74	89	145	37	297	285	273	150	62	64	10	19
29	69	-	137	179	278	212	334	133	20	69	11	21
30	68	-	26	192	318	192	317	141	68	56	11	12
31	78	-	8	-	341	-	321	130	-	56	-	10
TOTAL	674	1,467	2,968	4,437	6,345	8,262	9,266	5,899	2,480	2,497	772	450
MAXIMUM DAY	78	139	166	226	341	372	374	329	164	120	76	32
MINIMUM DAY	0	10	8	28	61	192	222	111	20	18	0	0
MEAN	22	52	96	148	205	275	299	190	83	81	26	15
TOTAL AC. FT.	1,336	2,910	5,886	8,801	12,586	16,388	18,379	11,700	4,918	4,953	1,532	892

WHOLE YEAR:- TOTAL, 45,517 MAX., 374 MIN., 0 MEAN, 125 TOTAL AC.FT., 90,281

North Kern Water Storage District

DISCHARGE IN CUBIC FEET PER SECOND — Class 2 Irrigation Deliveries — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	14	47	36	55	66	62	65	23	19	0	3
2	0	20	47	33	33	64	57	71	19	12	0	7
3	0	21	42	42	51	63	80	49	15	25	0	5
4	0	33	23	38	10	62	74	54	27	19	26	5
5	3	31	10	24	10	68	59	88	33	6	43	7
6	3	27	17	20	45	65	62	47	41	6	30	6
7	3	26	24	4	50	64	63	44	36	11	31	3
8	3	15	37	16	40	66	62	73	25	14	19	3
9	3	12	24	24	40	68	61	67	16	11	0	7
10	3	8	10	29	33	82	58	70	32	23	3	6
11	3	20	35	48	14	79	52	35	24	12	3	11
12	3	23	35	47	14	61	76	71	36	2	6	14
13	3	29	41	42	60	68	76	70	44	0	5	12
14	2	10	55	13	54	60	78	67	32	9	5	13
15	9	13	40	54	39	67	55	73	10	15	5	12
16	0	17	22	65	38	36	52	68	25	8	5	9
17	0	10	6	80	39	41	67	62	33	5	10	9
18	0	9	29	93	20	46	52	42	29	5	12	9
19	0	9	29	77	8	40	53	54	24	11	5	9
20	0	9	33	71	43	51	73	72	16	5	0	10
21	14	12	35	16	50	53	57	67	19	9	0	9
22	10	23	32	63	49	58	77	60	6	16	0	6
23	17	3	25	69	47	49	77	43	15	6	0	9
24	22	4	10	70	53	47	54	42	15	8	0	7
25	19	39	17	33	22	60	91	23	16	17	0	7
26	22	46	20	17	50	51	82	33	13	4	0	8
27	22	43	30	6	47	62	66	46	17	0	0	8
28	33	58	20	8	38	50	52	43	18	12	0	8
29	29	-	14	64	39	54	35	36	11	4	0	7
30	29	-	13	60	67	50	53	32	17	0	0	7
31	31	-	4	-	60	-	62	29	-	0	-	7
TOTAL	286	584	826	1,262	1,218	1,751	1,978	1,696	687	294	208	243
MAXIMUM DAY	33	58	55	93	67	82	91	88	44	25	43	14
MINIMUM DAY	0	3	4	4	8	36	35	23	6	0	0	3
MEAN	9	21	27	42	39	58	64	55	23	9	7	8
TOTAL AC. FT.	568	1,157	1,638	2,503	2,417	3,472	3,924	3,363	1,362	583	412	482

WHOLE YEAR:- TOTAL, 11,033 MAX., 93 MIN., 0 MEAN, 30 TOTAL AC.FT., 21,881

DISCHARGE IN CUBIC FEET PER SECOND

North Kern Water Storage District
Shafter-Wasco ID Exchange Deliveries

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	14	15	0	0	0	14	0	0	0	0
2	0	0	10	14	0	0	0	12	0	0	0	0
3	0	0	14	14	0	0	13	10	0	0	0	0
4	0	0	15	15	0	0	15	11	0	0	0	0
5	0	0	16	15	0	0	14	11	0	0	0	0
6	0	0	18	15	0	0	14	0	0	0	0	0
7	0	0	9	12	0	0	12	0	0	0	0	0
8	0	0	15	11	9	0	13	0	0	0	0	0
9	0	0	15	9	8	0	13	0	0	0	0	0
10	0	0	13	11	9	0	14	0	0	0	0	0
11	0	0	16	8	8	0	14	0	0	0	0	0
12	0	0	17	9	9	0	13	0	0	0	0	0
13	0	0	15	10	9	0	8	0	0	0	0	0
14	0	0	15	8	8	0	12	0	0	0	0	0
15	0	0	1	9	9	0	14	0	0	0	0	0
16	0	0	0	9	8	0	14	0	0	0	0	0
17	0	0	0	10	3	0	15	0	0	0	0	0
18	0	0	14	0	0	0	14	0	0	0	0	0
19	0	0	16	0	0	0	14	0	0	0	0	0
20	0	0	17	0	8	0	14	0	0	0	0	0
21	0	17	16	0	9	0	14	0	0	0	0	0
22	0	14	16	0	0	0	15	0	0	0	0	0
23	0	16	16	0	0	0	13	0	0	0	0	0
24	0	18	15	0	0	0	14	0	0	0	0	0
25	0	15	16	0	0	0	13	0	0	0	0	0
26	0	18	17	0	0	0	15	0	0	0	0	0
27	0	13	15	0	0	0	13	0	0	0	0	0
28	0	22	16	0	0	0	12	0	0	0	0	0
29	0	-	16	0	0	0	13	0	0	0	0	0
30	0	-	0	0	0	0	14	0	0	0	0	0
31	0	-	0	-	0	-	14	0	-	0	-	0
TOTAL	0	133	393	194	97	0	390	58	0	0	0	0
MAXIMUM DAY	0	22	18	15	9	0	15	14	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	5	13	6	3	0	13	2	0	0	0	0
TOTAL AC. FT.	0	263	779	385	193	0	773	116	0	0	0	0

WHOLE YEAR:- TOTAL, 1,265 MAX., 22 MIN., 0 MEAN, 3 TOTAL AC.FT., 2,509

DISCHARGE IN CUBIC FEET PER SECOND | Total Diverted to Rosedale Ranch Improvement District | Year: 2002

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	4	0	0	0	0
3	0	0	0	0	0	0	0	4	0	0	0	0
4	0	0	0	0	0	0	0	4	0	0	0	0
5	0	0	0	0	0	0	0	4	0	0	0	0
6	0	0	0	0	0	0	0	4	0	0	0	0
7	0	0	0	0	0	0	0	4	0	0	0	0
8	0	0	0	0	0	0	0	4	0	0	0	0
9	0	0	0	0	0	0	0	4	0	0	0	0
10	0	0	0	0	0	0	0	4	0	0	0	0
11	0	0	0	0	0	0	0	4	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	4	0	0	0	0	0
27	0	0	0	0	0	0	4	0	0	0	0	0
28	0	0	0	0	0	0	4	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	0	0	0	12	40	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	4	4	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	1	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	0	24	79	0	0	0	0

WHOLE YEAR:- TOTAL, 52 MAX., 4 MIN., 0 MEAN, 0 TOTAL AC.FT., 103

DISCHARGE IN CUBIC FEET PER SECOND

Poso Creek as Measured at Highway "99" (Total Flow)

Year: 2002

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

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

NORTH KERN WATER STORAGE DISTRICT
STATUS OF EXCHANGE

Quantities in acre-feet

Year: 2002

	KERN DELTA WD		CAWELO WD		LA HACIENDA, INC.		IMPROVEMENT DISTRICT NO.4		KERN-TULARE WD		RAG GULCH WD		ROSEDALE RANCH ID		PARAMOUNT FARMING CO.		SEMITROPIC WSD		SHAFTER-WASCO ID		SOUTHERN SAN JOAQUIN MUD	
	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from
Prior Year Status	0	0	2,082	0	0	5,824	0	48,053	0	0	0	0	0	4,145	0	31,885	0	323	0	30,197	0	10,868
January	0	0	0	0	0	0	11,378	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	1,755	1,755	0	0	0	0	0	0	0	0	0	0	263	0	0	0
March	0	0	0	0	0	0	0	79	0	0	0	0	0	0	0	0	0	0	779	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	385	0	0	0
May	0	0	0	0	0	0	79	0	0	0	0	0	0	0	0	0	0	0	193	0	0	0
June	0	0	1,283	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	0	0	1,256	0	0	0	2,200	0	0	0	0	0	24	0	0	0	0	0	773	0	0	0
August	0	0	2,161	0	0	0	4,569	5,345	0	0	0	0	79	0	0	0	0	0	116	0	0	0
September	0	0	0	0	0	0	3,969	3,554	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	3,469	6,891	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	8,959	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	5,223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	4,700	0	0	0	41,601	17,664	0	0	0	0	103	0	0	0	0	0	2,509	0	0	0
Current Status	0	0	6,782	0	0	5,824	0	24,116	0	0	0	0	0	4,042	0	31,885	0	323	0	27,688	0	10,868

NORTH KERN WATER STORAGE DISTRICT

IMPROVEMENT DISTRICT NO. 4 WATER EXCHANGE SUMMARY

Status as of 12-31-2002

Quantities in acre-feet

Pursuant to North Kern WSD/Improvement District #4 Accounting Agreement Dated March 1, 1995								
CATEGORY "A"				**CATEGORY "B"**				
Date	*NKWSD to ID4*	*ID4 to NKWSD*	*Cumulative Exchange Balance*	*Date*	*NKWSD to ID4*	*ID4 to NKWSD*	*Cumulative Exchange Balance*	*Overall Exchange Balance*
1988	12,163	7,796	4,367	1988	0	0	0	4,367
1989	0	0	4,367	1989	0	0	0	4,367
1990	0	1,630	2,737	1990	0	0	0	2,737
1991	0	261	2,476	1991	395	0	395	2,871
1992	0	0	2,476	1992	0	0	395	2,871
1993	12,557	9,434	5,599	1993	0	0	395	5,994
1994	0	0	5,599	1994	0	0	395	5,994
1995	0	8,635	(3,036)	1995	0	0	395	(2,641)
1996	0	0	(3,036)	1996	0	0	395	(2,641)
1997	3,882	0	846	1997	0	0	395	1,241
1998	4,323	0	5,169	1998	0	0	395	5,564
1999	3,748	64,000	(55,083)	1999	0	0	395	(54,688)
2000	4,629	10,000	(60,454)	2000	14,240	11,921	2,714	(57,740)
2001	12,401	0	(48,053)	2001	0	2,714	0	(48,053)
2002	25,110	0	(22,943)	2002	16,491	17,664	(1,173)	(24,116)
Totals	**78,813**	**101,756**		**Totals**	**31,126**	**32,299**		

CATEGORY "A"

Priority

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

Point of Delivery

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

CATEGORY "B"

Priority

ID4 Priority 2.

Point of Delivery

Beardsley Canal.

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

Priority 2.

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

Priority 3.

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

Priority Equation D.

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

North Kern Water Storage District Diverted to Improvement District No. 4

DISCHARGE IN CUBIC FEET PER SECOND (Does not include deliveries into Isabella Reservoir storage) Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	332	30	0	0	0	0	0	65	66	66	31	149
2	332	23	0	0	0	0	0	74	70	58	35	99
3	332	10	0	0	0	0	0	72	74	60	31	89
4	332	36	0	0	0	0	0	71	75	53	27	42
5	332	27	0	0	0	0	0	56	70	55	31	0
6	332	35	0	0	0	0	0	79	69	56	33	0
7	332	30	0	0	0	0	0	83	63	50	39	0
8	332	33	0	0	0	0	0	65	63	60	74	0
9	332	45	0	0	0	0	0	74	63	56	111	0
10	317	9	0	0	0	0	0	88	62	56	182	0
11	300	53	0	0	0	0	0	94	58	60	233	0
12	294	30	0	0	0	0	0	75	63	59	299	0
13	270	28	0	0	0	0	0	69	66	64	351	0
14	256	49	0	0	0	0	0	81	64	56	299	0
15	231	44	0	0	0	0	0	61	80	54	201	26
16	209	34	0	0	0	0	0	85	66	62	167	315
17	175	34	0	0	0	0	47	80	68	54	158	265
18	148	13	0	0	0	0	85	77	67	52	200	134
19	76	17	0	0	0	0	83	68	66	52	196	122
20	45	26	0	0	0	0	79	76	63	56	194	73
21	45	26	0	0	0	0	76	58	68	55	209	48
22	38	37	0	0	0	0	75	54	68	61	172	32
23	37	39	0	0	0	0	79	85	63	59	130	5
24	49	39	0	0	0	0	74	76	60	53	133	236
25	41	40	0	0	0	0	84	72	68	48	117	163
26	30	35	0	0	0	0	60	76	63	43	153	136
27	40	33	0	0	0	0	77	74	70	46	187	121
28	32	30	0	0	0	0	65	72	73	57	203	160
29	39	-	0	0	0	0	77	90	59	61	190	161
30	36	-	0	0	0	0	79	77	73	61	131	120
31	40	-	0	-	40	-	69	77	-	66	-	137
TOTAL	5,736	885	0	0	40	0	1,109	2,304	2,001	1,749	4,517	2,633
MAXIMUM DAY	332	53	0	0	40	0	85	94	80	66	351	315
MINIMUM DAY	30	9	0	0	0	0	0	54	58	43	27	0
MEAN	185	32	0	0	1	0	36	74	67	56	151	85
TOTAL AC. FT.	11,378	1,755	0	0	79	0	2,200	4,569	3,969	3,469	8,959	5,223

WHOLE YEAR:- TOTAL, 20,974 MAX., 351 MIN., 0 MEAN, 57 TOTAL AC.FT., 41,601

DISCHARGE IN CUBIC FEET PER SECOND

Improvement District No. 4 Diverted to North Kern Water Storage District
(Does not include deliveries into Isabella Reservoir storage)

Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	23	0	0	0	0	0	80	44	121	20	0
2	0	23	0	0	0	0	0	80	44	121	0	0
3	0	22	0	0	0	0	0	80	64	120	0	0
4	0	22	0	0	0	0	0	80	64	120	0	0
5	0	22	0	0	0	0	0	80	64	109	0	0
6	0	43	0	0	0	0	0	80	65	91	0	0
7	0	43	0	0	0	0	0	80	65	121	0	0
8	0	22	0	0	0	0	0	80	74	121	0	0
9	0	22	0	0	0	0	0	80	74	121	0	0
10	0	22	0	0	0	0	0	80	74	121	0	0
11	0	20	0	0	0	0	0	80	80	121	0	0
12	0	20	0	0	0	0	0	80	80	121	0	0
13	0	20	0	0	0	0	0	80	74	121	0	0
14	0	47	0	0	0	0	0	80	97	121	0	0
15	0	47	24	0	0	0	0	80	118	114	0	0
16	0	47	16	0	0	0	0	80	45	114	0	0
17	0	47	0	0	0	0	0	80	0	114	0	0
18	0	47	0	0	0	0	0	80	0	114	0	0
19	0	23	0	0	0	0	0	80	0	110	0	0
20	0	23	0	0	0	0	0	80	0	104	0	0
21	0	23	0	0	0	0	0	80	0	160	0	0
22	0	23	0	0	0	0	0	80	0	165	0	0
23	0	23	0	0	0	0	0	80	28	140	0	0
24	0	23	0	0	0	0	0	80	64	119	0	0
25	0	47	0	0	0	0	0	80	64	117	0	0
26	0	47	0	0	0	0	0	80	64	83	0	0
27	0	47	0	0	0	0	0	80	98	64	0	0
28	0	47	0	0	0	0	0	60	116	75	0	0
29	0	-	0	0	0	0	0	44	116	86	0	0
30	0	-	0	0	0	0	0	44	116	76	0	0
31	0	-	0	-	0	-	0	44	-	69	-	0
TOTAL	0	885	40	0	0	0	0	2,352	1,792	3,474	20	0
MAXIMUM DAY	0	47	24	0	0	0	0	80	118	165	20	0
MINIMUM DAY	0	20	0	0	0	0	0	44	0	64	0	0
MEAN	0	32	1	0	0	0	0	76	60	112	1	0
NET AC. FT.	0	1,755	79	0	0	0	0	4,665	3,554	6,891	40	0
AC. FT. LOSS	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL AC. FT.	0	1,755	79	0	0	0	0	4,665	3,554	6,891	40	0

WHOLE YEAR:- TOTAL, 8,563 MAX., 165 MIN., 0 MEAN, 23 TOTAL AC.FT., 16,984

DISCHARGE IN CUBIC FEET PER SECOND | North Kern WSD Diverted to Cawelo Water District | Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	26	13	56	0	0	0	0
2	0	0	0	0	0	23	18	42	0	0	0	0
3	0	0	0	0	0	38	18	38	0	0	0	0
4	0	0	0	0	0	20	18	35	0	0	0	0
5	0	0	0	0	0	13	28	37	0	0	0	0
6	0	0	0	0	0	16	30	49	0	0	0	0
7	0	0	0	0	0	20	23	46	0	0	0	0
8	0	0	0	0	0	11	20	46	0	0	0	0
9	0	0	0	0	0	10	28	32	0	0	0	0
10	0	0	0	0	0	12	30	30	0	0	0	0
11	0	0	0	0	0	15	33	30	0	0	0	0
12	0	0	0	0	0	15	30	30	0	0	0	0
13	0	0	0	0	0	13	29	44	0	0	0	0
14	0	0	0	0	0	17	13	46	0	0	0	0
15	0	0	0	0	0	22	18	53	0	0	0	0
16	0	0	0	0	0	17	23	53	0	0	0	0
17	0	0	0	0	0	21	27	32	0	0	0	0
18	0	0	0	0	0	18	4	33	0	0	0	0
19	0	0	0	0	0	17	9	33	0	0	0	0
20	0	0	0	0	0	13	24	32	0	0	0	0
21	0	0	0	0	0	16	20	32	0	0	0	0
22	0	0	0	0	0	17	21	40	0	0	0	0
23	0	0	0	0	0	15	15	40	0	0	0	0
24	0	0	0	0	0	14	15	41	0	0	0	0
25	0	0	0	0	0	22	23	42	0	0	0	0
26	0	0	0	0	0	22	24	41	0	0	0	0
27	0	0	0	0	0	18	16	31	0	0	0	0
28	0	0	0	0	0	6	17	9	0	0	0	0
29	0	-	0	0	0	65	16	0	0	0	0	0
30	0	-	0	0	0	95	14	7	0	0	0	0
31	0	-	0	-	0	-	16	10	-	0	-	0
TOTAL	0	0	0	0	0	647	633	1,090	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	95	33	56	0	0	0	0
MINIMUM DAY	0	0	0	0	0	6	4	0	0	0	0	0
MEAN	0	0	0	0	0	22	20	35	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	1,283	1,256	2,161	0	0	0	0

WHOLE YEAR:- TOTAL, 2,370 MAX., 95 MIN., 0 MEAN, 6 TOTAL AC.FT., 4,700

DISCHARGE IN CUBIC FEET PER SECOND

Cawelo Water District Diverted to North Kern WSD

Year: 2002

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

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

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

Quantities in acre-feet

2000	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
NKWSD to CITY	0	3,844	2,408	0	0	0	0	0	0	0	0	114	6,366
CITY to NKWSD	0	0	3,540	379	0	6,081	0	0	0	0	0	0	10,000
Other Purchase Rate	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY Debit to NKWSD	42,551	46,395	45,263	44,884	44,884	38,803	38,803	38,803	38,803	38,803	38,803	38,917	

2001													
NKWSD to CITY	4,580	0	211	0	0	0	0	0	0	0	0	0	4,791
CITY to NKWSD	0	0	2,314	2,235	0	0	0	0	0	0	0	0	4,549
Other Purchase Rate	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY Debit to NKWSD	43,497	43,497	41,394	39,159	39,159	39,159	39,159	39,159	39,159	39,159	39,159	39,159	

2002													
NKWSD to CITY	292	0	134	0	0	0	0	0	0	0	0	2,533	2,959
CITY to NKWSD	0	0	2,121	3,384	828	0	0	0	0	0	0	0	6,333
Other Purchase Rate	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY Debit to NKWSD	39,451	39,451	37,464	34,080	33,252	33,252	33,252	33,252	33,252	33,252	33,252	35,785	

Long Term Recapitulation

BORROW/PAYBACK WATER EXCHANGE BETWEEN NORTH KERN WSD and CITY OF BAKERSFIELD

Quantities in acre-feet

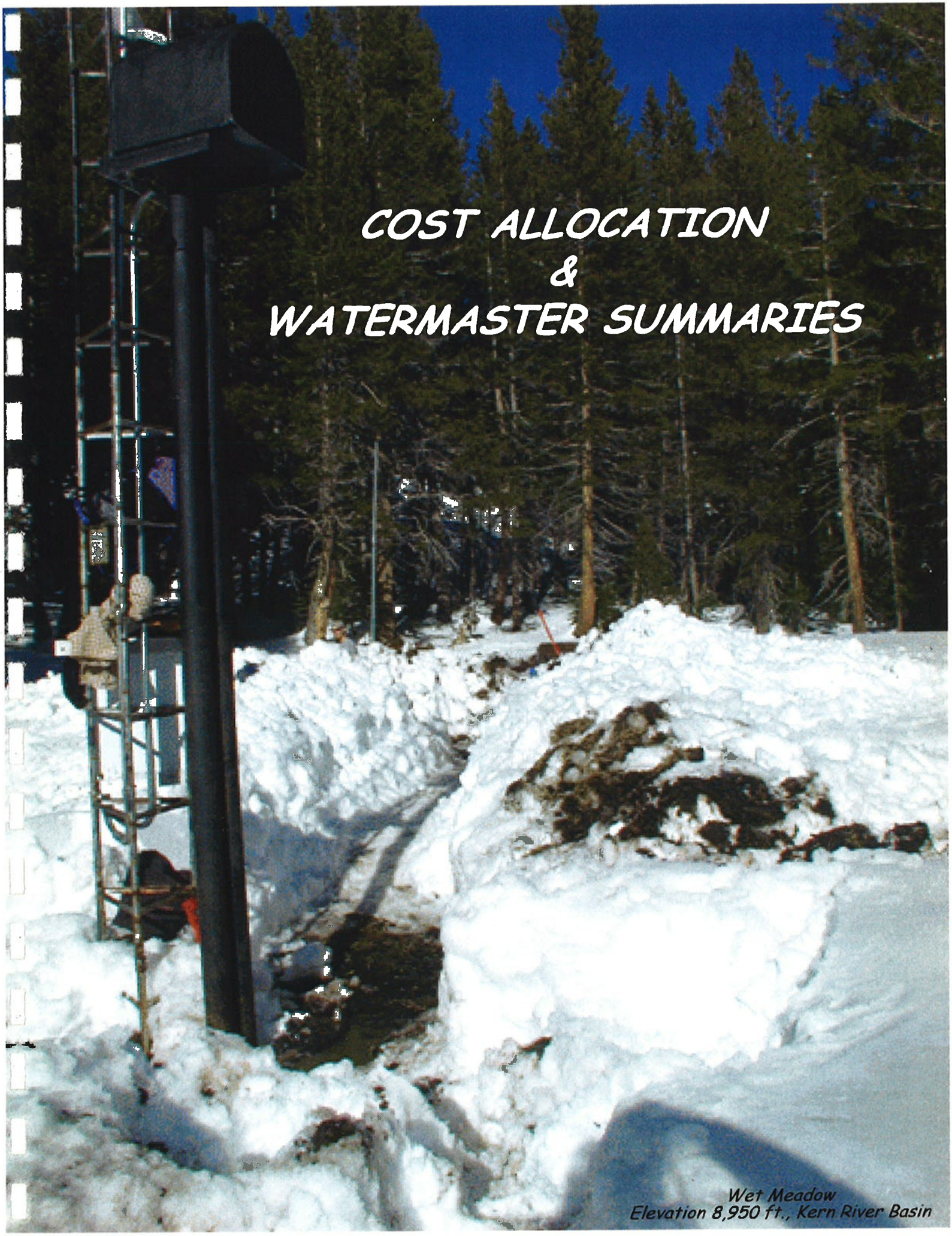
Year: 2002

YEAR	NORTH KERN WSD TO CITY OF BAKERSFIELD	CITY OF BAKERSFIELD TO NORTH KERN WSD	END OF YEAR RUNNING BALANCE (CITY OWES NKWSD)
1962	0	0	323 (1)
1963	35,025	24,094 (2)	11,254
1964	16,200	50,649	(23,195)
1965	46,532	11,783	11,554
1966	27,669	43,130	(3,907)
1967	18,836	18,799	(3,870)
1968	50,370	62,220	(15,720)
1969	5,084	0	(10,636)
1970	43,496	57,887	(25,027)
1971	44,186	49,056	(29,897)
1972	16,250	10,157	(23,804)
1973	493	0	(23,311)
1974	0	0	(23,311)
1975	5,585	0	(17,726)
1976	0	0	(17,726)
1977	2,054	0	(15,672)
1978	30,517	0	14,845
1979	0	10,000	4,845
1980	14,765	0	19,610
1981	184	5,318	14,476
1982	10,224	0	24,700
1983	0	0	24,700
1984	10,192	10,000	24,892
1985	9,550	10,000	24,442
1986	5,000	0	29,442
1987	2,448	7,500	24,390
1988	8,379	1,877	30,892
1989	5,848	3,877	32,863
1990	1,552	716	33,699
1991	8,763	985	41,477
1992	3,522	4,276	40,723
1993	24,872	17,292	48,303
1994	3,938	2,981	49,260
1995	7,966	934	56,292
1996	5,669	0	61,961
1997	0	10,000	51,961
1998	0	0	51,961
1999	590	10,000	42,551
2000	6,366	10,000	38,917
2001	4,791	4,549	39,159
2002	2,959	6,333	35,785

Notes:

(1) Carryover from Buena Vista WSD/North Kern WSD River Program Agreement assumed by Conduit (City) as part of Agreement.

(2) First transaction under NKWSD/Conduit (City) Borrow/Payback Exchange executed in March of 1963.


COST ALLOCATION
&
WATERMASTER SUMMARIES
Wet Meadow
Elevation 8,950 ft., Kern River Basin

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

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

Quantities in acre-feet

Year: 2002

	1998	1999	2000	2001	2002	Five Year Total	Allocation Percentage
Carrier Canal at Head	252,015	170,089	170,098	189,997	205,190	987,389	99.87%
Oilfield Discharge	14	13	93	184	121	425	0.04%
Storm Drain Inflow	284	197	123	141	121	866	0.09%
TOTAL CARRIER CANAL FLOW	**252,313**	**170,299**	**170,314**	**190,322**	**205,432**	**988,680**	**100.00%**
Kern Island Canal (1)	106,237	122,381	137,692	130,955	138,274	635,539	64.28%
Eastside Canal	13,742	17,214	16,126	13,816	13,928	74,826	7.57%
Kern Delta WD via Levee #1	61,175	20,094	11,880	17,835	15,146	126,130	12.76%
KERN DELTA WATER DISTRICT TOTAL	**181,154**	**159,689**	**165,698**	**162,606**	**167,348**	**836,495**	**84.61%**
Carrier Waste Gate	648	14	6	0	32	700	0.07%
Kern River Conduit via Levee #1	70,511	10,596	4,610	27,716	38,052	151,485	15.32%
CITY OF BAKERSFIELD TOTAL	**71,159**	**10,610**	**4,616**	**27,716**	**38,084**	**152,185**	**15.39%**

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

CARRIER CANAL BELOW FOUR WEIRS - ALLOCATION

Utilization of Water - Preceding Five Years

Quantities in acre-feet

Year: 2002

	1998	1999	2000	2001	2002	Five Year Total	Allocation Percentage
TOTAL CARRIER CANAL FLOW (1)	**339,130**	**114,243**	**87,004**	**71,528**	**42,613**	**654,518**	**100.00%**
Stine Canal Total Diverted (2)	33,097	13,028	18,871	0	1,407	66,403	10.15%
Arvin-Edison Turnout Total Diverted (2)	5,293	7,049	4,723	0	0	17,065	2.61%
Buena Vista Canal Total Diverted (2)	30,670	25,685	25,200	17,027	18,546	117,128	17.90%
River Canal Total Diverted (3)	693	0	746	2,253	730	4,422	0.68%
KERN DELTA WATER DISTRICT TOTAL DIVERTED FROM CARRIER CANAL	**69,753**	**45,762**	**49,540**	**19,280**	**20,683**	**205,018**	**31.34%**
KERN RIVER CONDUIT (City of Bakersfield)	**269,377**	**68,481**	**37,464**	**52,248**	**21,930**	**449,500**	**68.66%**

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

CALLOWAY AND BEARDSLEY CANALS

Allocation of Joint Accounts
2002

CALLOWAY CANAL USED

Preceding Ten Years

	Diverted via Calloway Canal				
Year	NKWSD	CITY	Subtotal	ID4	TOTAL
1993	27,341	14,356	41,697	38,873	80,570
1994	0	0	0	22,829	22,829
1995	112,624	16,380	129,004	45,914	174,918
1996	40,699	7,266	47,965	39,140	87,105
1997	59,207	14,927	74,134	46,814	120,948
1998	97,572	10,684	108,256	33,124	141,380
1999	11,873	611	12,484	30,624	43,108
2000	97	0	97	32,258	32,355
2001	0	0	0	9,034	9,034
2002	0	0	0	24,450	24,450
Total	349,413	64,224	413,637	323,060	736,697
Percent	**84.47%**	**15.53%**	**100.00%**		

BEARDSLEY CANAL USED

Preceding Five Years

	Diverted via Beardsley Canal						
	North Kern Water Storage District						
Year	NKWSD	RRID	TOTAL	CITY	Subtotal	CWD/Other	TOTAL
1998	250,720	4,369	255,089	8,525	263,614	61,613	325,227
1999	134,672	5,310	139,982	12,652	152,634	69,199	221,833
2000	129,567	1,621	131,188	14,688	145,876	62,352	208,228
2001	76,123	593	76,716	10,743	87,459	47,167	134,626
2002	68,052	103	68,155	10,287	78,442	55,745	134,187
Total	659,134	11,996	671,130	56,895	728,025	296,076	1,024,101
Percent	**90.54%**	**1.65%**	**92.19%**	**7.81%**	**100.00%**		

IMPROVEMENT DISTRICT NO. 4 USE OF CALLOWAY CANAL

Pursuant to Calloway Canal Agreement dated April 28, 1982

Quantities in acre-feet except where noted...

Year: 2002

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
	Operating Loss	155	136	167	177	196	20	131	208	188	168	68	20	1,634
	Treatment Plant	1,045	1,252	1,658	2,130	2,882	79	2,104	3,642	2,993	2,535	422	32	20,774
	Reverse Flow via Pump Plant #7	0	0	0	0	0	0	0	0	0	0	0	0	0
E	CVC Extension Losses	38	0	0	0	0	6	18	0	0	0	0	0	62
A R	T.O. #4 to River	0	0	0	0	0	0	0	0	0	0	0	0	0
S E	Loss to Buck Owens Weir	301	12	4	0	14	0	0	0	8	20	41	14	414
T A	Western Reach Flow	1,486	0	0	0	0	0	0	0	0	0	36	44	1,566
E C	Trans. Charge Waived	0	0	0	0	0	0	0	0	0	0	0	0	0
R H	SUB-TOTAL DIVERSION	3,025	1,400	1,829	2,307	3,092	105	2,253	3,850	3,189	2,723	567	110	24,450
N	Base Rate	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	$0.75	
	Escalator	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	1.285	
	Current Rate	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	
	SUB-TOTAL CHARGE	$2,904.00	$1,344.00	$1,755.84	$2,214.72	$2,968.32	$100.80	$2,162.88	$3,696.00	$3,061.44	$2,614.08	$544.32	$105.60	$23,472.00
W	Bartell Spreading	0	0	0	0	0	0	0	0	0	0	0	0	0
E R	Loss Below Buck Owens Weir	1,486	0	0	0	0	0	0	0	0	0	36	44	1,566
S E	NKWSD Exchange Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0
T A	Trans. Charge Waived	0	0	0	0	0	0	0	0	0	0	0	0	0
E C	SUB-TOTAL DIVERSION	1,486	0	0	0	0	0	0	0	0	0	36	44	1,566
R H	Current Rate	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	$0.96	
N	SUB-TOTAL CHARGE	$1,426.56	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$34.56	$42.24	$1,503.36
	TOTAL CHARGE	**$4,330.56**	**$1,344.00**	**$1,755.84**	**$2,214.72**	**$2,968.32**	**$100.80**	**$2,162.88**	**$3,696.00**	**$3,061.44**	**$2,614.08**	**$578.88**	**$147.84**	**$24,975.36**

HYDROGRAPHIC SUMMARY

UTILIZATION OF WATER - FIRST POINT GROUP - PRECEDING FIVE YEARS

Quantities in acre-feet

Year: 2002

Canal	1998	1999	2000	2001	2002	Five Year Total	Percentage
Kern Island	109,996	116,598	137,708	124,148	127,900	616,350	23.34%
Eastside	13,742	17,214	16,042	13,816	13,928	74,742	2.83%
Buena Vista	22,912	11,237	18,067	11,263	12,827	76,306	2.89%
Stine	22,970	11,500	12,622	5,930	7,719	60,741	2.30%
Farmers	18,834	11,773	12,097	5,224	7,710	55,638	2.11%
Subtotal Kern Delta WD	**188,454**	**168,322**	**196,536**	**160,381**	**170,084**	**883,777**	**33.47%**
City of Bakersfield	511,316	104,088	72,504	44,026	33,208	765,142	28.98%
K.R.C. & I. Co. (Beardsley)	8,020	11,130	11,571	8,460	7,960	47,141	1.79%
Central - I.D. #4 (Calloway)	43,808	31,235	32,258	9,034	24,450	140,785	5.33%
James	69,754	599	0	0	0	70,353	2.66%
Pioneer	41,605	0	0	2,179	0	43,784	1.66%
Subtotal City of Bakersfield	**674,503**	**147,052**	**116,333**	**63,699**	**65,618**	**1,067,205**	**40.42%**
North Kern WSD	**346,844**	**101,030**	**108,839**	**80,299**	**52,551**	**689,563**	**26.11%**
Total First Point Group	**1,209,801**	**416,404**	**421,708**	**304,379**	**288,253**	**2,640,545**	**100.00%**
South Fork	451	896	900	474	160		
First Point Passing 2nd Point	18,161	0	0	0	0		
River Loss and Spreading	95,514	31,968	34,935	37,914	57,115		
Flow Above First Point	2,864	2,480	2,869	2,847	3,163		
Total 1st Point Group Diverted	**1,326,791**	**451,748**	**460,412**	**345,614**	**348,691**		

- 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: 2002

Year	Acre-Foot Days of Irrigation Storage			Isabella O&M Charges (2)
	NKWSD (1)	BVWSD	Total A.F.D.	
1998	83,156,954	39,569,618	122,726,572	$144,137
1999	48,932,446	28,030,294	76,962,740	$390,887
2000	30,676,075	27,075,766	57,751,841	$390,887
2001	21,539,350	19,955,860	41,495,210	(3) $366,015
2002	20,532,190	13,690,799	34,222,989	$366,015
5-Year Totals	204,837,015	128,322,337	333,159,352	$1,657,941

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

- Total 5-Year Operation & Interest Charge..... $2,801,191

Total 5-Year Cost / Total 5-Year Use = $2,801,191 / 333,159,352 = $0.0084080 Rental Charge Per Acre-Foot Day

TOTAL 2002 HACIENDA WD Acre-Foot Storage Days = 0

TOTAL 2002 HACIENDA WD Share of 2002 Storage Costs = $0.00

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

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

(3) Reflects revised Isabella Reservoir O&M Charges for years 2001-2003 pursuant to Corps of Engineers billing statement dated February 1, 2000...

KERN COUNTY RECREATION POOL REPORT
FROM THE KERN RIVER WATERMASTER

Quantities in acre-feet
except where noted...

Year: 2002

	Total Storage in Reservoir	Total Water Surface Area (Acres)	Area Attributable to Rec. Pool (Acres)	Total Reservoir Loss	County of Kern	
					Ming Lake Net Inflow	Recreation Pool Loss
End of Previous Year	105,906	4,367	915			
January	107,487	4,411	905	541	16	113
February	107,619	4,415	905	928	16	188
March	111,282	4,518	890	1,261	44	254
April	139,376	5,259	795	2,146	60	369
May	170,657	5,996	705	3,634	77	492
June	173,732	6,064	700	5,581	105	621
July	132,192	5,077	820	5,597	127	760
August	101,221	4,232	935	4,647	121	883
September	89,073	3,869	990	3,338	91	795
October	82,299	3,658	1,025	2,081	65	553
November	134,541	5,137	810	1,488	42	278
December	138,222	5,230	795	813	26	133
			TOTALS	32,055	790	5,439

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

REPORT OF THE KERN RIVER WATERMASTER

SUMMARY OF KERN RIVER RUNOFF

Quantities in acre-feet

Year: 2002

CALENDAR YEAR

	FIRST POINT		ENTITLEMENT		
	REGULATED	NATURAL	NKWSD	BVWSD	HWD
JANUARY	25,339	27,533	27,533	0	0
To Date	25,339	27,533	27,533	0	0
FEBRUARY	19,898	21,072	21,072	0	0
	45,237	48,605	48,605	0	0
MARCH	26,465	31,603	27,424	4,179	0
	71,702	80,208	76,029	4,179	0
APRIL	28,300	58,838	45,801	13,037	0
	100,002	139,046	121,830	17,216	0
MAY	34,740	69,991	53,592	16,399	0
	134,742	209,037	175,422	33,615	0
JUNE	54,714	63,775	49,163	14,612	0
	189,456	272,812	224,585	48,227	0
JULY	58,163	22,703	21,033	1,670	0
	247,619	295,515	245,618	49,897	0
AUGUST	36,317	10,439	10,439	0	0
	283,936	305,954	256,057	49,897	0
SEPTEMBER	16,197	7,720	7,720	0	0
	300,133	313,674	263,777	49,897	0
OCTOBER	13,351	8,939	8,939	0	0
	313,484	322,613	272,716	49,897	0
NOVEMBER	20,063	73,894	62,269	11,625	0
	333,547	396,507	334,985	61,522	0
DECEMBER	23,613	28,189	28,189	0	0
Year	357,160	424,696	363,174	61,522	0

1894 to 2002 Mean April-July Runoff = 467,932 acre-feet (100% of Average)
2002 April-July Runoff = 215,307 acre-feet (46% of Average)

WATER YEAR

	FIRST POINT		ENTITLEMENT		
	REGULATED	NATURAL	NKWSD	BVWSD	HWD
OCTOBER	15,588	9,142	9,142	0	0
To Date	15,588	9,142	9,142	0	0
NOVEMBER	13,259	15,293	15,293	0	0
	28,847	24,435	24,435	0	0
DECEMBER	18,793	24,869	24,750	119	0
	47,640	49,304	49,185	119	0
JANUARY	25,339	27,533	27,533	0	0
	72,979	76,837	76,718	119	0
FEBRUARY	19,898	21,072	21,072	0	0
	92,877	97,909	97,790	119	0
MARCH	26,465	31,603	27,424	4,179	0
	119,342	129,512	125,214	4,298	0
APRIL	28,300	58,838	45,801	13,037	0
	147,642	188,350	171,015	17,335	0
MAY	34,740	69,991	53,592	16,399	0
	182,382	258,341	224,607	33,734	0
JUNE	54,714	63,775	49,163	14,612	0
	237,096	322,116	273,770	48,346	0
JULY	58,163	22,703	21,033	1,670	0
	295,259	344,819	294,803	50,016	0
AUGUST	36,317	10,439	10,439	0	0
	331,576	355,258	305,242	50,016	0
SEPTEMBER	16,197	7,720	7,720	0	0
Year	347,773	362,978	312,962	50,016	0

1894 to 2002 Mean March-October Runoff = 600,937 acre-feet (100% of Average)
2002 March-October Runoff = 273,744 acre-feet (46% of Average)

REPORT OF THE KERN RIVER WATERMASTER

RECAPITULATION 2002

QUANTITIES IN ACRE-FEET EXCEPT WHERE NOTED...

	ISABELLA RESERVOIR								NORTH KERN WATER STORAGE DISTRICT						BUENA VISTA WATER STORAGE DISTRICT								Kern	HACIENDA WATER DISTRICT					
										Flow		Reservoir			Entitlement		Flow			Reservoir			Entitlement		Flow		Reservoir	
	Elevation (feet)	Storage	Loss	Flow Above First Point	First Point Regulated Flow	Loss + Reservoir Change + 1st Point + Flow Above 1st Point	Computed 1st Point Natural Flow	Mean Reservoir Storage	Ent'l At First Point	Above First Point	At First Point	Storage	Loss	Transfer *or* Exchange *in* Storage	At 1st Point	At 2nd Point	Above 1st Point	At 1st Point	At 2nd Point	Storage	Loss	County Rec. Pool Loss	Contributed by: NKWSD	Contributed by: BVWSD	Above 1st Point	At 1st Point	Storage	Loss
Carry Over	2548.01	105906						105906				41823								33899							0	
JAN	2548.37	107487	541	72	25339	27533	27533	107487	27533	67	25135	43830	323	0	0	0	5	204	0	33473	218	113	0	0	0	0	0	0
FEB	2548.40	107619	928	114	19898	21072	21072	107619	21072	89	19029	45214	571	0	0	0	25	869	0	32221	357	188	0	0	0	0	0	0
MAR	2549.22	111282	1261	211	26465	31603	31603	111282	27424	164	25224	46475	773	0	0	4179	47	880	361	34623	488	254	0	0	0	0	0	0
APR	2554.97	139376	2146	298	28300	58838	58838	139376	45801	242	24474	66238	1321	0	0	13037	56	1680	2146	42954	825	369	0	0	0	0	0	0
MAY	2560.53	170657	3634	335	34740	69991	69991	170657	53592	335	30545	86648	2301	0	0	16399	0	2414	1781	53825	1333	492	0	0	0	0	0	0
JUN	2561.04	173732	5581	405	54714	63775	63775	173732	49163	405	44806	87132	3469	0	0	14612	0	8262	1646	56416	2112	621	0	0	0	0	0	0
JUL	2553.58	132192	5597	483	58163	22703	22703	132192	21033	483	43300	60891	3493	0	0	1670	0	9956	4907	41117	2104	760	0	0	0	0	0	0
AUG	2546.92	101221	4647	446	36317	10439	10439	101221	10439	446	28992	39736	2836	(1) 680	0	0	0	6584	741	31301	1811	883	0	0	0	0	0	0
SEP	2543.92	89073	3338	332	16197	7720	7720	89073	7720	332	13281	31834	2007	0	0	0	0	2916	0	27055	1331	795	0	0	0	0	0	0
OCT	2542.12	82299	2081	284	13351	8939	8939	82299	8939	284	10800	28452	1240	0	0	0	0	2551	0	23663	841	553	0	0	0	0	0	0
NOV	2554.04	134541	1488	102	20063	73894	73894	134541	62269	102	19110	70527	984	0	11625	0	0	953	0	33830	504	278	0	0	0	0	0	0
DEC	2554.75	138222	813	81	23613	28189	28189	138222	28189	81	23569	74511	563	(1) 10	0	0	0	44	0	33527	250	133	0	0	0	0	0	0
Total			32055	3163	357160	424696	424696		363174	3030	308265		19881	690	11625	49897	133	37313	11582		12174	5439	0	0	0	0		0

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

NOTES: (1) BVWSD to NKWSD

By: Mark Lambert Date: June 12, 2003

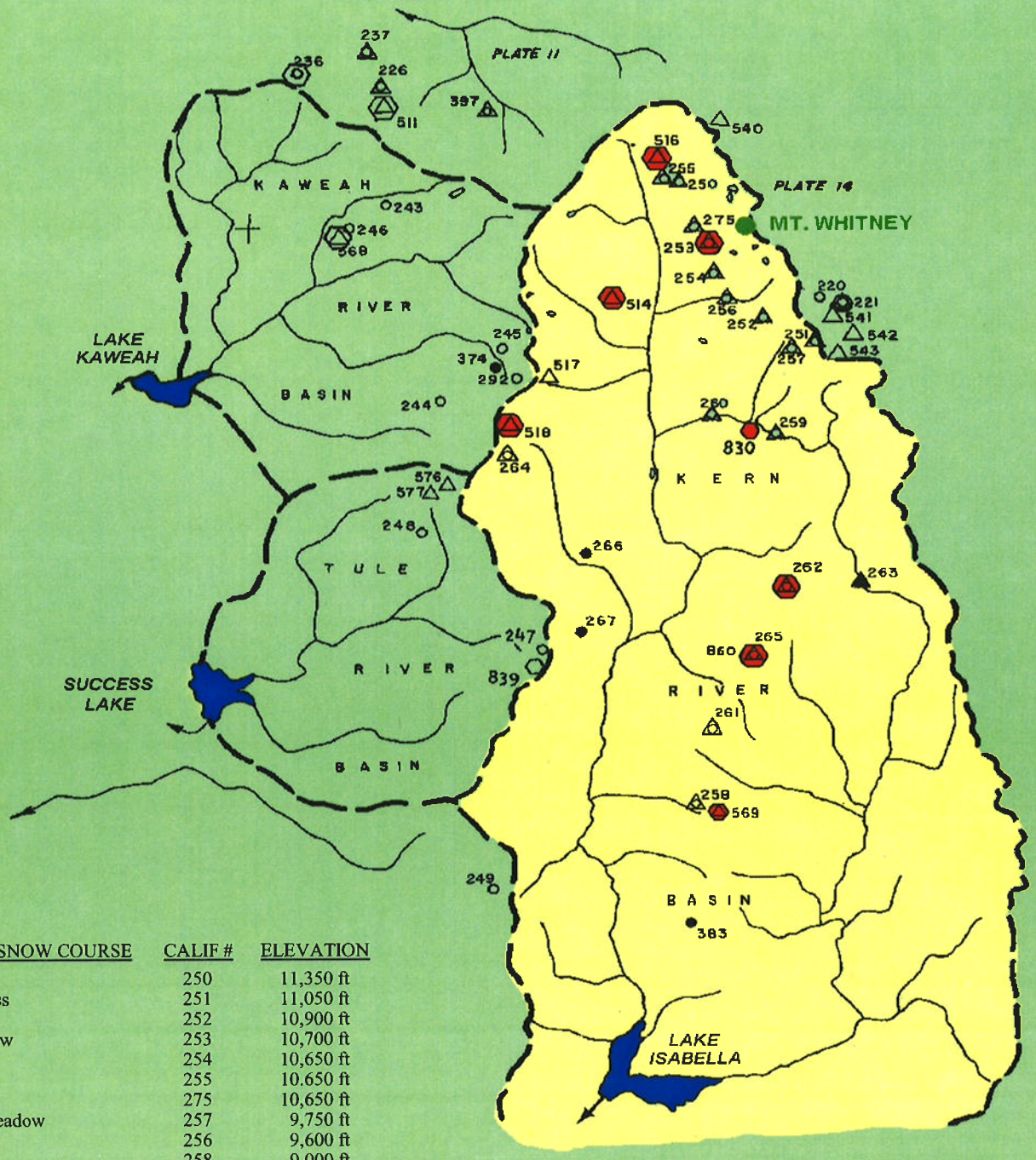
Isabella Dam & Reservoir

QUANTITIES IN ACRE-FEET — Midnight Storage Recapitulation — Year: 2002

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	106,607	107,531	107,752	111,779	139,849	172,583	172,522	130,725	100,882	88,802	82,299	134,695
2	106,959	107,531	107,752	112,461	140,271	174,157	171,378	129,419	100,461	88,532	82,262	134,747
3	107,222	107,663	107,752	113,236	140,748	175,375	170,358	128,172	99,957	88,302	82,226	134,798
4	107,398	107,708	107,752	114,061	141,224	176,476	169,162	126,883	99,495	88,148	82,189	134,901
5	107,487	107,708	107,663	114,982	141,702	177,580	167,794	125,701	99,162	88,032	82,116	134,953
6	107,575	107,752	107,708	116,003	142,234	178,936	166,611	124,478	98,787	87,917	82,043	134,953
7	107,663	107,796	107,973	116,935	142,982	180,484	165,374	123,215	98,495	87,687	82,153	135,056
8	107,796	107,885	108,282	117,966	143,839	181,791	164,026	122,201	98,247	87,382	98,537	135,159
9	107,840	107,840	108,371	118,861	144,538	182,667	162,626	121,432	97,957	87,039	118,625	135,159
10	107,840	107,796	108,460	119,952	145,347	183,104	161,177	120,857	97,709	86,658	124,429	135,262
11	107,796	107,708	108,504	121,001	146,161	183,292	159,851	120,142	97,380	86,356	127,477	135,314
12	107,796	107,708	108,504	122,442	146,812	183,481	158,532	119,288	97,009	86,091	128,820	135,262
13	107,796	107,708	108,593	124,138	147,357	183,607	157,446	118,343	96,640	85,864	129,670	135,159
14	107,752	107,663	108,682	125,898	148,286	183,858	155,858	117,169	96,313	85,564	130,624	135,159
15	107,708	107,663	108,727	127,924	149,274	184,173	153,886	115,956	95,945	85,263	131,230	135,211
16	107,663	107,575	108,771	129,569	150,598	184,047	151,985	114,798	95,416	84,963	131,736	135,778
17	107,575	107,575	108,950	130,977	152,264	183,607	150,376	113,831	94,808	84,701	132,192	136,555
18	107,619	107,663	109,083	131,887	154,223	183,292	148,999	112,916	94,284	84,515	132,548	136,815
19	107,531	107,619	109,128	132,701	156,140	183,355	147,521	111,825	93,721	84,329	132,905	136,867
20	107,575	107,663	109,173	133,363	157,960	183,481	146,161	110,695	93,121	84,105	133,261	137,178
21	107,531	107,619	109,261	134,080	159,391	182,979	144,592	109,529	92,563	83,920	133,516	137,282
22	107,531	107,575	109,261	134,644	160,599	182,667	142,928	108,238	92,048	83,698	133,721	137,282
23	107,531	107,487	109,439	135,159	161,467	181,979	141,489	107,002	91,613	83,476	133,926	137,334
24	107,442	107,398	109,753	135,624	162,045	180,857	140,113	106,081	91,219	83,254	134,131	137,334
25	107,398	107,442	109,977	136,036	162,685	179,739	138,850	105,122	90,826	83,070	134,285	137,438
26	107,354	107,398	110,067	136,711	163,383	178,688	137,595	104,127	90,473	82,922	134,285	137,491
27	107,487	107,531	110,246	137,543	164,377	177,580	136,555	103,309	90,044	82,812	134,285	137,647
28	107,487	107,619	110,380	138,273	165,550	176,292	135,572	102,624	89,693	82,629	134,285	137,699
29	107,487	-	110,560	138,850	167,025	175,010	134,541	102,112	89,383	82,482	134,337	138,013
30	107,442	-	110,830	139,376	168,686	173,732	133,465	101,644	89,073	82,372	134,541	138,065
31	107,487	-	111,282	-	170,657	-	132,192	101,221	-	82,299	-	138,222
MAXIMUM DAY	107,840	107,885	111,282	139,376	170,657	184,173	172,522	130,725	100,882	88,802	134,541	138,222
MINIMUM DAY	106,607	107,398	107,663	111,779	139,849	172,583	132,192	101,221	89,073	82,299	82,043	134,695

KERN RIVER BASIN

Drainage Basin Above Lake Isabella = 2,074 Square Miles



KERN RIVER SNOW COURSE	CALIF #	ELEVATION
Bighorn Plateau	250	11,350 ft
Cottonwood Pass	251	11,050 ft
Siberian Pass	252	10,900 ft
Crabtree Meadow	253	10,700 ft
Guyot Flat	254	10,650 ft
Tyndall Creek	255	10.650 ft
Sandy Meadow	275	10,650 ft
Big Whitney Meadow	257	9,750 ft
Rock Creek	256	9,600 ft
Round Meadow	258	9,000 ft
Ramshaw Meadow	259	8,700 ft
Little Whitney Meadow	260	8,500 ft
Quinn Ranger Station	264	8,350 ft
Bonita Meadows	261	8,300 ft
Casa Vieja Meadows	262	8,300 ft
Beach Meadows	265	7,650 ft
Dead Horse Meadow	249	7,300 ft

KERN RIVER SNOW SENSOR		
Upper Tyndall Creek	516	11,400 ft
Crabtree Meadow	253	10,700 ft
Chagoopa Plateau	514	10,300 ft
Pascoe	569	9,150 ft
Wet Meadow (W)	518	8,950 ft
Tunnel Guard Station (W)	830	8,900 ft
Casa Vieja Meadows (W)	262	8,300 ft
Beach Meadows	860	7,650 ft

N

0 10 20

Scale in Miles

STATE OF CALIFORNIA
THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF FLOOD MANAGEMENT
CALIFORNIA COOPERATIVE SNOW SURVEYS

LEGEND

- SNOW COURSE
- AERIAL SNOW DEPTH MARKER
- SNOW SENSOR
- RIVER BASIN

REPORT OF THE KERN RIVER WATERMASTER

JANUARY 2002

Quantities in S.F.D. except where noted

	ISABELLA RESERVOIR						CHANGE IN STORAGE+LOSS	COMPUTED	MEAN STORAGE		KERN	TOTAL	SECOND POINT GROUP FLOW			
	ELEVATION	MIDNIGHT STORAGE			FIRST POINT	FLOW	+1ST POINT	1ST POINT	Recreation Pool + Dead Storage		COUNTY	FLOW AT	AT 2ND POINT		FRIANT-	
					REGULATED	ABOVE	+FLOW ABOVE	NATURAL	= 15,218 S.F.D. (30,184 ACFT)		RECREATION	SECOND	KERN	FRIANT-	KERN	
DAY	(FEET)	ACRE-FEET	S.F.D.	LOSS	F LOW	1ST PT.	1ST POINT	FLOW	TOTAL	IRRIGATION	POOL LOSS	POINT	RIVER	KERN	INFLOW	DAY
Previous Day	2548.01	105,906	53,394	2	471	1	1,087	1,087	53,394	38,176	0	0	0	0	0	
1	2548.17	106,607	53,748	6	473	1	834	834	53,748	38,530	1	0	0	0	0	1
2	2548.25	106,959	53,925	5	500	1	683	691	53,933	38,715	1	0	0	0	0	2
3	2548.31	107,222	54,058	5	567	1	706	678	54,038	38,820	1	0	0	0	0	3
4	2548.35	107,398	54,147	9	546	1	645	636	54,118	38,900	2	0	0	0	0	4
5	2548.37	107,487	54,191	8	505	1	558	575	54,179	38,961	2	0	0	0	0	5
6	2548.39	107,575	54,236	9	468	1	523	535	54,236	39,018	2	0	0	0	0	6
7	2548.41	107,663	54,280	9	470	1	524	529	54,285	39,067	2	0	0	0	0	7
8	2548.44	107,796	54,347	5	467	1	540	521	54,333	39,115	1	0	0	0	0	8
9	2548.45	107,840	54,369	11	464	1	498	503	54,360	39,142	2	0	0	0	0	9
10	2548.45	107,840	54,369	8	461	1	470	470	54,360	39,142	2	0	0	0	0	10
11	2548.44	107,796	54,347	9	454	1	442	458	54,354	39,136	2	0	0	0	0	11
12	2548.44	107,796	54,347	14	446	1	461	449	54,342	39,124	3	0	0	0	0	12
13	2548.44	107,796	54,347	9	433	1	443	446	54,345	39,127	2	0	0	0	0	13
14	2548.43	107,752	54,325	24	431	1	434	428	54,317	39,099	5	0	0	0	0	14
15	2548.42	107,708	54,303	5	423	1	407	414	54,302	39,084	1	0	0	0	0	15
16	2548.41	107,663	54,280	6	415	2	400	384	54,263	39,045	1	0	0	0	0	16
17	2548.39	107,575	54,236	11	377	2	346	373	54,246	39,028	2	0	0	0	0	17
18	2548.40	107,619	54,258	6	345	1	374	345	54,239	39,021	1	0	0	0	0	18
19	2548.38	107,531	54,214	18	340	1	315	356	54,236	39,018	4	0	0	0	0	19
20	2548.39	107,575	54,236	6	351	1	380	353	54,231	39,013	1	0	0	0	0	20
21	2548.38	107,531	54,214	17	368	1	364	368	54,213	38,995	3	0	0	0	0	21
22	2548.38	107,531	54,214	15	345	1	361	363	54,215	38,997	3	0	0	0	0	22
23	2548.38	107,531	54,214	9	353	2	364	347	54,198	38,980	2	0	0	0	0	23
24	2548.36	107,442	54,169	9	350	1	315	338	54,176	38,958	2	0	0	0	0	24
25	2548.35	107,398	54,147	9	346	2	335	330	54,149	38,931	2	0	0	0	0	25
26	2548.34	107,354	54,124	18	343	1	339	371	54,158	38,940	4	0	0	0	0	26
27	2548.37	107,487	54,191	3	369	1	440	380	54,165	38,947	1	0	0	0	0	27
28	2548.37	107,487	54,191	2	359	1	362	387	54,190	38,972	0	0	0	0	0	28
29	2548.37	107,487	54,191	2	356	1	359	346	54,177	38,959	0	0	0	0	0	29
30	2548.36	107,442	54,169	3	334	1	316	330	54,169	38,951	1	0	0	0	0	30
31	2548.37	107,487	54,191	3	316	2	343	343	54,191	38,973	1	0	0	0	0	31
TOTAL SECOND FOOT DAYS				273	12,775	36	13,881	13,881	54,191	38,973	57	0	0	0	0	
TOTAL ACRE-FEET				541	25,339	72	27,533	27,533	107,487	77,303	113	0	0	0	0	

By: _____ Date: February 21, 2002

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	1,087	471	1	1	21,085
1	834	473	1	4	21,441
2	691	500	1	3	21,628
3	678	567	1	3	21,735
4	636	546	1	5	21,819
5	575	505	1	5	21,883
6	535	468	1	5	21,944
7	529	470	1	5	21,997
8	521	467	1	3	22,047
9	503	464	1	7	22,078
10	470	461	1	5	22,081
11	458	454	1	5	22,079
12	449	446	1	8	22,073
13	446	433	1	5	22,080
14	428	431	1	14	22,062
15	414	423	1	3	22,049
16	384	415	2	4	22,012
17	373	377	1	7	22,000
18	345	345	1	4	21,995
19	356	340	1	11	21,999
20	353	351	1	4	21,996
21	368	368	1	10	21,985
22	363	345	1	9	21,993
23	347	353	2	5	21,980
24	338	350	1	5	21,962
25	330	346	1	5	21,940
26	371	326	1	11	21,973
27	380	354	1	2	21,996
28	387	342	1	1	22,039
29	346	338	1	1	22,045
30	330	315	1	2	22,057
31	343	299	2	2	22,097
S.F.D.	13,881	12,672	34	163	22,097
AC.FT.	27,533	25,135	67	323	43,830

TOTAL ACRE-FOOT STORAGE DAYS 1,350,872

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW VIA KDWD	FLOW VIA CWD	FLOW AT 2ND POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	0	0	0	1	17,091
1	0	0	0	0	0	2	17,089
2	0	0	0	0	0	2	17,087
3	0	0	0	0	0	2	17,085
4	0	0	0	0	0	4	17,081
5	0	0	0	0	0	3	17,078
6	0	0	0	0	0	4	17,074
7	0	0	0	0	0	4	17,070
8	0	0	0	0	0	2	17,068
9	0	0	0	0	0	4	17,064
10	0	0	0	0	0	3	17,061
11	0	0	0	0	0	4	17,057
12	0	0	0	0	0	6	17,051
13	0	0	0	0	0	4	17,047
14	0	0	0	0	0	10	17,037
15	0	0	0	0	0	2	17,035
16	0	0	0	0	0	2	17,033
17	0	0	0	0	1	4	17,028
18	0	0	0	0	0	2	17,026
19	0	0	0	0	0	7	17,019
20	0	0	0	0	0	2	17,017
21	0	0	0	0	0	7	17,010
22	0	0	0	0	0	6	17,004
23	0	0	0	0	0	4	17,000
24	0	0	0	0	0	4	16,996
25	0	0	0	0	1	4	16,991
26	0	0	17	0	0	7	16,967
27	0	0	15	0	0	1	16,951
28	0	0	17	0	0	1	16,933
29	0	0	18	0	0	1	16,914
30	0	0	19	0	0	1	16,894
31	0	0	17	0	0	1	16,876
S.F.D.	0	0	103	0	2	110	16,876
AC.FT.	0	0	204	0	5	218	33,473

TOTAL ACRE-FOOT STORAGE DAYS 1,046,564

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed by: NKWSD	ENTITLEMENT Contributed by: BVWSD	FLOW	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day				0	0	0
1				0	0	0
2				0	0	0
3				0	0	0
4				0	0	0
5				0	0	0
6				0	0	0
7				0	0	0
8				0	0	0
9				0	0	0
10				0	0	0
11				0	0	0
12				0	0	0
13				0	0	0
14				0	0	0
15				0	0	0
16				0	0	0
17				0	0	0
18				0	0	0
19				0	0	0
20				0	0	0
21				0	0	0
22				0	0	0
23				0	0	0
24				0	0	0
25				0	0	0
26				0	0	0
27				0	0	0
28				0	0	0
29				0	0	0
30				0	0	0
31				0	0	0
S.F.D.				0	0	0
AC.FT.				0	0	0

TOTAL ACRE-FOOT STORAGE DAYS 0

WATERMASTER NOTES *** KERN RIVER BULLETIN

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

SNOW SURVEY DATA FOR KERN RIVER BASIN

Date: February 1, 2002

SNOW COURSE	SNOW SENSOR	CALIF. NUMBER	ELEV. IN FEET	APRIL 1ST AVERAGE WATER CONTENT	DATE MEASURED	SNOW DEPTH IN INCHES	DENSITY (%)	WATER CONTENT IN INCHES	% OF APRIL 1ST AVERAGE	MEASURED BY
	Upper Tyndall Creek	516	11,400	27.7						
Bighorn Plateau		250	11,350	23.7	1-28	53.3	30%	16.1	68%	DWR
Cottonwood Pass		251	11,050	14.8	1-24	27.3	30%	8.1	55%	DWR
Siberian Pass		252	10,900	20.0	1-26	37.4	33%	12.4	62%	DWR
Crabtree Meadow		253	10,700	19.6	1-27	45.2	28%	12.7	65%	DWR
	Crabtree Meadow	253	10,700	19.8						
Guyot Flat		254	10,650	20.8	1-27	42.9	28%	12.1	58%	DWR
Tyndall Creek		255	10,650	18.8	1-28	48.5	26%	12.6	67%	DWR
Sandy Meadows		275	10,650	19.2	1-28	50.2	28%	14.0	73%	DWR
	Chagoopa Plateau	514	10,300	21.8						
Big Whitney Meadow		257	9,750	17.2	1-25	32.2	30%	9.7	56%	DWR
Rock Creek		256	9,600	17.8	1-26	39.4	30%	12.0	67%	DWR
	Pascoe	569	9,150	24.9	1-31	65.0	39%	25.3	102%	USFS
Round Meadow		258	9,000	24.1						
	Wet Meadow	518	8,950	30.3						
	Tunnel Guard	830	8,900	15.6	1-25	25.8	29%	7.6	49%	DWR
Ramshaw Meadows		259	8,700	11.5	1-25	21.9	27%	6.0	52%	DWR
Little Whitney Meadow		260	8,500	12.9	1-24	30.1	31%	9.2	71%	DWR
Quinn Ranger Station		264	8,350	18.9						
Bonita Meadows		261	8,300	13.6	2-01	37.9	47%	17.7	130%	USFS
Casa Vieja Meadows		262	8,300	19.8	2-01	49.7	38%	18.8	95%	USFS
	Casa Vieja Meadows	262	8,300	20.9	2-01	47.0	36%	17.1	82%	USFS
Beach Meadows		265	7,650	8.9						
	Beach Meadows	860	7,650	11.0						
Dead Horse Meadow		249	7,300	11.3						

CALIFORNIA COOPERATIVE SNOW SURVEYS FORECAST as of FEBRUARY 1, 2002 for KERN RIVER INFLOW TO ISABELLA RESERVOIR...
April-July = 340,000 acre-feet (72% of Average) *** Water Year = 530,000 acre-feet (72% of Average)
80 Percent Probability Range (Actual runoff should fall within the stated limits eight times out of ten)...
April-July = 160,000 AcFt (34% of Average) to 700,000 AcFt (149% of Average) *** Water Year = 280,000 AcFt (38% of Average) to 1,070,000 AcFt (144% of Average)

REPORT OF THE KERN RIVER WATERMASTER

FEBRUARY 2002

Quantities in S.F.D. except where noted

	ISABELLA RESERVOIR						CHANGE IN STORAGE+LOSS	COMPUTED	MEAN STORAGE				SECOND POINT GROUP FLOW			
	ELEVATION	MIDNIGHT STORAGE			FIRST POINT REGULATED	FLOW ABOVE	+1ST POINT +FLOW ABOVE	1ST POINT NATURAL	Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)		KERN COUNTY RECREATION	TOTAL FLOW AT SECOND	AT 2ND POINT KERN	AT 2ND POINT FRIANT-	FRIANT- KERN	
DAY	(FEET)	ACRE-FEET	S.F.D.	LOSS	F LOW	1ST PT.	1ST POINT	FLOW	TOTAL	IRRIGATION	POOL LOSS	POINT	RIVER	KERN	INFLOW	DAY
Previous Day	2548.37	107,487	54,191	3	316	2	343	343	54,191	38,973	1	0	0	0	0	
1	2548.38	107,531	54,214	10	307	1	341	336	54,209	38,991	2	0	0	0	0	1
2	2548.38	107,531	54,214	10	314	2	326	326	54,209	38,991	2	0	0	0	0	2
3	2548.41	107,663	54,280	10	235	1	312	318	54,281	39,063	2	0	0	0	0	3
4	2548.42	107,708	54,303	10	280	2	315	308	54,297	39,079	2	0	0	0	0	4
5	2548.42	107,708	54,303	14	280	2	296	316	54,317	39,099	3	0	0	0	0	5
6	2548.43	107,752	54,325	17	296	2	337	316	54,318	39,100	3	0	0	0	0	6
7	2548.44	107,796	54,347	7	284	2	315	339	54,364	39,146	1	0	0	0	0	7
8	2548.46	107,885	54,392	22	296	2	365	358	54,402	39,184	5	0	0	0	0	8
9	2548.45	107,840	54,369	31	384	2	394	378	54,363	39,145	6	0	0	0	0	9
10	2548.44	107,796	54,347	31	365	2	376	366	54,331	39,113	6	0	0	0	0	10
11	2548.42	107,708	54,303	19	351	2	328	353	54,312	39,094	4	0	0	0	0	11
12	2548.42	107,708	54,303	13	340	2	355	350	54,307	39,089	3	0	0	0	0	12
13	2548.42	107,708	54,303	14	352	2	368	366	54,305	39,087	3	0	0	0	0	13
14	2548.41	107,663	54,280	16	379	2	374	376	54,284	39,066	3	0	0	0	0	14
15	2548.41	107,663	54,280	12	373	2	387	372	54,269	39,051	2	0	0	0	0	15
16	2548.39	107,575	54,236	12	385	2	355	380	54,250	39,032	2	0	0	0	0	16
17	2548.39	107,575	54,236	2	392	3	397	395	54,248	39,030	0	0	0	0	0	17
18	2548.41	107,663	54,280	8	380	2	434	400	54,258	39,040	2	0	0	0	0	18
19	2548.40	107,619	54,258	15	375	2	370	407	54,273	39,055	3	0	0	0	0	19
20	2548.41	107,663	54,280	16	377	2	417	391	54,269	39,051	3	0	0	0	0	20
21	2548.40	107,619	54,258	22	383	2	385	408	54,270	39,052	5	0	0	0	0	21
22	2548.39	107,575	54,236	19	423	2	422	400	54,226	39,008	4	0	0	0	0	22
23	2548.37	107,487	54,191	26	409	3	393	402	54,190	38,972	5	0	0	0	0	23
24	2548.35	107,398	54,147	19	415	2	392	416	54,170	38,952	4	0	0	0	0	24
25	2548.36	107,442	54,169	17	422	2	463	426	54,155	38,937	4	0	0	0	0	25
26	2548.35	107,398	54,147	22	420	3	423	465	54,175	38,957	5	0	0	0	0	26
27	2548.38	107,531	54,214	26	413	2	508	480	54,214	38,996	5	0	0	0	0	27
28	2548.40	107,619	54,258	28	402	2	476	476	54,258	39,040	6	0	0	0	0	28
TOTAL SECOND FOOT DAYS				468	10,032	57	10,624	10,624	54,258	39,040	95	0	0	0	0	
TOTAL ACRE-FEET				928	19,898	114	21,072	21,072	107,619	77,435	188	0	0	0	0	

By: _____ Date: March 14, 2002

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	343	299	2	2	22,097
1	336	289	1	6	22,137
2	326	314	1	6	22,142
3	318	235	1	6	22,218
4	308	277	2	6	22,241
5	316	277	2	9	22,269
6	316	293	1	10	22,281
7	339	284	2	4	22,330
8	358	296	2	13	22,377
9	378	384	2	19	22,350
10	366	361	1	19	22,335
11	353	349	2	12	22,325
12	350	340	1	8	22,326
13	366	349	1	9	22,333
14	376	376	2	10	22,321
15	372	366	2	7	22,318
16	380	373	1	7	22,317
17	395	378	2	1	22,331
18	400	323	2	5	22,401
19	407	326	1	9	22,472
20	391	325	2	10	22,526
21	408	328	1	14	22,591
22	400	373	1	12	22,605
23	402	390	3	16	22,598
24	416	399	2	12	22,601
25	426	412	1	11	22,603
26	465	410	3	14	22,641
27	480	391	1	16	22,713
28	476	376	1	17	22,795
S.F.D.	10,624	9,594	44	288	22,795
AC.FT.	21,072	19,029	89	571	45,214

TOTAL ACRE-FOOT STORAGE DAYS 1,244,622

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW VIA KDWD	FLOW VIA CWD	FLOW AT 2ND POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	0	17	0	0	1	16,876
1	0	0	18	0	0	4	16,854
2	0	0	0	0	1	4	16,849
3	0	0	0	0	0	4	16,845
4	0	0	3	0	0	4	16,838
5	0	0	3	0	0	5	16,830
6	0	0	3	0	1	7	16,819
7	0	0	0	0	0	3	16,816
8	0	0	0	0	0	9	16,807
9	0	0	0	0	0	12	16,795
10	0	4	0	0	1	12	16,778
11	0	2	0	0	0	7	16,769
12	0	0	0	0	1	5	16,763
13	0	0	3	0	1	5	16,754
14	0	0	3	0	0	6	16,745
15	0	4	3	0	0	5	16,733
16	0	12	0	0	1	5	16,715
17	0	14	0	0	1	1	16,699
18	0	11	46	0	0	3	16,639
19	0	10	39	0	1	6	16,583
20	0	12	40	0	0	6	16,525
21	0	18	37	0	1	8	16,461
22	0	12	38	0	1	7	16,403
23	0	16	3	0	0	10	16,374
24	0	13	3	0	0	7	16,351
25	0	7	3	0	1	6	16,334
26	0	7	3	0	0	8	16,316
27	0	20	2	0	1	10	16,283
28	0	20	6	0	1	11	16,245
S.F.D.	0	182	256	0	13	180	16,245
AC.FT.	0	361	508	0	25	357	32,221

TOTAL ACRE-FOOT STORAGE DAYS 924,144

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed By: NKWSD	ENTITLEMENT Contributed By: BVWSD	FLOW	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day					0	0
1					0	0
2					0	0
3					0	0
4					0	0
5					0	0
6					0	0
7					0	0
8					0	0
9					0	0
10					0	0
11					0	0
12					0	0
13					0	0
14					0	0
15					0	0
16					0	0
17					0	0
18					0	0
19					0	0
20					0	0
21					0	0
22					0	0
23					0	0
24					0	0
25					0	0
26					0	0
27					0	0
28					0	0
S.F.D.					0	0
AC.FT.					0	0

TOTAL ACRE-FOOT STORAGE DAYS 0

*WATERMASTER NOTES *** KERN RIVER BULLETIN*

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

ISABELLA DAM & RESERVOIR
PRECIPITATION DATA
Maximum Daily Accumulation in Inches
October 1949 thru December 2001

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Jan	0.71	0.63	1.10	2.21	1.10	1.39	0.61	0.74	1.39	1.50	1.45	1.46	0.85	1.10	1.05	2.40	1.19	0.68	1.52	1.34	1.08	0.80	1.63	1.02	2.15	1.95	1.15	0.45	0.86	1.45	0.56
Year	1982	1997	1977	1995	1982	1993	1993	1953	1973	2001	1980	1980	1980	1953	1978	1996	1978	1952	1969	1969	1982	1969	1983	1969	1969	1956	1956	1981	1980	1981	1963
Feb	3.40	0.53	1.07	0.48	0.89	2.04	1.35	1.43	2.02	2.24	0.96	1.58	1.21	2.05	1.89	0.69	1.31	0.65	2.13	1.10	1.05	0.73	1.71	1.13	1.65	0.98	0.44	0.82	0.27		
Year	1960	1963	1989	1989	1975	1950	1962	1960	1978	1978	1973	1986	1987	1998	1954	1969	1980	1993	1996	1980	1998	1979	1998	1969	1969	1983	1983	1991	1988		
Mar	1.50	1.30	0.75	1.72	0.70	0.58	0.58	1.29	0.66	1.19	0.69	0.95	0.51	0.56	0.61	0.64	1.05	0.58	0.34	0.93	0.54	0.73	0.80	1.02	0.87	1.13	0.46	0.90	0.39	0.57	0.57
Year	1991	1989	1980	1991	1970	1994	1952	1986	1986	1995	1995	1996	1983	1987	1958	1958	1952	1983	1982	1981	1958	1958	1964	1983	1950	1985	1981	1963	1979	1982	1978
Apr	0.38	1.45	0.72	0.99	0.49	0.43	0.57	0.43	0.30	0.62	0.67	0.60	0.65	0.32	0.35	0.68	0.51	0.54	0.55	0.57	0.35	0.49	0.14	0.33	0.45	0.30	0.56	0.87	0.50	0.88	
Year	1956	1974	1958	1958	1964	1969	2001	1999	1965	1965	1999	1982	1956	1988	1963	1976	2000	1971	1988	2001	1963	1955	1990	1960	1994	1960	1960	1953	1980	1951	
May	0.44	0.11	0.12	0.36	0.25	0.33	0.15	0.33	0.62	0.41	0.19	0.48	0.23	0.09	0.15	0.02	0.06	0.04	0.75	0.09	0.25	0.05	0.16	0.07	0.10	0.75	0.41	0.14	0.10	0.00	0.00
Year	1955	1980	1998	1998	1998	1988	1998	1955	1977	1956	1987	1998	1995	1973	1973	2000	1991	1994	1957	1981	1957	1999	1999	1980	1964	1999	1971	1988	1953	2001	2001
Jun	0.21	0.00	0.00	0.37	0.25	0.02	0.41	0.50	0.39	0.09	0.28	0.24	0.20	0.00	0.39	0.04	0.30	0.01	0.04	0.03	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.04	
Year	1967	2001	2001	1993	1993	1993	1987	1972	1977	1998	1963	1963	1963	2001	1995	1969	1969	1988	1988	1967	2001	2001	2001	1965	2001	2001	2001	2001	2001	1982	
Jul	0.00	0.00	0.00	0.02	0.21	0.21	0.00	0.00	0.01	0.23	0.00	0.00	0.45	0.03	0.42	0.88	0.29	0.05	0.00	0.06	0.10	0.30	0.28	0.00	0.12	0.78	0.25	0.03	0.02	0.23	0.31
Year	2001	2001	2001	1961	2001	2001	2001	2001	1968	1950	2001	2001	1984	1984	1984	1984	1967	1971	2001	1988	1988	1988	1986	2001	1956	1974	1969	1976	1970	1984	1965
Aug	0.00	0.80	0.00	0.00	0.00	0.06	0.14	1.01	0.00	0.35	0.20	0.48	0.05	0.02	0.51	0.09	0.25	0.62	0.41	0.20	0.24	0.11	0.16	0.54	0.13	0.08	0.01	0.10	0.24	0.00	0.01
Year	2001	1966	2001	2001	2001	1961	1963	1963	2001	1961	1961	1965	1953	1953	1984	1983	1977	1977	1983	1995	1995	1984	1961	1971	1967	1967	1970	1972	1972	2001	1964
Sep	0.62	0.18	0.03	0.37	0.07	1.25	0.15	0.29	0.06	0.15	1.18	0.25	0.09	0.00	0.00	0.53	0.08	0.20	0.86	0.03	0.17	0.34	0.04	0.20	0.55	0.27	0.00	0.10	0.98	3.09	
Year	1967	1997	1960	1997	1978	1978	1958	1975	1975	1975	1975	1959	1959	2001	2001	1989	1975	1965	1967	1990	1990	1999	1987	1986	1979	1982	2001	1982	1976	1976	
Oct	0.45	0.42	0.23	0.15	0.30	0.12	0.15	0.69	0.22	0.32	0.22	0.01	0.02	0.27	0.22	0.82	0.96	0.01	0.25	0.73	0.15	0.04	0.21	0.14	0.35	0.53	0.22	0.29	0.84	0.57	0.36
Year	1983	1981	1974	1972	1994	1960	1956	1974	1986	2000	1997	1975	1975	1968	1963	1963	1963	1969	1972	1979	1987	1987	1976	1996	1951	1991	1982	1974	1974	2001	1982
Nov	0.02	0.10	0.39	0.45	0.18	0.52	0.30	0.25	0.50	0.70	0.77	0.90	0.32	1.05	1.14	0.61	1.27	0.63	0.46	2.85	1.17	0.65	0.46	1.51	1.00	1.48	0.51	0.52	0.80	1.72	
Year	1987	1983	1987	1972	1960	1969	1966	1984	1964	1998	1972	2001	1965	1955	1968	1965	1991	1973	1963	1950	1996	1965	1965	2001	1961	1970	1984	1985	1985	1982	
Dec	1.54	1.92	0.26	2.62	5.20	2.53	0.79	0.40	1.02	1.57	0.72	0.99	0.61	0.56	0.73	0.65	0.77	0.57	0.73	0.71	0.60	1.47	0.52	1.15	1.14	1.68	0.77	1.72	0.90	0.92	1.56
Year	1982	1955	1951	1966	1966	1966	1955	1949	1952	1996	1993	1951	1971	1993	1984	1977	1977	1977	1949	1988	1970	1982	1955	1988	1983	1964	1964	1977	1965	1965	1951

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Quantities in S.F.D. except where noted

	ISABELLA RESERVOIR						CHANGE IN STORAGE+LOSS	COMPUTED	MEAN STORAGE		KERN	TOTAL	SECOND POINT GROUP FLOW AT 2ND POINT			
	ELEVATION	MIDNIGHT STORAGE			FIRST POINT REGULATED	FLOW ABOVE	+1ST POINT +FLOW ABOVE	1ST POINT NATURAL	Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)		COUNTY RECREATION	FLOW AT SECOND	KERN	FRIANT-	FRIANT-KERN	
DAY	(FEET)	ACRE-FEET	S.F.D.	LOSS	F LOW	1ST PT.	1ST POINT	FLOW	TOTAL	IRRIGATION	POOL LOSS	POINT	RIVER	KERN	INFLOW	DAY
Previous Day	2548.40	107,619	54,258	28	402	2	476	476	54,258	39,040	6	0	0	0	0	
1	2548.43	107,752	54,325	27	413	3	510	496	54,311	39,093	6	20	20	0	0	1
2	2548.43	107,752	54,325	25	441	3	469	480	54,322	39,104	5	27	27	0	0	2
3	2548.43	107,752	54,325	21	437	3	461	461	54,322	39,104	4	31	31	0	0	3
4	2548.43	107,752	54,325	21	430	3	454	443	54,311	39,093	4	32	32	0	0	4
5	2548.41	107,663	54,280	31	425	3	414	448	54,300	39,082	6	19	19	0	0	5
6	2548.42	107,708	54,303	26	424	3	476	486	54,333	39,115	5	10	10	0	0	6
7	2548.48	107,973	54,436	2	429	3	567	544	54,443	39,225	0	0	0	0	0	7
8	2548.55	108,282	54,592	9	423	3	591	551	54,559	39,341	2	0	0	0	0	8
9	2548.57	108,371	54,637	19	428	3	495	531	54,640	39,422	4	0	0	0	0	9
10	2548.59	108,460	54,682	28	430	3	506	490	54,669	39,451	6	0	0	0	0	10
11	2548.60	108,504	54,704	16	428	3	469	480	54,702	39,484	3	0	0	0	0	11
12	2548.60	108,504	54,704	25	436	3	464	483	54,721	39,503	5	0	0	0	0	12
13	2548.62	108,593	54,749	36	431	3	515	491	54,742	39,524	7	0	0	0	0	13
14	2548.64	108,682	54,794	14	434	3	496	499	54,790	39,572	3	0	0	0	0	14
15	2548.65	108,727	54,817	29	430	3	485	480	54,808	39,590	6	0	0	0	0	15
16	2548.66	108,771	54,839	1	432	3	458	493	54,865	39,647	0	0	0	0	0	16
17	2548.70	108,950	54,929	1	441	3	535	503	54,923	39,705	0	0	0	0	0	17
18	2548.73	109,083	54,996	10	434	4	515	507	54,982	39,764	2	0	0	0	0	18
19	2548.74	109,128	55,019	18	428	4	473	486	55,018	39,800	4	0	0	0	0	19
20	2548.75	109,173	55,041	16	428	4	470	482	55,052	39,834	3	0	0	0	0	20
21	2548.77	109,261	55,086	20	433	4	502	479	55,074	39,856	4	0	0	0	0	21
22	2548.77	109,261	55,086	31	429	4	464	504	55,114	39,896	6	0	0	0	0	22
23	2548.81	109,439	55,176	19	432	4	545	540	55,199	39,981	4	0	0	0	0	23
24	2548.88	109,753	55,334	2	448	4	612	575	55,320	40,102	0	0	0	0	0	24
25	2548.93	109,977	55,447	12	438	4	567	562	55,428	40,210	2	0	0	0	0	25
26	2548.95	110,067	55,492	25	433	4	507	544	55,510	40,292	5	0	0	0	0	26
27	2548.99	110,246	55,582	25	440	4	559	532	55,573	40,355	5	0	0	0	0	27
28	2549.02	110,380	55,650	28	430	4	530	546	55,657	40,439	6	0	0	0	0	28
29	2549.06	110,560	55,741	33	422	4	550	558	55,756	40,538	7	0	0	0	0	29
30	2549.12	110,830	55,877	33	421	4	594	579	55,877	40,659	7	19	19	0	0	30
31	2549.22	111,282	56,105	33	415	4	680	680	56,105	40,887	7	24	24	0	0	31
TOTAL SECOND FOOT DAYS				636	13,343	107	15,933	15,933	56,105	40,887	128	182	182	0	0	
TOTAL ACRE-FEET				1,261	26,465	211	31,603	31,603	111,282	81,098	254	361	361	0	0	

By: _____ Date: April 19, 2002

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	ENT'L AT 2ND POINT	FLOW VIA KDWD	FLOW VIA CWD	FLOW AT 2ND POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	DAY
Previous Day	476	376	1	17	22,795	0	20	6	0	1	11	16,245	
1	434	377	2	17	22,833	62	16	0	20	1	10	16,260	1
2	423	395	3	15	22,843	57	19	0	27	0	10	16,261	2
3	410	386	2	13	22,852	51	20	0	31	1	8	16,252	3
4	398	387	3	13	22,847	45	11	0	32	0	8	16,246	4
5	401	398	2	19	22,829	47	8	0	19	1	12	16,253	5
6	427	412	3	16	22,825	59	2	0	10	0	10	16,290	6
7	466	417	2	1	22,871	78	12	0	0	1	1	16,354	7
8	471	390	2	6	22,944	80	33	0	0	1	3	16,397	8
9	458	396	2	12	22,992	73	32	0	0	1	7	16,430	9
10	430	397	3	17	23,005	60	33	0	0	0	11	16,446	10
11	423	395	2	10	23,021	57	33	0	0	1	6	16,463	11
12	425	387	3	15	23,041	58	49	0	0	0	10	16,462	12
13	430	386	2	22	23,061	61	45	0	0	1	14	16,463	13
14	436	392	3	9	23,093	63	42	0	0	0	5	16,479	14
15	423	426	2	18	23,070	57	4	0	0	1	11	16,520	15
16	432	430	3	1	23,068	61	2	0	0	0	0	16,579	16
17	438	439	2	1	23,064	65	2	0	0	1	0	16,641	17
18	441	430	3	6	23,066	66	4	0	0	1	4	16,698	18
19	427	421	3	11	23,058	59	7	0	0	1	7	16,742	19
20	424	414	3	10	23,055	58	14	0	0	1	6	16,779	20
21	422	418	3	12	23,044	57	15	0	0	1	8	16,812	21
22	439	426	3	19	23,035	65	3	0	0	1	12	16,861	22
23	464	431	3	12	23,053	76	1	0	0	1	7	16,928	23
24	488	447	3	1	23,090	87	1	0	0	1	1	17,012	24
25	479	437	3	7	23,122	83	1	0	0	1	5	17,088	25
26	466	432	3	15	23,138	78	1	0	0	1	10	17,154	26
27	458	431	3	15	23,147	74	9	0	0	1	10	17,208	27
28	468	419	3	17	23,176	78	11	0	0	1	11	17,263	28
29	476	414	3	20	23,215	82	8	0	0	1	13	17,323	29
30	490	398	3	20	23,284	89	4	0	19	1	13	17,375	30
31	559	389	3	20	23,431	121	2	0	24	1	13	17,456	31
S.F.D.	13,826	12,717	83	390	23,431	2,107	444	0	182	24	246	17,456	S.F.D.
AC.FT.	27,424	25,224	164	773	46,475	4,179	880	0	361	47	488	34,623	AC.FT.

TOTAL ACRE-FOOT STORAGE DAYS 1,416,541

BUENA VISTA WATER STORAGE DISTRICT

ENTITLEMENT Contributed by: NKWSD	ENTITLEMENT Contributed by: BVWSD	FLOW	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	DAY
			0	0	0	
			0	0	0	1
			0	0	0	2
			0	0	0	3
			0	0	0	4
			0	0	0	5
			0	0	0	6
			0	0	0	7
			0	0	0	8
			0	0	0	9
			0	0	0	10
			0	0	0	11
			0	0	0	12
			0	0	0	13
			0	0	0	14
			0	0	0	15
			0	0	0	16
			0	0	0	17
			0	0	0	18
			0	0	0	19
			0	0	0	20
			0	0	0	21
			0	0	0	22
			0	0	0	23
			0	0	0	24
			0	0	0	25
			0	0	0	26
			0	0	0	27
			0	0	0	28
			0	0	0	29
			0	0	0	30
			0	0	0	31
			0	0	0	S.F.D.
			0	0	0	AC.FT.

TOTAL ACRE-FOOT STORAGE DAYS 1,026,436

HACIENDA WATER DISTRICT

TOTAL ACRE-FOOT STORAGE DAYS 0

*WATERMASTER NOTES *** KERN RIVER BULLETIN*

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

SOUTH FORK KERN RIVER Nr. ONYX

2001 CALENDAR YEAR RUNOFF

Discharge in cubic feet per second

Whole Year Runoff (AcFt) = 47546

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	22	26	39	393	342	72	14	3	9	4	30	33
2	22	30	40	413	353	65	13	2	9	5	32	35
3	22	31	42	381	334	62	14	2	9	11	30	63
4	22	34	42	313	296	61	17	2	11	14	31	47
5	22	37	45	254	267	56	18	2	12	15	29	37
6	23	38	56	218	253	51	24	2	12	14	27	33
7	22	35	69	221	244	52	57	2	12	15	26	33
8	24	29	74	183	240	52	105	4	8	15	25	33
9	26	29	78	175	236	51	72	8	6	16	21	32
10	26	34	69	173	224	48	59	7	5	16	19	32
11	29	33	63	174	223	46	45	8	5	15	18	31
12	28	34	63	157	216	44	37	8	5	16	20	29
13	25	37	61	158	239	43	31	8	5	16	25	29
14	25	27	66	162	238	43	28	8	5	16	24	34
15	26	34	73	162	212	41	25	8	5	15	23	30
16	23	34	77	175	203	39	24	5	4	16	27	27
17	20	35	82	192	192	37	22	2	3	12	30	31
18	25	38	88	208	184	31	23	2	1	10	33	33
19	31	39	103	224	183	26	24	2	1	11	29	30
20	28	37	115	224	168	25	24	2	2	11	26	32
21	26	37	122	227	155	25	23	2	3	11	25	34
22	30	41	125	214	144	21	22	1	4	11	27	33
23	28	38	130	228	135	16	21	1	4	11	31	34
24	29	38	137	255	130	16	20	1	4	11	63	34
25	27	32	142	308	122	17	19	1	4	11	86	31
26	31	46	154	363	118	16	13	2	4	11	49	32
27	30	43	175	391	109	17	9	2	4	10	36	35
28	26	44	207	388	95	16	9	2	4	10	33	37
29	25		242	387	86	15	8	2	4	10	41	98
30	26		289	353	81	14	6	5	4	13	43	224
31	28		330		77		5	9		25		151
TOTAL	797	990	3398	7674	6099	1118	830	115	168	397	959	1427
MAX. DAY	31	46	330	413	353	72	105	9	12	25	86	224
MIN. DAY	20	26	39	157	77	14	5	1	1	4	18	27
MEAN	26	35	110	256	197	37	27	4	6	13	32	46
TOTAL AcFt	1581	1964	6740	15221	12097	2218	1645	228	333	787	1902	2830

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APRIL 2002

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2549.22	111,282	56,105	33	415	4	680	680	56,105	40,887	7	24	24	0	0	
1	2549.33	111,779	56,355	24	424	5	703	743	56,395	41,177	5	0	0	0	0	1
2	2549.48	112,461	56,699	42	431	5	822	794	56,711	41,493	8	0	0	0	0	2
3	2549.65	113,236	57,090	36	426	5	858	860	57,104	41,886	7	0	0	0	0	3
4	2549.83	114,061	57,506	34	445	5	900	907	57,527	42,309	7	0	0	0	0	4
5	2550.03	114,982	57,970	25	469	5	963	961	57,989	42,771	5	0	0	0	0	5
6	2550.25	116,003	58,485	34	465	5	1,019	974	58,459	43,241	6	0	0	0	0	6
7	2550.45	116,935	58,955	34	433	5	942	983	58,970	43,752	6	0	0	0	0	7
8	2550.67	117,966	59,475	38	424	5	987	952	59,455	44,237	7	0	0	0	0	8
9	2550.86	118,861	59,926	36	435	5	927	1,019	59,998	44,780	7	0	0	0	0	9
10	2551.09	119,952	60,476	48	541	5	1,144	1,059	60,463	45,245	9	48	48	0	0	10
11	2551.31	121,001	61,005	42	529	5	1,105	1,176	61,063	45,845	8	73	73	0	0	11
12	2551.61	122,442	61,731	46	501	5	1,278	1,249	61,760	46,542	8	66	66	0	0	12
13	2551.96	124,138	62,586	41	464	5	1,365	1,336	62,586	47,368	7	91	91	0	0	13
14	2552.32	125,898	63,474	44	479	5	1,416	1,416	63,474	48,256	8	81	81	0	0	14
15	2552.73	127,924	64,495	45	535	5	1,606	1,606	64,495	49,277	8	78	78	0	0	15
16	2553.06	129,569	65,324	37	503	5	1,374	1,374	65,324	50,106	6	82	82	0	0	16
17	2553.34	130,977	66,034	21	499	5	1,235	1,150	65,949	50,731	3	74	74	0	0	17
18	2553.52	131,887	66,493	31	484	5	979	1,070	66,499	51,281	5	75	75	0	0	18
19	2553.68	132,701	66,903	32	548	5	995	953	66,867	51,649	5	84	84	0	0	19
20	2553.81	133,363	67,237	36	510	5	885	923	67,239	52,021	6	81	81	0	0	20
21	2553.95	134,080	67,599	42	479	5	888	852	67,565	52,347	7	32	32	0	0	21
22	2554.06	134,644	67,883	43	452	5	784	818	67,883	52,665	7	0	0	0	0	22
23	2554.16	135,159	68,143	52	465	5	782	784	68,145	52,927	8	0	0	0	0	23
24	2554.25	135,624	68,377	29	517	5	785	787	68,381	53,163	5	0	0	0	0	24
25	2554.33	136,036	68,585	47	535	5	795	821	68,615	53,397	7	0	0	0	0	25
26	2554.46	136,711	68,925	21	519	5	885	869	68,939	53,721	3	3	3	0	0	26
27	2554.62	137,543	69,345	18	484	5	927	881	69,313	54,095	3	74	74	0	0	27
28	2554.76	138,273	69,713	29	428	5	830	838	69,689	54,471	4	41	41	0	0	28
29	2554.87	138,850	70,004	41	420	5	757	781	70,004	54,786	6	39	39	0	0	29
30	2554.97	139,376	70,269	34	424	5	728	728	70,269	55,051	5	60	60	0	0	30
TOTAL SECOND FOOT DAYS				1,082	14,268	150	29,664	29,664	70,269	55,051	186	1,082	1,082	0	0	
TOTAL ACRE-FEET				2,146	28,300	298	58,838	58,838	139,376	109,192	369	2,146	2,146	0	0	

By: _____ Date: May 29, 2002

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	ENT'L AT 2ND POINT	FLOW VIA KDWD	FLOW VIA CWD	FLOW AT 2ND POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	DAY
Previous Day	559	389	3	20	23,431	121	2	0	24	1	13	17,456	
1	602	422	4	15	23,592	141	2	0	0	1	9	17,585	1
2	637	431	4	25	23,769	157	0	0	0	1	17	17,724	2
3	682	423	4	22	24,002	178	3	0	0	1	14	17,884	3
4	714	437	5	21	24,253	193	8	0	0	0	13	18,056	4
5	751	463	4	15	24,522	210	6	0	0	1	10	18,249	5
6	760	460	4	21	24,797	214	5	0	0	1	13	18,444	6
7	766	433	4	21	25,105	217	0	0	0	1	13	18,647	7
8	745	418	4	23	25,405	207	6	0	0	1	15	18,832	8
9	790	430	4	22	25,739	229	5	0	0	1	14	19,041	9
10	818	478	4	29	26,046	241	15	0	48	1	19	19,199	10
11	897	435	4	26	26,478	279	21	0	73	1	16	19,367	11
12	947	414	4	28	26,979	302	21	0	66	1	18	19,563	12
13	1,006	358	4	25	27,598	330	15	0	91	1	16	19,770	13
14	1,061	383	4	27	28,245	355	15	0	81	1	17	20,011	14
15	1,191	444	4	28	28,960	415	13	0	78	1	17	20,317	15
16	1,032	412	4	23	29,553	342	9	0	82	1	14	20,553	16
17	880	416	4	13	30,000	270	9	0	74	1	8	20,731	17
18	825	406	5	19	30,395	245	3	0	75	0	12	20,886	18
19	745	460	4	20	30,656	208	4	0	84	1	12	20,993	19
20	725	429	4	22	30,926	198	0	0	81	1	14	21,095	20
21	676	435	4	26	31,137	176	2	10	32	1	16	21,210	21
22	653	362	4	27	31,397	165	7	83	0	1	16	21,268	22
23	630	377	4	32	31,614	154	8	80	0	1	20	21,313	23
24	632	422	4	18	31,802	155	13	82	0	1	11	21,361	24
25	655	446	4	29	31,978	166	7	82	0	1	18	21,419	25
26	688	414	4	13	32,235	181	18	84	3	1	8	21,486	26
27	696	355	4	11	32,561	185	12	43	74	1	7	21,534	27
28	667	341	4	18	32,865	171	5	41	41	1	11	21,606	28
29	628	328	4	26	33,135	153	5	48	39	1	15	21,651	29
30	592	307	4	21	33,395	136	9	48	60	1	13	21,656	30
S.F.D.	23,091	12,339	122	666	33,395	6,573	246	601	1,082	28	416	21,656	S.F.D.
AC.FT.	45,801	24,474	242	1,321	66,238	13,037	488	1,192	2,146	56	825	42,954	AC.FT.

TOTAL ACRE-FOOT STORAGE DAYS 1,704,076

BUENA VISTA WATER STORAGE DISTRICT

ENTITLEMENT Contributed by: NKWSD	BVWSD	FLOW	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	DAY
			0	0	0	
			0	0	0	1
			0	0	0	2
			0	0	0	3
			0	0	0	4
			0	0	0	5
			0	0	0	6
			0	0	0	7
			0	0	0	8
			0	0	0	9
			0	0	0	10
			0	0	0	11
			0	0	0	12
			0	0	0	13
			0	0	0	14
			0	0	0	15
			0	0	0	16
			0	0	0	17
			0	0	0	18
			0	0	0	19
			0	0	0	20
			0	0	0	21
			0	0	0	22
			0	0	0	23
			0	0	0	24
			0	0	0	25
			0	0	0	26
			0	0	0	27
			0	0	0	28
			0	0	0	29
			0	0	0	30
			0	0	0	S.F.D.
			0	0	0	AC.FT.

TOTAL ACRE-FOOT STORAGE DAYS 1,192,960

HACIENDA WATER DISTRICT

TOTAL ACRE-FOOT STORAGE DAYS 0

WATERMASTER NOTES *** KERN RIVER BULLETIN

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

KERN RIVER BASIN -- HISTORICAL SNOW COURSE DATA

APRIL 1ST WATER CONTENT IN INCHES

YEAR	BIGHORN PLATEAU	COTTONWOOD PASS	SIBERIAN PASS	CRABTREE MEADOW	GUYOT FLAT	SANDY MEADOWS	TYNDALL CREEK	BIG WHITNEY MEADOW	ROCK CREEK	ROUND MEADOW	RAMSHAW MEADOWS	LITTLE WHITNEY MEADOW	CASA VIEJA MEADOWS	QUINN RANGER STATION	BONITA MEADOWS	BEACH MEADOWS	BASIN WIDE AVERAGE	A-J RUNOFF IN PERCENT OF AVERAGE
1948	--	3.8	6.6	--	--	--	--	4.9	--	18.5	4.4	5.2	10.6	14.6	10.5	6.8	8.6	51%
1949	13.2	5.8	9.1	12.8	12.0	12.8	12.7	11.6	9.8	28.7	9.4	10.8	15.0	20.1	15.0	10.5	13.1	45%
1950	21.0	10.9	18.5	17.8	18.8	18.3	16.8	16.1	16.9	30.2	10.5	12.1	19.7	17.6	13.5	7.1	16.6	64%
1951	17.3	8.3	12.5	9.7	11.8	11.5	10.5	9.7	7.5	4.3	0.0	0.0	0.0	1.6	0.0	0.0	6.5	56%
1952	43.2	32.2	35.0	35.3	37.7	35.6	34.2	35.3	35.3	53.9	30.9	33.2	44.9	49.1	32.5	25.2	37.1	238%
1953	16.8	9.4	14.1	12.7	14.2	12.3	12.9	12.3	12.1	18.4	6.3	9.2	11.7	17.4	8.2	5.3	12.1	70%
1954	22.0	11.8	18.0	16.8	18.0	16.8	18.7	15.7	18.3	29.2	12.2	17.0	23.5	21.3	15.4	10.1	17.8	75%
1955	14.7	8.1	11.6	13.4	15.3	13.1	13.4	10.7	12.3	14.9	7.0	8.0	11.3	13.5	6.5	3.3	11.1	47%
1956	33.3	12.6	26.7	26.7	27.9	25.1	24.3	21.7	23.0	22.3	9.0	13.5	15.1	12.8	8.9	0.0	18.9	112%
1957	14.3	11.7	14.1	11.8	12.6	10.5	11.2	11.5	10.0	14.7	6.8	7.1	10.9	14.4	6.3	0.0	10.5	62%
1958	25.9	20.5	25.0	23.5	25.3	24.5	24.0	22.7	23.7	39.2	17.0	21.2	30.9	--	26.6	21.6	24.8	177%
1959	10.3	5.7	9.7	9.0	9.7	7.3	9.2	8.4	8.7	6.0	5.6	6.8	8.4	5.7	1.8	0.0	7.0	28%
1960	11.8	4.7	9.4	9.4	10.9	7.9	9.5	9.4	6.5	20.2	2.0	2.5	9.1	11.9	6.9	2.7	8.4	36%
1961	6.0	3.8	6.0	7.1	7.8	4.5	4.3	6.3	4.8	12.8	0.0	0.0	6.0	1.6	2.1	0.0	4.6	19%
1962	37.4	27.0	31.8	33.7	35.5	32.6	31.4	30.7	30.6	40.5	--	--	32.1	35.3	27.6	21.3	32.0	110%
1963	19.7	17.5	16.1	17.1	18.4	17.1	17.2	17.0	13.5	12.6	--	--	11.0	5.6	5.7	1.0	13.5	101%
1964	5.1	1.5	3.9	6.1	6.1	5.4	4.8	4.3	5.8	15.1	--	--	8.1	10.8	5.2	2.7	6.1	39%
1965	25.8	13.1	16.4	20.1	18.0	19.8	17.8	13.7	15.0	25.2	8.6	11.4	17.0	16.5	10.3	7.0	16.0	97%
1966	15.7	7.1	14.0	12.9	15.3	11.9	13.2	11.6	10.9	18.5	5.3	6.9	14.2	10.6	10.9	4.7	11.5	47%
1967	37.1	25.2	32.9	32.2	35.8	30.6	30.0	30.3	30.4	19.4	13.5	20.3	27.8	--	14.5	3.0	25.5	196%
1968	14.1	8.9	12.6	12.3	14.0	11.8	11.6	12.6	11.1	17.5	7.6	6.2	12.9	9.7	8.6	4.1	11.0	53%
1969	55.3	41.1	48.4	48.5	50.6	46.3	48.6	45.0	45.8	69.8	38.1	46.1	61.4	59.8	50.2	36.8	49.5	372%
1970	17.0	9.1	12.6	16.4	14.7	16.1	14.6	11.4	12.5	16.7	4.5	7.2	13.4	12.7	6.1	4.1	11.8	68%
1971	15.7	5.7	12.6	11.7	13.2	11.9	13.1	10.8	11.1	21.2	3.3	5.5	14.0	15.9	9.4	3.4	11.2	52%
1972	7.6	2.5	6.6	6.3	7.6	5.2	3.4	5.4	4.1	4.8	0.0	0.0	3.4	2.2	0.0	0.0	3.7	27%
1973	33.6	24.4	30.0	31.7	33.7	31.3	31.8	27.2	30.4	42.7	24.1	28.2	31.7	40.8	28.1	22.3	30.8	154%
1974	25.4	13.2	20.6	20.5	22.6	19.0	20.4	19.1	18.1	29.8	14.3	14.8	21.2	22.0	--	10.1	19.4	114%
1975	18.9	9.7	15.0	16.9	17.6	16.2	15.1	15.9	16.1	26.8	11.6	14.0	20.7	22.3	--	10.3	16.5	82%
1976	5.9	4.4	5.8	3.3	5.4	3.3	4.7	5.5	3.6	11.9	0.9	0.0	7.2	6.3	6.7	2.2	4.8	23%
1977	5.0	3.5	4.0	4.7	4.8	3.2	3.5	4.9	3.1	10.8	2.1	0.0	--	2.0	3.6	0.0	3.7	20%
1978	43.1	40.1	40.1	39.7	41.7	40.1	40.6	37.3	39.6	46.8	31.9	37.6	41.1	43.7	32.2	23.6	38.7	233%
1979	19.9	13.2	17.5	18.2	17.5	17.7	18.8	14.7	14.2	25.3	12.2	14.2	--	--	18.2	14.9	16.9	89%
1980	40.9	29.4	34.4	34.3	35.1	34.5	35.7	29.5	33.5	25.0	21.6	27.4	30.0	36.7	18.7	16.2	30.2	211%
1981	15.3	11.8	13.0	14.0	14.8	14.1	15.8	10.9	12.8	17.4	8.6	9.6	14.6	15.7	12.3	7.5	13.0	54%
1982	32.4	17.4	24.6	23.2	24.3	24.1	26.3	20.3	23.7	31.0	15.2	19.0	29.2	--	23.0	11.6	23.0	169%
1983	48.9	34.9	45.0	45.3	49.2	46.9	43.7	38.6	44.7	63.4	33.2	37.6	48.1	52.1	42.2	30.6	44.0	329%
1984	21.9	9.7	15.4	20.1	17.6	18.1	17.0	12.9	13.8	15.7	2.1	2.6	11.9	9.4	2.1	0.0	11.9	90%
1985	18.6	17.2	20.5	17.2	20.8	16.3	15.5	19.0	18.9	26.2	14.6	15.0	25.5	19.1	17.7	10.8	18.3	90%
1986	45.1	34.1	39.3	29.9	38.6	37.3	35.1	34.8	36.5	44.2	22.8	25.4	35.0	29.8	21.3	11.6	32.6	189%
1987	11.3	7.6	8.9	9.3	11.5	9.2	11.0	7.8	8.1	15.8	6.3	8.3	9.8	17.3	9.0	1.3	9.5	45%
1988	9.6	5.3	7.8	8.8	8.9	8.9	9.0	4.0	6.3	7.2	0.0	0.0	2.7	2.4	0.4	0.0	5.1	34%
1989	15.3	10.2	13.0	12.3	15.7	13.3	11.0	14.4	14.1	21.7	7.3	11.5	17.2	12.9	14.6	5.2	13.1	50%
1990	7.6	1.9	6.1	6.6	7.2	4.9	7.9	6.2	4.0	9.9	0.9	2.2	--	4.9	1.6	0.0	4.8	24%
1991	19.7	14.1	17.5	14.1	18.9	17.1	17.2	15.1	17.0	24.7	11.6	14.6	14.0	21.0	15.0	7.0	16.2	59%
1992	12.7	13.2	11.7	11.0	10.7	12.2	12.0	9.1	9.9	21.0	7.7	8.0	10.8	12.8	11.0	4.0	11.1	38%
1993	33.7	19.6	29.9	27.6	30.2	27.7	29.3	26.4	28.8	41.0	19.8	22.5	30.0	32.1	24.0	14.5	27.3	124%
1994	13.4	6.7	11.3	12.1	13.6	11.2	11.5	8.8	10.6	14.3	5.9	7.1	10.2	7.9	7.3	3.2	9.7	41%
1995	35.3	30.5	34.8	32.8	35.3	33.0	32.5	30.5	32.2	44.4	23.3	26.4	33.7	51.0	26.6	14.5	32.3	198%
1996	29.6	17.7	23.0	23.2	24.6	23.4	25.9	18.6	21.9	31.0	12.5	16.5	25.5	21.0	18.9	9.8	21.4	127%
1997	32.5	17.0	26.7	26.4	28.1	26.1	26.1	19.0	23.7	26.1	13.2	16.5	20.0	22.1	9.0	2.1	20.9	122%
1998	36.9	26.7	30.8	33.1	34.6	31.6	33.7	27.9	30.6	--	22.9	26.3	--	--	--	--	30.5	242%
1999	12.3	5.7	10.6	10.7	11.0	9.5	10.0	10.4	8.5	20.3	5.0	6.0	13.5	8.0	6.9	0.6	9.3	54%
2000	22.0	13.8	17.0	17.9	19.2	16.9	19.4	14.2	17.2	23.8	9.9	13.1	18.7	17.4	11.7	6.1	16.1	65%
2001	13.1	14.5	14.6	12.7	12.7	11.5	12.6	12.8	10.5	15.3	9.3	8.9	11.5	10.2	10.8	3.4	11.5	53%
2002	22.4	7.1	12.1	13.1	14.6	14.3	14.8	12.1	13.4	18.4	6.1	6.7	--	14.4	7.0	--	12.6	43% (e)
MAXIMUM	55.3	41.1	48.4	48.5	50.6	46.9	48.6	45.0	45.8	69.8	38.1	46.1	61.4	59.8	50.2	36.8	49.5	
MINIMUM	5.0	1.5	3.9	3.3	4.8	3.2	3.4	4.0	3.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	
AVERAGE	22.3	14.2	18.6	18.8	20.2	18.6	18.8	16.7	17.5	24.6	11.1	13.3	19.3	18.7	13.5	8.0	17.2	

REPORT OF THE KERN RIVER WATERMASTER

MAY 2002

Quantities in S.F.D. except where noted

	ISABELLA RESERVOIR						CHANGE IN STORAGE+LOSS		MEAN STORAGE				SECOND POINT GROUP FLOW			
	ELEVATION	MIDNIGHT STORAGE			FIRST POINT REGULATED	FLOW ABOVE	+1ST POINT +FLOW ABOVE	COMPUTED 1ST POINT NATURAL	Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)		KERN COUNTY RECREATION	TOTAL FLOW AT SECOND	AT 2ND POINT KERN	AT 2ND POINT FRIANT-	FRIANT- KERN	
DAY	(FEET)	ACRE-FEET	S.F.D.	LOSS	F LOW	1ST PT.	1ST POINT	FLOW	TOTAL	IRRIGATION	POOL LOSS	POINT	RIVER	KERN	INFLOW	DAY
Previous Day	2554.97	139,376	70,269	34	424	5	728	728	70,269	55,051	5	60	60	0	0	
1	2555.06	139,849	70,507	41	432	5	716	704	70,495	55,277	6	80	80	0	0	1
2	2555.14	140,271	70,720	38	425	5	681	702	70,729	55,511	6	80	80	0	0	2
3	2555.23	140,748	70,960	42	422	5	709	704	70,964	55,746	6	82	82	0	0	3
4	2555.32	141,224	71,200	52	424	5	721	722	71,205	55,987	8	74	74	0	0	4
5	2555.41	141,702	71,441	56	435	5	737	745	71,454	56,236	8	77	77	0	0	5
6	2555.51	142,234	71,710	63	439	5	776	801	71,748	56,530	9	74	74	0	0	6
7	2555.65	142,982	72,087	60	449	5	891	893	72,127	56,909	9	73	73	0	0	7
8	2555.81	143,839	72,519	68	506	5	1,011	954	72,502	57,284	10	72	72	0	0	8
9	2555.94	144,538	72,871	57	547	5	961	1,008	72,901	57,683	8	69	69	0	0	9
10	2556.09	145,347	73,279	62	576	5	1,051	1,011	73,269	58,051	9	70	70	0	0	10
11	2556.24	146,161	73,690	53	553	5	1,022	1,005	73,663	58,445	8	78	78	0	0	11
12	2556.36	146,812	74,018	56	552	5	941	955	74,005	58,787	8	67	67	0	0	12
13	2556.46	147,357	74,293	53	568	5	901	984	74,363	59,145	7	2	2	0	0	13
14	2556.63	148,286	74,761	83	553	5	1,109	1,043	74,765	59,547	12	0	0	0	0	14
15	2556.81	149,274	75,259	68	550	5	1,121	1,192	75,334	60,116	9	0	0	0	0	15
16	2557.05	150,598	75,927	75	598	5	1,346	1,321	75,977	60,759	10	0	0	0	0	16
17	2557.35	152,264	76,766	72	580	5	1,496	1,494	76,814	61,596	10	0	0	0	0	17
18	2557.70	154,223	77,754	73	572	6	1,639	1,585	77,748	62,530	10	0	0	0	0	18
19	2558.04	156,140	78,721	63	584	6	1,620	1,624	78,719	63,501	8	0	0	0	0	19
20	2558.36	157,960	79,638	31	659	6	1,613	1,540	79,563	64,345	4	0	0	0	0	20
21	2558.61	159,391	80,360	12	646	6	1,386	1,416	80,315	65,097	2	0	0	0	0	21
22	2558.82	160,599	80,969	46	588	6	1,249	1,245	80,920	65,702	6	0	0	0	0	22
23	2558.97	161,467	81,406	56	601	6	1,100	1,138	81,395	66,177	7	0	0	0	0	23
24	2559.07	162,045	81,698	62	705	6	1,065	1,074	81,696	66,478	8	0	0	0	0	24
25	2559.18	162,685	82,020	65	663	6	1,056	1,061	82,023	66,805	8	0	0	0	0	25
26	2559.30	163,383	82,372	69	636	6	1,063	1,116	82,428	67,210	9	0	0	0	0	26
27	2559.47	164,377	82,873	72	651	6	1,230	1,197	82,896	67,678	9	0	0	0	0	27
28	2559.67	165,550	83,465	73	627	6	1,298	1,336	83,526	68,308	9	0	0	0	0	28
29	2559.92	167,025	84,208	65	665	6	1,479	1,445	84,235	69,017	8	0	0	0	0	29
30	2560.20	168,686	85,046	77	638	6	1,559	1,532	85,046	69,828	9	0	0	0	0	30
31	2560.53	170,657	86,040	69	671	6	1,740	1,740	86,040	70,822	8	0	0	0	0	31
TOTAL SECOND FOOT DAYS				1,832	17,515	169	35,287	35,287	86,040	70,822	248	898	898	0	0	
TOTAL ACRE-FEET				3,634	34,740	335	69,991	69,991	170,657	140,473	492	1,781	1,781	0	0	

By: _____ Date: June 27, 2002

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	ENT'L AT 2ND POINT
Previous Day	592	307	4	21	33,395	136
1	575	338	5	26	33,601	129
2	574	335	5	24	33,811	128
3	575	329	5	26	34,026	129
4	588	335	5	33	34,241	134
5	603	346	5	35	34,458	142
6	642	348	5	40	34,707	159
7	704	368	5	38	35,000	189
8	746	428	5	43	35,270	208
9	783	472	5	36	35,540	225
10	785	500	5	39	35,781	226
11	781	471	5	34	36,052	224
12	747	483	5	36	36,275	208
13	766	560	5	34	36,442	218
14	807	546	5	53	36,645	236
15	908	540	5	43	36,965	284
16	996	588	5	47	37,321	325
17	1,114	566	5	46	37,818	380
18	1,176	564	6	46	38,378	409
19	1,203	582	6	40	38,953	421
20	1,146	655	6	20	39,418	394
21	1,061	642	6	8	39,823	355
22	944	574	6	29	40,158	301
23	871	597	6	35	40,391	267
24	828	544	6	39	40,630	246
25	819	462	6	41	40,940	242
26	856	438	6	44	41,308	260
27	912	506	6	45	41,663	285
28	1,006	614	6	46	42,003	330
29	1,081	577	6	41	42,460	364
30	1,140	519	6	49	43,026	392
31	1,282	573	6	44	43,685	458
S.F.D.	27,019	15,400	169	1,160	43,685	8,268
AC.FT.	53,592	30,545	335	2,301	86,648	16,399

TOTAL ACRE-FOOT STORAGE DAYS 2,334,125

BUENA VISTA WATER STORAGE DISTRICT

DAY	FLOW VIA KDWD	FLOW VIA CWD	FLOW FOR KCWA	FLOW AT 2ND POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	9	48	0	60	1	13	21,656
1	14	0	0	80	0	15	21,676
2	10	0	0	80	0	14	21,700
3	11	0	0	82	0	16	21,720
4	15	0	0	74	0	19	21,746
5	12	0	0	77	0	21	21,778
6	17	0	0	74	0	23	21,823
7	8	0	0	73	0	22	21,909
8	6	0	0	72	0	25	22,014
9	6	0	0	69	0	21	22,143
10	6	0	0	70	0	23	22,270
11	4	0	0	78	0	19	22,393
12	2	0	0	67	0	20	22,512
13	6	0	0	2	0	19	22,703
14	7	0	0	0	0	30	22,902
15	10	0	0	0	0	25	23,151
16	10	0	0	0	0	28	23,438
17	14	0	0	0	0	26	23,778
18	8	0	0	0	0	27	24,152
19	2	0	0	0	0	23	24,548
20	4	0	0	0	0	11	24,927
21	4	0	0	0	0	4	25,274
22	14	0	0	0	0	17	25,544
23	4	0	0	0	0	21	25,786
24	8	0	153	0	0	23	25,848
25	8	0	193	0	0	24	25,865
26	6	0	192	0	0	25	25,902
27	31	0	114	0	0	27	26,015
28	13	0	0	0	0	27	26,305
29	6	82	0	0	0	24	26,557
30	6	113	0	0	0	28	26,802
31	16	82	0	0	0	25	27,137
S.F.D.	288	277	652	898	0	672	27,137
AC.FT.	571	550	1,293	1,781	0	1,333	53,825

TOTAL ACRE-FOOT STORAGE DAYS 1,468,399

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed by: NKWSD	ENTITLEMENT Contributed by: BVWSD	FLOW	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day				0	0	0
1				0	0	0
2				0	0	0
3				0	0	0
4				0	0	0
5				0	0	0
6				0	0	0
7				0	0	0
8				0	0	0
9				0	0	0
10				0	0	0
11				0	0	0
12				0	0	0
13				0	0	0
14				0	0	0
15				0	0	0
16				0	0	0
17				0	0	0
18				0	0	0
19				0	0	0
20				0	0	0
21				0	0	0
22				0	0	0
23				0	0	0
24				0	0	0
25				0	0	0
26				0	0	0
27				0	0	0
28				0	0	0
29				0	0	0
30				0	0	0
31				0	0	0
S.F.D.				0	0	0
AC.FT.				0	0	0

TOTAL ACRE-FOOT STORAGE DAYS 0

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
May	24-27	2	BVWSD FLOW - FOR KCWA	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Kern County Water Agency letter agreement dated June 3, 2002.

KERN RIVER

MAY CONTRIBUTION TO THE APRIL - JULY RUNOFF 1894 TO DATE

In Order of Magnitude

Rank	Year	May Runoff (AcFt)	April-July Runoff (AcFt)	April-July % of Average	May % of April-July
1	2001	124,417	250,292	53%	49.7%
2	1924	41,722	92,556	20%	45.1%
3	1947	110,325	249,572	53%	44.2%
4	1976	47,151	108,754	23%	43.4%
5	1897	281,639	654,262	139%	43.0%
6	1931	41,867	98,062	21%	42.7%
7	1926	98,598	232,782	50%	42.4%
8	2000	129,406	306,496	65%	42.2%
9	1992	74,394	179,153	38%	41.5%
10	1937	352,050	852,047	181%	41.3%
11	1919	140,215	342,997	73%	40.9%
12	1949	84,508	209,911	45%	40.3%
13	1973	288,652	723,768	154%	39.9%
14	1946	155,476	390,747	83%	39.8%
15	1928	76,885	193,702	41%	39.7%
16	1954	139,719	354,117	75%	39.5%
17	1979	164,935	419,859	89%	39.3%
18	1922	242,259	617,710	131%	39.2%
19	1929	85,995	219,532	47%	39.2%
20	1941	386,666	995,657	212%	38.8%
21	1952	434,769	1,119,815	238%	38.8%
22	1895	268,635	694,729	148%	38.7%
23	1940	196,465	510,614	109%	38.5%
24	1984	161,613	423,132	90%	38.2%
25	1958	316,974	831,669	177%	38.1%
26	1975	147,001	386,180	82%	38.1%
27	1936	219,404	581,624	124%	37.7%
28	1996	225,987	599,331	127%	37.7%
29	1999	95,199	252,627	54%	37.7%
30	1997	214,290	571,476	122%	37.5%
31	1966	82,336	219,893	47%	37.4%
32	1934	43,065	116,145	25%	37.1%
33	1944	150,109	405,391	86%	37.0%
34	1920	158,904	430,813	92%	36.9%
35	1943	254,785	697,182	148%	36.5%
36	1981	91,914	252,681	54%	36.4%
37	1910	127,733	352,126	75%	36.3%
38	1923	120,849	332,532	71%	36.3%
39	1988	58,350	162,043	34%	36.0%
40	1972	45,965	127,720	27%	36.0%
41	1948	86,108	239,980	51%	35.9%
42	1904	113,205	316,646	67%	35.8%
43	1987	75,108	211,408	45%	35.5%
44	1927	184,721	521,717	111%	35.4%
45	1968	87,991	248,319	53%	35.4%
46	1969	617,968	1,747,874	372%	35.4%
47	1994	67,224	191,004	41%	35.2%
48	1900	68,295	196,888	42%	34.7%
49	1913	73,561	211,722	45%	34.7%
50	1960	58,336	168,472	36%	34.6%
51	1985	146,799	424,293	90%	34.6%
52	1970	110,057	319,408	68%	34.5%
53	1945	205,509	597,350	127%	34.4%
54	1939	92,253	268,269	57%	34.4%
55	1993	200,864	584,691	124%	34.4%
56	1974	183,733	535,166	114%	34.3%
57	1961	29,980	87,374	19%	34.3%
58	1990	38,600	113,344	24%	34.1%
59	1964	61,521	182,928	39%	33.6%
60	1894	98,801	295,400	63%	33.4%
61	1898	45,213	135,303	29%	33.4%
62	1978	363,157	1,094,375	233%	33.2%
63	1903	132,097	398,989	85%	33.1%
64	1986	293,335	886,674	189%	33.1%
65	1950	98,483	299,906	64%	32.8%
66	1938	315,044	961,769	205%	32.8%
67	1925	102,016	313,113	67%	32.6%
68	**2002**	**69,991**	**215,000**	**46%**	**32.6%** (e)
69	1951	85,039	261,884	56%	32.5%
70	1905	117,748	366,396	78%	32.1%
71	1901	186,446	582,041	124%	32.0%
72	1982	254,985	796,794	169%	32.0%
73	1912	80,471	251,812	54%	32.0%
74	1909	382,617	1,218,975	259%	31.4%
75	1921	100,096	321,325	68%	31.2%
76	1983	478,625	1,545,810	329%	31.0%
77	1955	69,544	224,785	48%	30.9%
78	1914	210,676	685,012	146%	30.8%
79	1989	71,849	234,430	50%	30.6%
80	1959	39,945	130,585	28%	30.6%
81	1908	79,418	260,894	55%	30.4%
82	1956	159,683	525,641	112%	30.4%
83	1916	472,994	1,571,597	334%	30.1%
84	1935	103,787	350,647	75%	29.6%
85	1917	165,062	560,304	119%	29.5%
86	1907	199,950	678,748	144%	29.5%
87	1932	154,742	526,432	112%	29.4%
88	1967	269,631	924,005	196%	29.2%
89	1930	67,851	232,582	49%	29.2%
90	1980	287,825	991,025	211%	29.0%
91	1963	137,839	476,579	101%	28.9%
92	1965	131,980	456,668	97%	28.9%
93	1991	79,763	276,543	59%	28.8%
94	1942	150,036	522,905	111%	28.7%
95	1902	109,904	389,596	83%	28.2%
96	1995	255,046	929,221	198%	27.4%
97	1915	124,506	455,242	97%	27.3%
98	1971	66,635	244,475	52%	27.3%
99	1957	79,355	292,346	62%	27.1%
100	1998	308,440	1,137,373	242%	27.1%
101	1977	25,630	95,649	20%	26.8%
102	1962	135,884	515,474	110%	26.4%
103	1911	184,481	701,168	149%	26.3%
104	1953	86,019	329,570	70%	26.1%
105	1906	360,234	1,391,636	296%	25.9%
106	1899	51,353	213,710	45%	24.0%
107	1918	78,722	334,816	71%	23.5%
108	1896	86,174	372,922	79%	23.1%
109	1933	60,026	299,584	64%	20.0%

REPORT OF THE KERN RIVER WATERMASTER

JUNE 2002

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2560.53	170,657	86,040	69	671	6	1,740	1,740	86,040	70,822	8	0	0	0	0	
1	2560.85	172,583	87,011	73	667	6	1,717	1,676	86,970	71,752	8	0	0	0	0	1
2	2561.11	174,157	87,804	93	700	7	1,593	1,614	87,784	72,566	11	0	0	0	0	2
3	2561.31	175,375	88,418	77	836	6	1,533	1,541	88,406	73,188	9	0	0	0	0	3
4	2561.49	176,476	88,973	94	840	7	1,496	1,507	88,972	73,754	11	0	0	0	0	4
5	2561.67	177,580	89,530	95	834	7	1,493	1,494	89,530	74,312	11	0	0	0	0	5
6	2561.89	178,936	90,214	75	806	6	1,571	1,571	90,214	74,996	8	0	0	0	0	6
7	2562.14	180,484	90,994	101	795	7	1,683	1,683	90,994	75,776	11	0	0	0	0	7
8	2562.35	181,791	91,653	94	736	6	1,495	1,495	91,653	76,435	10	0	0	0	0	8
9	2562.49	182,667	92,095	93	803	6	1,344	1,344	92,095	76,877	10	0	0	0	0	9
10	2562.56	183,104	92,315	72	880	7	1,179	1,139	92,275	77,057	8	0	0	0	0	10
11	2562.59	183,292	92,410	70	889	6	1,060	1,088	92,398	77,180	8	0	0	0	0	11
12	2562.62	183,481	92,505	95	829	7	1,026	1,026	92,493	77,275	10	0	0	0	0	12
13	2562.64	183,607	92,569	87	835	7	993	1,013	92,577	77,359	9	0	0	0	0	13
14	2562.68	183,858	92,695	99	788	7	1,020	1,012	92,695	77,477	11	0	0	0	0	14
15	2562.73	184,173	92,854	99	759	7	1,024	984	92,814	77,596	11	54	42	0	0	15
16	2562.71	184,047	92,790	103	861	7	907	959	92,802	77,584	11	53	38	0	0	16
17	2562.64	183,607	92,569	133	1,027	7	946	924	92,559	77,341	14	57	42	0	0	17
18	2562.59	183,292	92,410	108	963	7	919	955	92,436	77,218	12	64	56	0	0	18
19	2562.60	183,355	92,442	99	862	7	1,000	965	92,433	77,215	11	65	58	0	0	19
20	2562.62	183,481	92,505	95	812	7	977	939	92,458	77,240	10	51	43	0	0	20
21	2562.54	182,979	92,252	106	979	7	839	909	92,275	77,057	11	65	60	0	0	21
22	2562.49	182,667	92,095	89	973	7	912	845	92,051	76,833	10	69	69	0	0	22
23	2562.38	181,979	91,748	89	1,035	7	784	816	91,736	76,518	10	48	48	0	0	23
24	2562.20	180,857	91,182	98	1,213	7	752	743	91,161	75,943	11	61	61	0	0	24
25	2562.02	179,739	90,618	86	1,164	7	693	705	90,609	75,391	10	73	65	0	0	25
26	2561.85	178,688	90,089	97	1,094	7	669	668	90,079	74,861	11	67	61	0	0	26
27	2561.67	177,580	89,530	113	1,080	7	641	644	89,523	74,305	13	44	38	0	0	27
28	2561.46	176,292	88,881	102	1,161	7	621	628	88,881	73,663	12	57	51	0	0	28
29	2561.25	175,010	88,234	87	1,174	7	621	621	88,234	73,016	10	55	49	0	0	29
30	2561.04	173,732	87,590	92	1,190	7	645	645	87,590	72,372	11	55	49	0	0	30
TOTAL SECOND FOOT DAYS				2,814	27,585	204	32,153	32,153	87,590	72,372	313	938	830	0	0	
TOTAL ACRE-FEET				5,581	54,714	405	63,775	63,775	173,732	143,548	621	1,860	1,646	0	0	

By: _____ Date: July 22, 2002

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	ENT'L AT 2ND POINT
Previous Day	1,282	573	6	44	43,685	458
1	1,238	629	6	46	44,242	438
2	1,196	668	7	59	44,704	418
3	1,146	751	6	49	45,044	395
4	1,123	767	7	59	45,334	384
5	1,114	771	7	60	45,610	380
6	1,167	744	6	47	45,980	404
7	1,243	724	7	63	46,429	440
8	1,115	669	6	59	46,810	380
9	1,012	741	6	58	47,017	332
10	872	810	7	45	47,027	267
11	837	824	6	44	46,990	251
12	795	771	7	59	46,948	231
13	786	778	7	54	46,895	227
14	785	761	7	62	46,850	227
15	766	687	7	61	46,861	218
16	749	800	7	64	46,739	210
17	725	950	7	82	46,425	199
18	747	877	7	67	46,221	208
19	753	768	7	61	46,138	212
20	736	735	7	58	46,074	203
21	715	731	7	65	45,986	194
22	672	635	7	55	45,961	173
23	652	722	7	55	45,829	164
24	602	850	7	60	45,514	141
25	576	727	7	53	45,303	129
26	551	700	7	60	45,087	117
27	535	738	7	70	44,807	109
28	524	774	7	63	44,487	104
29	519	748	7	54	44,197	102
30	535	739	7	57	43,929	110
S.F.D.	24,786	22,589	204	1,749	43,929	7,367
AC.FT.	49,163	44,806	405	3,469	87,132	14,612

TOTAL ACRE-FOOT STORAGE DAYS 2,728,140

BUENA VISTA WATER STORAGE DISTRICT

DAY	FLOW VIA KDWD	FLOW VIA CWD	FLOW FOR KCWA	FLOW AT 2ND POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	16	82	0	0	0	25	27,137
1	12	26	0	0	0	27	27,510
2	9	23	0	0	0	34	27,862
3	47	38	0	0	0	28	28,144
4	53	20	0	0	0	35	28,420
5	49	14	0	0	0	35	28,702
6	47	15	0	0	0	28	29,016
7	50	21	0	0	0	38	29,347
8	56	11	0	0	0	35	29,625
9	53	9	0	0	0	35	29,860
10	57	13	0	0	0	27	30,030
11	50	15	0	0	0	26	30,190
12	44	14	0	0	0	36	30,327
13	43	14	0	0	0	33	30,464
14	10	17	0	0	0	37	30,627
15	9	21	0	42	0	38	30,735
16	5	18	0	38	0	39	30,845
17	14	21	0	42	0	51	30,916
18	13	17	0	56	0	41	30,997
19	18	18	0	58	0	38	31,077
20	21	13	0	43	0	37	31,166
21	19	16	153	60	0	41	31,071
22	26	16	227	69	0	34	30,872
23	22	15	228	48	0	34	30,689
24	42	15	245	61	0	38	30,429
25	119	21	232	65	0	33	30,088
26	104	22	207	61	0	37	29,774
27	120	19	165	38	0	43	29,498
28	134	6	196	51	0	39	29,176
29	138	65	174	49	0	33	28,819
30	133	94	175	49	0	35	28,443
S.F.D.	1,517	647	2,002	830	0	1,065	28,443
AC.FT.	3,008	1,283	3,971	1,646	0	2,112	56,416

TOTAL ACRE-FOOT STORAGE DAYS 1,774,648

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed by: NKWSD	ENTITLEMENT Contributed by: BVWSD	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day			0	0	0
1			0	0	0
2			0	0	0
3			0	0	0
4			0	0	0
5			0	0	0
6			0	0	0
7			0	0	0
8			0	0	0
9			0	0	0
10			0	0	0
11			0	0	0
12			0	0	0
13			0	0	0
14			0	0	0
15			0	0	0
16			0	0	0
17			0	0	0
18			0	0	0
19			0	0	0
20			0	0	0
21			0	0	0
22			0	0	0
23			0	0	0
24			0	0	0
25			0	0	0
26			0	0	0
27			0	0	0
28			0	0	0
29			0	0	0
30			0	0	0
S.F.D.			0	0	0
AC.FT.			0	0	0

TOTAL ACRE-FOOT STORAGE DAYS 0

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
June	21-30	2	BVWSD FLOW - FOR KCWA	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Kern County Water Agency letter agreement dated June 3, 2002.

ISABELLA DAM & RESERVOIR
PRECIPITATION DATA
Maximum 24-Hour Rainfall in Inches with Year of Most Recent Occurrence
October 1, 1949 to Date

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Max.	Avg.
Jan	0.71	0.63	1.10	2.21	1.10	1.39	0.61	0.74	1.39	1.50	1.45	1.46	0.85	1.10	1.05	2.40	1.19	0.68	1.52	1.34	1.08	0.80	1.63	1.02	2.15	1.95	1.15	0.45	0.86	1.45	0.56	2.40	2.49
Year	1982	1997	1977	1995	1982	1993	1993	1953	1973	2001	1980	1980	1980	1953	1978	1996	1978	1952	1969	1969	1982	1969	1983	1969	1969	1956	1956	1981	1980	1981	1963	1996	
Feb	3.40	0.53	1.07	0.48	0.89	2.04	1.35	1.43	2.02	2.24	0.96	1.58	1.21	2.05	1.89	0.69	1.31	0.65	2.13	1.10	1.05	0.73	1.71	1.13	1.65	0.98	0.44	0.82	0.27			3.40	2.20
	1960	1963	1989	1989	1975	1950	1962	1960	1978	1978	1973	1986	1987	1998	1954	1969	1980	1993	1996	1980	1998	1979	1998	1969	1969	1983	1983	1991	1988			1960	
Mar	1.50	1.30	0.75	1.72	0.70	0.58	0.58	1.29	0.66	1.19	0.69	0.95	0.51	0.56	0.61	0.64	1.05	0.58	0.34	0.93	0.54	0.73	0.80	1.02	0.87	1.13	0.46	0.90	0.39	0.57	0.57	1.72	1.68
	1991	1989	1980	1991	1970	1994	1952	1986	1986	1995	1995	1996	1983	1987	1958	1958	1952	1983	1982	1981	1958	1958	1964	1983	1950	1985	1981	1963	1979	1982	1978	1991	
Apr	0.38	1.45	0.72	0.99	0.49	0.43	0.57	0.43	0.30	0.62	0.67	0.60	0.65	0.32	0.35	0.68	0.51	0.54	0.55	0.57	0.35	0.49	0.14	0.33	0.45	0.30	0.56	0.87	0.50	0.88		1.45	0.72
	1956	1974	1958	1958	1964	1969	2001	1999	1965	1965	1999	1982	1956	1988	1963	1976	2000	1971	1988	2001	1963	1955	1990	1960	1994	1960	1960	1953	1980	1951		1974	
May	0.44	0.11	0.12	0.36	0.25	0.33	0.15	0.33	0.62	0.41	0.19	0.48	0.23	0.09	0.15	0.02	0.06	0.04	0.75	0.09	0.25	0.05	0.16	0.07	0.10	0.75	0.41	0.14	0.10	0.00	0.00	0.75	0.25
	1955	1980	1998	1998	1998	1988	1998	1955	1977	1956	1987	1998	1995	1973	1973	2000	1991	1994	1957	1981	1957	1999	1999	1980	1964	1999	1971	1988	1953	2001	2001	1957	
Jun	0.21	0.00	0.00	0.37	0.25	0.02	0.41	0.50	0.39	0.09	0.28	0.24	0.20	0.00	0.39	0.04	0.30	0.01	0.04	0.03	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.04		0.50	0.09
	1967	2001	2001	1993	1993	1993	1987	1972	1977	1998	1963	1963	1963	2001	1995	1969	1969	1988	1988	1967	2001	2001	2001	1965	2001	2001	2001	2001	2001	1982		1972	
Jul	0.00	0.00	0.00	0.02	0.21	0.21	0.00	0.00	0.01	0.23	0.00	0.00	0.45	0.03	0.42	0.88	0.29	0.05	0.00	0.06	0.10	0.30	0.28	0.00	0.12	0.78	0.25	0.03	0.02	0.23	0.31	0.88	0.12
	2001	2001	2001	1961	2001	2001	2001	2001	1968	1950	2001	2001	1984	1984	1984	1984	1967	1971	2001	1988	1988	1988	1986	2001	1956	1974	1969	1976	1970	1984	1965	1984	
Aug	0.00	0.80	0.00	0.00	0.00	0.06	0.14	1.01	0.00	0.35	0.20	0.48	0.05	0.02	0.51	0.09	0.25	0.62	0.41	0.20	0.24	0.11	0.16	0.54	0.13	0.08	0.01	0.10	0.24	0.00	0.01	1.01	0.17
	2001	1966	2001	2001	2001	1961	1963	1963	2001	1961	1961	1965	1953	1953	1984	1983	1977	1977	1983	1995	1995	1984	1961	1971	1967	1967	1970	1972	1972	2001	1964	1963	
Sep	0.62	0.18	0.03	0.37	0.07	1.25	0.15	0.29	0.06	0.15	1.18	0.25	0.09	0.00	0.00	0.53	0.08	0.20	0.86	0.03	0.17	0.34	0.04	0.20	0.55	0.27	0.00	0.10	0.98	3.09		3.09	0.34
	1967	1997	1960	1997	1978	1978	1958	1975	1975	1975	1975	1959	1959	2001	2001	1989	1975	1965	1967	1990	1990	1999	1987	1986	1979	1982	2001	1982	1976	1976		1976	
Oct	0.45	0.42	0.23	0.15	0.30	0.12	0.15	0.69	0.22	0.32	0.22	0.01	0.02	0.27	0.22	0.82	0.96	0.01	0.25	0.73	0.15	0.04	0.21	0.14	0.35	0.53	0.22	0.29	0.84	0.57	0.36	0.96	0.33
	1983	1981	1974	1972	1994	1960	1956	1974	1986	2000	1997	1975	1975	1968	1963	1963	1963	1969	1972	1979	1987	1987	1976	1996	1951	1991	1982	1974	1974	2001	1982	1963	
Nov	0.02	0.10	0.39	0.45	0.18	0.52	0.30	0.25	0.50	0.70	0.77	0.90	0.32	1.05	1.14	0.61	1.27	0.63	0.46	2.85	1.17	0.65	0.46	1.51	1.00	1.48	0.51	0.52	0.80	1.72		2.85	1.19
	1987	1983	1987	1972	1960	1969	1966	1984	1964	1998	1972	2001	1965	1955	1968	1965	1991	1973	1963	1950	1996	1965	1965	2001	1961	1970	1984	1985	1985	1982		1950	
Dec	1.54	1.92	0.26	2.62	5.20	2.53	0.79	0.40	1.02	1.57	0.72	0.99	0.61	0.56	0.73	0.65	0.77	0.57	0.73	0.71	0.60	1.47	0.52	1.15	1.14	1.68	0.77	1.72	0.90	0.92	1.56	5.20	1.80
	1982	1955	1951	1966	1966	1966	1955	1949	1952	1996	1993	1951	1971	1993	1984	1977	1977	1977	1949	1988	1970	1982	1955	1988	1983	1964	1964	1977	1965	1965	1951	1966	

REPORT OF THE KERN RIVER WATERMASTER

JULY 2002

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2561.04	173,732	87,590	92	1,190	7	645	645	87,590	72,372	11	55	49	0	0	
1	2560.84	172,522	86,980	94	1,107	7	598	614	86,996	71,778	11	51	44	0	0	1
2	2560.65	171,378	86,403	93	1,121	8	645	596	86,370	71,152	11	60	54	0	0	2
3	2560.48	170,358	85,889	106	944	8	544	584	85,896	70,678	12	103	103	0	0	3
4	2560.28	169,162	85,286	126	1,031	8	562	526	85,257	70,039	15	132	132	0	0	4
5	2560.05	167,794	84,596	84	1,070	7	471	508	84,604	69,386	10	156	156	0	0	5
6	2559.85	166,611	84,000	103	977	8	492	479	83,995	68,777	12	193	193	0	0	6
7	2559.64	165,374	83,376	104	985	8	473	471	83,369	68,151	13	184	184	0	0	7
8	2559.41	164,026	82,696	104	1,017	8	449	446	82,686	67,468	13	129	129	0	0	8
9	2559.17	162,626	81,991	92	1,020	8	415	424	81,990	66,772	12	98	98	0	0	9
10	2558.92	161,177	81,260	103	1,027	8	407	411	81,263	66,045	13	133	127	0	0	10
11	2558.69	159,851	80,592	84	988	7	411	406	80,590	65,372	11	100	95	0	0	11
12	2558.46	158,532	79,927	105	953	8	401	400	79,924	64,706	14	99	94	0	0	12
13	2558.27	157,446	79,379	72	855	8	387	374	79,363	64,145	9	72	67	0	0	13
14	2557.99	155,858	78,578	101	1,027	7	334	365	78,593	63,375	13	63	58	0	0	14
15	2557.64	153,886	77,584	82	1,279	8	375	361	77,585	62,367	11	122	117	0	0	15
16	2557.30	151,985	76,626	94	1,231	8	375	359	76,611	61,393	13	100	92	0	0	16
17	2557.01	150,376	75,815	100	1,029	8	326	349	75,823	60,605	14	72	64	0	0	17
18	2556.76	148,999	75,120	91	942	8	346	335	75,117	59,899	13	50	42	0	0	18
19	2556.49	147,521	74,375	81	988	8	332	330	74,370	59,152	11	65	65	0	0	19
20	2556.24	146,161	73,690	70	921	7	313	308	73,680	58,462	10	33	33	0	0	20
21	2555.95	144,592	72,899	94	967	8	278	284	72,895	57,677	14	40	40	0	0	21
22	2555.64	142,928	72,060	90	1,003	8	262	275	72,069	56,851	13	47	47	0	0	22
23	2555.37	141,489	71,334	81	923	8	286	263	71,320	56,102	12	54	47	0	0	23
24	2555.11	140,113	70,640	82	846	8	242	260	70,644	55,426	12	49	42	0	0	24
25	2554.87	138,850	70,004	82	797	8	251	254	70,011	54,793	12	77	70	0	0	25
26	2554.63	137,595	69,371	101	792	8	268	258	69,368	54,150	15	72	66	0	0	26
27	2554.43	136,555	68,847	77	695	8	256	261	68,849	53,631	12	71	64	0	0	27
28	2554.24	135,572	68,351	90	656	8	258	250	68,345	53,127	14	62	55	0	0	28
29	2554.04	134,541	67,831	77	673	8	238	241	67,828	52,610	12	45	25	0	0	29
30	2553.83	133,465	67,289	75	687	8	228	231	67,289	52,071	12	53	32	0	0	30
31	2553.58	132,192	66,647	84	773	8	223	223	66,647	51,429	14	60	39	0	0	31
TOTAL SECOND FOOT DAYS			2,822	29,324	243	11,446	11,446	66,647	51,429	383	2,645	2,474	0	0		
TOTAL ACRE-FEET			5,597	58,163	483	22,703	22,703	132,192	102,008	760	5,246	4,907	0	0		

By: _____ Date: August 20, 2002

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	ENT'L AT 2ND POINT
Previous Day	535	739	7	57	43,929	110
1	514	884	7	59	43,493	100
2	502	837	8	58	43,092	94
3	494	705	8	66	42,807	90
4	454	755	8	78	42,420	72
5	442	756	7	52	42,047	66
6	422	622	8	64	41,775	57
7	417	638	8	65	41,481	54
8	400	731	8	65	41,077	46
9	385	742	8	58	40,654	39
10	376	743	8	65	40,214	35
11	372	743	7	53	39,783	34
12	368	722	8	66	39,355	32
13	350	662	8	45	38,990	24
14	344	855	7	63	38,409	21
15	342	1,052	8	51	37,640	19
16	340	950	8	59	36,963	19
17	333	756	8	62	36,470	16
18	324	720	8	57	36,009	11
19	320	742	8	50	35,529	10
20	305	691	7	44	35,092	3
21	284	728	8	59	34,581	0
22	275	744	8	56	34,048	0
23	263	688	8	50	33,565	0
24	260	637	8	51	33,129	0
25	254	592	8	51	32,732	0
26	258	591	8	63	32,328	0
27	261	501	8	48	32,032	0
28	250	473	8	56	31,745	0
29	241	489	8	48	31,441	0
30	231	499	8	47	31,118	0
31	223	582	8	52	30,699	0
S.F.D.	10,604	21,830	243	1,761	30,699	842
AC.FT.	21,033	43,300	483	3,493	60,891	1,670

TOTAL ACRE-FOOT STORAGE DAYS 2,282,415

BUENA VISTA WATER STORAGE DISTRICT

DAY	FLOW VIA KDWD	FLOW VIA CWD	FLOW FOR KCWA	FLOW FOR A-EWSD	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	133	94	175	0	49	35	28,443
1	77	14	88	0	44	35	28,285
2	72	17	141	0	54	35	28,060
3	67	19	50	0	103	40	27,871
4	73	18	53	0	132	48	27,619
5	70	27	61	0	156	32	27,339
6	79	30	53	0	193	39	27,002
7	75	24	64	0	184	39	26,670
8	78	20	59	0	129	39	26,391
9	82	28	70	0	98	34	26,118
10	75	30	52	0	127	38	25,831
11	79	33	38	0	95	31	25,589
12	75	30	32	0	94	39	25,351
13	70	28	28	0	67	27	25,155
14	55	14	45	0	58	38	24,966
15	73	17	0	20	117	31	24,727
16	72	24	0	93	92	35	24,430
17	79	27	0	103	64	38	24,135
18	75	3	0	102	42	34	23,890
19	72	9	0	100	65	31	23,623
20	71	24	0	102	33	26	23,370
21	78	21	0	100	40	35	23,096
22	97	20	0	95	47	34	22,803
23	93	15	0	80	47	31	22,537
24	93	15	0	59	42	31	22,297
25	111	24	0	0	70	31	22,061
26	112	23	0	0	66	38	21,822
27	113	17	0	0	64	29	21,599
28	112	16	0	0	55	34	21,382
29	143	16	0	0	25	29	21,169
30	142	14	0	0	32	28	20,953
31	136	16	0	0	39	32	20,730
S.F.D.	2,699	633	834	854	2,474	1,061	20,730
AC.FT.	5,353	1,256	1,654	1,693	4,907	2,104	41,117

TOTAL ACRE-FOOT STORAGE DAYS 1,501,231

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed by: NKWSD	ENTITLEMENT Contributed by: BVWSD	FLOW	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day				0	0	0
1				0	0	0
2				0	0	0
3				0	0	0
4				0	0	0
5				0	0	0
6				0	0	0
7				0	0	0
8				0	0	0
9				0	0	0
10				0	0	0
11				0	0	0
12				0	0	0
13				0	0	0
14				0	0	0
15				0	0	0
16				0	0	0
17				0	0	0
18				0	0	0
19				0	0	0
20				0	0	0
21				0	0	0
22				0	0	0
23				0	0	0
24				0	0	0
25				0	0	0
26				0	0	0
27				0	0	0
28				0	0	0
29				0	0	0
30				0	0	0
31				0	0	0
S.F.D.				0	0	0
AC.FT.				0	0	0

TOTAL ACRE-FOOT STORAGE DAYS 0

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
July	1-14	2	BVWSD FLOW - FOR KCWA	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Kern County Water Agency letter agreement dated June 3, 2002.
July	15-24	2	BVWSD FLOW - FOR A-EWSD	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Arvin-Edison Water Storage District/Kern-Tulare Water District exchange agreement dated November 2, 2001.

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

In order of Magnitude — Quantities in acre-feet

YEAR	APR	MAY	JUN	JUL	TOTAL	AVERAGE
1961	**24,137**	**29,980**	24,305	8,952	87,374	19%
1924	28,540	41,722	14,069	8,225	92,556	20%
1977	23,391	25,630	35,655	10,973	95,649	20%
1931	23,440	41,867	24,262	8,493	98,062	21%
1976	25,924	47,151	20,930	14,749	108,754	23%
1990	32,019	38,600	29,345	13,380	113,344	24%
1934	39,919	43,065	21,820	11,341	116,145	25%
1972	28,288	45,965	38,531	14,936	127,720	27%
1959	40,566	39,945	32,061	18,013	130,585	28%
1898	42,248	45,213	32,809	15,033	135,303	29%
1988	39,584	58,350	43,140	20,969	162,043	35%
1960	46,272	58,336	47,181	16,683	168,472	36%
1992	55,448	74,394	32,987	16,324	179,153	38%
1964	42,946	61,521	54,658	23,803	182,928	39%
1994	46,489	67,224	56,223	21,068	191,004	41%
1928	37,757	76,885	60,344	18,716	193,702	41%
1900	28,102	68,295	76,366	24,125	196,888	42%
1949	50,517	84,508	57,685	17,201	209,911	45%
1987	55,236	75,108	56,146	24,918	211,408	45%
1913	42,494	73,561	60,738	34,929	211,722	45%
1899	53,133	51,353	79,178	30,046	213,710	46%
2002	**58,838**	**69,991**	**63,775**	**22,703**	**215,307**	**46%**
1929	39,064	85,995	63,487	30,986	219,532	47%
1966	68,779	82,336	45,431	23,347	219,893	47%
1955	37,567	69,544	86,660	31,014	224,785	48%
1930	53,506	67,851	82,824	28,401	232,582	50%
1926	66,079	98,598	49,530	18,575	232,782	50%
1989	91,380	71,849	49,823	21,378	234,430	50%
1948	43,976	86,108	78,565	31,331	239,980	51%
1971	52,661	66,635	82,707	42,472	244,475	52%
1968	65,584	87,991	64,054	30,690	248,319	53%
1947	60,353	110,325	57,778	21,116	249,572	53%
2001	58,249	124,417	43,033	24,593	250,292	53%
1912	37,246	80,471	100,925	33,170	251,812	54%
1999	55,843	95,199	68,733	32,852	252,627	54%
1981	69,320	91,914	65,817	25,630	252,681	54%
1908	79,320	79,418	60,305	41,851	260,894	56%
1951	48,914	85,039	88,990	38,941	261,884	56%
1939	92,136	92,253	58,400	25,480	268,269	57%
1991	58,092	79,763	100,423	38,265	276,543	59%
1957	38,644	79,355	132,359	41,988	292,346	62%
1894	88,974	98,801	64,564	43,061	295,400	63%
1933	57,265	60,026	125,395	56,898	299,584	64%
1950	76,155	98,483	90,367	34,901	299,906	64%
2000	67,388	129,406	81,396	28,306	306,496	66%
1925	56,408	102,016	96,252	58,437	313,113	67%
1904	59,812	113,205	103,904	39,725	316,646	68%
1970	63,513	110,057	95,700	50,138	319,408	68%
1921	51,723	100,096	120,387	49,119	321,325	69%
1953	70,730	86,019	103,164	69,657	329,570	70%
1923	73,355	120,849	82,528	55,800	332,532	71%
1918	74,513	78,722	136,753	44,828	334,816	72%
1919	86,574	140,215	81,844	34,364	342,997	73%
1935	71,042	103,787	133,634	42,184	350,647	75%
1910	102,883	127,733	79,464	42,046	352,126	75%

YEAR	APR	MAY	JUN	JUL	TOTAL	AVERAGE
1954	101,203	139,719	73,553	39,642	354,117	76%
1905	62,047	117,748	132,766	53,835	366,396	78%
1896	57,864	86,174	146,124	82,760	372,922	80%
1975	46,602	147,001	140,660	51,917	386,180	83%
1902	107,403	109,904	128,853	43,436	389,596	83%
1946	109,658	155,476	85,880	39,733	390,747	84%
1903	74,315	132,097	139,222	53,355	398,989	85%
1944	80,223	150,109	115,862	59,197	405,391	87%
1979	102,079	164,935	106,112	46,733	419,859	90%
1984	91,359	161,613	93,114	77,046	423,132	90%
1985	136,241	146,799	99,858	41,395	424,293	91%
1920	83,370	158,904	137,840	50,699	430,813	92%
1915	80,916	124,506	172,324	77,496	455,242	97%
1965	80,043	131,980	149,357	95,288	456,668	98%
1963	69,412	137,839	163,944	105,384	476,579	102%
1940	118,175	196,465	145,503	50,471	510,614	109%
1962	147,463	135,884	157,253	74,874	515,474	110%
1927	100,362	184,721	161,153	75,481	521,717	111%
1942	112,586	150,036	178,754	81,529	522,905	112%
1956	97,553	159,683	168,876	99,529	525,641	112%
1932	111,273	154,742	166,404	94,013	526,432	113%
1974	114,113	183,733	167,740	69,580	535,166	114%
1917	126,329	165,062	187,638	81,275	560,304	120%
1997	142,909	214,290	142,358	71,919	571,476	122%
1936	157,290	219,404	137,028	67,902	581,624	124%
1901	83,190	186,446	197,792	114,613	582,041	124%
1993	133,993	200,864	162,420	87,414	584,691	125%
1945	131,246	205,509	169,002	91,593	597,350	128%
1996	147,959	225,987	154,883	70,502	599,331	128%
1922	84,407	242,259	202,395	88,649	617,710	132%
1897	173,393	281,639	137,393	61,837	654,262	140%
1907	197,720	199,950	183,995	97,083	678,748	145%
1914	144,934	210,676	201,064	128,338	685,012	146%
1895	162,071	268,635	172,890	91,133	694,729	148%
1943	198,736	254,785	155,650	88,011	697,182	149%
1911	138,113	184,481	222,076	156,498	701,168	150%
1973	110,892	288,652	230,390	93,834	723,768	155%
1982	212,963	254,985	198,748	130,098	796,794	170%
1958	168,105	316,974	230,866	115,724	831,669	178%
1937	183,505	352,050	225,395	91,097	852,047	182%
1986	208,147	293,335	263,794	121,398	886,674	189%
1967	99,509	269,631	311,063	243,802	924,005	197%
1995	143,244	255,046	293,129	237,802	929,221	199%
1938	223,928	315,044	291,880	130,917	961,769	206%
1980	211,608	287,825	282,877	208,715	991,025	212%
1941	124,615	386,666	309,960	174,416	995,657	213%
1978	181,700	363,157	354,825	194,693	1,094,375	234%
1952	222,633	434,769	302,557	159,856	1,119,815	239%
1998	189,663	308,440	371,835	267,435	1,137,373	243%
1909	247,402	382,617	394,086	194,870	1,218,975	261%
1906	173,143	360,234	458,418	399,841	1,391,636	297%
1983	206,473	478,625	571,846	288,866	1,545,810	330%
1916	481,749	472,994	391,700	225,154	1,571,597	336%
1969	378,333	617,968	496,796	254,777	1,747,874	374%
MAX.	481,749	617,968	571,846	399,841	1,747,874	
MIN.	23,391	25,630	14,069	8,225	87,374	
AVG.	99,601	156,442	139,223	72,666	467,932	

REPORT OF THE KERN RIVER WATERMASTER

AUGUST 2002

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2553.58	132,192	66,647	84	773	8	223	223	66,647	51,429	14	60	39	0	0	
1	2553.29	130,725	65,907	94	856	8	218	221	65,910	50,692	15	58	36	0	0	1
2	2553.03	129,419	65,249	83	795	8	228	216	65,240	50,022	14	54	32	0	0	2
3	2552.78	128,172	64,620	84	738	8	201	211	64,621	49,403	14	60	47	0	0	3
4	2552.52	126,883	63,970	93	752	8	203	200	63,968	48,750	16	62	50	0	0	4
5	2552.28	125,701	63,374	81	702	8	195	193	63,370	48,152	14	56	42	0	0	5
6	2552.03	124,478	62,758	86	702	8	180	184	62,758	47,540	15	22	16	0	0	6
7	2551.77	123,215	62,121	80	726	8	177	184	62,128	46,910	14	0	0	0	0	7
8	2551.56	122,201	61,610	56	643	8	196	190	61,611	46,393	10	0	0	0	0	8
9	2551.40	121,432	61,222	68	511	7	198	192	61,217	45,999	12	0	0	0	0	9
10	2551.28	120,857	60,932	79	387	7	183	180	60,924	45,706	14	0	0	0	0	10
11	2551.13	120,142	60,572	80	433	7	160	170	60,574	45,356	14	0	0	0	0	11
12	2550.95	119,288	60,141	81	511	7	168	161	60,136	44,918	15	0	0	0	0	12
13	2550.75	118,343	59,665	83	540	7	154	156	59,662	44,444	15	0	0	0	0	13
14	2550.50	117,169	59,073	85	645	7	145	151	59,076	43,858	16	0	0	0	0	14
15	2550.24	115,956	58,461	90	670	7	155	157	58,466	43,248	17	0	0	0	0	15
16	2549.99	114,798	57,877	84	664	7	171	162	57,873	42,655	16	0	0	0	0	16
17	2549.78	113,831	57,390	71	568	7	159	164	57,391	42,173	14	0	0	0	0	17
18	2549.58	112,916	56,929	72	544	7	162	159	56,927	41,709	14	0	0	0	0	18
19	2549.34	111,825	56,378	77	623	7	156	153	56,373	41,155	15	0	0	0	0	19
20	2549.09	110,695	55,809	90	614	7	142	142	55,804	40,586	18	0	0	0	0	20
21	2548.83	109,529	55,221	80	628	7	127	138	55,227	40,009	16	0	0	0	0	21
22	2548.54	108,238	54,570	64	725	7	145	140	54,571	39,353	13	76	76	0	0	22
23	2548.26	107,002	53,947	77	687	7	148	151	53,951	38,733	16	75	75	0	0	23
24	2548.05	106,081	53,483	63	553	7	159	154	53,482	38,264	13	0	0	0	0	24
25	2547.83	105,122	52,999	75	557	7	155	161	53,004	37,786	16	0	0	0	0	25
26	2547.60	104,127	52,497	71	594	7	170	161	52,493	37,275	15	0	0	0	0	26
27	2547.41	103,309	52,085	59	503	7	157	165	52,089	36,871	13	0	0	0	0	27
28	2547.25	102,624	51,740	62	443	7	167	162	51,739	36,521	13	0	0	0	0	28
29	2547.13	102,112	51,481	55	360	7	163	165	51,482	36,264	12	0	0	0	0	29
30	2547.02	101,644	51,246	57	336	7	165	164	51,246	36,028	12	0	0	0	0	30
31	2546.92	101,221	51,032	63	300	7	156	156	51,032	35,814	14	0	0	0	0	31
TOTAL SECOND FOOT DAYS				2,343	18,310	225	5,263	5,263	51,032	35,814	445	463	374	0	0	
TOTAL ACRE-FEET				4,647	36,317	446	10,439	10,439	101,221	71,037	883	918	741	0	0	

By: _____ Date: September 26, 2002

AUGUST 2002

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	ENT'L AT 2ND POINT	DAY
Previous Day	223	582	8	52	30,699	0	
1	221	640	8	58	30,214	0	1
2	216	613	8	52	29,757	0	2
3	211	569	8	52	29,339	0	3
4	200	605	8	58	28,868	0	4
5	193	587	8	50	28,416	0	5
6	184	615	8	53	27,924	0	6
7	184	605	8	49	27,446	0	7
8	190	507	8	34	27,087	0	8
9	192	433	7	42	26,797	0	9
10	180	319	7	48	26,603	0	10
11	170	370	7	49	26,347	0	11
12	161	439	7	50	26,012	0	12
13	156	452	7	51	25,658	0	13
14	151	509	7	52	25,241	0	14
15	157	499	7	55	24,837	0	15
16	162	546	7	51	24,395	0	16
17	164	493	7	43	24,016	0	17
18	159	463	7	44	24,004	0	18
19	153	536	7	47	23,567	0	19
20	142	534	7	55	23,113	0	20
21	138	515	7	48	22,681	0	21
22	140	518	7	39	22,257	0	22
23	151	533	7	46	21,822	0	23
24	154	481	7	38	21,450	0	24
25	161	366	7	45	21,193	0	25
26	161	393	7	43	20,911	0	26
27	165	320	7	36	20,713	0	27
28	162	383	7	37	20,448	0	28
29	165	291	7	33	20,282	0	29
30	164	248	7	34	20,157	0	30
31	156	235	7	38	20,033	0	31
S.F.D.	5,263	14,617	225	1,430	20,033	0	S.F.D.
AC.FT.	10,439	28,992	446	2,836	39,736	0	AC.FT.

TOTAL ACRE-FOOT STORAGE DAYS 1,510,587

BUENA VISTA WATER STORAGE DISTRICT

DAY	FLOW VIA KDWD	FLOW VIA CWD	FLOW FOR KCWA	FLOW VIA CARMEL KDWD	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE	DAY
Previous Day	136	16	0	0	39	32	20,730	
1	124	56	0	0	36	36	20,478	1
2	108	42	0	0	32	31	20,265	2
3	84	38	0	0	47	32	20,064	3
4	61	36	0	0	50	35	19,882	4
5	37	36	0	0	42	31	19,736	5
6	22	49	0	0	16	33	19,616	6
7	30	46	45	0	0	31	19,464	7
8	25	46	65	0	0	22	19,306	8
9	46	32	0	0	0	26	19,202	9
10	38	30	0	0	0	31	19,103	10
11	33	30	0	0	0	31	19,009	11
12	41	31	0	0	0	31	18,906	12
13	44	44	0	0	0	32	18,786	13
14	51	46	39	0	0	33	18,617	14
15	61	53	57	0	0	35	18,411	15
16	65	53	0	0	0	33	18,260	16
17	43	32	0	0	0	28	18,157	17
18	49	32	0	0	0	28	17,705	18
19	54	33	0	0	0	30	17,588	19
20	47	33	0	0	0	35	17,473	20
21	45	32	36	0	0	32	17,328	21
22	40	40	51	0	76	25	17,096	22
23	40	39	0	0	75	31	16,911	23
24	30	42	0	0	0	25	16,814	24
25	30	41	0	120	0	30	16,593	25
26	40	41	0	120	0	28	16,364	26
27	52	31	0	100	0	23	16,158	27
28	44	9	0	7	0	25	16,073	28
29	69	0	0	0	0	22	15,982	29
30	81	7	0	0	0	23	15,871	30
31	60	5	0	0	0	25	15,781	31
S.F.D.	1,594	1,085	293	347	374	913	15,781	S.F.D.
AC.FT.	3,162	2,152	582	688	741	1,811	31,301	AC.FT.

TOTAL ACRE-FOOT STORAGE DAYS 1,112,725

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed by: NKWSD	ENTITLEMENT Contributed by: BVWSD	FLOW	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	DAY
Previous Day				0	0	0	
1				0	0	0	1
2				0	0	0	2
3				0	0	0	3
4				0	0	0	4
5				0	0	0	5
6				0	0	0	6
7				0	0	0	7
8				0	0	0	8
9				0	0	0	9
10				0	0	0	10
11				0	0	0	11
12				0	0	0	12
13				0	0	0	13
14				0	0	0	14
15				0	0	0	15
16				0	0	0	16
17				0	0	0	17
18				0	0	0	18
19				0	0	0	19
20				0	0	0	20
21				0	0	0	21
22				0	0	0	22
23				0	0	0	23
24				0	0	0	24
25				0	0	0	25
26				0	0	0	26
27				0	0	0	27
28				0	0	0	28
29				0	0	0	29
30				0	0	0	30
31				0	0	0	31
S.F.D.				0	0	0	S.F.D.
AC.FT.				0	0	0	AC.FT.

TOTAL ACRE-FOOT STORAGE DAYS 0

AUGUST 2002

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
August	1-31	2	BVWSD FLOW - FOR KCWA	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Kern County Water Agency letter agreement dated June 3, 2002.
August	25-28	2	BVWSD FLOW - CARMEL VIA KDWD	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Henry Miller Water District letter agreement dated August 29, 2002.
August	18	2	BVWSD - RESERVOIR STORAGE NKWSD - RESERVOIR STORAGE	Reflects transfer of 680 acre-feet (343 s.f.d.) from BUENA VISTA WATER STORAGE DISTRICT to NORTH KERN WATER STORAGE DISTRICT on behalf of ID4 of the Kern County Water Agency pursuant to terms of BVWSD/KCWA letter agreement dated September 24, 2002.

2002 APRIL-JULY UNIMPAIRED RUNOFF

Central Valley Streams

April-July Flows
in 1000 Acre-feet

Watershed	(1) 50-Year Average	Median Forecast as of Feb. 1	Mar. 1	Apr. 1	May 1	(2) 2002 Actual	% of Average
Sacramento River above Bend Bridge	2,521	2,320	2,160	2,050	1,850	1,760	70%
Feather River at Oroville Reservoir	1,870	1,730	1,450	1,470	1,300	1,099	59%
Yuba River at Smartville	960	960	850	900	800	742	77%
American River at Folsom Reservoir	1,282	1,200	1,050	1,100	1,010	962	75%
Cosumnes River at Michigan Bar	130	115	95	95	75	68	52%
Mokelumne River at Pardee Reservoir	469	460	390	410	380	342	73%
Stanislaus River at Melones Reservoir	716	680	580	600	580	541	76%
Tuolumne River at Don Pedro Reservoir	1,230	1,170	990	1,000	940	921	75%
Merced River at Lake McClure	633	590	470	470	420	429	68%
San Joaquin River at Millerton Lake	1,262	1,190	960	950	860	846	67%
Kings River at Pine Flat Reservoir	1,234	1,200	950	950	860	839	68%
Kaweah River at Terminus Reservoir	290	265	210	216	195	196	68%
Tule River at Success Reservoir	65	50	38	36	28	28	43%
KERN RIVER AT ISABELLA RESERVOIR	**470**	**340**	**270**	**255**	**210**	**215**	**46%**

(1) All 50-year averages are based on data for water years 1951-2000

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

REPORT OF THE KERN RIVER WATERMASTER

Quantities in S.F.D. except where noted

SEPTEMBER 2002

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED F LOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2546.92	101,221	51,032	63	300	7	156	156	51,032	35,814	14	0	0	0	0	
1	2546.84	100,882	50,861	57	256	6	148	146	50,859	35,641	13	0	0	0	0	1
2	2546.74	100,461	50,649	78	269	6	141	135	50,641	35,423	17	0	0	0	0	2
3	2546.62	99,957	50,395	74	290	6	116	129	50,400	35,182	17	0	0	0	0	3
4	2546.51	99,495	50,162	71	287	5	130	125	50,162	34,944	16	0	0	0	0	4
5	2546.43	99,162	49,994	38	254	6	130	127	49,991	34,773	9	0	0	0	0	5
6	2546.43	98,787	49,805	44	261	6	122	134	49,814	34,596	10	0	0	0	0	6
7	2546.27	98,495	49,658	56	237	5	151	137	49,653	34,435	13	0	0	0	0	7
8	2546.21	98,247	49,533	52	205	6	138	134	49,524	34,306	12	0	0	0	0	8
9	2546.14	97,957	49,387	53	202	5	114	130	49,394	34,176	12	0	0	0	0	9
10	2546.08	97,709	49,262	61	197	6	139	126	49,256	34,038	14	0	0	0	0	10
11	2546.00	97,380	49,096	68	218	5	125	132	49,097	33,879	16	0	0	0	0	11
12	2545.91	97,009	48,909	64	249	6	132	125	48,903	33,685	15	0	0	0	0	12
13	2545.82	96,640	48,723	61	237	5	117	120	48,720	33,502	14	0	0	0	0	13
14	2545.74	96,313	48,558	59	211	6	111	120	48,564	33,346	14	0	0	0	0	14
15	2545.65	95,945	48,372	55	259	5	133	125	48,370	33,152	13	0	0	0	0	15
16	2545.52	95,416	48,106	60	332	6	132	132	48,104	32,886	14	0	0	0	0	16
17	2545.37	94,808	47,799	63	369	5	130	133	47,800	32,582	15	0	0	0	0	17
18	2545.24	94,284	47,535	53	342	6	137	134	47,533	32,315	13	0	0	0	0	18
19	2545.10	93,721	47,251	49	363	6	134	137	47,252	32,034	12	0	0	0	0	19
20	2544.95	93,121	46,949	50	388	5	141	141	46,950	31,732	12	0	0	0	0	20
21	2544.81	92,563	46,667	57	366	6	147	143	46,664	31,446	14	0	0	0	0	21
22	2544.68	92,048	46,408	55	341	5	142	141	46,404	31,186	14	0	0	0	0	22
23	2544.57	91,613	46,188	49	299	5	133	135	46,186	30,968	12	0	0	0	0	23
24	2544.47	91,219	45,990	43	278	6	129	133	45,992	30,774	11	0	0	0	0	24
25	2544.37	90,826	45,791	65	265	5	136	125	45,782	30,564	16	0	0	0	0	25
26	2544.28	90,473	45,613	55	228	6	111	123	45,616	30,398	14	0	0	0	0	26
27	2544.17	90,044	45,397	62	270	5	121	117	45,396	30,178	16	0	0	0	0	27
28	2544.08	89,693	45,220	44	245	6	118	117	45,218	30,000	11	0	0	0	0	28
29	2544.00	89,383	45,064	47	217	5	113	115	45,064	29,846	12	0	0	0	0	29
30	2543.92	89,073	44,908	40	231	6	121	121	44,908	29,690	10	0	0	0	0	30
TOTAL SECOND FOOT DAYS				1,683	8,166	167	3,892	3,892	44,908	29,690	401	0	0	0	0	
TOTAL ACRE-FEET				3,338	16,197	332	7,720	7,720	89,073	58,889	795	0	0	0	0	

By: _____ Date: October 17, 2002

SEPTEMBER 2002

	NORTH KERN WATER STORAGE DISTRICT					BUENA VISTA WATER STORAGE DISTRICT						HACIENDA WATER DISTRICT						
							FLOW					ENTITLEMENT						
	ENT'L	FLOW	FLOW ABOVE	RESERVOIR		ENT'L	VIA	VIA	AT 2ND	RESERVOIR		Contributed by:	FLOW	FLOW ABOVE	RESERVOIR		
DAY	AT 1ST POINT	AT 1ST POINT	1ST POINT	LOSS	STORAGE	AT 1ST POINT	KDWD	CWD	POINT	LOSS	STORAGE	NKWSD BVWSD		1ST POINT	LOSS	STORAGE	DAY
Previous Day	156	235	7	38	20,033	0	60	5	0	25	15,781			0	0	0	
1	146	193	6	34	19,946	0	43	20	0	23	15,695			0	0	0	1
2	135	213	6	47	19,815	0	39	17	0	31	15,608			0	0	0	2
3	129	222	6	45	19,671	0	55	13	0	29	15,511			0	0	0	3
4	125	200	5	43	19,548	0	81	6	0	28	15,396			0	0	0	4
5	127	197	6	23	19,449	0	51	6	0	15	15,324			0	0	0	5
6	134	203	6	27	19,347	0	51	7	0	17	15,249			0	0	0	6
7	137	200	5	34	19,245	0	30	7	0	22	15,190			0	0	0	7
8	134	180	6	31	19,162	0	25	0	0	21	15,144			0	0	0	8
9	130	173	5	32	19,082	0	29	0	0	21	15,094			0	0	0	9
10	126	176	6	37	18,989	0	21	0	0	24	15,049			0	0	0	10
11	132	196	5	41	18,879	0	19	3	0	27	15,000			0	0	0	11
12	125	221	6	39	18,738	0	25	3	0	25	14,947			0	0	0	12
13	120	205	5	37	18,611	0	32	0	0	24	14,891			0	0	0	13
14	120	184	6	35	18,506	0	27	0	0	24	14,840			0	0	0	14
15	125	234	5	33	18,359	0	25	0	0	22	14,793			0	0	0	15
16	132	286	6	36	18,163	0	30	16	0	24	14,723			0	0	0	16
17	133	271	5	38	17,982	0	20	78	0	25	14,600			0	0	0	17
18	134	281	6	32	17,797	0	22	39	0	21	14,518			0	0	0	18
19	137	285	6	29	17,614	0	33	45	0	20	14,420			0	0	0	19
20	141	318	5	30	17,402	0	26	44	0	20	14,330			0	0	0	20
21	143	308	6	34	17,197	0	18	40	0	23	14,249			0	0	0	21
22	141	283	5	33	17,017	0	19	39	0	22	14,169			0	0	0	22
23	135	221	5	29	16,897	0	26	52	0	20	14,071			0	0	0	23
24	133	195	6	26	16,803	0	26	57	0	17	13,971			0	0	0	24
25	125	201	5	39	16,683	0	26	38	0	26	13,881			0	0	0	25
26	123	195	6	33	16,572	0	20	13	0	22	13,826			0	0	0	26
27	117	243	5	37	16,404	0	20	7	0	25	13,774			0	0	0	27
28	117	216	6	26	16,273	0	19	10	0	18	13,727			0	0	0	28
29	115	191	5	28	16,164	0	17	9	0	19	13,682			0	0	0	29
30	121	205	6	24	16,050	0	16	10	0	16	13,640			0	0	0	30
S.F.D.	3,892	6,696	167	1,012	16,050	0	891	579	0	671	13,640			0	0	0	S.F.D.
AC.FT.	7,720	13,281	332	2,007	31,834	0	1,767	1,149	0	1,331	27,055			0	0	0	AC.FT.

TOTAL ACRE-FOOT STORAGE DAYS 1,075,765

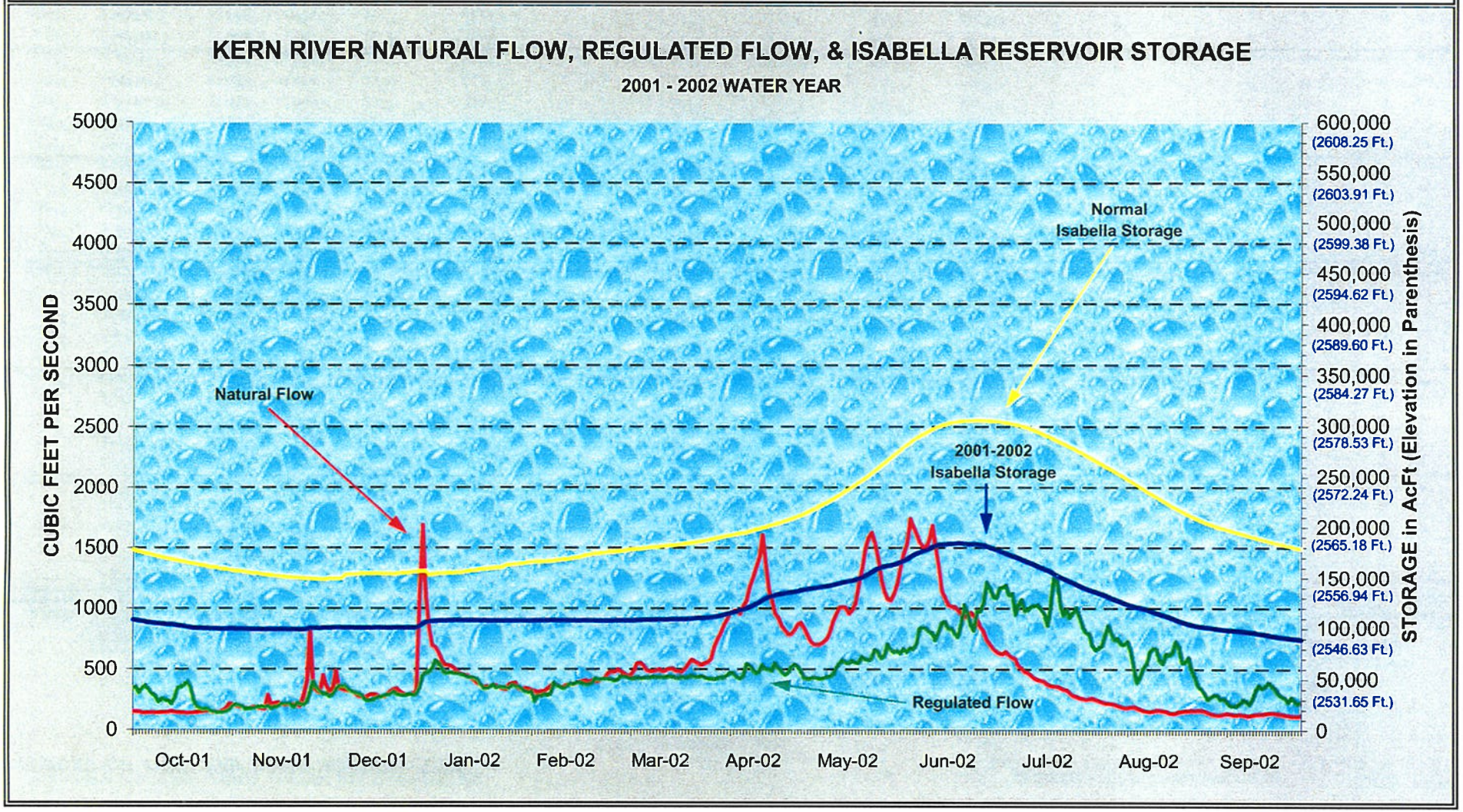
TOTAL ACRE-FOOT STORAGE DAYS 871,362

TOTAL ACRE-FOOT STORAGE DAYS 0

SEPTEMBER 2002

*WATERMASTER NOTES *** KERN RIVER BULLETIN*

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



REPORT OF THE KERN RIVER WATERMASTER

Quantities in S.F.D. except where noted

OCTOBER 2002

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	MIDNIGHT STORAGE S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	SECOND POINT GROUP FLOW AT 2ND POINT FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2543.92	89,073	44,908	40	231	6	121	121	44,908	29,690	10	0	0	0	0	
1	2543.85	88,802	44,771	33	232	6	134	128	44,765	29,547	8	0	0	0	0	1
2	2543.78	88,532	44,635	21	227	5	117	129	44,641	29,423	5	0	0	0	0	2
3	2543.72	88,302	44,519	27	220	5	136	136	44,525	29,307	7	0	0	0	0	3
4	2543.68	88,148	44,441	24	204	6	156	152	44,443	29,225	6	0	0	0	0	4
5	2543.65	88,032	44,383	41	176	5	164	163	44,384	29,166	11	0	0	0	0	5
6	2543.62	87,917	44,325	50	173	5	170	164	44,320	29,102	13	0	0	0	0	6
7	2543.56	87,687	44,209	50	220	5	159	160	44,205	28,987	13	0	0	0	0	7
8	2543.48	87,382	44,055	46	254	5	151	154	44,054	28,836	12	0	0	0	0	8
9	2543.39	87,039	43,882	48	271	6	152	153	43,882	28,664	13	0	0	0	0	9
10	2543.29	86,658	43,690	64	278	5	155	156	43,691	28,473	17	0	0	0	0	10
11	2543.21	86,356	43,538	42	266	5	161	151	43,529	28,311	11	0	0	0	0	11
12	2543.14	86,091	43,404	34	233	4	137	148	43,406	28,188	9	0	0	0	0	12
13	2543.08	85,864	43,290	31	226	4	147	143	43,288	28,070	8	0	0	0	0	13
14	2543.00	85,564	43,139	30	259	5	143	150	43,144	27,926	8	0	0	0	0	14
15	2542.92	85,263	42,987	37	271	4	160	150	42,982	27,764	10	0	0	0	0	15
16	2542.84	84,963	42,836	40	255	4	148	143	42,826	27,608	11	0	0	0	0	16
17	2542.77	84,701	42,703	40	210	4	121	141	42,713	27,495	11	0	0	0	0	17
18	2542.72	84,515	42,610	31	213	4	155	143	42,608	27,390	8	0	0	0	0	18
19	2542.67	84,329	42,516	34	208	5	153	144	42,505	27,287	9	0	0	0	0	19
20	2542.61	84,105	42,403	22	212	4	125	142	42,409	27,191	6	0	0	0	0	20
21	2542.56	83,920	42,310	18	218	4	147	134	42,303	27,085	5	0	0	0	0	21
22	2542.50	83,698	42,198	22	215	4	129	137	42,199	26,981	6	0	0	0	0	22
23	2542.44	83,476	42,086	26	216	4	134	134	42,087	26,869	7	0	0	0	0	23
24	2542.38	83,254	41,974	30	215	5	138	137	41,974	26,756	8	0	0	0	0	24
25	2542.33	83,070	41,881	22	206	4	139	135	41,877	26,659	6	0	0	0	0	25
26	2542.29	82,922	41,807	19	180	4	129	140	41,814	26,596	5	0	0	0	0	26
27	2542.26	82,812	41,751	21	181	5	151	140	41,747	26,529	6	0	0	0	0	27
28	2542.21	82,629	41,659	33	195	4	140	149	41,664	26,446	9	0	0	0	0	28
29	2542.17	82,482	41,585	36	191	4	157	147	41,580	26,362	10	0	0	0	0	29
30	2542.14	82,372	41,529	37	158	5	144	149	41,529	26,311	10	0	0	0	0	30
31	2542.12	82,299	41,492	40	148	4	155	155	41,492	26,274	11	0	0	0	0	31
TOTAL SECOND FOOT DAYS				1,049	6,731	143	4,507	4,507	41,492	26,274	279	0	0	0	0	
TOTAL ACRE-FEET				2,081	13,351	284	8,939	8,939	82,299	52,115	553	0	0	0	0	

By: _____ Date: November 22, 2002

OCTOBER 2002

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	121	205	6	24	16,050
1	128	203	6	20	15,949
2	129	192	5	12	15,869
3	136	182	5	16	15,802
4	152	168	6	14	15,766
5	163	141	5	24	15,759
6	164	140	5	30	15,748
7	160	177	5	30	15,696
8	154	207	5	27	15,611
9	153	223	6	29	15,506
10	156	234	5	38	15,385
11	151	217	5	25	15,289
12	148	193	4	20	15,220
13	143	195	4	18	15,146
14	150	236	5	18	15,037
15	150	227	4	22	14,934
16	143	192	4	24	14,857
17	141	151	4	24	14,819
18	143	160	4	18	14,780
19	144	156	5	20	14,743
20	142	159	4	13	14,709
21	134	161	4	11	14,667
22	137	171	4	13	14,616
23	134	173	4	16	14,557
24	137	171	5	18	14,500
25	135	164	4	13	14,454
26	140	141	4	11	14,438
27	140	144	5	13	14,416
28	149	155	4	20	14,386
29	147	146	4	22	14,361
30	149	136	5	22	14,347
31	155	130	4	24	14,344
S.F.D.	4,507	5,445	143	625	14,344
AC.FT.	8,939	10,800	284	1,240	28,452

TOTAL ACRE-FOOT STORAGE DAYS 923,724

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW VIA KDWD	FLOW VIA CWD	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	16	10	0	16	13,640
1	0	16	13	0	13	13,598
2	0	19	16	0	9	13,554
3	0	21	17	0	11	13,505
4	0	20	16	0	10	13,459
5	0	15	20	0	17	13,407
6	0	18	15	0	20	13,354
7	0	25	18	0	20	13,291
8	0	30	17	0	19	13,225
9	0	31	17	0	19	13,158
10	0	28	16	0	26	13,088
11	0	32	17	0	17	13,022
12	0	23	17	0	14	12,968
13	0	13	18	0	13	12,924
14	0	7	16	0	12	12,889
15	0	7	37	0	15	12,830
16	0	7	56	0	16	12,751
17	0	7	52	0	16	12,676
18	0	1	52	0	13	12,610
19	0	1	51	0	14	12,544
20	0	1	52	0	9	12,482
21	0	6	51	0	7	12,418
22	0	9	35	0	9	12,365
23	0	9	34	0	10	12,312
24	0	9	35	0	12	12,256
25	0	8	34	0	9	12,205
26	0	5	34	0	8	12,158
27	0	2	35	0	8	12,113
28	0	6	34	0	13	12,060
29	0	11	34	0	14	12,001
30	0	5	17	0	15	11,964
31	0	6	12	0	16	11,930
S.F.D.	0	398	888	0	424	11,930
AC.FT.	0	790	1,761	0	841	23,663

TOTAL ACRE-FOOT STORAGE DAYS 783,703

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed by: NKWSD	ENTITLEMENT Contributed by: BVWSD	FLOW	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day				0	0	0
1				0	0	0
2				0	0	0
3				0	0	0
4				0	0	0
5				0	0	0
6				0	0	0
7				0	0	0
8				0	0	0
9				0	0	0
10				0	0	0
11				0	0	0
12				0	0	0
13				0	0	0
14				0	0	0
15				0	0	0
16				0	0	0
17				0	0	0
18				0	0	0
19				0	0	0
20				0	0	0
21				0	0	0
22				0	0	0
23				0	0	0
24				0	0	0
25				0	0	0
26				0	0	0
27				0	0	0
28				0	0	0
29				0	0	0
30				0	0	0
31				0	0	0
S.F.D.				0	0	0
AC.FT.				0	0	0

TOTAL ACRE-FOOT STORAGE DAYS 0

OCTOBER 2002

WATERMASTER NOTES *** KERN RIVER BULLETIN

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

TABLE OF ABSORPTION QUANTITIES WITHIN HISTORIC KERN RIVER SERVICE AREA

KERN RIVER WATER

2002 WATER YEAR

Quantities in acre-feet

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
+	Kern River Natural Flow	9,142	15,293	24,869	27,533	21,072	31,603	58,838	69,991	63,775	22,703	10,439	7,720	362,978
-	Isabella Reservoir Evaporation	2,539	1,115	524	541	928	1,261	2,146	3,634	5,581	5,597	4,647	3,338	31,851
-	Into Isabella Storage	0	797	5,486	1,581	132	3,666	28,094	31,282	3,075	0	0	0	74,113
+	From Isabella Storage	9,239	0	0	0	0	0	0	0	0	41,540	30,971	12,147	93,897
-	Kern River via Kern River/ California Aqueduct Intertie	0	0	0	0	0	0	0	0	0	0	0	0	0
=	Monthly Absorption within Kern River Service Area	15,842	13,381	18,859	25,411	20,012	26,676	28,598	35,075	55,119	58,646	36,763	16,529	350,911
	Accumulative Absorption within Kern River Service Area	15,842	29,223	48,082	73,493	93,505	120,181	148,779	183,854	238,973	297,619	334,382	350,911	

REPORT OF THE KERN RIVER WATERMASTER

Quantities in S.F.D. except where noted

NOVEMBER 2002

	ISABELLA RESERVOIR								MEAN STORAGE				SECOND POINT GROUP FLOW AT 2ND POINT			
	ELEVATION	MIDNIGHT STORAGE			FIRST POINT REGULATED	FLOW ABOVE	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE	COMPUTED 1ST POINT NATURAL	Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)		KERN COUNTY RECREATION	TOTAL FLOW AT SECOND	KERN	FRIANT-	FRIANT-KERN	
DAY	(FEET)	ACRE-FEET	S.F.D.	LOSS	F LOW	1ST PT.	1ST POINT	FLOW	TOTAL	IRRIGATION	POOL LOSS	POINT	RIVER	KERN	INFLOW	DAY
Previous Day	2542.12	82,299	41,492	40	148	4	155	155	41,492	26,274	11	0	0	0	0	
1	2542.12	82,299	41,492	22	147	4	173	167	41,486	26,268	6	0	0	0	0	1
2	2542.11	82,262	41,474	21	148	3	154	161	41,475	26,257	6	0	0	0	0	2
3	2542.10	82,226	41,456	22	148	3	155	155	41,457	26,239	6	0	0	0	0	3
4	2542.09	82,189	41,437	28	143	4	156	152	41,434	26,216	8	0	0	0	0	4
5	2542.07	82,116	41,400	28	151	3	145	147	41,399	26,181	8	0	0	0	0	5
6	2542.05	82,043	41,363	22	153	3	141	171	41,392	26,174	6	0	0	0	0	6
7	2542.08	82,153	41,419	6	163	3	228	199	41,419	26,201	2	0	0	0	0	7
8	2546.28	98,537	49,679	2	279	1	8,542	8,542	49,679	34,461	0	0	0	0	0	8
9	2550.81	118,625	59,807	11	487	1	10,627	10,627	59,807	44,589	2	0	0	0	0	9
10	2552.02	124,429	62,733	29	356	1	3,312	3,312	62,733	47,515	5	0	0	0	0	10
11	2552.64	127,477	64,270	20	389	1	1,947	1,947	64,270	49,052	3	0	0	0	0	11
12	2552.91	128,820	64,947	20	454	1	1,152	1,152	64,947	49,729	3	0	0	0	0	12
13	2553.08	129,670	65,375	30	581	2	1,041	1,041	65,375	50,157	5	0	0	0	0	13
14	2553.27	130,624	65,856	28	430	1	940	940	65,856	50,638	5	0	0	0	0	14
15	2553.39	131,230	66,162	41	393	2	742	742	66,162	50,944	7	0	0	0	0	15
16	2553.49	131,736	66,417	18	391	1	665	664	66,416	51,198	3	0	0	0	0	16
17	2553.58	132,192	66,647	41	391	1	663	643	66,626	51,408	7	0	0	0	0	17
18	2553.65	132,548	66,826	23	398	2	602	619	66,822	51,604	4	0	0	0	0	18
19	2553.72	132,905	67,006	25	387	1	593	601	67,010	51,792	4	0	0	0	0	19
20	2553.79	133,261	67,186	39	387	1	607	587	67,170	51,952	6	0	0	0	0	20
21	2553.84	133,516	67,314	27	404	1	560	562	67,300	52,082	4	0	0	0	0	21
22	2553.88	133,721	67,418	31	383	1	519	532	67,417	52,199	5	0	0	0	0	22
23	2553.92	133,926	67,521	31	383	1	518	517	67,519	52,301	5	0	0	0	0	23
24	2553.96	134,131	67,624	23	385	2	513	507	67,616	52,398	4	0	0	0	0	24
25	2554.99	134,285	67,702	29	382	1	490	477	67,681	52,463	5	0	0	0	0	25
26	2553.99	134,285	67,702	41	386	1	428	447	67,700	52,482	6	0	0	0	0	26
27	2553.99	134,285	67,702	37	385	1	423	421	67,698	52,480	6	0	0	0	0	27
28	2553.99	134,285	67,702	31	380	1	412	413	67,699	52,481	5	0	0	0	0	28
29	2554.00	134,337	67,728	13	363	1	403	406	67,728	52,510	2	0	0	0	0	29
30	2554.04	134,541	67,831	11	288	2	404	404	67,831	52,613	2	0	0	0	0	30
TOTAL SECOND FOOT DAYS				750	10,115	51	37,255	37,255	67,831	52,613	140	0	0	0	0	
TOTAL ACRE-FEET				1,488	20,063	102	73,894	73,894	134,541	104,357	278	0	0	0	0	

By: _____ Date: December 23, 2002

NOVEMBER 2002

NORTH KERN WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	155	130	4	24	14,344
1	167	138	4	13	14,356
2	161	140	3	13	14,361
3	155	138	3	13	14,362
4	152	128	4	17	14,365
5	147	139	3	17	14,353
6	171	141	3	13	14,367
7	199	147	3	4	14,412
8	6,302	246	1	1	20,466
9	7,724	383	1	7	27,799
10	2,736	324	1	19	30,191
11	1,805	376	1	13	31,606
12	1,152	451	1	13	32,293
13	1,041	580	2	20	32,732
14	940	430	1	19	33,222
15	742	393	2	28	33,541
16	664	391	1	12	33,801
17	643	391	1	28	34,024
18	619	398	2	16	34,227
19	601	387	1	17	34,423
20	587	387	1	26	34,596
21	562	395	1	18	34,744
22	532	378	1	21	34,876
23	517	337	1	21	35,034
24	507	330	2	16	35,193
25	477	331	1	20	35,318
26	447	367	1	28	35,369
27	421	376	1	25	35,388
28	413	371	1	21	35,408
29	406	356	1	9	35,448
30	404	285	2	8	35,557
S.F.D.	31,394	9,634	51	496	35,557
AC.FT.	62,269	19,110	102	984	70,527

TOTAL ACRE-FOOT STORAGE DAYS 1,717,352

BUENA VISTA WATER STORAGE DISTRICT

DAY	ENT'L AT 1ST POINT	FLOW VIA KDWD	FLOW VIA CWD	FLOW PIONEER PROJECT	FLOW AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day	0	6	12	0	0	16	11,930
1	0	0	9	0	0	9	11,912
2	0	0	8	0	0	8	11,896
3	0	0	10	0	0	9	11,877
4	0	0	15	0	0	11	11,851
5	0	0	12	0	0	11	11,828
6	0	0	12	0	0	9	11,807
7	0	0	16	0	0	2	11,789
8	2,240	0	0	33	0	1	13,995
9	2,903	0	1	103	0	4	16,790
10	576	0	0	32	0	10	17,324
11	142	0	0	13	0	7	17,446
12	0	0	3	0	0	7	17,436
13	0	0	1	0	0	10	17,425
14	0	0	0	0	0	9	17,416
15	0	0	0	0	0	13	17,403
16	0	0	0	0	0	6	17,397
17	0	0	0	0	0	13	17,384
18	0	0	0	0	0	7	17,377
19	0	0	0	0	0	8	17,369
20	0	0	0	0	0	13	17,356
21	0	9	0	0	0	9	17,338
22	0	4	1	0	0	10	17,323
23	0	5	41	0	0	10	17,267
24	0	12	43	0	0	7	17,205
25	0	10	41	0	0	9	17,145
26	0	12	7	0	0	13	17,113
27	0	9	0	0	0	12	17,092
28	0	9	0	0	0	10	17,073
29	0	7	0	0	0	4	17,062
30	0	3	0	0	0	3	17,056
S.F.D.	5,861	80	220	181	0	254	17,056
AC.FT.	11,625	159	435	359	0	504	33,830

TOTAL ACRE-FOOT STORAGE DAYS 945,623

HACIENDA WATER DISTRICT

DAY	ENTITLEMENT Contributed by: NKWSD	ENTITLEMENT Contributed by: BVWSD	FLOW	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE
Previous Day				0	0	0
1				0	0	0
2				0	0	0
3				0	0	0
4				0	0	0
5				0	0	0
6				0	0	0
7				0	0	0
8				0	0	0
9				0	0	0
10				0	0	0
11				0	0	0
12				0	0	0
13				0	0	0
14				0	0	0
15				0	0	0
16				0	0	0
17				0	0	0
18				0	0	0
19				0	0	0
20				0	0	0
21				0	0	0
22				0	0	0
23				0	0	0
24				0	0	0
25				0	0	0
26				0	0	0
27				0	0	0
28				0	0	0
29				0	0	0
30				0	0	0
S.F.D.				0	0	0
AC.FT.				0	0	0

TOTAL ACRE-FOOT STORAGE DAYS 0

NOVEMBER 2002

WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
November	8-11	2	BVWSD FLOW - PIONEER PROJECT	Delivered as per terms of Paragraph 5 (d) of the December 18, 1996 Pioneer Project Joint Operating Agreement.

TOP TEN DAILY PRECIPITATION EVENTS BY MONTH
ISABELLA LAKE, CALIFORNIA

OCTOBER 1, 1949 - DECEMBER 23, 2002

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
Rank	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date
#1	0.96	10/17/63	2.85	11/20/50	5.20	12/05/66	2.40	01/16/96	3.40	02/01/60	1.72	03/04/91	1.45	04/02/74	0.75	05/26/99	0.50	06/08/72	0.88	07/16/84	1.01	08/08/63	3.09	09/30/76
#2	0.84	10/29/74	**2.63**	**11/07/02**	2.62	12/04/66	2.21	01/04/95	2.24	02/10/78	1.50	03/01/91	0.99	04/04/58	0.75	05/19/57	0.41	06/07/87	0.45	07/13/84	0.80	08/02/66	1.25	09/06/78
#3	0.82	10/16/63	**2.50**	**11/08/02**	2.53	12/06/66	2.15	01/25/69	2.13	02/19/96	1.30	03/02/89	0.88	04/30/51	0.62	05/09/77	0.39	06/15/95	0.42	07/15/84	0.62	08/18/77	1.18	09/11/75
#4	0.73	10/20/79	1.72	11/30/82	1.92	12/02/55	2.10	01/16/52	2.05	02/14/98	1.29	03/08/86	0.87	04/28/53	0.49	05/06/64	0.39	06/09/77	0.31	07/31/65	0.54	08/24/71	0.98	09/29/76
#5	0.69	10/08/74	1.48	11/26/70	1.72	12/28/77	1.95	01/26/56	2.04	02/06/50	1.29	03/08/68	0.75	04/02/68	0.48	05/12/98	0.37	06/04/93	0.30	07/22/88	0.51	08/15/84	0.86	09/19/67
#6	0.62	10/16/84	1.27	11/17/91	1.68	12/26/64	1.63	01/23/83	2.02	02/09/78	1.19	03/10/95	0.72	04/03/58	0.44	05/01/55	0.30	06/17/69	0.29	07/17/67	0.48	08/12/65	0.83	09/11/76
#7	0.53	10/26/91	1.19	11/30/70	1.57	12/10/96	1.58	01/25/52	1.89	02/15/54	1.19	03/01/83	0.68	04/16/76	0.41	05/27/71	0.28	06/11/63	0.28	07/23/86	0.41	08/20/83	0.77	09/19/63
#8	0.48	10/29/81	1.17	11/21/96	1.56	12/31/51	1.52	01/19/69	1.71	02/23/98	1.13	03/26/85	0.67	04/11/99	0.41	05/10/56	0.25	06/05/93	0.23	07/30/84	0.40	08/19/61	0.62	09/01/67
#9	0.45	10/30/92	1.15	11/24/84	1.54	12/01/82	1.50	01/10/01	1.65	02/25/69	1.05	03/17/52	0.65	04/13/56	0.36	05/04/98	0.24	06/12/63	0.23	07/10/50	0.35	08/10/61	0.55	09/25/79
#10	0.45	10/01/83	1.14	11/15/68	1.54	12/04/74	1.46	01/12/80	1.58	02/12/86	1.02	03/24/83	0.62	04/10/65	0.34	05/04/60	0.21	06/01/67	0.22	07/28/69	0.33	08/18/83	0.53	09/16/89

REPORT OF THE KERN RIVER WATERMASTER

Quantities in S.F.D. except where noted

DECEMBER 2002

DAY	ISABELLA RESERVOIR ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET	S.F.D.	LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS +1ST POINT +FLOW ABOVE 1ST POINT	COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT) TOTAL	IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT KERN RIVER	FRIANT-KERN	FRIANT-KERN INFLOW	DAY
Previous Day	2554.04	134,541	67,831	11	288	2	404	404	67,831	52,613	2	0	0	0	0	
1	2554.07	134,695	67,909	12	361	2	453	431	67,887	52,669	2	0	0	0	0	1
2	2554.08	134,747	67,935	18	342	2	388	410	67,935	52,717	3	0	0	0	5	2
3	2554.09	134,798	67,961	16	346	1	389	394	67,966	52,748	3	0	0	0	13	3
4	2554.11	134,901	68,013	14	337	2	405	392	68,005	52,787	2	0	0	0	25	4
5	2554.12	134,953	68,039	20	334	1	381	376	68,026	52,808	3	0	0	0	18	5
6	2554.12	134,953	68,039	26	315	1	342	369	68,053	52,835	4	0	0	0	15	6
7	2554.14	135,056	68,091	14	315	2	383	370	68,092	52,874	2	0	0	0	12	7
8	2554.16	135,159	68,143	16	314	2	384	367	68,127	52,909	3	0	0	0	0	8
9	2554.16	135,159	68,143	16	317	2	335	367	68,159	52,941	3	0	0	0	0	9
10	2554.18	135,262	68,195	24	305	1	382	361	68,190	52,972	4	0	0	0	0	10
11	2554.19	135,314	68,221	18	320	2	366	368	68,218	53,000	3	0	0	0	0	11
12	2554.18	135,262	68,195	18	364	1	357	352	68,187	52,969	3	0	0	0	0	12
13	2554.16	135,159	68,143	20	364	1	333	349	68,151	52,933	3	0	0	0	0	13
14	2554.16	135,159	68,143	16	340	2	358	353	68,146	52,928	3	0	0	0	0	14
15	2554.17	135,211	68,169	18	321	2	367	364	68,169	52,951	3	0	0	0	0	15
16	2554.28	135,778	68,455	2	512	1	801	801	68,455	53,237	0	0	0	0	0	16
17	2554.43	136,555	68,847	2	467	2	863	863	68,847	53,629	0	0	0	0	0	17
18	2554.48	136,815	68,978	10	479	1	621	621	68,978	53,760	2	0	0	0	0	18
19	2554.49	136,867	69,004	14	458	1	499	499	69,004	53,786	2	0	0	0	0	19
20	2554.55	137,178	69,161	8	485	1	651	651	69,161	53,943	1	0	0	0	0	20
21	2554.57	137,282	69,213	8	501	1	562	562	69,213	53,995	1	0	0	0	0	21
22	2554.57	137,282	69,213	12	479	1	492	477	69,198	53,980	2	0	0	0	0	22
23	2554.58	137,334	69,239	10	410	1	447	457	69,234	54,016	2	0	0	0	0	23
24	2554.58	137,334	69,239	10	422	1	433	444	69,245	54,027	2	0	0	0	0	24
25	2554.60	137,438	69,292	8	391	1	453	437	69,282	54,064	1	0	0	0	0	25
26	2554.61	137,491	69,318	12	386	1	425	450	69,333	54,115	2	0	0	0	0	26
27	2554.64	137,647	69,397	10	381	1	471	440	69,381	54,163	2	0	0	0	0	27
28	2554.65	137,699	69,423	10	386	1	423	483	69,467	54,249	2	0	0	0	0	28
29	2554.71	138,013	69,582	6	390	1	556	468	69,538	54,320	1	0	0	0	0	29
30	2554.72	138,065	69,608	14	384	1	425	469	69,608	54,390	2	0	0	0	0	30
31	2554.75	138,222	69,687	8	379	1	467	467	69,687	54,469	1	0	0	0	0	31
TOTAL SECOND FOOT DAYS				410	11,905	41	14,212	14,212	69,687	54,469	67	0	0	0	88	
TOTAL ACRE-FEET				813	23,613	81	28,189	28,189	138,222	108,038	133	0	0	0	175	

By: _____ Date: January 22, 2003

DECEMBER 2002

	NORTH KERN WATER STORAGE DISTRICT					BUENA VISTA WATER STORAGE DISTRICT						HACIENDA WATER DISTRICT					
							FLOW					ENTITLEMENT		FLOW			
	ENT'L AT 1ST POINT	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	ENT'L AT 1ST POINT	VIA KDWD	VIA CWD	AT 2ND POINT	RESERVOIR LOSS	RESERVOIR STORAGE	Contributed by: NKWSD	BVWSD		FLOW ABOVE 1ST POINT	RESERVOIR LOSS	RESERVOIR STORAGE	
DAY																		DAY
Previous Day	404	285	2	8	35,557	0	3	0	0	3	17,056				0	0	0	
1	431	351	2	8	35,627	0	10	0	0	4	17,042				0	0	0	1
2	410	341	2	12	35,682	0	1	0	0	6	17,035				0	0	0	2
3	394	346	1	11	35,718	0	0	0	0	5	17,030				0	0	0	3
4	392	337	2	10	35,761	0	0	0	0	4	17,026				0	0	0	4
5	376	328	1	14	35,794	0	6	0	0	6	17,014				0	0	0	5
6	369	315	1	18	35,829	0	0	0	0	8	17,006				0	0	0	6
7	370	315	2	10	35,872	0	0	0	0	4	17,002				0	0	0	7
8	367	314	2	11	35,912	0	0	0	0	5	16,997				0	0	0	8
9	367	317	2	11	35,949	0	0	0	0	5	16,992				0	0	0	9
10	361	304	1	17	35,988	0	1	0	0	7	16,984				0	0	0	10
11	368	320	2	12	36,022	0	0	0	0	6	16,978				0	0	0	11
12	352	364	1	12	35,997	0	0	0	0	6	16,972				0	0	0	12
13	349	364	1	14	35,967	0	0	0	0	6	16,966				0	0	0	13
14	353	340	2	11	35,967	0	0	0	0	5	16,961				0	0	0	14
15	364	321	2	12	35,996	0	0	0	0	6	16,955				0	0	0	15
16	801	512	1	1	36,283	0	0	0	0	1	16,954				0	0	0	16
17	863	467	2	1	36,676	0	0	0	0	1	16,953				0	0	0	17
18	621	479	1	7	36,810	0	0	0	0	3	16,950				0	0	0	18
19	499	458	1	10	36,840	0	0	0	0	4	16,946				0	0	0	19
20	651	485	1	6	36,999	0	0	0	0	2	16,944				0	0	0	20
21	562	497	1	6	37,057	0	4	0	0	2	16,938				0	0	0	21
22	477	479	1	8	37,046	0	0	0	0	4	16,934				0	0	0	22
23	457	410	1	7	37,085	0	0	0	0	3	16,931				0	0	0	23
24	444	422	1	7	37,099	0	0	0	0	3	16,928				0	0	0	24
25	437	391	1	6	37,138	0	0	0	0	2	16,926				0	0	0	25
26	450	386	1	8	37,193	0	0	0	0	4	16,922				0	0	0	26
27	440	381	1	7	37,244	0	0	0	0	3	16,919				0	0	0	27
28	483	386	1	7	37,333	0	0	0	0	3	16,916				0	0	0	28
29	468	390	1	4	37,406	0	0	0	0	2	16,914				0	0	0	29
30	469	384	1	10	37,480	0	0	0	0	4	16,910				0	0	0	30
31	467	379	1	6	37,566	0	0	0	0	2	16,903				0	0	0	31
S.F.D.	14,212	11,883	41	284	37,566	0	22	0	0	126	16,903				0	0	0	S.F.D.
AC.FT.	28,189	23,569	81	563	74,511	0	44	0	0	250	33,527				0	0	0	AC.FT.

TOTAL ACRE-FOOT STORAGE DAYS 2,243,971

TOTAL ACRE-FOOT STORAGE DAYS 1,043,004

TOTAL ACRE-FOOT STORAGE DAYS 0

DECEMBER 2002

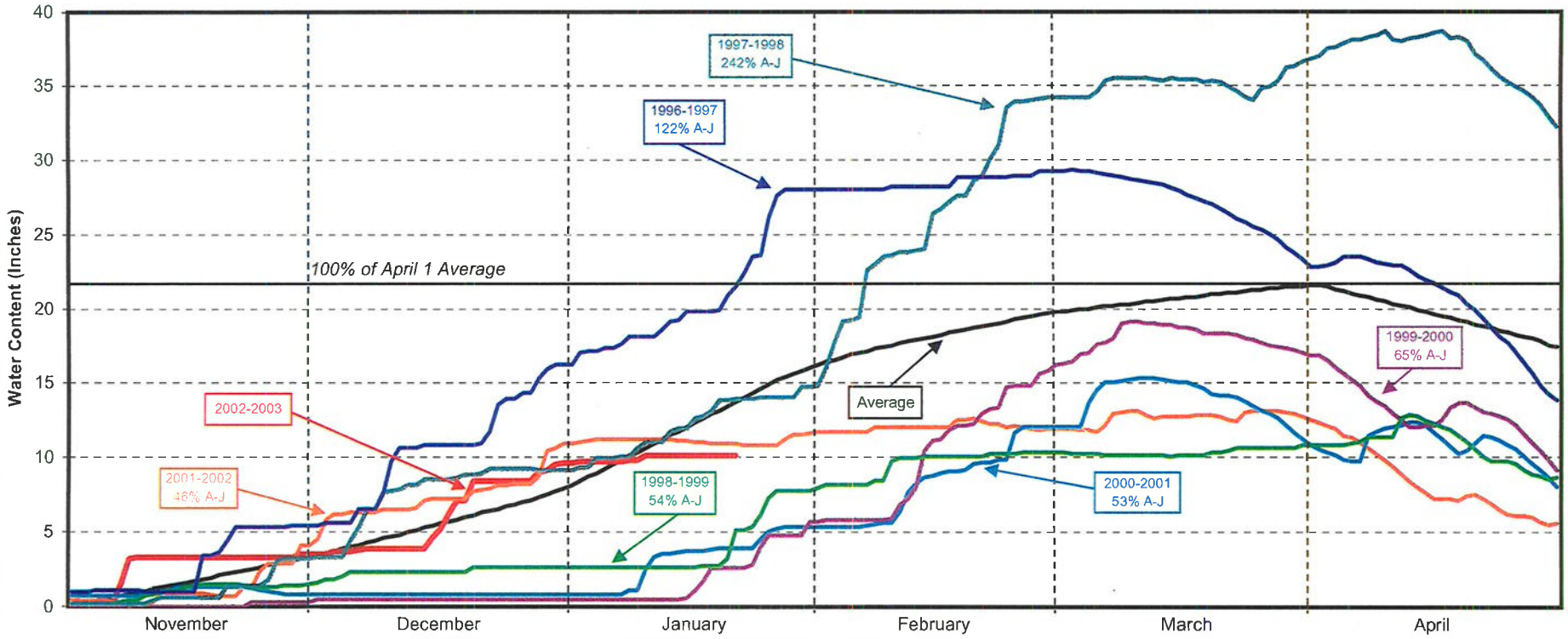
WATERMASTER NOTES *** KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
December	2-7	1	FRIANT-KERN INFLOW	Denotes operational spill to Kern River Channel as reported by Friant Water Users Authority.
December	31	2	BVWSD RESERVOIR STORAGE NKWSD RESERVOIR STORAGE	Reflects transfer of 10 acre-feet (5 s.f.d.) from BUENA VISTA WATER STORAGE DISTRICT to NORTH KERN WATER STORAGE DISTRICT on behalf of HACIENDA WATER DISTRICT as compensation for additional evaporation of Kern River water due to Rio Bravo Power Plant operations during calendar year 2002 pursuant to terms of May 14, 1986 Memorandum of Understanding between Olcese WD and the Kern River Interests. (Total of 14 acre-feet of additional evaporation; shared 75% NKWSD & 25% BVWSD)

KERN RIVER BASIN SNOWPACK ACCUMULATION

EIGHT SENSOR INDEX

January 22, 2003



CITY OF BAKERSFIELD WATER RESOURCES DEPARTMENT



Kern River at Yokut's Park
Bakersfield, California

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: January 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	27533
LESS NON-CONTRIBUTING CANALS.....	18446
FOR OTHERS AND FIRST POINT CANALS.....	9087
TO BE CONTRIBUTED BY OTHER CANALS.....	676
TO BE USED BY OTHER CANALS.....	8411
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

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

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS	
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO
		K.C.L. Co. ENT'L @ 2ND PT.																		
300.0	300	KERN ISLAND (1-ST)		7582	18446	10634					7812						7582			212
		EASTSIDE																		
		KERN RIVER CONDUIT																		
320.0	20	CASTRO			290		18													
		KCC&W Co.			769		153			1230			292	541					1	
330.5	10.5	SOUTH FORK			553	553						0								
410.5	80	BUENA VISTA (1-ST)		855	2958	1348	85				1695						855			395
530.5	120	JAMES (1-ST)			2360		4782		7142											
550.5	20	ANDERSON (1-ST)			199		752		951											
700.5	150	STINE			1023	785					238									
730.5	30	MEACHAM			58		1109		1167											
880.5	150	FARMERS			201	60					141									
920.5	40	PLUNKET					1256		1256											
960.5	40	JOYCE					1190		1190											
1000.5	40	JOHNSON					1101		1101											
1130.5	130	PIONEER (1-ST)					2266		1932	334										
1190.5	60	BEARDSLEY (1-ST)		69								0						69		
		LERDO (NKWSD)		2553									541	496	2349					
1200.5	10	ANDERSON (2-ND)					81		39	42										
1240.5	40	JAMES & DIXON					307		95	212										
1250.5	10	WILSON					36													
		KCC&W Co.					24			60										
1276.5	26	McCAFFREY					155		0	155										
		McCORD LERDO 30%					65		0	65										
1376.5	100	BEARDSLEY 70%																		
		CALLOWAY CENTRAL 20%		3025										3025						
2226.5	850	NKWSD 80%																		
		RAILROAD KCC&W Co. 20%																		
2426.5	200	NKWSD 80%																		
2516.5	90	BUENA VISTA (2-ND)																		
2696.5	180	JAMES (2-ND)																		
2866.5	170	PIONEER (2-ND)																		
3106.5	240	BEARDSLEY (3-RD)																		
3162.5	56	KERN ISLAND (2-ND)																		
		ROSEDALE RBWSD		581												581			1038	
		TRUXTUN LAKES		214										214						
		LAKE MING														16				
		KERN VALLEY GOLF COURSE																		
		CALIFORNIA WATER SERVICE CO.														38				
		OLCESE WD														13				
		BVWSD VIA CWD											204							
		BVWSD FOR La HACIENDA, INC.											5	5						
		NKWSD FOR ID4											11378						8006	133
TOTALS			72	14879	26857	13380	13380	0	14873	2098	9886	0	12420	4281	2349	648	8437	69	9045	740
		LOSS		10460	676														9785	
FLOW AT FIRST POINT			72	25339	27533															

ISABELLA RESERVOIR				
IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
18	2500	18	0	2500
0	0	0	0	0
162	5311	46	0	5427
0	600		0	600
445	1065	10	0	1500
238	1264	12	0	1490
141	1047	8	0	1180
0	185	2	69	114
1540	29851	227	145	31019
2544	41823	323	214	43830

TOTAL CHANGE IN STORAGE = 2007

NOTES:

KCC&W Exch. Plus: NKWSD to City (B/P)= 292
Lerdo Exch. Less: BVWSD via CWD= 204
Lerdo Exch. Plus: City to NKWSD (Misc.)= 541
River Loss: City to RRBWSD (Misc.)= 1038

Cally. Exch. Less: NKWSD for ID4= 3025
River Loss: NKWSD for ID4= 8139
Truxtun Lake: NKWSD for ID4= 214

NKWSD/KCC&W Co. Ent'l: Reflects release to City (due to inability to divert natural flow ent'l)= 808

CITY OF BAKERSFIELD

KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: February 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	21072
LESS NON-CONTRIBUTING CANALS.....	16655
FOR OTHERS AND FIRST POINT CANALS.....	4417
TO BE CONTRIBUTED BY OTHER CANALS.....	611
TO BE USED BY OTHER CANALS.....	3806
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

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

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.																							
300.0	300	KERN ISLAND (1-ST)		11057	16655	4128					12527			353			10704			83	1740	2500	44	0	4196
		EASTSIDE																							
		KERN RIVER CONDUIT																							
320.0	20	CASTRO			232		46														0	0	0	0	0
		KCC&W Co.			613		220			1111			10	364					-1		10	5427	75	143	5219
330.5	10.5	SOUTH FORK		42	417	337						80						42			38	600		0	638
410.5	80	BUENA VISTA (1-ST)		1934	2158	145	707				2720						1934			576	210	1500	20	0	1690
530.5	120	JAMES (1-ST)			386		3480		3866																
550.5	20	ANDERSON (1-ST)					139		139																
700.5	150	STINE																			0	1490	20	0	1470
730.5	30	MEACHAM					18		18																
880.5	150	FARMERS		8										8							0	1180	16	0	1164
920.5	40	PLUNKET																							
960.5	40	JOYCE																							
1000.5	40	JOHNSON																							
1130.5	130	PIONEER (1-ST)																							
1190.5	60	BEARDSLEY (1-ST)		906										10		802		104			0	114	0	114	0
		LERDO (NKWSD)		2926									364	508	2418						690	31019	396	476	30837
1200.5	10	ANDERSON (2-ND)																							
1240.5	40	JAMES & DIXON																							
1250.5	10	WILSON																			2688	43830	571	733	45214
		KCC&W Co.																							
1276.5	26	McCAFFREY																							
		McCORD	LERDO 30%																						
1376.5	100		BEARDSLEY 70%																						
		CALLOWAY	CENTRAL 20%	1400										1400											
2226.5	850		NKWSD 80%																						
		RAILROAD	KCC&W Co. 20%																						
2426.5	200		NKWSD 80%																						
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD																							
		TRUXTUN LAKES																							
		LAKE MING														16									
		KERN VALLEY GOLF COURSE														4									
		CALIFORNIA WATER SERVICE CO.														46									
		OLCESE WD														23									
		BVWSD VIA KDWD											361												
		BVWSD VIA CWD											508												
		BVWSD FOR La HACIENDA, INC.											25	25											
		NKWSD FOR ID4											1755							355					
TOTALS			114	18273	20461	4610	4610	0	4023	1111	15247	80	3023	2668	2418	891	12638	146	354	659					
		LOSS		1625	611														1013						
FLOW AT FIRST POINT			114	19898	21072																				

TOTAL CHANGE IN STORAGE = 1384

NOTES:

Kern Island Exch. Less: from BVWSD=	353
Farmers Exch. Less: from BVWSD=	8
Beardsley Exch. Less: KRC&I to City=	10
Lerdo Exch. Less: BVWSD via CWD=	508
Lerdo Exch. Plus: City to NKWSD (Misc.)=	364
Cally. Exch. Less: NKWSD for ID4=	1400
River Loss: NKWSD for ID4=	355

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: March 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	31603
LESS NON-CONTRIBUTING CANALS.....	17792
FOR OTHERS AND FIRST POINT CANALS.....	13811
TO BE CONTRIBUTED BY OTHER CANALS.....	13811
TO BE USED BY OTHER CANALS.....	0
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	12
B.V.W.S.D. ENTITLEMENT.....	4179
SEEPAGE LOSS.....	676
KERN RIVER CONDUIT ENTITLEMENT.....	8944
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	13811

DIVERSION RIGHT				GROSS DIV'R	GROSS ENT'L	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS	
RIVER STAGE	AMT.	NAME OF CANAL				To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO
		K.C.L. Co. ENT'L @ 2ND PT.			12				12											
300.0	300	KERN ISLAND (1-ST)		11688	17792	5558					12234			388			11300			
		EASTSIDE		1404										470			934			
		KERN RIVER CONDUIT			8944					8944										
320.0	20	CASTRO					301													
		KCC&W Co.					901			1202			134	482					543	
330.5	10.5	SOUTH FORK		16			4					4						16		
410.5	80	BUENA VISTA (1-ST)		48			48				48						48			
530.5	120	JAMES (1-ST)					4181		4181											
550.5	20	ANDERSON (1-ST)					99		99											
700.5	150	STINE																		
730.5	30	MEACHAM					24		24											
880.5	150	FARMERS		22										22						
920.5	40	PLUNKET																		
960.5	40	JOYCE																		
1000.5	40	JOHNSON																		
1130.5	130	PIONEER (1-ST)																		
1190.5	60	BEARDSLEY (1-ST)		781													781			
		LERDO (NKWSD)		8486									482	134	4007	4479				
1200.5	10	ANDERSON (2-ND)																		
1240.5	40	JAMES & DIXON																		
1250.5	10	WILSON																		
		KCC&W Co.																		
1276.5	26	McCAFFREY																		
		McCORD LERDO 30%																		
1376.5	100	BEARDSLEY 70%																		
		CALLOWAY CENTRAL 20%		1829													1829		613	
2226.5	850	NKWSD 80%																		
		RAILROAD KCC&W Co. 20%																		
2426.5	200	NKWSD 80%																		
2516.5	90	BUENA VISTA (2-ND)																		
2696.5	180	JAMES (2-ND)																		
2866.5	170	PIONEER (2-ND)																		
3106.5	240	BEARDSLEY (3-RD)																		
3162.5	56	KERN ISLAND (2-ND)																		
		ROSEDALE RBWSD																		
		TRUXTUN LAKES																		
		LAKE MING															44			
		KERN VALLEY GOLF COURSE															6			
		CALIFORNIA WATER SERVICE CO.															73			
		OLCESE WD															41			
		BVWSD VIA KDWD											880							
		BVWSD FOR La HACIENDA, INC.											47	47						
TOTALS			211	24274	26748	5558	5558	0	4316	10146	12282	4	1543	1543	4007	7253	12282	16	1156	0
		LOSS		1830	676														1156	
FLOW AT FIRST POINT			211	26104	27424															

ISABELLA RESERVOIR				
IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
0	4196	70	0	4126
0	0	0	0	0
1407	5219	109	18	6499
0	638		12	626
0	1690	28	0	1662
0	1470	24	0	1446
0	1164	20	0	1144
0	0	0	0	0
657	30837	522	0	30972
2064	45214	773	30	46475

TOTAL CHANGE IN STORAGE = 1261

NOTES:

Kern Island Exch. Less: from BVWSD=	388
Eastside Exch. Less: from BVWSD=	470
Farmers Exch. Less: from BVWSD=	22
Lerdo (NKWSD): City to CWD (Basic)=	2840
Lerdo (NKWSD): City to NKWSD (B/P)=	1639
Lerdo Exch. Plus: City to NKWSD (B/P)=	482
KCC&W Exch. Plus: NKWSD to City (B/P)=	134
Cally. (Central): City to K-TWD (Basic)=	1593
Cally. (Central): City to RGWD (Basic)=	236
River Loss: City to K-TWD (Basic)=	530
River Loss: City to RGWD (Basic)=	83

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: April 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	58838
LESS NON-CONTRIBUTING CANALS.....	17851
FOR OTHERS AND FIRST POINT CANALS.....	40987
TO BE CONTRIBUTED BY OTHER CANALS.....	32787
TO BE USED BY OTHER CANALS.....	8200
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	623
B.V.W.S.D. ENTITLEMENT.....	13037
SEEPAGE LOSS.....	655
KERN RIVER CONDUIT ENTITLEMENT.....	18472
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	32787

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.			623				623																
300.0	300	KERN ISLAND (1-ST)		11600	17851	2362					15489			262			11338				2322	4126	121	0	6327
		EASTSIDE		2055										226			1829								
		KERN RIVER CONDUIT			18472					18472															
320.0	20	CASTRO			58		240														0	0	0	0	0
		KCC&W Co.			141		751			1190				3043					1046		8805	6499	272	0	15032
330.5	10.5	SOUTH FORK		18	105	52	8					61						18			43	626		0	669
410.5	80	BUENA VISTA (1-ST)		371	797	279	252				770						371				399	1662	44	0	2017
530.5	120	JAMES (1-ST)			1196		2603		3799																
550.5	20	ANDERSON (1-ST)			198				198																
700.5	150	STINE			1496	744					752										752	1446	42	0	2156
730.5	30	MEACHAM			303				303																
880.5	150	FARMERS		283	1414	417					997						283				716	1144	35	2	1823
920.5	40	PLUNKET			319				319																
960.5	40	JOYCE			292				292																
1000.5	40	JOHNSON			250				250																
1130.5	130	PIONEER (1-ST)			657				657																
1190.5	60	BEARDSLEY (1-ST)		829	238							238		45		537		292			113	0	0	113	0
		LERDO (NKWSD)		6134									3088	1192	1960	2901		81			8049	30972	807	0	38214
1200.5	10	ANDERSON (2-ND)			34				34																
1240.5	40	JAMES & DIXON			137				137																
1250.5	10	WILSON			18																21199	46475	1321	115	66238
		KCC&W Co.			16					34															
1276.5	26	McCAFFREY			71				71																
		McCORD LERDO 30%			77				77																
1376.5	100	BEARDSLEY 70%			180							180													
		CALLOWAY CENTRAL 20%		2307	42					42						2307			857						
2226.5	850	NKWSD 80%			161				161																
		RAILROAD KCC&W Co. 20%																							
2426.5	200	NKWSD 80%																							
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD																							
		TRUXTUN LAKES																							
		LAKE MING																							
		KERN VALLEY GOLF COURSE														60									
		CALIFORNIA WATER SERVICE CO.														19									
		OLCESE WD														104									
																59									
		BVWSD VIA KDWD											488												
		BVWSD VIA CWD											1192												
		BVWSD FOR La HACIENDA, INC.											56	56											
TOTALS			298	23597	45146	3854	3854	0	6921	19738	18008	479	4824	4824	1960	5987	13821	391	1903	0					
		LOSS		2507	655														1903						
FLOW AT FIRST POINT			298	26104	45801																				

TOTAL CHANGE IN STORAGE = 19763

NOTES:

Kern Island Exch. Less: from BVWSD=	262
Eastside Exch. Less: from BVWSD=	226
Lerdo (NKWSD): City to CWD (Basic)=	2560
Lerdo (NKWSD): City to NKWSD (B/P)=	341
Lerdo Exch. Plus: City to NKWSD (B/P)=	3043
Lerdo Exch. Less: BVWSD via CWD=	1192
Lerdo (NKWSD) - Other: KRC&I 30% Ent'l=	81
Beardsley Exch. Less: KRC&I to NKWSD=	45
Cally. (Central): City to K-TWD (Basic)=	2007
Cally. (Central): City to RGWD (Basic)=	300
River Loss: City to K-TWD (Basic)=	744
River Loss: City to RGWD (Basic)=	113

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: May 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	69991
LESS NON-CONTRIBUTING CANALS.....	18446
FOR OTHERS AND FIRST POINT CANALS.....	51545
TO BE CONTRIBUTED BY OTHER CANALS.....	36173
TO BE USED BY OTHER CANALS.....	15372
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	788
B.V.W.S.D. ENTITLEMENT.....	16399
SEEPAGE LOSS.....	676
KERN RIVER CONDUIT ENTITLEMENT.....	18310
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	36173

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.			788				788																
300.0	300	KERN ISLAND (1-ST)		11467	18446	2220					16226			365			11102				3059	6327	232	20	9134
		EASTSIDE		2291										206			2085								
		KERN RIVER CONDUIT			18310					18310															
320.0	20	CASTRO			81		133														0	0	0	0	0
		KCC&W Co.			230		395			839				828						716	7886	15032	574	0	22344
330.5	10.5	SOUTH FORK		24	163	34						129						24			105	669		0	774
410.5	80	BUENA VISTA (1-ST)		206	1246	201					1045						206				839	2017	69	0	2787
530.5	120	JAMES (1-ST)			1880		2617		4497																
550.5	20	ANDERSON (1-ST)			311		105		416																
700.5	150	STINE			2341	445					1896										1896	2156	83	0	3969
730.5	30	MEACHAM			468		12		480																
880.5	150	FARMERS		188	2317	362					1955						188				1767	1823	71	0	3519
920.5	40	PLUNKET			609				609																
960.5	40	JOYCE			601				601																
1000.5	40	JOHNSON			565				565																
1130.5	130	PIONEER (1-ST)			1488				1488																
1190.5	60	BEARDSLEY (1-ST)		1071	577							577				367		704			195	0	0	147	48
		LERDO (NKWSD)		11034									828	550	4763	5400		321			7131	38214	1272	0	44073
1200.5	10	ANDERSON (2-ND)			87				87																
1240.5	40	JAMES & DIXON			331				331																
1250.5	10	WILSON			38																22878	66238	2301	167	86648
		KCC&W Co.			42					80															
1276.5	26	McCAFFREY			198				198																
		McCORD LERDO 30%			212				212																
1376.5	100	BEARDSLEY 70%			496							496													
		CALLOWAY CENTRAL 20%		3092	218					218				79		3013				902					
2226.5	850	NKWSD 80%			873				873																
		RAILROAD KCC&W Co. 20%																							
2426.5	200	NKWSD 80%																							
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD																							
		TRUXTUN LAKES																							
		LAKE MING														77									
		KERN VALLEY GOLF COURSE														28									
		CALIFORNIA WATER SERVICE CO.														131									
		OLCESE WD														99									
		BVWSD VIA KDWD											571												
		BVWSD VIA CWD											550												
		BVWSD FOR KCWA											1293							1293					
		NKWSD FOR ID4											79												
TOTALS			335	29373	52916	3262	3262	0	11145	19447	21122	1202	3321	2028	4763	9115	13581	1049	2911	0					
		LOSS		3586	676														2911						
FLOW AT FIRST POINT			335	32959	53592																				

TOTAL CHANGE IN STORAGE = 20410

NOTES:

Kern Island Exch. Less: from BVWSD=	365
Eastside Exch. Less: from BVWSD=	206
Lerdo (NKWSD): City to CWD (Basic)=	5400
Lerdo (NKWSD)- Other: KRC&I 30% Ent'l=	321
Lerdo Exch. Plus: City to NKWSD (B/P)=	828
Lerdo Exch. Less: BVWSD via CWD=	550
Cally. (Central): City to K-TWD (Basic)=	2624
Cally. (Central): City to RGWD (Basic)=	389
River Loss: City to K-TWD (Basic)=	780
River Loss: City to RGWD (Basic)=	122

CITY OF BAKERSFIELD

KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: June 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	63775
LESS NON-CONTRIBUTING CANALS.....	17851
FOR OTHERS AND FIRST POINT CANALS.....	45924
TO BE CONTRIBUTED BY OTHER CANALS.....	32886
TO BE USED BY OTHER CANALS.....	13038
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	696
B.V.W.S.D. ENTITLEMENT.....	14612
SEEPAGE LOSS.....	655
KERN RIVER CONDUIT ENTITLEMENT.....	16923
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	32886

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.			696				696																
300.0	300	KERN ISLAND (1-ST)		16600	17851						17851			882			15718				1614	9134	305	1823	8620
		EASTSIDE		2584										242			2342								
		KERN RIVER CONDUIT			16923					16923															
320.0	20	CASTRO			67																0	0	0	0	0
		KCC&W Co.			196					263			40	5000					3575		12330	22344	994	4397	29283
330.5	10.5	SOUTH FORK		18	134							134						18			122	774		6	890
410.5	80	BUENA VISTA (1-ST)		4909	1057						1057			1729			3180				24	2787	69	2147	595
530.5	120	JAMES (1-ST)			1587				1587																
550.5	20	ANDERSON (1-ST)			263				263																
700.5	150	STINE		3569	1978						1978			155			3414				555	3969	147	1991	2386
730.5	30	MEACHAM			395				395																
880.5	150	FARMERS		3421	1947						1947						3421				113	3519	117	1587	1928
920.5	40	PLUNKET			504				504																
960.5	40	JOYCE			470				470																
1000.5	40	JOHNSON			405				405																
1130.5	130	PIONEER (1-ST)			1065				1065																
1190.5	60	BEARDSLEY (1-ST)		1166	424							424		40		532		634			327	48	4	371	0
		LERDO (NKWSD)		12494									5000	2566	9658			270			7033	44073	1833	5843	43430
1200.5	10	ANDERSON (2-ND)			71				71																
1240.5	40	JAMES & DIXON			286				286																
1250.5	10	WILSON			36																22118	86648	3469	18165	87132
		KCC&W Co.			36					72															
1276.5	26	McCAFFREY			183				183																
		McCORD LERDO 30%			204				204																
1376.5	100	BEARDSLEY 70%			476							476													
		CALLOWAY CENTRAL 20%		105	252					252						105									
2226.5	850	NKWSD 80%			1002				1002																
		RAILROAD KCC&W Co. 20%																							
2426.5	200	NKWSD 80%																							
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD																							
		TRUXTUN LAKES																							
		LAKE MING														105									
		KERN VALLEY GOLF COURSE														30									
		CALIFORNIA WATER SERVICE CO.														155									
		OLCESE WD														115									
		BVWSD VIA KDWD											3008												
		BVWSD VIA CWD											1283												
		BVWSD FOR KCWA											3971						3971						
		NKWSD FOR CWD											1283												
TOTALS			405	44866	48508	0	0	0	7131	17510	22833	1034	14585	10614	9658	1042	28075	922	7546	0					
		LOSS		8202	655														7546						
FLOW AT FIRST POINT			405	53068	49163																				

TOTAL CHANGE IN STORAGE = 484

NOTES:

Kern Island Exch. Less: from BVWSD=	882
Eastside Exch. Less: from BVWSD=	242
Buena Vista Exch. Less: from BVWSD=	1729
Stine Exch. Less: from BVWSD=	155
Lerdo Exch. Plus: City to NKWSD (Basic)=	5000
Beardsley Exch. Less: KRC&I to City=	40
Lerdo (NKWSD) - Other: KRC&I 30% Ent'l=	270
Lerdo Exch. Less: BVWSD via CWD=	1283
Cally. (Central): City to K-TWD (Basic)=	91
Cally. (Central): City to RGWD (Basic)=	14
River Loss: BVWSD for KCWA=	3971

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: July 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	22703
LESS NON-CONTRIBUTING CANALS.....	17203
FOR OTHERS AND FIRST POINT CANALS.....	5500
TO BE CONTRIBUTED BY OTHER CANALS.....	5500
TO BE USED BY OTHER CANALS.....	0
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	83
B.V.W.S.D. ENTITLEMENT.....	1670
SEEPAGE LOSS.....	676
KERN RIVER CONDUIT ENTITLEMENT.....	3071
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	5500

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS	
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO
		K.C.L. Co. ENT'L @ 2ND PT.			83				83											
300.0	300	KERN ISLAND (1-ST)		16657	17203	962					16241			1188			15469			
		EASTSIDE		2245										232			2013			
		KERN RIVER CONDUIT			3071					3071										
320.0	20	CASTRO					30													
		KCC&W Co.					89			119				10000					3321	
330.5	10.5	SOUTH FORK		18			63					63						18		
410.5	80	BUENA VISTA (1-ST)		2150			361				361			2150						
530.5	120	JAMES (1-ST)					419		419											
550.5	20	ANDERSON (1-ST)																		
700.5	150	STINE		3134										797			2337			
730.5	30	MEACHAM																		
880.5	150	FARMERS		2864										986			1878			
920.5	40	PLUNKET																		
960.5	40	JOYCE																		
1000.5	40	JOHNSON																		
1130.5	130	PIONEER (1-ST)																		
1190.5	60	BEARDSLEY (1-ST)		1137												1137				
		LERDO (NKWSD)		15173									10000	2512	11996	665				
1200.5	10	ANDERSON (2-ND)																		
1240.5	40	JAMES & DIXON																		
1250.5	10	WILSON																		
		KCC&W Co.																		
1276.5	26	McCAFFREY																		
		McCORD LERDO 30%																		
1376.5	100	BEARDSLEY 70%																		
		CALLOWAY CENTRAL 20%		2253										1943		310			22	
2226.5	850	NKWSD 80%																		
		RAILROAD KCC&W Co. 20%																		
2426.5	200	NKWSD 80%																		
2516.5	90	BUENA VISTA (2-ND)																		
2696.5	180	JAMES (2-ND)																		
2866.5	170	PIONEER (2-ND)																		
3106.5	240	BEARDSLEY (3-RD)																		
3162.5	56	KERN ISLAND (2-ND)																		
		ROSEDALE RBWSD																		
		TRUXTUN LAKES																		
		LAKE MING														127				
		KERN VALLEY GOLF COURSE														32				
		CALIFORNIA WATER SERVICE CO.														192				
		OLCESE WD														132				
		BVWSD VIA KDWD											5353							
		BVWSD VIA CWD											1256							
		BVWSD FOR KCWA											1654						1654	
		BVWSD FOR ARVIN-EDISON WSD											1693							
		NKWSD FOR ID4											2200						257	
		NKWSD FOR CWD											1256							
		ARVIN-EDISON TURNOUT		1693										1693						
TOTALS			483	47324	20357	962	962	0	502	3190	16602	63	23412	21501	11996	2595	21697	18	5254	0
		LOSS		5932	676														5254	
FLOW AT FIRST POINT			483	53256	21033															

ISABELLA RESERVOIR				
IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
579	8620	379	1820	7000
0	0	0	0	0
332	29283	892	13080	15643
63	890		18	935
361	595	28	0	928
0	2386	37	2337	12
0	1928	32	1878	18
0	0	0	0	0
9501	43430	2125	14451	36355
10836	87132	3493	33584	60891

TOTAL CHANGE IN STORAGE = -26241

NOTES:

Kern Island Exch. Less: from BVWSD=	1188
Eastside Exch. Less: from BVWSD=	232
Buena Vista Exch. Less: from BVWSD=	2150
Stine Exch. Less: from BVWSD=	797
Farmers Exch. Less: from BVWSD=	986
Lerdo (NKWSD): City to CWD (Basic)=	665
Lerdo Exch. Plus: City to NKWSD (Basic)=	10000
Lerdo Exch. Less: BVWSD via CWD=	1256
Cally. (Central): City to K-TWD (Basic)=	270
Cally. (Central): City to RGWD (Basic)=	40
River Loss: City to K-TWD (Basic)=	20
River Loss: City to RGWD (Basic)=	2
River Loss: BVWSD for KCWA=	1654
Calloway Exch. Less: NKWSD for ID4=	1943
River Loss: NKWSD for ID4=	257
Arvin-Edison T.O.: BVWSD for A-EWSD=	1693

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: August 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	10439
LESS NON-CONTRIBUTING CANALS.....	9763
FOR OTHERS AND FIRST POINT CANALS.....	676
TO BE CONTRIBUTED BY OTHER CANALS.....	676
TO BE USED BY OTHER CANALS.....	0
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

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

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS		ISABELLA RESERVOIR				
RIVER STAGE	AMT.	NAME OF CANAL		GROSS DIV'R	GROSS ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.																							
300.0	300	KERN ISLAND (1-ST)		18183	9763						9763		377	2158			16025				186	7000	190	6980	16
		EASTSIDE		1954										1045			909								
		KERN RIVER CONDUIT																							
320.0	20	CASTRO																			0	0	0	0	0
		KCC&W Co.												5054					383		0	15643	601	6864	8178
330.5	10.5	SOUTH FORK																			0	935		0	935
410.5	80	BUENA VISTA (1-ST)												347							0	928	34	347	547
530.5	120	JAMES (1-ST)																							
550.5	20	ANDERSON (1-ST)																							
700.5	150	STINE		298										310							0	12	0	12	0
730.5	30	MEACHAM																							
880.5	150	FARMERS		349										367							0	18	0	18	0
920.5	40	PLUNKET																							
960.5	40	JOYCE																							
1000.5	40	JOHNSON																							
1130.5	130	PIONEER (1-ST)																							
1190.5	60	BEARDSLEY (1-ST)		981													981				0	0	0	0	0
		LERDO (NKWSD)		7601									5734	4313	3288						4840	36355	2011	9124	30060
1200.5	10	ANDERSON (2-ND)																							
1240.5	40	JAMES & DIXON																							
1250.5	10	WILSON																			5026	60891	2836	23345	39736
		KCC&W Co.																							
1276.5	26	McCAFFREY																							
		McCORD LERDO 30%																							
1376.5	100	BEARDSLEY 70%																							
		CALLOWAY CENTRAL 20%		3850										3850											
2226.5	850	NKWSD 80%																							
		RAILROAD KCC&W Co. 20%																							
2426.5	200	NKWSD 80%																							
2516.5	90	BUENA VISTA (2-ND)																							
2696.5	180	JAMES (2-ND)																							
2866.5	170	PIONEER (2-ND)																							
3106.5	240	BEARDSLEY (3-RD)																							
3162.5	56	KERN ISLAND (2-ND)																							
		ROSEDALE RBWSD																							
		TRUXTUN LAKES																							
		LAKE MING															121								
		KERN VALLEY GOLF COURSE															30								
		CALIFORNIA WATER SERVICE CO.															167								
		OLCESE WD															128								
		BVWSD VIA KDWD											3162												
		BVWSD VIA CWD											2152												
		BVWSD FOR KCWA											582						582						
		BVWSD VIA KDWD (Carmel Water)											688												
		NKWSD FOR ID4											4569						719						
		NKWSD FOR CWD											2161												
		BVWSD TRANSFER TO NKWSD												680											
TOTALS			446	33216	9763	0	0	0	0	0	9763	0	19425	18124	3288	1427	16934	0	1684	0					
		LOSS		2360	676														1684						
FLOW AT FIRST POINT			446	35576	10439																				

TOTAL CHANGE IN STORAGE = -21155

NOTES:

Kern Island Exch. Less: from BVWSD=	1470
Eastside Exch. Less: from BVWSD=	1045
Kern Island Exch. Less: (Carmel Water)=	688
Stine Exch. Less: from BVWSD=	298
Farmers Exch. Less: from BVWSD=	349
Kern Island Exch. Plus: from Buena Vista=	347
Kern Island Exch. Plus: from Stine=	12
Kern Island Exch. Plus: from Farmers=	18
Lerdo Exch. Plus: City (KRC&I) to NKWSD=	54
Lerdo Exch. Plus: City to NKWSD (Basic)=	5000
Lerdo Exch. Less: BVWSD via CWD=	2152
Lerdo Exch. Plus: BVWSD to NKWSD=	680
River Loss: BVWSD for KCWA=	582
Calloway Exch. Less: NKWSD for ID4=	3850
River Loss: NKWSD for ID4=	719

CITY OF BAKERSFIELD

KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: September 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	7720
LESS NON-CONTRIBUTING CANALS.....	7065
FOR OTHERS AND FIRST POINT CANALS.....	655
TO BE CONTRIBUTED BY OTHER CANALS.....	655
TO BE USED BY OTHER CANALS.....	0
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

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

DIVERSION RIGHT				GROSS	GROSS	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS	
RIVER STAGE	AMT.	NAME OF CANAL		DIV'R	ENT'L	To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO
		K.C.L. Co. ENT'L @ 2ND PT.																		
300.0	300	KERN ISLAND (1-ST)		7771	7065						7065			785			6986			
		EASTSIDE		982										982						
		KERN RIVER CONDUIT																		
320.0	20	CASTRO																		
		KCC&W Co.												325					2	
330.5	10.5	SOUTH FORK																		
410.5	80	BUENA VISTA (1-ST)																		
530.5	120	JAMES (1-ST)																		
550.5	20	ANDERSON (1-ST)																		
700.5	150	STINE																		
730.5	30	MEACHAM																		
880.5	150	FARMERS																		
920.5	40	PLUNKET																		
960.5	40	JOYCE																		
1000.5	40	JOHNSON																		
1130.5	130	PIONEER (1-ST)																		
1190.5	60	BEARDSLEY (1-ST)		434												434				
		LERDO (NKWSD)		2386									325	1149	1237					
1200.5	10	ANDERSON (2-ND)																		
1240.5	40	JAMES & DIXON																		
1250.5	10	WILSON																		
		KCC&W Co.																		
1276.5	26	McCAFFREY																		
		McCORD LERDO 30%																		
1376.5	100	BEARDSLEY 70%																		
		CALLOWAY CENTRAL 20%		3189										3189						
2226.5	850	NKWSD 80%																		
		RAILROAD KCC&W Co. 20%																		
2426.5	200	NKWSD 80%																		
2516.5	90	BUENA VISTA (2-ND)																		
2696.5	180	JAMES (2-ND)																		
2866.5	170	PIONEER (2-ND)																		
3106.5	240	BEARDSLEY (3-RD)																		
3162.5	56	KERN ISLAND (2-ND)																		
		ROSEDALE RBWSD																		
		TRUXTUN LAKES																		
		LAKE MING														91				
		KERN VALLEY GOLF COURSE														22				
		CALIFORNIA WATER SERVICE CO.														133				
		OLCESE WD														86				
		BVWSD VIA KDWD											1767							
		BVWSD VIA CWD											1149							
		NKWSD FOR ID4											3969						780	
TOTALS			332	14762	7065	0	0	0	0	0	7065	0	7210	6430	1237	766	6986	0	782	0
		LOSS		1435	655														782	
FLOW AT FIRST POINT			332	16197	7720															

ISABELLA RESERVOIR

IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
331	16	4	252	91
0	0	0	0	0
0	8178	467	1093	6618
0	935		0	935
0	547	30	0	517
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	30060	1506	4881	23673
331	39736	2007	6226	31834

TOTAL CHANGE IN STORAGE = -7902

NOTES:

Kern Island Exch. Less: from BVWSD= 785

Eastside Exch. Less: from BVWSD= 982

Lerdo Exch. Plus: City (KRC&I) to NKWSD= 325

Lerdo Exch. Less: BVWSD via CWD= 1149

Calloway Exch. Less: NKWSD for ID4= 3189

River Loss: NKWSD for ID4= 780

CITY OF BAKERSFIELD

KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: October 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	8939
LESS NON-CONTRIBUTING CANALS.....	8263
FOR OTHERS AND FIRST POINT CANALS.....	676
TO BE CONTRIBUTED BY OTHER CANALS.....	676
TO BE USED BY OTHER CANALS.....	0
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

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

DIVERSION RIGHT				GROSS DIV'R	GROSS ENT'L	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS	
RIVER STAGE	AMT.	NAME OF CANAL				To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO
		K.C.L. Co. ENT'L @ 2ND PT.																		
300.0	300	KERN ISLAND (1-ST)		6284	8263	176					8087			377			5907			
		EASTSIDE		413										413						
		KERN RIVER CONDUIT																		
320.0	20	CASTRO					10													
		KCC&W Co.					30			40				179					(3)	
330.5	10.5	SOUTH FORK																		
410.5	80	BUENA VISTA (1-ST)																		
530.5	120	JAMES (1-ST)					136		136											
550.5	20	ANDERSON (1-ST)																		
700.5	150	STINE																		
730.5	30	MEACHAM																		
880.5	150	FARMERS																		
920.5	40	PLUNKET																		
960.5	40	JOYCE																		
1000.5	40	JOHNSON																		
1130.5	130	PIONEER (1-ST)																		
1190.5	60	BEARDSLEY (1-ST)		347												347				
		LERDO (NKWSD)		2162									179	1761	393	8				
1200.5	10	ANDERSON (2-ND)																		
1240.5	40	JAMES & DIXON																		
1250.5	10	WILSON																		
		KCC&W Co.																		
1276.5	26	McCAFFREY																		
		McCORD LERDO 30%																		
1376.5	100	BEARDSLEY 70%																		
		CALLOWAY CENTRAL 20%		2723										2723						
2226.5	850	NKWSD 80%																		
		RAILROAD KCC&W Co. 20%																		
2426.5	200	NKWSD 80%																		
2516.5	90	BUENA VISTA (2-ND)																		
2696.5	180	JAMES (2-ND)																		
2866.5	170	PIONEER (2-ND)																		
3106.5	240	BEARDSLEY (3-RD)																		
3162.5	56	KERN ISLAND (2-ND)																		
		ROSEDALE RBWSD																		
		TRUXTUN LAKES																		
		LAKE MING														65				
		KERN VALLEY GOLF COURSE														20				
		CALIFORNIA WATER SERVICE CO.														129				
		OLCESE WD														70				
		BVWSD VIA KDWD											790							
		BVWSD VIA CWD											1761							
		NKWSD FOR ID4											3469						746	
TOTALS			284	11929	8263	176	176	0	136	40	8087	0	6199	5453	393	639	5907	0	743	0
		LOSS		1422	676														743	
FLOW AT FIRST POINT			284	13351	8939															

ISABELLA RESERVOIR

IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
2184	91	48	4	2223
0	0	0	0	0
0	6618	287	775	5556
0	935		0	935
0	517	21	0	496
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
6	23673	884	3553	19242
2190	31834	1240	4332	28452

TOTAL CHANGE IN STORAGE = -3382

NOTES:

Kern Island Exch. Less: from BVWSD= 377

Eastside Exch. Less: from BVWSD= 413

Lerdo (NKWSD): City to CWD (Misc.)= 8

Lerdo Exch. Plus: City (KRC&I) to NKWSD= 179

Lerdo Exch. Less: BVWSD via CWD= 1761

Calloway Exch. Less: NKWSD for ID4= 2723

River Loss: NKWSD for ID4= 746

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: November 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	73894
LESS NON-CONTRIBUTING CANALS.....	15818
FOR OTHERS AND FIRST POINT CANALS.....	58076
TO BE CONTRIBUTED BY OTHER CANALS.....	12837
TO BE USED BY OTHER CANALS.....	45239
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%).....	557
B.V.W.S.D. ENTITLEMENT.....	11625
SEEPAGE LOSS.....	655
KERN RIVER CONDUIT ENTITLEMENT.....	0
HACIENDA W.D. ENTITLEMENT AT FIRST POINT.....	0
TOTAL.....	12837

DIVERSION RIGHT																								
RIVER STAGE	AMT.	NAME OF CANAL			GROSS DIV'R	GROSS ENT'L	RELEASES To River	RELEASES Distribution Direct	RELEASES Distribution Pro	ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES NKWSD	ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES KCC&W Co.	ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES KDWD	ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES OTHER	EXCHANGES, SALES OR PURCHASES PLUS	EXCHANGES, SALES OR PURCHASES LESS	NET DIVERSIONS NKWSD	NET DIVERSIONS KCC&W Co.	NET DIVERSIONS KDWD	NET DIVERSIONS OTHER	WATER TRANS. LOSS DIR	WATER TRANS. LOSS PRO	ISABELLA RESERVOIR IN	ISABELLA RESERVOIR PREVIOUS BALANCE	ISABELLA RESERVOIR LOSS	ISABELLA RESERVOIR OUT	ISABELLA RESERVOIR CURRENT BALANCE
		K.C.L. Co. ENT'L @ 2ND PT.				557				557																
300.0	300	KERN ISLAND (1-ST)			1928	17217	15071					2146			159			1769		54		323	2223	46	0	2500
		EASTSIDE																								
		KERN RIVER CONDUIT																								
320.0	20	CASTRO				252		69	8													0	0	0	0	0
		KCC&W Co.				706		256	24		1315			873						137		9203	5556	186	0	14573
330.5	10.5	SOUTH FORK			12	498		38	14				550		873				12			516	935		851	600
410.5	80	BUENA VISTA (1-ST)			1297	3810	2067	1091	36			2870						1297		131	914	1026	496	22	0	1500
530.5	120	JAMES (1-ST)				4578		2057	174	5619	1190															
550.5	20	ANDERSON (1-ST)				631		375	32	840	198															
700.5	150	STINE			664	3703	2070	419	182			2234						664			52	1518	0	18	0	1500
730.5	30	MEACHAM				597		912	46	1257	298															
880.5	150	FARMERS			494	2711	1388	544	183			2050						494			38	1518	0	18	0	1500
920.5	40	PLUNKET				714		1297	58	1672	397															
960.5	40	JOYCE				676		1275	58	1672	337															
1000.5	40	JOHNSON				637		1019	58	1658	56															
1130.5	130	PIONEER (1-ST)				1902		2786	188	4713	163															
1190.5	60	BEARDSLEY (1-ST)			159	770		841	89				1700		471		127		32			4784	0	51	0	4733
		LERDO (NKWSD)			4032									471	435	2090	753		754			26994	19242	643	1972	43621
1200.5	10	ANDERSON (2-ND)				121		85	14	200	20															
1240.5	40	JAMES & DIXON				482		338	58	799	79															
1250.5	10	WILSON				71		50	8													45882	28452	984	2823	70527
		KCC&W Co.				50		36	6		221															
1276.5	26	McCAFFREY				313		220	38	492	79															
		McCORD	LERDO	30%		363		212	44	542	77															
1376.5	100		BEARDSLEY	70%		847		496	103				1446													
		CALLOWAY	CENTRAL	20%	567	1956		545	246		2747				567											
2226.5	850		NKWSD	80%		7823		2193	991	10329	678															
		RAILROAD	KCC&W Co.	20%		411		91	58		560															
2426.5	200		NKWSD	80%		1646		357	234	1966	271															
2516.5	90	BUENA VISTA (2-ND)				926	468		40			498														
2696.5	180	JAMES (2-ND)				1853		58	262	2173																
2866.5	170	PIONEER (2-ND)				1747		56	247	1111	939															
3106.5	240	BEARDSLEY (3-RD)				2469		77	349				2895													
3162.5	56	KERN ISLAND (2-ND)				577	577					0														
		ROSEDALE RBWSD			75													75		101						
		TRUXTUN LAKES			71										71											
		LAKE MING																42								
		KERN VALLEY GOLF COURSE																								
		CALIFORNIA WATER SERVICE CO.																40								
		OLCESE WD																18								
		GLEN GRUNDEIS																2								
		BVWSD VIA KDWD												159												
		BVWSD VIA CWD												435												
		BVWSD VIA PIONEER PROJECT																		359						
		NKWSD FOR ID4												8959						7984	337					
TOTALS				102	9299	61614	21641	17793	3848	35600	9625	9798	6591	10897	2576	2090	1057	4224	798	8766	1341					
		LOSS			10764	655														10107						
FLOW AT FIRST POINT				102	20063	62269																				

TOTAL CHANGE IN STORAGE = 42075

NOTES:

Kern Island Exch. Less: from BVWSD= 159

RRBWSD: City to RRBWSD= 75

River Loss: City to RRBWSD (Misc.)= 101

Lerdo (NKWSD): KRC&I 30% Ent'l= 754

Lerdo Exch. Plus: KRC&I 30% Ent'l= 471

Lerdo (NKWSD): City to CWD (Misc.)= 753

Lerdo Exch. Less: BVWSD via CWD= 435

NKWSD/KCC&W Co. Ent'l: Reflects NKWSD Release to City (inability to divert natural flow ent'l)= 2273

NKWSD/KCC&W Co. Ent'l: Reflects NKWSD Release to City (in excess of maximum diversion right)= 2509

Calloway Exch. Less: NKWSD for ID4= 567

River Loss: NKWSD for ID4= 8321

Truxtun Lakes: NKWSD for ID4= 71

South Fork transfer to City: In excess of carryover storage requirement = 873

CITY OF BAKERSFIELD
KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: December 2002 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....	28189
LESS NON-CONTRIBUTING CANALS.....	18446
FOR OTHERS AND FIRST POINT CANALS.....	9743
TO BE CONTRIBUTED BY OTHER CANALS.....	676
TO BE USED BY OTHER CANALS.....	9067
EACH OTHER CANAL TO RECEIVE.....	N/A % OF IT'S DIVERSION RIGHT

QUANTITIES IN: ACRE-FEET

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

DIVERSION RIGHT				GROSS DIV'R	GROSS ENT'L	RELEASES			ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES				EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS				WATER TRANS. LOSS	
RIVER STAGE	AMT.	NAME OF CANAL				To River	Distribution Direct	Distribution Pro	NKWSD	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWSD	KCC&W Co.	KDWD	OTHER	DIR	PRO
		K.C.L. Co. ENT'L @ 2ND PT.																		
300.0	300	KERN ISLAND (1-ST)		7083	18446	11329					7117			44			7039			58
		EASTSIDE																		
		KERN RIVER CONDUIT																		
320.0	20	CASTRO			300		8													
		KCC&W Co.			807		115			1230			2539						2	
330.5	10.5	SOUTH FORK		12	581	569						12						12		
410.5	80	BUENA VISTA (1-ST)		1057	3489	2365	293				1417						1057			348
530.5	120	JAMES (1-ST)			2250		3796		6010	36										
550.5	20	ANDERSON (1-ST)			192		561		713	40										
700.5	150	STINE		54	938	932	64				70						54			4
730.5	30	MEACHAM			115		966		1021	60										
880.5	150	FARMERS		81	395	387	93				101						81			8
920.5	40	PLUNKET					1363		1284	79										
960.5	40	JOYCE					1323		1244	79										
1000.5	40	JOHNSON					1269		1190	79										
1130.5	130	PIONEER (1-ST)					3838		3502	336										
1190.5	60	BEARDSLEY (1-ST)		80			52					52						80		
		LERDO (NKWSD)		5589									4	2533	4986	603				
1200.5	10	ANDERSON (2-ND)					198		198											
1240.5	40	JAMES & DIXON					446		386	60										
1250.5	10	WILSON					60													
		KCC&W Co.					40			100										
1276.5	26	McCAFFREY					244		206	38										
		McCORD	LERDO 30%				228		228											
1376.5	100		BEARDSLEY 70%									0								
		CALLOWAY	CENTRAL 20%	110			125			125				110						
2226.5	850		NKWSD 80%				500		500											
		RAILROAD	KCC&W Co. 20%																	
2426.5	200		NKWSD 80%																	
2516.5	90	BUENA VISTA (2-ND)																		
2696.5	180	JAMES (2-ND)																		
2866.5	170	PIONEER (2-ND)																		
3106.5	240	BEARDSLEY (3-RD)																		
3162.5	56	KERN ISLAND (2-ND)																		
		ROSEDALE RBWSD		2533												2533			807	
		TRUXTUN LAKES		22										22						
		LAKE MING														26				
		KERN VALLEY GOLF COURSE																		
		CALIFORNIA WATER SERVICE CO.														44				
		OLCESE WD														11				
		BVWSD VIA KDWD											44							
		BVWSD TRANSFER TO 1ST PT. GRP.												10						
		NKWSD FOR ID4											5223						5051	40
TOTALS			81	16621	27513	15582	15582	0	16482	2262	8705	64	7810	2719	4986	3217	8231	92	5860	458
		LOSS		6992	676														6318	
FLOW AT FIRST POINT			81	23613	28189															

ISABELLA RESERVOIR				
IN	PREVIOUS BALANCE	LOSS	OUT	CURRENT BALANCE
20	2500	20	0	2500
0	0	0	0	0
775	14573	119	0	15229
0	600		0	600
12	1500	12	0	1500
12	1500	12	0	1500
12	1500	12	0	1500
8	4733	38	36	4667
3853	43621	350	109	47015
4692	70527	563	145	74511

TOTAL CHANGE IN STORAGE = 3984

NOTES:

Kern Island Exch. Less: from BVWSD= 44

KCC&W Exch. Plus: NKWSD to City (B/P)= 2533

RRBWSD: City to RRBWSD= 2533
River Loss: City to RRBWSD (Misc.)= 807
Lerdo (NKWSD): City to CWD (Misc.)= 603

NKWSD/KCC&W Co. Ent'l: Reflects NKWSD Release to City (inability to divert natural flow ent'l)= 807

Calloway Exch. Less: NKWSD for ID4= 110
River Loss: NKWSD for ID4= 5051
Truxtun Lakes: NKWSD for ID4= 22

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

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

JANUARY

Units in acre-feet

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1954	318	318	318	318	318	319	319	319	319	318	318	319	318	318	318	317	318	319	328	322	318	317	317	425	564	371	359	354	353	348	347
1955	9659	9705	9751	9782	9828	9866	9897	9935	9981	10062	10103	10152	10160	10160	10177	10226	10209	10234	10209	10177	10177	10177	10168	10168	10168	10168	10168	10168	10168	10168	10177
1956	79823	80916	81717	82627	83262	83714	84353	84842	85218	85556	85932	86308	86729	87000	87350	87932	88358	88707	88978	89211	89521	89793	90181	90775	97873	103902	111556	114739	117165	118398	119727
1957	130263	130263	130213	130213	130162	130162	130162	130112	130062	130062	130062	130413	130413	130413	130363	130313	130313	130263	130263	130413	130413	130363	130313	130313	130413	130363	130263	130263	130213	130213	130263
1958	101413	101413	101370	101328	101328	101328	101328	101328	101286	101286	101244	101244	101201	101201	101159	101159	101117	101117	101074	101032	100990	100947	100947	101540	102302	103293	103728	103815	103815	103771	103711
1959	198047	197981	197916	197786	197786	198177	198112	198112	198112	198112	198047	197916	197851	197786	197786	197721	197655	197655	197590	197525	197525	197460	197460	197395	197395	197199	197004	196874			
1960	71575	71542	71509	71509	71542	71509	71509	71542	71542	71608	71805	71805	71838	71970	72036	72036	72036	72036	72036	72003	72036	72036	72003	72036	72036	72069	72069	72036	72036	72036	72003
1961	29101	29101	29082	29082	29082	29064	29064	29064	29045	29045	29027	29027	29010	29010	28992	28992	28974	28957	28957	28939	28921	28921	28903	28886	28886	28921	28939	28939	28921	28921	28903
1962	17524	17524	17511	17511	17498	17498	17486	17486	17486	17473	17448	17498	17498	17498	17486	17473	17473	17473	17524	17789	17827	17802	17751	17726	17688	17663	17650	17650	17650	17650	17650
1963	82849	82849	82811	82811	82744	82736	82736	82700	82663	82590	82590	82554	82518	82481	82445	82408	82408	82372	82336	82336	82299	82299	82299	82299	82263	82263	82226	82190	82263	82886	97873
1964	169983	169983	169922	169862	169801	169741	169621	169561	169502	169384	169384	169324	169206	169087	168909	168671	168552	168552	168552	168552	168849	169028	169028	169028	169028	168968	168909	168849	168849	168790	168671
1965	118683	118920	119490	120011	120628	121352	122427	122964	123403	123647	123642	124037	124135	124135	124232	124330	124428	124575	124770	124965	125161	125307	125502	126598	127201	127602	127853	128104	128305	128456	128606
1966	171193	171073	170891	170709	170588	170467	170346	170164	170043	169982	169982	169982	169962	169922	169922	169922	169922	169922	169862	169862	169862	169801	169740	169740	169740	169680	169680	169680	169621	169680	169621
1967	309662	306252	302286	297531	293058	288301	283427	278678	274286	270475	266925	263707	260283	257110	253885	250831	247799	244640	241578	238680	236521	235445	234229	233515	232447	231027	229753	228483	227780	229132	229612
1968	199871	199806	199806	199740	199740	199740	199675	199675	199675	199937	200265	200134	200199	200199	200199	200330	200330	200265	200265	200265	200265	200265	200330	200330	200265	200199	200265	200199	200134	200068	200134
1969	124431	124381	124381	124381	124431	124431	124381	124431	124381	124332	124283	124283	124578	124824	125120	125120	125070	125465	131851	137772	146487	152658	155603	165291	208151	230248	239620	244933	248167	250386	251946
1970	225326	225256	225046	224767	224697	224627	224697	224767	225256	225955	226516	226796	226796	227007	227850	238103	243033	243982	245153	246106	246621	247062	247257	247799	248369	248453	248610	249054	248980	248832	248832
1971	172219	172582	172703	172703	172703	172763	172884	173127	173309	173430	173612	173916	174220	174524	174707	175011	175377	176050	176907	177890	178876	179432	179494	179494	179432	179309	179247	179185	179062	179062	179123
1972	122089	122089	122089	122040	121992	121992	122089	122089	122040	121992	121992	121992	121992	122040	122040	122040	122040	121992	121992	121943	121943	121943	121943	121895	121847	121847	121798	121750	121702	121702	121702	121605
1973	55645	55617	55645	55674	55617	55533	55449	55702	56409	56693	56922	57122	57380	57610	57812	58030	60930	62743	64529	65247	65907	66476	66889	67016	67080	67399	67463	67527	67431	67367	67431
1974	206281	206347	206414	206347	206414	206747	207148	207281	207415	207549	207616	208151	208955	209425	209761	210434	212545	214428	215860	217022	218257	218807	219220	219633	219633	219978	219978	220047	220116	220116	219978
1975	223930	224000	223930	223930	224000	224139	224278	224627	224837	224837	225116	225116	225406	224906	224906	224906	224906	224906	224906	224906	224906	224906	224767	224767	224488	224488	224418	224348	224139	223721	223303
1976	170131	170131	170190	170131	170190	170309	170368	170487	170546	170784	170724	170843	170962	171021	171140	171140	171259	171438	171557	171498	171498	171557	171498	171557	171557	171617	171617	171319	170724	170427	170309
1977	67668	67897	67930	67930	67930	67864	67668	67636	67570	67505	67440	67375	67343	67278	67245	67180	67148	67115	67050	67018	67050	67018	67018	66953	66953	66888	66856	66824	66759	66727	66598
1978	44060	44228	44543	44858	45029	45520	45989	46238	46612	47317	47800	48081	48389	49062	51900	54573	57458	58985	60460	61604	62248	62680	63083	63332	63456	63581	63738	63769	63832	63894	63926
1979	244755	244458	244606	244904	245203	245128	245203	245203	245352	245054	245652	246251	246624	246924	247599	247675	247750	247675	247599	247449	247299	246999	246849	246474	246251	246101	245502	245652	245427	245427	245278
1980	208970	208970	208700	208496	208360	208292	208224	208292	208632	209719	211015	227232	250310	274831	283991	288715	291750	294307	295879	296959	297542	297956	298039	298123	297956	297625	297375	297542	298039	297673	297292
1981	229741	229669	229669	229741	229741	229741	229669	229597	229669	229669	229597	229669	229741	229741	229669	229813	229813	229813	229741	229741	229669	229669	229669	229526	229382	229166	229166	229669	231109	231182	231543
1982	168984	169461	169520	169819	171619	172160	172100	171920	171920	171920	172100	172160	172220	172220	172220	172220	172100	172039	172220	172825	172825	172985	172945	173067	173370	173611	173914	174097	174401	174522	174644
1983	261325	261170	260938	260628	260396	260319	260242	260087	260010	260164	260551	261015	261558	262099	262332	262177	262254	262177	262177	262177	261944	264120	268344	272210	275707	277705	281402	284397	287000	289125	290764
1984	312967	313823	314423	315536	316654	317340	317771	318375	318807	318720	319755	320015	319842	320101	319842	319755	320015	319842	319582	319409	319064	318977	318289	317254	315708	314251	311261	309475	307017	304991	302636
1985	244979	244629	244680	244383	244085	243787	244085	244458	244531	244458	244531	244309	243936	243787	243564	243117	242671	242302	241931	242153	242671	243117	243489	243862	244085	243862	243862	243787	243787	243862	244085
1986	195579	195645	195841	196627	198664	199918	200513	200579	200712	200845	201044	201244	201377	201576	201643	201709	201843	201976	201976	202174	202241	202374	202308	202308	202374	202374	202374	202374	202574	204246	205724
1987	244011	243936	244011	244531	244680	245278	245427	245427	245352	245352	245352	245352	245427	245352	245427	245352	245203	245278	245502	245502	245502	245427	245502	245427	245352	245278	245054	244904	244755	244680	244606
1988	143030	143303	143464	143731	144538	145023	144969	145077	144969	144862	144808	144700	144754	144700	144592	144700	144862	144969	144969	145023	145023	144915	144969	144915	144915	144862	144862	144808	144700	144538	144431
1989	73477	73444	73342	73275	73241	73342	73275	73208	73208	73208	73208	73174	72973	72939	72906	72839	72839	72872	72939	72939	72973	72906	72872	72872	72772	72705	72705	72671	72504	72303	72004
1990	85902	85978	85940	85940	85902	85940	85940	86015	86015	85978	85978	85978	86129	86167	86015	86015	85940	85940	85940	85902	85902	85940	86015	86091	86015	85940	85789	85638	85488	85376	85263
1991	45990	45966	46086	46279	46351	46279	46158	46110	46086	46062	46014	46014	45966	45990	45966	45942	45919	45942	45942	45990	45990	45990	45966	45990	45966	45966	45966	45942	45919	45895	45871
1992	89615	89499	89421	89421	89538	89538	89771	89693	89576	89499	89383	89383	89267	89189	89228	89228	89305	89305	89305	89228	89150	89112	89073	89034	88957	88918	88918	88918	88918	88918	88879
1993	82226	82226	82262	82226	82153	82189	84217	87764	88957	89460	89610	90122	90512	91219	91889	92404	92962	93962	94566	94849	95416	95945	96517	96927	97256	97503	97750	97957	98164	98289	98413
1994	242450	242450	242376	242228	242153	242079	242079	242005	242005	242005	242005	241931	242931	242931	241857	241783	241783	241708	241708	241634	241634	241560	241634	241560	241486	241338	241264	241190	241116	240968	240600
1995	115538	115538	115492	116281	116421	116468	116795	117075	117496	119288	121865	124041	125750	127229	129770	131432	132446	133108	133721	134131	134747	135211	135829	136555	137386	138430	139323	140113	140801	141436	142075
1996	246474	246474	246399	246326	246326	246326	246326	246251	246176	246101	246026	245951	245876	245801	245652	246774	249481	250009	251522	252127	252507	252811	252735	252963	253572	254027	254409	255096	255555	255860	256396
1997	253267	265992	301715	317599	327408	334267	339774	344518	348663	352286	355475	358861	361985	364569	367906	370602	373123	375559	377814	380549	383104	386429	392159	396487	404136	414614	421737	427018	430625	432936	434546
1998	242671	242820	243043	243266	243266	243117	243043	243043	243415	243787	244011	244383	244829	244755	245203	246924	247299	246474	245876	244829	244309	244011	243862	243638	243489	243340	243043	242599	242450	242228	242005
1999	244829	244904	244829	244829	244829	244755	244755	244829	244755	244755	244680	244606	244680	244755	244755	244680	244755	244829	245278	246849	247750	247675	247599	247825	248576	249103	249103	248953	248802	248726	248651
2000	168448	167854	167794	167735	167735	167676	167735	167735	167676	167616	167616	167616	167735	167794	167854	167854	167913	167972	167913	167676	167321	166907	166493	166729	167380	167735	167735	167557	167321	167203	167616
2001	129569	129569	129569	129569	129620	129620	129620	129670	129670	129770	130323	130273	130273	130222	130172	130122	130122	130071	130222	130273	130222	130172	130172	130273	130323	130424	130323	130273	130222	130222	130172
2002	106607	106959	107222	107398	107487	107575	107663	107796	107840	107840	107796	107796	107796	107752	107708	107663	107575	107619	107531	107575	107531	107531	107531	107442	107398	107354	107487	107487	107487	107442	107487
Max.	**312967**	**313823**	**314423**	**317599**	**327408**	**334267**	**339774**	**344518**	**348663**	**352286**	**355475**	**358861**	**361985**	**364569**	**367906**	**370602**	**373123**	**375559**	**377814**	**380549**	**383104**	**386429**	**392159**	**396487**	**404136**	**414614**	**421737**	**427018**	**430625**	**432936**	**434546**
Min.	**318**	**318**	**318**	**318**	**318**	**319**	**319**	**319**	**319**	**318**	**318**	**319**	**318**	**318**	**318**	**317**	**318**	**319**	**326**	**322**	**318**	**317**	**317**	**425**	**564**	**371**	**359**	**354**	**353**	**348**	**347**
Ave.	**152717**	**152961**	**153649**	**153966**	**154219**	**154368**	**154505**	**154645**	**154745**	**154864**	**155054**	**155516**	**156115**	**156712**	**157051**	**157542**	**157948**	**158162**	**158501**	**158799**	**159120**	**159414**	**159690**	**160125**	**161411**	**162244**	**162744**	**163055**	**163256**	**163408**	**163841**

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

FEBRUARY

Units in acre-feet

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1954	344	342	340	336	336	335	333	335	336	333	332	334	534	510	397	380	377	388	375	368	365	363	357	353	351	350	346	344			
1955	10185	10160	10152	10152	10152	10152	10152	10160	10168	10177	10144	10144	10152	10161	10161	10193	11315	12134	12290	12392	12476	12559	12596	12606	12606	12606	12616	12626			
1956	120818	121596	122524	123208	123988	124770	125307	125845	126397	127050	127552	127954	128305	128506	128556	128606	128606	128656	128656	128707	128707	128707	128707	128707	128707	128707	128707	128606	128606		
1957	130263	130263	130213	130162	130162	130162	130313	130614	130715	130715	130815	130815	131021	131176	131279	131383	131486	131537	131537	131486	131486	131434	131537	131692	132362	132672	132826	133291			
1958	103771	104032	104119	104468	104773	104948	105122	105339	105470	105600	105644	105861	106123	106297	106471	106558	106689	106907	107395	107708	107931	108155	106379	108693	111696	113494	114416	114555			
1959	196678	196352	196222	196026	195831	195636	195571	195505	195375	195375	195571	195571	195701	195766	196092	196418	196808	197134	197264	197329	197329	197329	197264	197264	197264	197264	197264	197329			
1960	72849	75437	76031	76312	76454	76595	76700	77334	79896	80843	81535	82008	82372	82700	82924	83225	83413	83638	83864	84014	84127	84240	84353	84428	84503	84503	84503	84616	84729		
1961	28903	28886	28868	28868	28850	28833	28833	28833	28815	28815	28797	28780	28762	28762	28744	28744	28762	28709	28691	28691	28673	28656	28656	28656	28638	28638	28620	28620			
1962	17650	17638	17638	17638	17625	17613	17650	20332	23724	26937	31106	33986	35517	36644	37824	38994	39776	40449	41190	41769	42184	42627	42859	43138	43301	43371	43417	43394			
1963	127803	139518	144847	148359	150972	153046	154752	156287	157765	159911	161597	162876	164281	165468	165536	167426	168256	169028	169621	170346	170952	171436	171920	172404	172827	173312	173857	174280			
1964	168552	168434	168256	168019	167781	167544	167307	167070	166833	166595	166536	166476	166358	166239	166179	166179	166120	166061	166001	165883	165705	165408	165112	164756	164459	164162	163866	163631	163515		
1965	128757	128907	129058	129158	129309	129560	129660	129711	129711	129660	129610	129560	129510	129409	129309	129108	128857	128556	128205	127853	127251	126799	126347	125697	125063	124330	123988	123549			
1966	169680	169680	169680	169740	169982	170285	170406	170406	170406	170346	170224	170164	170164	170164	170104	170104	170104	170043	170043	169983	169983	169983	169922	169801	169502	169265	168909	168434			
1967	231665	233301	234801	236162	237527	238825	240199	241578	242815	244274	245813	247357	248980	250757	252170	253587	254633	255082	255608	255758	255758	255758	255532	255157	254708	254408	254184	253811			
1968	200068	200068	200068	200134	200002	199806	199675	199609	199675	199740	199806	199675	199544	199348	199086	198825	199348	199937	200068	200330	200658	201381	201908	202435	202831	203029	203162	203162	203162		
1969	253213	254409	255307	255963	256809	258543	259223	259904	260662	260586	259601	258845	257939	256584	256058	255532	254334	253064	251872	250312	248832	247062	246180	246841	251946	254708	255757	256358			
1970	249128	249349	249497	249720	249942	250164	250312	250535	250683	251277	251872	252244	252691	253288	253586	253810	254035	254334	254483	254633	254783	255008	255232	255532	255757	255983	256058	256734			
1971	179123	179123	179123	179062	178876	178876	178691	178506	178260	178013	177890	177706	177644	177521	177460	177460	177214	177030	176907	176907	176785	176478	176172	175622	175255	174768	174159	173551			
1972	121605	121557	121460	121412	121557	121702	121847	121798	121750	121702	121653	121557	121508	121412	121315	121122	121026	120833	120593	120401	120161	119970	119492	119015	118920	118540	118208	117736	117311		
1973	67495	67431	67367	67335	67463	67752	68170	68428	68558	68914	69926	70980	71712	72415	73022	73394	73768	74109	74417	74726	74932	75139	75381	75658	75832	76075	76354	77124			
1974	220047	220116	220116	219909	219909	219633	219427	219151	218738	218394	217845	217296	216954	216201	215587	214632	213952	212866	211784	210906	209828	208821	208084	207081	205814	204486	203624	202501			
1975	222886	222400	221637	221637	221499	221360	221084	220945	221084	221984	222192	222192	222261	222261	222192	222192	221964	221637	220807	220600	220254	219840	218669	217982	217091	216201	215177	214156			
1976	170131	169893	169420	169243	169065	169138	169302	169124	169716	169893	169953	169893	169834	169893	169893	169893	169953	169775	169953	170012	169953	169716	169302	169065	168711	168298	167769	167122	166829		
1977	66630	66598	66565	66533	66501	66436	66404	66276	66308	66308	66243	66179	66115	66051	65987	65922	65858	65794	65730	65571	65635	65698	65730	65698	65603	65507	65411	65220			
1978	63957	64020	64051	64051	64208	65252	67406	70783	82683	94425	99289	103270	106423	108783	110632	112410	113974	115460	116863	118278	119608	120996	122442	123850	125318	126550	127838	129436			
1979	245352	245577	245427	245352	245352	245427	245427	245502	245577	245502	245577	245577	246176	247900	249103	249556	249858	249858	250159	250537	251597	252355	252963	253267	253496	253877	254104	254409			
1980	296544	295796	295052	294307	293399	292574	291914	291011	289943	288633	287408	286103	284864	284072	283628	285372	289697	316136	333119	344678	354927	361706	366884	370975	373779	375935	378286	380927	383199		
1981	231686	231830	231903	232047	232120	232265	232265	232845	233641	234005	234151	234369	234515	234660	235098	235315	235972	237288	237508	238169	238169	238243	238243	238390	238463	238463	238096	237875			
1982	174766	174888	174583	174644	174279	173732	172825	172160	171258	170957	170597	170238	169700	169819	170119	173550	176353	177888	178936	179926	180795	181604	182354	182730	182979	183041	183230	183104			
1983	291832	292491	292821	292904	293317	295135	300040	304401	307441	309475	310750	312285	316568	319755	322006	324352	326270	328194	330300	331974	333561	335064	336570	337537	339061	342725	350200	357027			
1984	298623	296211	293565	290847	288224	285533	282858	280194	277525	276186	274752	273478	272051	271814	271024	271024	271418	271340	271261	270787	269918	269210	268423	267480	267325	266933	265992	265134	264354		
1985	244160	244458	244680	244829	244979	244904	244755	245128	245352	245427	245054	244829	244458	244085	243564	242969	242228	241634	240674	240230	239566	238905	238243	237582	236850	236118	235388	234660			
1986	206331	206736	206671	207275	207411	207614	207750	207817	208021	208360	208428	210197	224032	230532	238463	245352	250310	260087	274991	284803	290929	295550	299374	302720	306004	309220	312371	315450			
1987	244531	244458	244383	244309	244234	244160	244085	244011	243862	243862	244011	243862	244606	246251	246326	246326	246026	245652	245577	245427	245427	245128	245128	244979	244755	244383	244011	243713			
1988	144377	144377	144377	144269	144215	144108	144000	143785	143464	143250	142982	142661	142340	142128	141808	141596	141330	140905	140536	140113	139638	139113	138588	138013	137491	136970	136503	136296	136036		
1989	71606	71342	71342	71473	71573	71408	71342	71441	71539	71606	71506	71441	71375	71309	71243	71210	71177	71111	71276	71309	71276	71375	71606	71805	72004	72337	73040	73376			
1990	85113	85038	84851	84701	84590	84441	84329	84291	84254	84217	84180	83994	83845	83698	83550	83439	83365	83402	83291	82996	82849	82629	82446	82299	82080	81897	81679	81570			
1991	45847	45799	45799	45752	45728	45728	45704	45680	45656	45632	45585	45537	45561	45561	45561	45513	45465	45465	45442	45418	45418	45370	45370	45370	45347	45324	45300	45347			
1992	86763	86725	86686	86648	86570	86532	86493	86532	86570	86609	86686	89034	89226	89267	89383	89383	89421	89421	89305	89228	89305	89383	89460	89460	89368	89344	89344	89383	89421		
1993	96537	96662	96745	96828	96870	99037	99287	99915	100756	101433	101814	102155	102325	102496	102624	102709	102880	103180	103567	104473	104992	105471	106959	108327	109216	110156	110966	111418			
1994	240009	239271	238390	237949	237435	236850	236631	236850	236850	236850	236777	236777	236631	236484	236484	236411	236557	236777	236850	237070	236950	236557	236191	235972	235753	235534	235171	234660			
1995	142928	143946	144862	145726	146540	147357	148122	149054	149660	150156	150542	150930	151541	153998	155858	156992	157903	158704	159506	160368	161351	162336	163441	164553	165668	166788	167913	168925			
1996	256933	257317	257701	258161	261015	263265	264822	266071	267246	268226	269289	270313	271103	271893	272765	273637	274353	275150	277625	292244	299873	304823	307864	310494	312796	314849	316654	318116	319409		
1997	436061	437474	438284	438487	438687	438788	438588	438284	437879	437069	435758	434042	432432	430826	429019	427018	425222	423626	421637	418860	416094	413727	410879	407745	404526	401030	397837	394560			
1998	242302	244234	244606	244606	244160	243787	244160	244680	244531	244011	243489	243043	242376	245054	248877	250310	250840	250612	250612	250915	251825	257853	267715	274274	278106	280678	282696	283910			
1999	248500	248201	247675	247074	246474	245801	245352	245502	245352	245726	245352	244904	244531	244606	244755	244755	244979	245054	245203	245427	245502	245427	245352	245203	245054	244979	244979	244829			
2000	167794	167735	167676	167616	167616	167557	167499	167499	167440	167499	167735	167972	169222	171258	172764	173672	174157	174583	174766	175069	175619	175925	176597	176842	177149	177457	177826	178318	178688		
2001	130172	130222	130222	130222	130222	130172	129971	129670	129620	129870	130172	130172	130323	130323	130323	130474	130474	130373	130323	130323	130323	130323	130323	130826	130876	130927	130927	130927			
2002	107531	107531	107663	107708	107708	107752	107796	107885	107840	107796	107708	107708	107708	107663	107663	107575	107575	107663	107619	107663	107619	107575	107487	107398	107442	107398	107531	107619			
Max.	**436061**	**437474**	**438284**	**438487**	**438687**	**438788**	**438588**	**438284**	**437879**	**437069**	**435758**	**434042**	**432432**	**430826**	**429019**	**427018**	**425222**	**423626**	**421637**	**418860**	**416094**	**413727**	**410879**	**407745**	**404526**	**401030**	**397837**	**394560**	**383199**		
Min.	**344**	**342**	**340**	**336**	**336**	**335**	**333**	**335**	**336**	**333**	**332**	**334**	**534**	**510**	**397**	**380**	**377**	**388**	**375**	**368**	**365**	**363**	**357**	**353**	**351**	**350**	**346**	**344**	**84729**		
Ave.	**164541**	**164935**	**165052**	**165130**	**165230**	**165365**	**165548**	**165853**	**166329**	**166780**	**167017**	**167211**	**167713**	**168199**	**168648**	**169074**	**169479**	**170352**	**171108**	**171902**	**172406**	**172841**	**173277**	**173601**	**173973**	**174441**	**174512**	**174729**	**186272**		

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

MARCH

Units in acre-feet

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1954	342	342	341	336	331	331	331	331	623	569	492	434	374	360	357	369	384	387	379	390	403	390	387	399	408	407	417	455	463	521	487
1955	12626	12606	12596	12596	12596	12596	12606	12606	12606	12596	12532	12281	11948	11734	11507	11255	10917	10592	10266	9958	9667	9444	9237	9042	8862	8668	8495	8300	8139	7969	7453
1956	128456	128405	128355	128004	128004	128054	127903	127652	127301	126548	125946	125358	124330	123549	122524	121303	120391	119300	118778	118350	118350	118540	119110	119632	120296	121255	122329	123452	124526	125551	127150
1957	133291	133239	133188	133136	133033	133136	133136	133084	133033	132981	132878	132620	132620	132776	132776	132723	132620	132517	132414	132104	131898	131486	131125	130765	130464	130162	129861	129610	129309	128907	128456
1958	114555	114555	114601	114647	114647	114647	114693	114739	114739	114831	114923	115016	115062	115154	116168	117353	119680	121450	122720	124135	126448	129158	131176	132672	133961	135044	136131	137137	137877	138724	139636
1959	197329	197395	197460	197525	197460	197375	197329	197264	197069	196808	196483	196157	196026	195896	195636	195310	194854	194401	193825	193313	192672	192096	191648	191264	191008	190880	190880	190880	190880	190752	190688
1960	84804	84917	84992	85105	85218	85368	85706	86120	86458	86845	87078	87427	87893	88291	88513	88746	88823	88901	89017	89133	89327	89405	89444	89366	89250	89172	89366	90181	90735	91015	91414
1961	28603	28585	28567	28549	28549	28638	28620	28603	28603	28567	28532	28443	28319	28213	28266	28231	28213	28178	28160	28142	28142	28125	28107	28107	28142	28160	28160	28178	28213	28213	28195
1962	43371	43371	43371	43371	43371	43417	43440	43417	43394	43371	43324	43278	43278	43276	43231	43134	43045	42906	42697	42464	42115	41719	41055	40449	39798	39125	38192	37413	36790	36185	35621
1963	174764	175128	175491	175856	176103	176350	176659	176782	176967	177029	176967	176967	176967	176844	176597	176720	176720	176659	176659	176659	176782	176967	177029	177090	177214	177276	177399	179127	180855	181904	182701
1964	163282	163166	162817	162469	162004	161655	161307	160842	160376	160086	159679	159389	159214	158866	158691	158401	158227	157994	157822	157652	157538	157708	157708	157652	157595	157652	157708	157822	157936	158227	158633
1965	123110	122671	122329	121840	121352	120818	120248	119632	118873	118066	117924	118019	117924	117734	117450	117260	117117	117117	117117	117117	117117	117117	117117	117165	117165	117165	117212	117212	117260	117307	117402
1966	168019	167604	167070	166476	165823	165171	164518	163631	162934	162236	161597	160842	160086	159388	158633	157822	157083	156344	155776	155264	154742	154410	154183	154126	154070	154070	154070	154183	154410	154638	154979
1967	253512	253288	253064	253064	252989	252766	252542	252319	252021	251946	251872	251946	252170	252319	252393	253064	256133	258316	260358	262181	264012	265772	267463	269392	271018	272494	273974	275615	277105	278442	280335
1968	203228	203228	203095	202897	202435	201908	202435	202765	202765	202897	203029	203095	203095	203426	203691	204088	204419	204486	204618	204685	204618	204552	204552	204552	204552	204552	204685	204751	204950	205149	205415
1969	256809	256659	256433	255963	255232	253960	252244	250090	248167	246106	243909	241267	237959	233800	229188	224557	220392	216338	212595	208419	204486	200265	195896	192028	188074	184227	180733	177890	175866	174829	175133
1970	257261	257864	258165	258769	259374	259752	260207	260586	260889	261573	261877	262258	262486	262867	263248	263554	263659	264012	264012	263783	263554	263325	262943	262562	262182	262182	262182	262410	262410	262410	262258
1971	172763	171917	170953	170111	169332	168555	167483	166474	165350	164289	163174	162355	161771	160840	160317	159622	159217	158813	158525	158295	158180	158065	158065	158237	158352	159102	160491	161771	162939	163878	164937
1972	117029	116559	116419	116372	116325	116091	115764	115624	115298	115066	115020	115020	115112	115345	115531	115624	115611	115598	116138	116185	116372	116419	116700	116841	116841	116888	116982	116841	116841	116700	116606
1973	77830	78504	79040	79614	79866	80372	80698	81171	81537	81830	82345	82677	82899	82899	82862	82862	82825	82936	83159	83680	84428	84993	85371	85787	86244	86894	87585	88436	89019	89605	90114
1974	201710	203757	204618	204618	204419	204220	204887	205083	205681	206214	206547	207014	207415	208084	206754	209761	210636	211581	212392	213205	214020	214973	215860	216885	218051	219151	219978	220945	222470	224069	225605
1975	213341	212595	211851	210838	210030	209089	208352	207816	207482	207081	207215	207081	206681	206614	206414	206414	206347	206214	206147	206014	206081	206547	206881	207081	208017	209224	209896	210030	210098	210299	210434
1976	166888	166712	166420	166069	165485	164961	164554	164147	163625	163104	162527	162123	161491	161031	160687	160344	160001	159544	159259	158917	158633	158179	157725	157386	157159	156933	156820	156651	156538	156425	156256
1977	65125	65030	64934	64808	64713	64555	64429	64240	64020	64051	63988	63957	63863	63769	63581	63488	63394	63394	63363	63332	63301	63269	63176	63145	63269	63269	63238	63145	63145	63114	63052
1978	132516	138394	144004	156031	166829	173531	178370	182423	186091	189171	192216	194969	197226	199303	201327	203430	205610	207938	210348	212774	215761	220080	223681	226824	229921	233185	236546	240007	243204	246866	254057
1979	254867	255173	255479	255936	256396	256856	257470	258238	259394	260474	261480	262177	262876	263420	263964	265134	265836	266384	267166	268030	268738	269368	269918	270550	271182	271893	273321	275310	276506	277785	278909
1980	384338	386048	388239	390053	392063	393696	395137	395812	396391	396198	395041	393868	392639	391298	390053	389099	387762	386524	385477	383768	382156	380455	378380	376687	374998	372845	370695	368647	366605	364754	363000
1981	237949	237728	237362	237070	237070	237070	236924	236850	236704	236464	236265	236191	235972	235899	235680	235388	235244	234952	235461	235826	236484	237070	237728	238169	238537	239198	239787	240157	240376	240894	241264
1982	182916	182916	183292	183481	183669	183732	183607	183481	183292	183481	185180	186953	188269	189631	191043	192397	194277	195516	196992	197807	198992	200117	201244	202441	203644	204649	205926	207074	208766	209856	211289
1983	367906	376286	386715	393119	397837	402193	406475	410879	414811	418466	421637	424124	426718	435859	439600	441934	444478	446722	448154	449381	450920	452665	454929	458026	459888	461029	462065	463416	464145	465289	467478
1984	263574	262954	262487	262323	261866	261403	261015	260474	260087	259855	259932	259701	259548	260783	261325	261944	262643	263187	263420	263574	264276	264978	265914	267011	268030	269210	270550	271972	273478	274672	275787
1985	233787	233425	232917	232410	231830	231830	231543	231109	230821	230460	229884	229310	226663	228161	227805	227447	227089	226732	226589	226375	226020	225163	225234	225304	225304	225516	228520	229884	230748	231543	232337
1986	318289	321139	323569	326008	328194	330388	332589	342277	350926	359502	366512	372936	378003	382345	386334	389766	392351	394560	396487	398223	399866	401804	403846	405696	407354	409114	410977	413630	415699	418761	421636
1987	243192	242671	242079	241412	241264	242079	242228	242228	242079	241708	241412	240968	240526	239935	239861	239640	238758	238463	238390	237949	237949	237949	237675	237949	238096	238316	238537	238831	239198	239640	239935
1988	135726	135469	135159	134901	134592	134337	134029	133670	133516	133312	133058	132701	132344	131989	131534	131129	130775	130524	130373	130172	129870	129720	129519	129369	129419	129369	129270	129220	129120	129070	129020
1989	73477	75075	77922	79125	80018	80989	82299	83883	85526	86925	88186	89383	90473	91376	92127	92722	93561	94043	94606	95254	95864	96599	97626	98670	100251	101644	102709	103653	104818	106037	107266
1990	81386	81207	81134	81062	80882	80593	80232	79874	79516	79231	78983	78770	78592	78345	78204	78133	78063	78028	77992	77922	77852	77816	77746	77781	77852	77992	78098	78204	78275	78309	78275
1991	45704	45895	45966	49411	58307	60299	61270	61803	62101	62221	62370	62400	62430	62460	62430	62341	62191	62161	62161	62370	62521	62641	62701	62731	62911	63214	63426	63547	63760	63973	64218
1992	89460	89499	89460	89499	89538	89538	89499	89383	89383	89383	89267	89267	89228	89189	89189	89112	89034	89034	88995	88957	88957	88995	89189	89267	89228	89150	89112	89034	88995	88995	89034
1993	111688	112006	112370	112738	113190	113649	114153	114706	115121	115260	115538	116003	116514	117215	118249	119430	120619	122925	124869	126588	128421	130222	132141	134029	136296	139743	142875	145456	147684	149715	151708
1994	233932	233062	232192	231398	230746	230821	230821	230746	230676	230532	230604	230748	230676	230604	230388	230172	230388	230532	230676	230893	230821	230676	230748	230821	230821	230821	230821	230532	230028	229526	229094
1995	169461	170059	170537	171559	173914	177211	179183	180671	182041	189887	203243	211495	217014	221630	226092	230028	233569	236557	240230	244011	248425	252431	255708	258161	260164	261711	263031	264042	265056	265836	266541
1996	320534	321485	322440	323308	326970	329072	330740	332325	333915	335507	337104	339417	341739	343530	344968	346497	348211	350019	352016	354361	356753	359318	361985	364291	366327	368092	369672	371722	373779	375653	377534
1997	391011	387001	383009	379134	375277	371909	368647	365680	362815	360329	358035	356023	354199	352932	351652	350563	349477	348211	346858	345866	345148	344518	344608	344878	345328	345866	346948	348572	350472	351925	352923
1998	284965	285859	286674	287552	288551	289125	289615	289615	289453	289207	289125	289289	289861	290600	290929	292244	293565	295550	297708	299873	302217	304738	307864	311773	316824	320621	324265	328194	330916	333385	335862
1999	244904	244979	244979	245128	245352	245652	245951	246101	246326	246474	246474	246624	246774	246999	247299	247449	247599	247900	248051	248201	248425	248726	249103	249300	249632	250085	250537	250840	251294	251597	251977
2000	179059	179431	179739	180049	180857	181230	181604	181916	182291	182604	182916	183355	183921	184612	185370	186191	187207	188097	188600	189631	190016	190208	190465	190850	191172	191430	191688	192140	192461	192850	193239
2001	130876	130876	130876	130927	130876	130725	130725	130674	130624	130624	130624	130524	130474	130474	130474	130524	130624	130775	131078	131362	131736	132192	132752	133363	134080	134796	135572	136399	137386	138535	139743
2002	107752	107752	107752	107752	107663	107708	107973	108282	108371	108460	108504	108504	108593	108682	108727	108771	108950	109083	109128	109173	109261	109261	109439	109753	109977	110067	110245	110380	110560	110830	111282
Max.	**391011**	**387001**	**388239**	**393119**	**397837**	**402193**	**406475**	**410879**	**414811**	**418466**	**421637**	**424124**	**426718**	**435859**	**439600**	**441934**	**444478**	**446722**	**448154**	**449381**	**450920**	**452665**	**454929**	**458026**	**459888**	**461029**	**462065**	**463416**	**464145**	**465289**	**467478**
Min.	**342**	**342**	**341**	**336**	**331**	**331**	**331**	**331**	**623**	**569**	**492**	**434**	**374**	**360**	**357**	**369**	**384**	**387**	**379**	**390**	**403**	**390**	**387**	**399**	**408**	**407**	**417**	**455**	**463**	**521**	**487**
Ave.	**175047**	**175438**	**175766**	**176215**	**176785**	**177131**	**177392**	**177717**	**178002**	**178376**	**178846**	**179199**	**179475**	**179801**	**180033**	**180275**	**180592**	**180873**	**181182**	**181464**	**181844**	**182278**	**182720**	**183194**	**183678**	**184174**	**184734**	**185373**	**185961**	**186552**	**187281**

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

APRIL

Units in acre-feet

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1954	482	500	517	538	566	590	590	609	650	660	663	654	679	761	1104	2124	3490	5028	6549	8045	9545	11115	12740	14570	16144	17408	18696	20550	22070	23322	
1955	7058	6734	6438	6140	5855	5554	5286	5062	4876	4692	4554	4453	4411	4422	4408	4419	4426	4445	4422	4375	4330	4505	4722	4981	5229	5440	5603	5752	5884	6005	
1956	128506	129911	131176	132259	133342	134528	135714	137137	138618	140206	142025	144521	146583	148526	150361	152364	154183	155946	157538	159214	160667	162236	163925	165942	167485	169028	170406	171557	172525	173615	
1957	127954	127452	127000	126749	126496	126146	125845	125502	125356	125161	124965	124721	124477	124330	124232	123940	124135	124477	124623	124672	124672	124672	124770	124868	125014	125161	125307	125453	125551	125600	
1958	141106	142567	145444	147748	150249	152139	154126	155946	157708	159970	161830	164044	166358	168790	171375	174038	177090	181040	185488	190496	196352	202170	206878	210777	213745	216683	219155	222189	225121	227426	
1959	190688	190752	191008	191200	191328	191648	191840	192032	192288	192480	192672	192864	193121	193313	193505	193569	193569	193761	194061	194273	194465	194854	195180	195505	195961	196418	197004	197460	197851	198438	
1960	91694	92054	92454	93014	93573	94093	94703	95320	95896	96555	97131	97708	98119	98532	99083	99676	100226	100735	101413	102175	103118	104294	105426	106166	106863	107663	108648	109454	110125	110931	
1961	28213	28249	28372	28585	28974	29360	29748	30080	30265	30450	30598	30802	31010	31222	31434	31723	32186	32706	33183	33504	33766	33986	34167	34348	34508	34628	34729	34850	34954	35038	
1962	35038	34328	33705	33263	33143	33404	33986	35038	36560	38214	39529	40808	42347	44205	46614	48935	51446	54524	57668	60661	63075	65397	68136	71278	74382	77017	79532	82226	84729	86612	
1963	183664	184230	184734	185299	185613	185928	187060	189023	190496	191648	192608	193569	194209	195115	196222	197655	198829	199806	200783	201905	202767	203761	204889	205751	206613	207541	208617	209494	210507	211586	
1964	159098	159853	160260	160493	160667	160900	161016	161133	161249	161597	162062	162643	163398	164221	164993	165824	166714	167485	168137	168671	169087	169561	169922	170164	170345	170467	170588	171073	171436	171859	
1965	117829	118066	116540	118730	118920	119110	119300	119585	120154	120486	120818	121303	121791	122378	123110	124086	125161	126297	127652	129560	131640	134064	136342	138618	141265	144087	147359	150194	153387	156571	
1966	155434	156344	157424	158749	159795	160842	162004	163108	164459	165527	166120	166655	167070	167366	167900	168612	169324	169862	170346	170649	170952	171254	171556	171799	172162	172767	173615	174522	175430	176473	
1967	281760	282950	284223	285659	287098	288301	289567	290956	292168	293382	294680	296144	297531	298511	299576	300396	300971	301381	301053	300560	300314	299986	299494	299084	298511	297939	297531	297123	296307	295331	
1968	206347	207482	208084	208754	209358	210098	210771	211378	211851	212325	212866	213545	214769	215587	216201	216543	217228	217433	217845	218257	218601	218876	218945	219220	219427	219978	220945	221707	222747	223582	
1969	175805	175439	175255	173551	173127	173855	171977	168794	165173	162004	159102	157204	156688	156117	154694	152883	151422	150751	150304	150863	152940	156345	159654	162004	162939	163819	164876	166474	168854	172703	
1970	261725	261041	260359	259904	259450	258996	258920	259072	259147	259298	259828	260283	260738	261117	261573	261801	262029	262105	262258	262258	262256	262182	262105	262029	262029	262105	262334	262486	262562	262867	
1971	166000	166889	167602	168436	169153	169871	170532	171073	171615	172219	172824	173369	173977	174768	175439	176111	177214	178260	179062	179742	180547	181106	181479	182039	182476	182725	183163	183601	184039	184478	
1972	116512	116325	115998	115718	115252	114741	114278	113771	113219	112852	112669	112577	112577	112577	112898	113035	113035	112989	112852	112669	112669	112669	112577	112349	112349	112349	112394	112440	112715	113035	
1973	90863	91378	91577	91497	91378	91378	91975	92935	94063	95079	96226	97589	99342	100565	101159	101841	102526	103386	104361	105383	106567	107317	108336	109813	111893	114834	118778	123451	128103	132877	
1974	227780	234729	237959	240706	242159	244128	246253	247946	250461	252393	254109	256058	258014	260131	262334	264318	266387	268619	270785	272727	274520	276320	278127	279940	281443	282871	284462	286458	287820	289587	
1975	210501	210367	210165	210165	210434	210636	210771	210906	211041	211041	211243	211311	211378	211513	211784	211784	211784	211851	211919	212122	212392	212799	213477	214088	215177	215723	215996	216270	216270	216406	
1976	156088	155919	155694	155638	155638	155638	155638	155525	155694	155582	155582	155469	155413	155469	155750	155694	155582	155525	155638	155694	155694	155638	155638	155750	155750	155975	155919	155862	155862	155862	
1977	63052	63083	63083	63052	63052	63052	63021	62959	62928	62897	62897	62897	62866	62866	62835	62804	62804	62990	63083	63145	63425	63706	63926	64083	64271	64366	64681	65030	65443	65890	
1978	260074	264867	268396	271332	273117	274630	275768	276080	276080	276002	276393	277255	278511	280085	281348	282851	283247	283089	282693	282297	281664	280874	280321	280558	281268	281664	281664	281743	282613	283723	
1979	279953	280839	281687	282858	284153	285291	286755	287815	289125	290929	292409	293893	295796	297956	300542	302804	305329	307356	309050	310750	312540	314165	315708	317513	319150	320794	323223	325834	328194	330652	
1980	361432	359685	358035	356297	355018	354106	352832	351471	350019	348934	348301	347490	347219	347219	347759	348572	350019	352196	355018	358402	362169	365124	366884	367906	369765	372470	375186	378946	382345	385667	
1981	241486	241783	242153	242450	242671	243117	243489	244085	244755	245427	246251	246774	247149	247449	247750	248275	249179	250310	251294	252127	252887	253724	254791	256319	258315	259855	261170	262332	263652	265290	
1982	213210	214657	216249	217988	219384	220658	222194	223394	224598	226163	242079	257394	267325	275230	282453	288715	294638	300208	305835	311602	316996	322180	327058	331974	336395	340846	345866	351107	357302	363829	
1983	469046	470615	472606	473762	473236	471978	470196	467896	465184	462065	458958	455342	451432	446926	441934	437069	432734	428119	423529	419356	414614	409698	406377	402873	399479	396101	392831	389670	386619	383958	
1984	277384	276668	280114	281243	282453	283666	284965	285696	287163	287733	289289	290436	291585	292987	294390	295796	296959	298039	299374	300961	302720	304570	305920	306933	308371	309305	310409	311517	312796	313480	
1985	233425	234515	235899	237728	239935	242376	245054	247900	250991	254180	257394	260783	264588	268974	273242	276986	280194	282858	286022	288797	291093	293399	295384	297126	299374	301128	302804	304233	306004	308034	
1986	425521	428119	430524	432734	434748	436564	437980	438890	439295	439701	440209	440920	441527	441832	441730	441425	441123	440513	440006	439600	439803	440920	442442	443461	444784	445804	446415	447745	450304	452768	
1987	240083	240304	240230	240600	240820	241116	241116	240968	240968	241042	241264	241560	241857	242005	242005	242228	242599	243192	243638	243713	243787	243936	244011	244160	244458	245054	245278	245577	245951	246474	
1988	129070	128970	128920	128670	128670	128920	126920	129070	129270	129369	129670	129971	130273	130574	131129	131230	131432	131584	131635	132141	132344	132548	132548	132446	132599	132650	132599	132446	132497	132548	
1989	108460	109708	111146	112552	114015	115536	117261	119288	121480	123700	126046	128221	130273	132294	134438	136763	138955	141224	143464	145689	147957	149680	151263	152487	153549	154559	155349	156027	156594	157049	
1990	78239	78239	78204	78275	78275	78204	78204	78169	78133	78098	78098	78239	78521	78912	79374	80054	80412	80737	80954	81170	81388	81461	81570	81897	82043	82153	82372	82849	83402	83957	
1991	64524	64832	65140	65605	66543	67807	69445	70749	72171	73748	75212	76350	77291	78204	79161	80197	81170	82043	82922	83771	84552	85225	85827	86470	87268	88186	88995	89927	90865	91929	
1992	89226	89344	89538	89693	89966	90317	90706	91258	91929	92762	93561	94364	95173	95986	96845	97709	98537	99789	101221	102539	103824	105209	106300	107266	108327	109618	111056	112779	114568	116374	
1993	153717	155970	158308	160630	163792	166552	169222	171679	174279	177272	180174	183157	185686	187906	190016	192269	194667	197020	199323	201976	204918	208089	211221	214243	217432	221067	224953	228735	232772	237142	
1994	229022	229166	229166	229094	228879	228448	227876	227447	227232	227161	227018	226804	226518	226163	225949	225807	225678	225807	225807	226163	226661	227375	228090	228735	229166	229597	230028	230316	230676	231182	
1995	257325	268108	268895	269681	270629	271103	272210	273242	274752	275667	276666	277625	278668	280114	281402	282129	282696	282777	283020	283182	283344	283101	282696	282372	282291	282696	283423	284640	287082	293069	
1996	379418	382440	384906	387284	389670	391967	393985	396101	398513	400545	402776	405208	407647	409996	412351	415502	418959	422433	425022	427419	429621	431326	433036	435051	437879	441324	445907	450818	456064	461236	
1997	353925	354562	354927	355292	355840	356389	356753	356753	356572	356572	356936	357760	358586	359134	359685	360237	361250	362830	364199	366141	368740	371536	374623	377440	379982	382630	385857	389003	392255	395234	
1998	338172	340132	342187	344249	345596	347309	348462	349387	350200	351017	351925	352741	353197	353379	353470	353288	353014	353014	353379	354381	356480	359961	364199	368275	372190	375653	379229	383009	386524	390244	
1999	252279	252583	252887	253191	253648	253877	254256	254562	255020	255479	256089	256626	257163	257853	258700	259701	261093	262254	263498	264900	266306	268030	269524	270550	271497	272131	273003	274035	274831	275707	
2000	193563	193628	193563	193563	193628	194017	194537	195124	196037	196758	197281	197544	197807	198202	198730	199058	199455	199918	200382	201177	201976	202842	203377	203844	204313	205052	206061	207614	209311	210679	
2001	140854	142022	143142	144054	144592	145077	145889	146485	146975	147466	147848	148176	148615	148999	149439	149935	150542	151208	151929	152878	153886	154672	155519	156537	157675	158932	160484	162278	164201	166079	
2002	111779	112461	113236	114061	114982	116003	116935	117966	118861	119952	121001	122442	124138	125898	127924	129569	130977	131887	132701	133363	134080	134644	135159	135624	136036	136711	137543	138273	138850	139376	
Max.	**469046**	**470615**	**472606**	**473762**	**473236**	**471978**	**470196**	**467896**	**465184**	**462065**	**458958**	**455342**	**451432**	**446926**	**441934**	**441425**	**441123**	**440513**	**440006**	**439600**	**439803**	**440920**	**442442**	**443461**	**444784**	**445804**	**446415**	**450818**	**456064**	**461236**	
Min.	**482**	**500**	**517**	**538**	**566**	**590**	**590**	**609**	**650**	**660**	**663**	**654**	**679**	**761**	**1104**	**2124**	**3490**	**4445**	**4422**	**4375**	**4330**	**4505**	**4722**	**4981**	**5229**	**5440**	**5603**	**5752**	**5884**	**6005**	
Ave.	**188049**	**188834**	**189537**	**190186**	**190796**	**191436**	**192040**	**192579**	**193174**	**193769**	**194703**	**195679**	**196600**	**197485**	**198374**	**199232**	**200139**	**201053**	**201979**	**202986**	**204055**	**205174**	**206254**	**207290**	**208359**	**209448**	**210654**	**211982**	**213399**	**214938**	

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

MAY

Units in acre-feet

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1954	24185	24967	25800	27060	28752	30787	33086	35662	38308	40610	42524	44513	46388	48500	50632	52450	54360	56948	60040	63089	66194	68504	70430	72232	73805	75100	76304	77312	78608	79770	80574
1955	6209	6400	6560	6705	6862	7110	7453	7957	8381	8804	9383	10168	11090	11911	12411	12646	12933	13290	13841	14635	15525	16717	17940	19230	19982	20443	21152	22283	23816	25552	26836
1956	174522	175552	176844	179003	181102	183035	184859	186305	187688	188895	189984	190816	191520	192096	192736	193377	194401	195440	197004	198568	200327	203231	206878	211114	214967	218125	221630	224912	228193	231671	235080
1957	125356	125063	124819	124721	124917	125307	125946	126347	126699	126950	127050	127150	127301	127552	127803	127954	128154	128807	132878	135147	137084	138406	139942	141106	142187	143219	144467	145770	147248	148415	149860
1958	229327	231600	234441	237964	242442	247876	253518	259680	266231	273266	279857	285345	289746	294035	298924	304591	311251	319163	327690	336589	344541	352873	361472	368714	375193	381192	387045	392651	398034	403243	408509
1959	199219	199936	200327	200718	200979	201374	201639	201838	201971	202170	202568	203297	204159	204955	205817	206149	206613	206878	207275	207541	207674	207674	207674	207607	207607	207541	207475	207342	207210	207210	207210
1960	111742	112572	113356	114232	114785	115430	116122	116832	117639	118683	119110	119063	118778	118683	118683	118920	119158	119253	119205	119110	118920	118825	118635	118493	118445	118303	118208	118398	118588	118778	118730
1961	35204	35497	35630	36185	36435	36727	36980	37240	37499	37759	38020	38257	38473	38690	38929	39192	39574	40058	40561	40966	41417	41836	42394	42975	43580	44277	44952	45556	46137	46589	46990
1962	88320	90455	92814	95814	99422	103597	107708	111513	114969	117782	119869	121596	123110	124379	125551	126648	127552	128656	129460	130413	131021	131383	131537	131692	131898	131898	132052	132052	132001	132156	132672
1963	212733	214150	216203	218125	220322	222468	224772	226867	228759	230748	232736	234654	236591	238325	240203	241937	244275	246994	250380	253891	257402	261123	264769	268471	271946	275385	278524	281917	284867	287657	291203
1964	172464	173009	173312	173554	174038	174220	174522	174825	175128	175491	175918	176473	177399	178571	179806	181225	182659	184105	185676	187436	189407	191200	192993	194401	196026	197786	199024	200066	200783	201441	201507
1965	159911	163340	165705	167604	168968	170588	172101	173070	174522	175431	176350	177152	178016	179251	180485	182156	184419	187499	190752	194593	197851	200718	203297	205486	207475	209427	211518	214082	217233	220596	223795
1966	177584	179818	180300	181657	183161	184671	186431	188191	189599	190816	192032	192993	194017	195505	196938	198307	199806	201507	203363	205088	206547	207740	208954	210237	211451	212733	213947	215173	216203	216890	217370
1967	293869	292491	290876	289426	288301	287098	286058	285419	285818	287419	287820	287419	287018	286698	286778	287820	289909	293058	297123	301628	306750	313930	321195	328372	335282	342351	349226	355454	361375	366347	371169
1968	224488	225535	226516	227358	228343	229330	230177	230956	231595	232234	233088	233800	234729	235445	236090	236664	237527	238392	239754	241287	242814	244421	245299	245813	246474	247430	248832	250461	252244	253885	255232
1969	177030	181603	185988	189345	191068	192734	196935	201447	208151	216954	226235	234729	244713	255232	266003	276712	288381	300806	313090	324346	335890	348164	358498	369710	381465	393595	405536	416887	428892	441474	454244
1970	263325	263706	264088	264547	265083	265619	268310	267001	267848	269160	270088	271018	272027	273194	274989	277262	279254	282474	285020	287098	289024	291037	293463	296470	299166	301464	303523	305921	308412	311165	314182
1971	184981	185547	185925	186366	186682	187378	188011	188709	189472	190365	191260	192156	193056	194215	195572	197130	198825	200199	201447	202369	203624	204618	205548	206347	207415	208687	210704	212325	213748	214837	215928
1972	113265	113771	114325	114973	115485	115998	116466	116935	117452	117972	118540	119063	119635	120257	120833	121315	121798	122040	122331	122360	122380	122283	122186	122137	122186	122283	122574	122769	123012	123109	123402
1973	137088	139625	143002	146817	150863	153957	157089	160665	165291	171073	177890	185295	192670	200396	208084	214837	221984	229683	237599	245593	252318	258618	264471	270397	276399	282633	289024	296959	305838	313510	320261
1974	292168	294274	297286	300888	301183	306750	309578	312923	317129	322215	327514	333029	338502	343404	348872	354026	359678	362547	366256	369346	372266	375014	377588	380263	382948	386667	391153	396138	400871	405345	409846
1975	216543	216817	217228	218051	218876	219633	220323	221568	223303	224976	227077	229612	232447	235516	238697	242669	246283	249942	254259	259223	262715	265466	268156	270940	274676	278676	283030	287339	291845	296307	301135
1976	156200	156651	157103	157103	157499	157952	158406	158804	159316	160058	160630	161318	162296	163567	164844	165952	166829	167534	168063	168181	168475	168770	168947	169006	169124	169420	169597	169597	169834	169834	169536
1977	66147	66372	66501	66469	66565	66727	66856	67213	67375	67570	67701	67864	67995	68061	68126	68422	68586	68718	68850	68982	69114	69313	69745	70146	70481	70749	70918	71053	71198	71560	72138
1978	284041	283882	283723	284280	286669	288588	289872	290354	290997	292044	294306	297392	301724	307248	313327	319048	322694	326275	329792	333502	337146	341775	346171	349355	351220	355142	357471	360708	364414	369050	374636
1979	333208	335507	337904	340578	343261	345956	348482	350835	352741	354562	356206	358219	360237	362536	364846	367441	370231	373498	377158	381211	385572	390340	394945	399285	403360	407354	411761	416191	420050	423626	426816
1980	389386	393023	396871	401513	406572	411957	417971	423230	428618	433638	437575	440818	443664	446213	448052	450099	452563	456064	460510	465914	471664	477341	482942	487512	490924	493596	495636	497248	498540	499831	501234
1981	267637	270471	273083	274991	276586	277705	278568	279631	280758	281887	283182	285047	287000	289289	290600	291997	292821	293462	294141	294638	294969	295301	295713	296378	297126	298456	299792	300877	302217	303645	305160
1982	370511	377158	383863	389957	395523	401224	407061	412941	418367	423529	428119	432332	436554	440818	444968	449176	453798	458440	462896	467582	472606	478268	484110	490499	496817	502961	508922	514152	518309	522044	525349
1983	380833	377346	373498	370324	367162	364476	361965	360421	358861	358219	357577	356480	355566	353652	352377	352923	353652	354653	356023	359318	364569	372096	381685	392351	404039	416290	429520	444170	458854	471768	485702
1984	314251	315278	316396	317513	319236	320967	322353	323917	326008	328457	331709	335507	339685	343889	347580	350563	353288	355749	358677	362077	365956	369579	373404	377346	379982	383768	387571	391011	394177	397933	400836
1985	309901	312456	314935	318116	320881	323830	326795	329423	331269	333385	335330	337193	339239	340400	342456	344518	346497	348683	351017	353288	355383	357760	360421	363184	366234	368740	370882	372470	373779	374716	375559
1986	455548	458647	461652	464663	466436	467687	468314	468523	468523	468942	469151	469256	470091	471034	473446	475232	477655	481036	484654	489003	493065	495853	498217	500262	502853	506534	510880	515571	521163	526894	533100
1987	246924	247299	247449	247975	248802	250009	250764	251749	252963	254485	255708	257010	258392	260087	262099	264666	266384	267637	268738	269681	270629	271261	271734	271893	271814	271972	272210	272289	272527	272765	273083
1988	132497	132446	132599	132599	132650	132752	132752	132854	133108	133159	133210	133465	134183	135314	136659	138273	139849	141171	142182	143464	144754	146268	147629	148945	150156	151319	152320	153157	154111	154954	155688
1989	157446	157903	158532	159448	160772	162278	163792	165492	167321	169162	170478	171559	172522	173430	174218	175010	175680	176292	177088	178011	178936	179739	180733	181354	181916	182479	183041	183732	184236	184549	184738
1990	84291	84515	84701	84925	85300	85789	86507	87306	88071	88725	89383	89732	90122	90395	90747	91022	91140	91376	91455	91573	91613	91810	91889	92127	92364	92444	92523	92882	93440	93842	94204
1991	93041	93962	94849	95619	96435	97360	98620	100293	102368	104170	105514	106607	107619	108727	109887	111192	112870	114475	115910	117215	118483	119714	121049	122877	125261	128024	130624	132803	134644	136711	138535
1992	118060	119525	120905	122442	123895	125457	127229	128870	130775	132701	134592	136503	138430	140430	142340	144108	145835	147193	148176	149054	149770	150267	150598	150875	151097	151541	152041	152599	153046	153325	153549
1993	242005	247074	252051	257624	262254	266462	270234	274114	278106	282210	286592	291093	295135	298706	302468	306340	310494	314935	319755	324788	329599	334533	339864	345148	350200	354290	357760	360605	363184	366141	369206
1994	231758	232265	232845	233353	233787	234369	235315	236045	236557	237070	237875	238905	240600	242525	244531	246326	247825	248953	249707	250310	251143	251825	252583	253267	253951	254562	255326	256243	256933	257701	258469
1995	300710	307780	313652	318534	323308	327233	330212	332854	335064	337282	339774	342725	345956	348482	351017	353925	356572	358953	361524	364661	368368	372564	376969	381211	385001	388239	391778	395426	398900	402387	406282
1996	466227	471244	476075	480612	484747	488576	492208	495745	499292	502636	506643	510771	514699	518857	523035	526894	530103	531877	533100	533656	533656	533433	532988	532544	532099	531435	530991	530547	530547	530547	530547
1997	398320	401224	404233	407256	410192	413335	416487	419753	423230	426618	430022	433638	437575	441527	446009	451023	455858	460302	463729	465810	467060	467896	469151	470824	471559	471664	472291	473131	475338	477760	481036
1998	394752	399576	404428	409604	415107	419554	423230	425621	428320	431326	433941	436766	439093	440209	440513	440816	441123	440920	441222	441527	442442	443359	444580	446111	448154	450304	451637	452563	453798	454517	455445
1999	276666	277384	277865	278427	279150	279953	280920	282210	283666	284965	286592	288388	290682	292656	294636	296211	297708	299457	301547	303561	305667	307864	309901	312029	314080	316568	319150	321399	323917	325834	327495
2000	212660	214588	217083	219874	222828	225664	228592	231615	234223	237142	239861	241857	243638	245203	246399	247599	248726	249707	250915	252355	254409	256856	260010	263730	267246	270787	274353	277865	281243	283666	285696
2001	168210	170897	173370	175375	177211	179183	181666	184549	187842	191494	195254	199058	202109	204380	206533	209379	213072	216597	219524	222335	225166	227876	230244	232410	234660	236777	238537	240157	241634	242671	243564
2002	139849	140271	140748	141224	141702	142234	142982	143839	144538	145347	146161	146812	147357	148286	149274	150598	152264	154223	156140	157960	159391	160599	161467	162045	162685	163383	164377	165550	167025	168686	170657
Max.	**466227**	**471244**	**476075**	**480612**	**484747**	**488576**	**492208**	**495745**	**499292**	**502636**	**506643**	**510771**	**514699**	**518857**	**523035**	**526894**	**530103**	**531877**	**533100**	**533656**	**533656**	**533433**	**532988**	**532544**	**532099**	**531435**	**530991**	**530547**	**530547**	**530547**	**530547**
Min.	**6209**	**6400**	**6560**	**6705**	**6862**	**7110**	**7453**	**7957**	**8381**	**8804**	**9383**	**10168**	**11090**	**11911**	**12411**	**12646**	**12933**	**13290**	**13841**	**14635**	**15525**	**16717**	**17940**	**19230**	**19982**	**20443**	**21152**	**22283**	**23816**	**25552**	**26836**
Ave.	**216543**	**218152**	**219764**	**221461**	**223114**	**224877**	**226618**	**228370**	**230239**	**232256**	**234245**	**236202**	**238236**	**240260**	**242368**	**244546**	**246775**	**249101**	**251586**	**254082**	**256559**	**259103**	**261653**	**264182**	**266632**	**269143**	**271670**	**274199**	**276780**	**279243**	**281714**

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

JUNE

Units in acre-feet

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1954	81176	81990	82952	83784	84544	85000	85190	85304	85380	85304	84734	83974	83214	82360	81546	80843	80140	79437	78716	78176	77600	77132	76700	76016	75135	74155	73105	71722	70634	69512	
1955	27558	28178	28656	29323	30413	32340	34708	37154	39058	40920	41975	42720	43092	43208	43347	43557	43464	43347	43255	43231	43208	43208	42999	42650	42254	41812	41279	40741	40292	39753	
1956	238108	241431	244128	246920	249345	251575	253817	256207	258844	261731	264693	267390	269552	270865	272023	272563	272795	273345	274129	274635	275149	275620	276169	277111	278759	280250	280881	281758	282395	283033	
1957	151805	154695	158517	162004	165053	168019	170588	173312	176103	178139	179003	179683	180979	182093	182973	183476	183601	183790	183916	183979	183916	183350	183035	182596	182093	181642	181719	181904	181719	181164	
1958	413405	417863	422129	425563	428603	430859	432833	434719	436604	438490	439979	440376	440773	441071	441766	442268	443072	443474	444980	447491	449398	450805	452520	453130	453130	452520	454146	455162	453536	451608	
1959	207143	206480	204889	203363	201838	200392	199024	197525	195505	193569	191392	189343	187185	184671	182030	179498	176967	174341	171617	168909	166239	163224	160493	157367	154240	151305	148525	145661	142893	140259	
1960	116730	116825	116873	116825	116588	117924	117022	116076	115016	113863	112711	111424	109991	108469	106950	105296	103554	101879	99930	97914	95690	93533	91295	88978	86574	84240	83450	82590	81753	80989	
1961	47316	47567	47743	47993	48344	48831	49404	49951	50498	51019	51419	51771	52150	52501	52825	53042	53096	53096	53096	53015	52906	52690	52474	52177	51771	51392	50993	50629	50212	49664	
1962	133755	135508	137677	139677	140948	142187	143653	145607	147693	150194	152705	155093	156969	158517	159911	159970	159970	160667	162004	163606	165883	168019	169882	171073	171799	172464	173191	173615	173675	173554	
1963	294844	298760	303112	307002	310584	314011	316714	319417	321954	324351	327348	330431	333033	334941	336936	339985	344025	348782	353407	357960	361742	364354	366344	367164	367602	366714	369443	369990	369717	369261	
1964	201838	202104	202236	202634	203032	203562	203626	203363	202568	201772	200653	199610	198698	197851	196939	195701	195049	193569	191968	190368	188831	187436	186053	185676	184419	182847	181040	179189	177276	175310	
1965	227495	230606	233020	235222	238253	241937	245892	249639	252471	254863	258085	262187	265922	268702	270710	272023	272641	273031	273658	274600	275934	277268	278524	279308	279779	280171	280485	281041	281758	282635	
1966	217576	217645	217782	217919	217988	218125	218125	218262	218193	217713	216958	216134	215104	214217	213071	211451	209966	208415	206812	205221	203496	201573	199610	197916	196352	194984	193825	192736	191392	190112	
1967	374280	376759	378879	380818	382577	384433	386387	388813	391904	395667	399732	404105	408790	413504	418148	423209	425850	428204	431354	433428	435804	438385	440975	443873	446881	449798	455258	461160	467719	474844	
1968	256433	257713	258996	260131	260965	261193	260738	260207	259374	258467	257261	255983	254483	253138	251872	250757	249423	247946	245960	244348	242669	241142	239475	237887	236305	234372	232092	229753	227498	225465	
1969	467616	480772	493272	503796	512383	520065	526713	532413	536047	537593	538145	539141	539694	540912	542798	545466	546802	548029	549815	552501	555418	558680	562178	565801	568071	568857	569095	569663	569436	569663	
1970	317214	320176	322300	323920	324774	325201	325543	326742	327514	327771	327342	327085	326742	326399	325714	324945	324176	323578	323067	322896	322726	322556	322130	321450	320770	320091	319328	318735	317890	316876	
1971	216954	217776	218601	219427	220323	221360	222470	223791	225256	226796	228343	229895	231240	232732	234300	235803	237311	238536	239547	240199	240706	240996	240924	240706	240126	239403	238608	237815	236880	235875	
1972	123793	124136	124332	124431	124480	124038	124824	125465	126109	126555	126754	126705	126506	126506	126406	126357	126158	125811	125317	124578	123793	122671	121508	120449	119158	117925	116653	115485	114371	113403	
1973	328716	333635	338502	343316	348961	354561	360025	365621	371535	376851	380910	384340	386760	389094	390029	390497	391060	391622	392561	393971	394913	395855	396516	396799	397082	397555	398501	399164	399448	399353	
1974	414565	418827	422819	426732	431157	435704	441574	446278	450302	454345	458102	461160	463921	468748	470810	472256	472980	472980	472773	472566	472566	473912	475881	475778	475155	474740	473912	473083	472463	471739	
1975	306170	310747	315275	319328	323237	326485	331128	334068	336673	339812	341825	343644	344899	345780	346751	348076	348695	348695	348518	347811	347192	346398	345780	344811	344107	343316	342000	340861	340161	338851	
1976	169361	169065	168652	167886	167005	166010	164961	163799	162527	161376	160401	159316	158292	157159	155862	154628	153177	151846	150356	149094	147675	146048	144594	143041	141341	139810	138290	136676	134869	132771	
1977	72994	73926	74866	75779	76700	77521	78384	79035	79544	80385	81011	81492	81625	82086	82272	82347	82347	82347	82309	82235	82086	81863	81714	81529	81306	80937	80422	79872	79326	78636	
1978	380265	385377	390149	395328	401019	407039	413298	420483	428321	435438	441415	447433	453188	457962	461535	464400	466556	468408	470574	472537	474712	476789	478245	478870	479078	479808	480747	481373	482209	483569	
1979	429420	431627	433439	435051	436463	438082	440107	441123	441629	441832	442035	441934	441629	440818	439295	437778	435960	434445	432634	430826	428718	427118	425621	424224	422732	421140	419356	417377	415502	413630	
1980	502420	503827	505666	508052	510226	512622	514808	517324	520286	523694	527005	529771	531766	533544	535323	537663	540120	542694	545724	549326	553166	556337	559175	561792	564758	568075	571169	574735	578312	581319	
1981	306510	307610	308456	309390	310579	311858	312456	312456	312456	312285	311773	311176	310326	309560	308541	307102	305751	304233	302720	301296	299873	298289	296627	294886	293152	291340	289533	287570	285614	283585	
1982	528333	530103	531324	532321	533433	533990	534321	534678	536104	537663	539228	540904	542024	542919	544041	546062	547638	548762	550568	552600	553955	554975	555883	556902	557242	557697	558720	559855	560083	560083	
1983	497033	505666	512295	517653	522594	528001	533878	539787	545724	551582	559175	565899	570483	575773	581783	587240	593893	600343	606239	610384	613828	617043	620146	622178	623737	625174	626376	627335	628057	628177	
1984	402776	404428	405598	406086	407256	407159	407745	407061	406572	406377	405891	405306	404916	404623	404331	404039	403749	403165	402193	401321	400642	399866	399186	398707	398223	397740	397257	396774	395908	395519	
1985	376405	377346	378663	379701	380455	381969	383673	385191	386429	387380	388143	388525	388621	388525	388525	387857	387094	386953	384716	383578	382253	380927	379606	377626	376217	374716	373217	371442	369579	367627	
1986	538781	543817	547750	551356	553732	555656	556902	557469	558492	559175	559741	560311	560652	561450	562020	562134	562134	561336	560425	559403	558606	557810	557242	556788	556788	556450	556450	556110	554975	553166	
1987	273876	274831	275467	275707	276026	276026	276266	276266	275946	275310	274752	274114	273399	272448	271340	270313	269131	268108	267168	265914	264510	263498	262487	261248	260010	258931	257776	256473	255173	253648	
1988	155970	156537	157163	157732	158017	158189	158017	157618	157049	156424	155656	155236	154616	153942	153269	152375	151374	150376	149439	148550	148012	147957	147521	147357	147248	146975	146431	145672	144646	143518	
1989	184801	184549	184110	183544	182916	182479	182041	181791	181604	181479	181479	181604	181604	181666	181729	181791	181854	181791	181542	181044	180671	179987	179121	178195	177334	176414	175436	174279	173127	172160	
1990	94325	94325	94284	94404	94567	95092	95538	95945	96394	96968	97297	97420	97420	97297	97091	96927	96640	96354	95986	95538	95011	94404	93801	93201	92563	91889	91415	90826	90239	89693	
1991	140060	141808	144269	147248	150101	152934	155575	158189	160657	163093	165492	167676	169700	171498	173006	174097	174949	175497	175558	175497	175252	175069	174827	174522	174218	173793	173249	172704	172100	171378	
1992	153717	153830	153886	153886	153942	153886	153773	153773	153661	153325	152878	152375	152041	151818	151597	151319	151097	150653	150046	149549	148999	148396	147903	147357	146757	146161	145618	144969	144215	143570	
1993	372003	373779	375277	376781	379606	381779	383768	385477	387094	388812	390819	393119	395523	397933	400351	402387	403941	405403	406963	408724	409604	410192	411075	412154	413433	414910	416191	416883	416982	416883	
1994	259394	260396	261093	261789	262177	262332	262099	261633	261015	260551	260242	259932	259471	258777	256007	257086	256089	254943	253601	252507	251143	249707	248350	246924	245502	244234	242820	241338	239714	238022	
1995	410290	414022	418367	423031	428818	434445	439295	442748	445294	448154	451740	456168	461132	465393	468732	471768	474393	476286	477549	478605	479451	479663	480718	482942	486341	490285	493813	496925	500910	505016	
1996	531213	531988	533322	534989	537105	539228	541464	543480	545277	546624	546849	546624	545949	545724	545724	545499	544603	543480	542585	541576	540456	539004	537105	535212	533433	530991	528773	526562	524356	522044	
1997	484003	486447	488790	490499	491566	491994	491887	491760	491673	491673	491566	491245	491138	491352	491673	491352	490710	490392	490392	490710	491031	490924	490499	489644	488576	487512	486234	484854	483366	481566	
1998	456785	458543	460821	462376	463729	465289	467582	469672	471664	473867	476181	477760	479240	480295	482729	487193	492315	496710	501126	505775	509790	513605	516557	518967	522044	525460	528001	530547	533322	535769	
1999	329072	330300	331357	332236	333031	333738	334181	334267	333627	333561	333028	333119	332943	332766	332413	331974	331533	330828	330916	331357	331445	331160	330564	329667	329072	328633	327931	326970	325834	324527	
2000	287245	288633	289861	290929	292079	292821	293152	293234	293152	292739	292162	291340	290600	290353	290271	290189	290600	290847	290682	290436	290025	289453	288797	287979	286919	285777	284315	282615	280678	278668	
2001	244458	244755	244904	244458	243713	243117	242525	241708	240820	239861	238810	237142	235680	234223	232555	230893	229094	227161	225095	223040	221137	219244	217639	216180	214796	213417	212043	210333	208021	205791	
2002	172583	174157	175375	176476	177560	178936	180484	181791	182667	183104	183292	183481	183607	183858	184173	184047	183607	183292	183355	183481	182979	182667	181979	180857	179739	178688	177580	176292	175010	173732	
Max.	**538781**	**543817**	**547750**	**551356**	**553732**	**555656**	**556902**	**557469**	**558492**	**559175**	**559741**	**565899**	**570483**	**575773**	**581783**	**587240**	**593893**	**600343**	**606239**	**610384**	**613828**	**617043**	**620146**	**622178**	**623737**	**625174**	**626376**	**627335**	**628057**	**628177**	
Min.	**27558**	**28178**	**28656**	**29323**	**30413**	**32340**	**34708**	**37154**	**39058**	**40920**	**41975**	**42720**	**43092**	**43208**	**43347**	**43557**	**43464**	**43347**	**43255**	**43231**	**43208**	**43208**	**42999**	**42650**	**42254**	**41812**	**41279**	**40741**	**40292**	**39753**	
Ave.	**284094**	**286202**	**288165**	**289935**	**291652**	**293265**	**294861**	**296284**	**297561**	**298745**	**299758**	**300670**	**301377**	**302042**	**302574**	**303010**	**303289**	**303433**	**303613**	**303811**	**303894**	**303894**	**303845**	**303626**	**303353**	**303056**	**302790**	**302445**	**301944**	**301369**	

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

JULY

Units in acre-feet

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1954	68240	67019	66524	66392	65259	64329	63647	63089	62686	62110	61270	60280	59500	58633	58137	57470	56687	55816	54920	54052	53152	52342	51478	50658	49878	49280	48578	47876	47084	46388	45456
1955	39372	38886	38473	37955	37283	36519	35830	35204	34586	34147	33565	32963	32302	31723	31280	30802	30487	30228	29970	29730	29471	29175	28903	28603	28284	27948	27523	27089	26650	26209	25804
1956	282874	282714	282077	281200	280171	279308	278524	277582	276483	275385	274207	272641	271096	269243	267390	265536	263782	262187	260743	259984	259908	259604	258996	258692	257933	257402	257253	256506	255535	254041	252471
1957	180670	179930	179251	178201	177399	176473	175552	174522	173494	172283	170770	169087	167129	165053	162934	161772	161074	160260	159447	158517	157538	156571	155662	154695	153672	152705	151694	150861	149971	148859	147804
1958	449700	447892	446386	445884	444879	443775	442469	440674	438391	435612	432634	429584	426642	423503	419899	416313	412727	410424	407265	404392	401534	399358	396805	394251	391436	388446	385550	382577	379069	375839	371722
1959	137507	134631	131795	129209	126096	123940	120818	117734	114693	112019	111110	110305	109365	108379	107395	106428	105426	104468	103554	102770	101964	101117	100226	99252	98366	97585	96925	96267	95443	94703	94053
1960	80114	79459	78813	78179	77510	76876	76277	75539	74756	73938	73020	72036	71047	70058	69102	68104	67082	65996	64995	64097	63292	62460	61681	60931	60152	59408	58625	57871	57146	56430	55729
1961	49169	48648	48093	47567	46990	46489	45990	45556	45097	44567	44012	43440	42743	42092	41417	40785	40112	39439	38777	38063	37391	36727	36102	35476	34769	34106	33504	32902	32302	31665	31029
1962	173070	172404	171617	171012	170285	170709	170406	169801	169146	168137	166655	164993	163689	162004	160435	158924	157481	155945	154410	152876	151138	149582	147804	146041	143978	141645	139254	136925	134477	132207	129811
1963	369170	369170	368987	368805	368440	367984	367619	367437	367255	367255	367437	367802	367802	367619	366982	366526	365614	364264	362912	361382	359761	358320	356699	354830	352962	350828	348515	346222	343762	341215	338758
1964	173494	171859	170225	168493	166833	165112	163282	161423	159389	157253	155150	152989	150694	148359	146149	144032	141971	139942	138036	136237	134425	132572	130918	129359	127903	126799	126146	125551	124819	124037	123159
1965	283192	283990	285027	285903	286700	287497	288215	288694	288937	288937	288613	288055	287577	287178	287019	287099	287336	287736	287418	286700	285824	284628	283511	282555	281598	280250	278836	277346	275934	275463	275463
1966	188645	187251	185799	184165	182476	180671	178938	177276	175561	173855	171977	170111	168198	166415	164760	163174	161713	160085	158525	156803	154921	153053	151198	149748	148360	146872	145229	143652	142194	140905	139678
1967	481616	488526	494435	502621	508724	512598	516271	519305	521370	522893	524201	525620	527369	529559	531864	534174	536268	537262	537593	538698	539035	537041	535717	534504	533293	532413	531205	529699	528573	527697	526275
1968	223721	221845	219978	218257	216543	214769	212934	211041	209022	206947	204884	202699	200724	198498	196415	194409	192477	190620	188836	187251	185610	183914	181977	179804	177829	175744	173916	172098	170652	169213	167899
1969	570688	573882	575253	576168	576626	577084	577199	577428	577428	577314	576970	576397	576970	578116	577428	576512	575024	573539	572284	571144	570005	570232	568867	566936	565121	562744	560710	558567	556541	554183	551493
1970	315949	315022	314098	313090	311917	310496	308912	307497	306087	305093	304101	302698	301053	299494	297857	295981	294355	292815	291199	289587	287820	285818	283666	281443	279383	277498	275380	273194	270785	268234	265849
1971	234944	234015	233230	232376	231382	230107	228765	227288	225745	224209	222747	221291	219840	218257	216817	215177	213748	212528	211311	209828	208218	206614	204817	203095	201381	199544	197716	195896	193957	191900	189918
1972	112258	111166	110083	108962	107804	106567	105339	104208	102998	101798	100565	99342	98004	96720	95406	93983	92374	91140	89683	88048	86702	85446	84391	83345	82198	80953	79666	78861	77936	77019	76040
1973	398974	397933	396516	395195	393783	392091	390685	388907	386946	385084	383133	380910	378417	375840	373181	370166	367163	364173	362908	360385	357064	353491	350645	346927	344195	340774	337195	333721	329835	326228	322896
1974	470913	470191	469160	468028	466583	465049	463512	461262	459426	457187	455055	452726	450504	448268	446178	444073	441773	439579	437391	434912	432341	430172	427910	425948	424382	422331	420091	417663	415242	412925	410999
1975	337282	336064	335022	333461	332078	330696	329404	328029	326571	325115	323152	321195	319582	317721	314434	312420	310162	307830	305507	303028	300560	298102	295575	292815	289989	287098	284223	281364	278442	275537	272805
1976	130995	129436	128037	126550	124779	122829	120756	118705	116676	114669	112869	110904	108873	107176	105717	104401	103227	102060	100860	99585	98445	97107	95739	94343	93163	92073	91272	90355	89722	89170	88737
1977	78023	77521	76878	76133	75392	74691	73891	73053	72070	71053	69945	68949	67831	66791	65762	64808	63894	62928	61941	61025	60209	59342	58513	57808	57052	56360	55675	54966	54237	53514	52799
1978	485035	485874	486084	486294	486294	487029	488080	488712	489132	489975	490608	490608	490186	490502	491030	491451	491346	490818	489659	488080	486189	484406	482627	480851	478766	477309	476581	475439	473366	470760	468614
1979	411663	409408	407256	404916	402873	400642	398707	396487	393792	391106	388812	386238	383863	381306	378663	375653	372564	369206	365587	362446	358769	355363	351925	348753	345506	342008	338350	334798	331269	327844	324352
1980	563870	560264	556381	554451	552592	550161	547965	545543	543010	540138	537732	535327	532702	530311	528151	526564	525883	525883	525996	525316	524182	523505	523052	522600	522034	521130	520342	518968	516962	514266	510904
1981	281644	279872	278106	276426	274353	272210	269918	267794	265447	263031	260551	258007	255555	252963	250688	248275	245951	243936	242079	240230	238243	236338	234515	232410	230532	228807	227018	225095	223252	221208	219244
1982	559516	559061	558492	557810	557356	556677	556110	555542	554862	554069	553279	552373	551356	550116	548762	547525	546062	544153	542136	539896	537328	534655	532099	529882	527226	524797	522264	519846	517434	514917	512295
1983	627576	627696	628659	629623	630705	630825	629141	626256	622658	617995	612995	608252	604114	600108	595179	589220	583521	576925	570827	564644	558492	553279	547863	541688	535546	529992	525460	522044	519956	518967	518528
1984	395041	394367	393792	393023	391871	390436	388621	386334	384053	381874	379606	377346	375465	373498	372377	372377	371442	370602	369485	368554	367613	366512	365217	364384	362907	361250	359685	358035	356297	355018	353470
1985	365587	363461	361432	359042	356663	354470	352196	349659	347129	344968	342545	340042	337726	335241	332325	329599	326883	324352	321746	319409	317340	314935	312115	309390	306679	303898	300877	297789	294390	291011	288060
1986	551243	550003	548875	548088	547412	545949	544041	541688	539004	536104	533433	531213	528995	526452	523584	520176	516557	512732	509140	505666	502204	498647	495745	492744	489751	486554	483260	479874	476391	473026	469360
1987	252051	250461	249028	247374	245951	244234	242599	240748	238977	237215	235244	233353	231398	229526	227447	225166	222899	220928	219106	217083	215349	213486	211632	209924	208224	206456	204716	203042	201377	199719	198268
1988	142287	141064	139796	138326	136711	135211	133619	132090	130775	129369	127825	126390	124820	123215	121672	120285	118767	117308	115677	113923	112142	110380	108727	107178	105645	104299	103223	102069	100967	99999	99120
1989	171438	170717	169879	168984	168091	167025	165668	164026	162568	161235	159966	158704	156765	155293	153996	152711	151208	149825	148341	146868	145456	144161	142875	141436	139849	138326	136763	135314	133926	132497	130977
1990	89189	88648	88071	87459	86810	86129	85338	84478	83771	83328	82739	82116	81534	80862	80304	79659	78947	78169	77326	76489	75797	75006	74222	73444	72537	71772	70979	70192	69445	68606	67775
1991	170597	170179	169939	169760	169580	169222	168806	168151	167262	166374	165492	164669	163909	163149	162219	161061	159851	158646	157560	156765	155745	154616	153437	152097	150598	148999	147357	145781	144054	142340	140695
1992	142768	142022	141171	140271	139481	138693	137908	137074	136347	135726	134953	134285	133721	133210	132548	131787	130876	129921	128820	127626	126390	124967	123700	122635	121672	120715	119571	118296	116982	115492	114015
1993	416883	416784	416784	416685	416388	416388	416290	416191	415996	415897	415699	415206	414219	412646	410781	409016	407061	404916	402582	400157	397740	395234	392831	390723	388908	386810	384623	382345	380076	378003	376123
1994	236625	234442	232482	230460	228592	226732	224811	222826	220717	218546	216388	214243	212043	209924	207817	205724	203711	201643	199521	197478	195516	193693	191946	190144	188289	186381	184549	182604	180609	178627	176658
1995	509249	513168	517105	521713	526231	530880	534989	538445	542694	546512	548649	549552	549552	549439	549213	549213	549777	551921	551921	551020	550342	550229	549326	548201	546512	544378	542024	540456	539116	537775	535992
1996	519956	517653	515133	512732	510117	507509	504907	502204	499399	496280	493491	490924	488576	486234	483579	480507	477549	474393	471244	468314	465184	461753	458129	454414	450920	447642	444784	442035	439194	436463	433540
1997	479557	477549	475443	473657	472083	469986	467791	465601	463104	460406	457819	455651	453695	451432	448769	445907	442850	440107	437879	435556	432835	430323	428019	426618	424723	422632	420348	417971	415600	413040	410388
1998	537775	540008	542136	543929	544828	545612	546399	547525	549439	551695	553166	553955	555089	556223	557469	558492	559403	560652	561564	561906	562134	561906	562362	562474	562020	560994	559855	558606	557015	555089	552939
1999	322962	321399	319755	317857	316224	314508	312625	310835	308881	307271	306004	304738	303393	301965	299873	297789	295713	293893	292162	290436	288551	286755	285291	283991	282696	281162	279389	277146	274672	272289	270313
2000	276586	274513	272289	270155	268030	265758	263574	261711	260010	258161	256396	254638	252659	250612	248877	246624	244383	242228	240083	238022	235972	234078	232192	230244	228161	225878	223606	221489	219524	217499	215488
2001	203644	201510	199369	197544	195579	193952	192785	191752	190658	189695	188544	187462	186255	185117	183984	182730	181479	180174	178997	177765	176597	175436	174218	173067	171739	170358	168865	167321	165786	164025	162336
2002	172522	171378	170358	169162	167794	166611	165374	164026	162626	161177	159851	158532	157446	155858	153886	151985	150376	148999	147521	146161	144592	142928	141469	140113	138850	137595	136555	135572	134541	133465	132192
Max.	627576	627696	628659	629623	630705	630825	629141	626256	622658	617995	612995	608252	604114	600108	595179	589220	583521	576925	572284	571144	570005	570232	568867	566936	565121	562744	560710	558606	557015	555089	552939
Min.	39372	38886	38473	37955	37283	36519	35830	35204	34586	34147	33565	32963	32302	31723	31280	30802	30487	30228	29970	29730	29471	29175	28903	28603	28284	27948	27523	27089	26650	26209	25804
Ave.	300736	300122	299441	298766	297929	297010	295990	294836	293615	292347	291017	289609	288204	286778	285248	283726	282184	280686	279132	277529	275841	274194	272517	270846	269134	267366	265631	263881	262092	260317	258537

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

AUGUST

Units in acre-feet

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1954	44513	43448	42436	41226	40016	38770	37930	37279	36418	35536	34740	33880	33010	32269	31566	30882	30160	29495	28878	28336	27852	27438	27114	26753	26286	25783	25290	24899	24508	24063	23573
1955	25439	25100	24648	24212	23847	23847	24115	24115	24051	23816	23585	23339	23123	22784	22342	21886	21490	21123	20723	20318	19926	19522	19243	19030	18869	18763	18750	18750	18710	18683	18657
1956	250828	248831	246920	244863	242559	240492	237964	235435	232949	230606	227914	225261	222538	219704	216821	213880	210912	208010	205154	202170	199610	198698	197655	196548	195440	194337	193121	192032	190880	189727	188639
1957	146803	145715	144684	143490	142242	141212	140100	139095	138142	137454	136660	135920	135199	134477	133600	132826	132001	131125	130162	129359	128456	127552	126799	126046	125258	124379	123500	122671	121889	121255	120866
1958	367437	363363	359220	355275	351362	347715	344641	341742	338844	335809	332513	329402	326320	323409	320430	318149	315362	312834	310335	307585	304509	301634	298577	295816	292984	289969	287099	284229	281678	279465	277346
1959	93334	92614	91734	90935	89987	89133	88436	87738	87000	86233	85518	84954	84315	83751	83187	82554	81899	81316	80734	80333	80005	79750	79568	79350	79055	78884	78637	78426	78215	78073	77862
1960	55001	54244	53475	52717	52014	51284	50525	49664	48779	47868	46839	45869	45025	44277	43674	43115	42604	42066	41557	41100	40696	40269	39798	39259	38799	38430	38063	37694	37305	36980	36644
1961	30506	29952	29415	28921	28532	28160	27806	27434	27038	26667	26531	26768	26751	26650	26430	26192	25871	25520	25293	25116	24970	24890	24954	25068	25164	25132	25100	24967	24841	24648	24390
1962	129158	128707	128054	127351	126749	126046	125209	124428	123500	122964	122280	121547	120866	120201	119632	119015	118493	117971	117450	116880	116215	115523	114877	114324	113771	113218	112618	112019	111334	110842	110394
1963	336156	333640	330952	328289	325721	323238	320937	319501	316572	316967	315108	312567	310335	307668	304837	301962	299170	296059	293226	290232	287258	284069	281120	278367	276012	273345	270710	267930	265536	263250	260591
1964	122182	121206	120248	119490	118535	117829	117307	116642	115891	115108	114186	113356	112664	112019	111468	110887	110260	109722	109051	108469	107931	107350	106732	106123	105426	104773	104119	103510	102988	102429	101837
1965	275463	274835	273737	272486	271251	270169	268934	267699	266231	264769	263858	263934	263782	263250	262566	261883	261047	260060	258996	257705	256357	254937	253657	252396	251127	249933	248757	247435	246259	244937	243541
1966	138353	137508	136302	135049	133806	132569	131289	130019	128606	127203	125712	124361	123158	121992	120690	119444	118161	116700	115485	114233	113082	111848	110669	109499	108249	107052	106040	104990	103862	102913	101970
1967	524419	522240	519848	517137	513893	510552	506900	503048	499104	494330	489262	484222	478688	473083	467410	461569	454954	448690	441973	435308	428499	421746	414855	408024	401821	396705	391435	386108	381280	377035	372815
1968	166474	164937	163408	161771	160085	158237	156459	154410	152433	150472	148582	146542	144520	142517	141066	139413	137772	136144	134686	133135	131749	131137	130577	130120	129715	129260	128756	128404	128109	127903	127703
1969	551157	548810	545800	542243	538256	534174	531534	528682	523983	519305	515730	511952	507436	503689	499424	495601	491582	487474	483175	478896	474326	469778	465151	460548	456171	451412	447282	443372	439380	435506	431650
1970	263477	261041	258618	255983	253288	250535	247799	245006	242014	239186	236449	233586	230956	228343	225815	223443	221084	218945	216612	214224	212054	209963	207883	205948	204088	202237	200396	198890	197550	196415	195184
1971	187821	185862	183789	181603	179618	177644	175744	173794	171857	169871	167899	165822	163936	162296	160607	158813	156917	155091	153222	151422	149803	148305	146962	145884	144792	143814	142840	142086	141334	140531	139678
1972	74967	74041	73191	72348	71512	70617	69697	68752	67784	66793	65812	64747	63693	62712	61922	61169	60512	59859	59210	58538	57870	57351	56380	55505	54694	53975	53480	53207	52908	52690	52528
1973	319837	317214	314686	312336	309912	307497	305341	302863	300314	298021	295981	293869	291602	289185	286618	284303	283268	280651	277970	275537	272805	270397	267540	265159	263172	261193	259374	258014	256659	255232	253835
1974	409174	407545	404677	402201	399922	397644	395007	392373	389842	386760	384247	381465	378694	375932	373181	370348	367618	364806	361736	359216	356615	354115	351800	349847	347634	345340	342702	340161	337543	335109	332942
1975	270088	267386	264700	261877	258920	255963	253064	250312	247799	245299	242742	240199	237455	234801	232305	229753	226866	223791	221014	218463	216133	213952	211986	210098	208084	206014	203889	201974	200527	199282	198041
1976	88346	87760	86945	86096	85330	84530	83848	83095	82272	81566	80900	80275	79617	79071	78456	77879	77270	76700	76062	75603	75111	74552	73995	73338	72548	71934	71357	70884	70414	69879	69214
1977	51981	51227	50427	49688	48751	47546	46412	45446	44470	43653	42964	42494	42074	41634	41221	40924	40678	40765	41015	41083	41106	41083	40947	40742	40561	40335	40110	39886	39663	39441	39242
1978	466556	464400	461839	459388	457045	454607	451973	449549	446728	444118	441415	438621	435736	432861	429503	426158	422826	419898	416979	414362	411367	408871	405697	402734	399877	397505	394856	392499	390055	387699	385843
1979	320707	317168	313566	309815	306340	302720	299123	295713	292162	288533	285372	282210	278989	275946	273083	270234	267558	265134	262332	259548	256703	253801	251067	248576	246474	244680	242894	241042	239345	237802	236631
1980	537775	534766	531435	528222	524356	520286	516009	512079	508379	504149	500046	495638	490817	485808	480930	476391	471768	466955	462169	457198	452254	447745	443359	436788	433941	429119	424025	419257	415008	411564	408528
1981	217432	215626	213692	212043	210470	208836	207142	205522	203711	201776	200050	198532	196955	195579	194082	192591	191107	189631	188161	186762	185623	184926	184299	183481	182604	181729	180920	180236	179555	179688	178011
1982	509249	505992	502420	498860	495206	491780	488790	485808	482520	478711	474709	470615	466955	463416	459888	456478	452871	449176	445396	441629	437980	434243	430725	427419	424224	421043	418169	415798	413433	410781	408137
1983	519516	521933	524245	525128	522925	520943	519297	518857	518309	518857	519077	518309	517653	516557	516338	516338	515790	515024	516776	518089	517653	516338	514042	511207	507726	504799	501879	498753	494993	492101	489323
1984	351834	349928	347939	345866	343689	341650	339239	336570	333827	331357	328721	326358	323656	321225	319582	317944	316310	314764	313823	313053	312200	311346	310326	309050	307949	306594	305076	303729	302217	300542	298790
1985	285291	282658	280839	278829	276745	274035	271340	268816	266541	264354	262254	259932	257624	255402	253267	251370	249632	247975	246251	244458	242671	240748	238905	237215	235461	233714	232047	230316	229022	227518	226163
1986	465601	462065	458336	454723	451229	447436	443764	440107	436564	433036	429822	426818	423825	420845	417971	414910	411957	408918	406086	403360	400448	397643	395041	392447	389862	387094	384433	381685	379040	376781	374623
1987	197086	195775	194342	193044	191686	190206	188664	187587	186191	184738	183167	181604	180236	178997	177949	176781	175497	174157	172643	171559	170717	169999	169222	168389	167616	166907	166197	165550	164904	164377	163850
1988	97999	97050	96027	95011	94204	93360	92683	92850	90944	90161	89460	88725	88148	87534	86925	86356	85638	84925	84217	83587	82886	82116	81570	81243	80989	80882	81025	80989	80882	80845	80629
1989	129469	127974	126588	125359	124284	123119	121817	120142	118578	117543	116561	115585	114429	113190	112052	111011	110112	109395	108771	108194	107575	107002	106386	105776	105296	104862	104429	103954	103524	103094	102794
1990	66868	65979	65202	64647	64095	63486	62881	62281	61595	60915	60241	59572	58879	58221	57540	56921	56418	55863	55313	54711	54222	53899	53630	53389	53175	52962	52671	52353	52038	51724	51515
1991	138955	137178	135417	133721	131989	130323	128570	126736	124918	123071	121286	119525	117637	115817	114061	112507	111327	110246	109173	108327	107796	107222	106739	106169	105601	104992	104429	103954	103567	103223	103009
1992	112686	111373	110067	108816	107442	106125	104776	103438	102155	100840	99915	99204	98537	97874	97380	97050	96435	95538	94727	94204	93661	93121	92603	92206	91810	91455	91062	90669	90317	89966	89615
1993	374060	371629	369020	366512	364014	361616	359685	357669	355566	353288	351017	348844	346768	344968	343171	341202	339150	337282	335241	333119	331357	329511	327583	325572	323308	321139	319323	317599	315794	313737	311773
1994	174583	172402	170238	168151	166138	164143	162103	160024	157960	155915	153886	151985	150322	148615	146812	145077	143410	141915	140642	139534	138535	137543	136503	135314	134183	133108	132192	131432	130624	129870	129120
1995	533544	530547	526783	522925	519407	515462	510989	506534	501988	496925	492208	487406	482414	477655	472501	466854	461340	456374	451843	447540	443664	439904	436260	433036	429721	426418	422931	419356	415798	412351	409016
1996	430424	427419	424423	421439	418466	415008	411564	408332	405111	401804	398610	395523	392351	388908	385286	381874	378651	375935	372845	369765	366791	364199	361800	359410	356936	354470	352107	349749	347400	345148	343084
1997	407647	404721	401610	398513	395330	392351	389290	386238	383199	380265	377158	374247	371722	369299	366884	364661	362261	359502	356844	354199	351743	349387	347038	344788	342635	340489	338350	336306	334533	332854	331180
1998	550681	549100	548762	547976	546962	544490	540792	537552	533767	529549	525349	521383	516995	512841	508270	504149	499399	494457	490071	485383	481036	476813	472396	468000	463208	458440	453901	449381	445192	440513	436061
1999	268344	265914	263420	261015	258623	256473	254636	252811	250840	248726	246624	244829	243266	242005	240378	238243	236265	234515	233135	231903	230748	229597	228233	226661	225166	223819	222688	221489	219804	217988	216456
2000	213555	211769	209924	208157	206263	204313	202308	200382	198532	196561	194667	192850	190978	189118	187271	185307	183355	181292	179245	177272	175436	173914	172583	171438	170537	169879	169102	168329	167440	166552	165786
2001	160714	159219	157789	156481	155462	154336	153213	151874	150376	149109	147848	146485	145185	143839	142182	140748	139534	138378	137386	136347	135056	133619	132243	131281	130424	129620	128670	127775	127081	126292	125555
2002	130725	129419	128172	126883	125701	124478	123215	122201	121432	120857	120142	119288	118343	117169	115956	114798	113831	112916	111825	110695	109529	108238	107002	106081	105122	104127	103309	102624	102112	101644	101221
Max.	**551157**	**549100**	**548762**	**547976**	**546962**	**544490**	**540792**	**537552**	**533767**	**529549**	**525349**	**521383**	**516995**	**516557**	**516338**	**516338**	**515790**	**515024**	**516776**	**518089**	**517653**	**516338**	**514042**	**511207**	**507726**	**504799**	**501879**	**498753**	**494993**	**492101**	**489323**
Min.	**25439**	**25100**	**24648**	**24212**	**23847**	**23847**	**24115**	**24115**	**24051**	**23816**	**23585**	**23339**	**23123**	**22784**	**22342**	**21886**	**21490**	**21123**	**20723**	**20318**	**19926**	**19522**	**19243**	**19030**	**18869**	**18763**	**18750**	**18750**	**18710**	**18683**	**18657**
Ave.	**256821**	**255090**	**253265**	**251410**	**249481**	**247490**	**245532**	**243638**	**241628**	**239623**	**237666**	**235725**	**233759**	**231825**	**229888**	**227997**	**226098**	**224185**	**222359**	**220573**	**218768**	**217090**	**215392**	**213744**	**212114**	**210532**	**208982**	**207498**	**206064**	**204697**	**203385**

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

SEPTEMBER

Units in acre-feet

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1954	23182	22774	22355	21980	21590	21200	20788	20410	19962	19500	19092	18684	18384	18000	17712	17364	17023	16715	16418	16187	15934	15659	15384	15054	14735	14449	14163	13877	13591	13349	
1955	18643	18617	18590	18550	18324	18080	17877	17625	17347	17044	16646	16287	16012	15773	15626	15469	15333	15232	15187	15176	15165	15154	15131	15120	15097	15086	15029	14916	14815	14714	
1956	187562	186494	185550	184482	183413	182219	180855	179621	178448	177337	175856	174704	173494	172222	170891	169680	168612	167426	166001	164696	163457	162295	161074	160086	158982	157822	156799	155776	154695	153728	
1957	120343	119869	119300	118683	118066	117402	116785	116168	115523	114923	114370	113863	113448	113079	112711	112296	111973	111650	111379	111065	110797	110529	110215	109901	109499	109141	108693	108290	107842	107439	
1958	275463	273580	271637	269397	267544	265845	264313	263478	262718	261807	260743	259528	258465	257402	256506	255236	253966	252695	251201	249933	248537	246994	245671	244496	243541	242442	241575	240636	239625	238614	
1959	77616	77264	76912	76559	76277	75995	75749	75539	75403	75232	75130	75198	75266	75198	75130	75028	74994	74960	74926	74892	74824	74790	74756	74688	74654	74586	74484	74416	74347	74313	
1960	36331	35997	35768	35559	35330	34996	34688	34428	34207	34066	33966	33946	33906	33766	33484	33303	33143	32963	32764	32552	32321	32090	31877	31704	31530	31357	31164	30971	30802	30654	
1961	24099	23893	23677	23416	23092	22738	22357	21960	21564	21123	20667	20234	19954	19786	19618	19442	19283	19269	19230	19150	19057	18963	18856	18803	18790	18710	18643	18550	18431	18364	
1962	109946	109409	108782	108110	107395	106732	106036	105426	104817	104163	103467	102857	102133	101540	100990	100481	99930	99370	98914	98575	98202	97790	97420	97008	96638	96226	95814	95526	95320	95114	
1963	258920	257253	255385	253891	252396	251201	250305	249271	248096	246626	245084	243541	242009	240636	239119	237674	236374	235293	234725	233731	232665	231245	229966	228475	226657	224982	223097	221077	219086	217027	
1964	101455	101286	101244	101159	101074	100947	100778	100566	100396	100226	100099	99888	99591	99295	99063	98787	98532	98366	98243	98078	97955	97790	97667	97543	97461	97379	97255	97131	97049	96967	
1965	242154	240853	239552	238325	237097	235724	234441	233304	232239	231174	230109	228922	227914	226657	225400	224004	222817	222049	221008	220322	219361	218331	217233	216066	214761	213475	212126	210777	209764	208954	
1966	101330	100862	100439	99974	99553	99007	98422	97963	97423	96968	96472	95979	95447	95039	94713	94347	94023	93579	93297	92975	92654	92374	92095	91736	91299	90863	90469	90076	89605	89175	
1967	368436	364987	361285	357691	354472	351000	347280	343316	339462	335543	331732	328544	325201	322130	319159	315949	313007	310246	307414	304679	301875	299084	296470	293869	291360	288702	285978	283030	279861	276712	
1968	127502	127203	126904	126555	126206	125910	125663	125416	125120	124837	124627	124431	124185	124087	123940	123891	123793	123598	123451	123207	123061	123012	122963	122915	122865	122817	122671	122574	122380	122186	
1969	427910	424382	420772	417178	413793	410518	407449	404677	401821	399069	396610	394253	391810	389187	386667	384061	381558	378970	376392	373913	371626	369619	367345	365259	363360	361105	358857	356706	355186	354382	
1970	193828	192477	191196	189600	188519	187378	186303	185232	184227	183413	182725	181915	181044	180175	179185	178383	177583	176723	175866	175133	174524	173916	173127	172521	171796	171254	170772	171171	169692	169093	
1971	138882	138088	137561	137035	136511	135988	135466	135049	134582	134064	133599	133083	132620	132056	131340	130577	129968	129260	128605	127953	127502	127003	126555	126059	125515	125021	124726	124332	124038	123744	
1972	52528	52528	52501	52420	52339	52258	52555	52663	52663	52582	52474	52447	52420	52366	52312	52231	52150	51989	51855	51748	51641	51508	51321	51135	51003	50844	50739	50633	50528	50397	
1973	252915	252170	251129	250164	248980	247799	246474	245373	244128	242814	241577	240271	239186	237959	236880	235731	234729	233729	232732	231665	230956	230107	229471	228554	228061	227358	226516	225675	224488	223443	
1974	330869	328802	326999	323834	321280	318905	316707	314434	312169	309912	307747	305590	303440	301464	299740	297939	296307	295005	293625	292491	291521	290392	289667	288381	287018	285579	284223	282791	281285	279624	
1975	196675	195443	194280	193184	192265	191324	190492	189727	189154	188709	187884	187188	186556	185862	185169	184451	183851	183225	182538	181852	181292	180485	179804	179185	178568	178013	177460	176907	176417	175866	
1976	68487	67799	67148	66565	66083	65507	65061	64681	64523	64713	65316	67375	68257	68553	68619	68586	68553	68520	68553	68553	68520	68520	68520	68586	68520	68520	68520	68487	70012	70280	
1977	39086	38934	38780	38649	38540	38453	38323	38193	38085	37977	37826	37762	37633	37462	37356	37228	37143	37101	37016	36932	36848	36784	36721	36700	36658	36595	36533	36491	36407	36386	
1978	383979	382213	380543	379061	382120	388461	391652	393156	394196	394573	395139	395423	395234	394478	393441	392687	391276	390055	388555	386871	385097	383421	381563	379709	377860	375924	374176	372158	370237	368230	
1979	235607	234806	233932	233062	232265	231543	230748	230172	229454	228735	227948	227089	226234	225451	224811	224102	223323	222547	221841	221208	220576	219874	219314	219036	218686	218546	218337	217918	218057	218267	
1980	405306	401901	398417	394945	391778	388908	386238	383483	380927	378474	376029	373685	371536	369206	366791	364569	362261	359594	357119	354562	352377	350019	347400	344878	342456	340042	337637	335330	332854	330388	
1981	177334	176720	176292	175925	175741	175558	175436	175191	174949	174827	174705	174522	174279	174097	173975	173793	173672	173430	173188	172946	172704	172402	172281	171980	171920	171920	171920	171800	171619	171498	
1982	405696	403360	401224	399479	397740	395812	393600	391490	389099	387189	385382	383388	381117	378663	375935	373404	371069	369020	366791	364661	362538	360421	358219	356480	358402	369020	374247	375559	376029	375465	
1983	486660	484322	481778	478817	475654	472186	468837	465601	462688	459784	456992	453901	450612	447642	444580	441527	438487	435455	432332	429119	425821	422632	419158	416094	412646	409212	405696	402096	399092	396391	
1984	297625	296627	295550	294390	293234	292079	291011	290271	289453	288469	287570	286755	285859	285372	285209	284965	284985	284803	284722	284315	284234	283991	283263	282615	281887	281081	280355	279631	278748	277545	
1985	224740	223394	221982	220928	220155	219594	219106	218546	217778	216805	215160	215833	215626	215280	214934	214381	213417	212660	212181	211495	211015	210197	209311	208360	207546	206668	205656	204985	204313	203510	
1986	372377	370231	367906	365773	364014	362446	360697	358677	356663	354835	353197	351571	349840	348211	346497	344698	343261	341739	340221	338882	337637	336306	334887	333915	332413	331180	330212	329072	328019	326970	
1987	163383	162743	162045	161640	161177	160714	160253	159909	159563	159161	158704	158417	158131	157789	157389	156992	156537	156084	155745	155293	154954	154559	154111	153605	153157	152822	152487	152152	151708	151208	
1988	80268	80089	79982	79803	79481	79089	78734	78415	78169	77922	77746	77535	77396	77256	77151	77046	76906	76697	76489	76212	75935	75762	75625	75522	75384	75281	75178	75178	75109	75075	
1989	102582	102368	102069	101771	101475	101094	100798	100503	100251	99999	99789	99579	99329	99037	98828	98912	98787	98628	98828	98745	98662	98495	98289	97874	97503	97091	96681	96190	95864	95497	
1990	51437	51359	51255	51125	50996	50867	50712	50558	50404	50250	50097	49893	49689	49536	49336	49209	49159	49083	49033	49008	46983	48933	48908	48908	48883	48833	48783	48783	48783	48756	
1991	102794	102709	102453	102155	101942	101814	101686	101644	101518	101306	101221	101094	100925	100798	100713	100629	100461	100377	100251	100083	99747	99455	99204	99037	98912	98703	98579	98495	98413	98330	
1992	89344	89034	88802	88570	88379	88225	88032	87879	87802	87687	87572	87459	87344	87268	87153	87039	86886	86734	86696	86544	86356	86129	85789	85488	85150	84813	84552	84403	84254	84105	
1993	309986	308204	306594	305076	303645	302300	300877	299374	297873	296544	295301	294141	292904	291505	290107	288633	287327	286185	285126	283991	282858	281644	280355	279070	277865	276668	275150	273637	271972	270313	
1994	128371	127626	126883	126193	125506	124869	124284	123700	123071	122587	122153	121769	121432	121145	120857	120667	120476	120285	120047	119761	119430	119145	118956	118767	118625	118483	118389	118201	118060	118296	
1995	405891	403360	401030	399576	397547	395041	392543	390149	387762	385191	382535	379890	377158	374529	371909	369392	366884	364106	361339	358861	356663	354744	352832	350926	348753	346407	344069	341560	339507	337548	
1996	341292	339328	337282	335153	332854	330740	328808	326883	324963	322962	320967	318893	316996	315193	313395	311432	309560	307864	306089	304233	302552	300961	299374	297625	295796	294059	292491	290929	289453	288060	
1997	329335	327756	327320	326183	324876	323743	322353	320621	318977	317254	315450	313908	312710	311517	310071	308711	307441	306256	304991	304064	303141	302217	301128	300040	299290	298706	298206	297625	296793	295879	
1998	431929	428119	424324	421538	419356	417080	414712	412154	409800	407452	405111	402970	400545	397837	395426	393119	390723	388430	386429	384526	382440	380455	378474	376687	374715	373123	371536	369858	368092	366420	
1999	215211	213899	212729	211837	211152	210265	209242	208157	207006	205724	204447	203310	202174	201177	200183	199190	198071	197066	196168	195189	194277	193369	192591	191881	191236	190594	189823	188928	188034	187207	
2000	165080	164319	163558	162801	162151	161582	161119	160599	160139	159621	158932	158131	157334	156481	155745	155067	154392	153661	152934	152264	151430	150709	150101	149494	148945	148231	147466	146757	146106	145564	
2001	124820	124187	123506	122877	122201	121528	120905	120428	119952	119335	118720	118201	117731	117215	116748	116141	115492	114752	114153	113739	113328	112870	112370	111779	111192	110650	110112	109618	109261	108860	
2002	100882	100451	99957	99495	99162	98787	98495	98247	97957	97709	97380	97009	96640	96313	95945	95416	94808	94284	93721	93121	92563	92048	91613	91219	90826	90473	90044	89693	89383	89073	
Max.	**486660**	**484322**	**481778**	**478817**	**475654**	**472186**	**468837**	**465601**	**462688**	**459784**	**456992**	**453901**	**450612**	**447642**	**444580**	**441527**	**438487**	**435455**	**432332**	**429119**	**425821**	**422632**	**419158**	**416094**	**412646**	**409212**	**405696**	**402096**	**399092**	**396391**	
Min.	**18643**	**18617**	**18590**	**18550**	**18324**	**18080**	**17877**	**17625**	**17347**	**17044**	**16646**	**16287**	**16012**	**15773**	**15626**	**15469**	**15333**	**15232**	**15187**	**15176**	**15165**	**15154**	**15131**	**15054**	**14735**	**14449**	**14163**	**13877**	**13591**	**13349**	
Ave.	**202165**	**201022**	**199869**	**198799**	**197852**	**196968**	**196042**	**195109**	**194173**	**193229**	**192308**	**191446**	**190554**	**189647**	**188744**	**187834**	**186945**	**186081**	**185231**	**184391**	**183584**	**182759**	**181927**	**181119**	**180376**	**179613**	**179145**	**178395**	**177654**	**176918**	

ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

OCTOBER

Units in acre-feet

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1954	13110	12900	12674	12465	12243	12000	11777	11512	11317	11122	10943	10790	10710	10694	10718	10742	10774	10799	10816	10824	10824	10816	10816	10816	10816	10816	10841	10867	10900	10900	10900
1955	14614	14529	14434	14360	14317	14264	14264	14264	14264	14254	14233	14211	14201	14180	14158	14148	14127	14106	14085	14064	14043	14032	14011	14000	13990	13969	13947	13937	13916	13894	13873
1956	152591	151583	150750	149916	149193	148359	147971	147415	146748	146095	145390	144901	144358	143761	143273	142676	141971	141053	140206	139518	138618	137666	136819	135972	135147	134373	133806	133188	132678	132775	132775
1957	106994	106558	106079	105644	105209	104773	104381	104076	103858	103684	103510	103360	103336	103336	103293	103249	103206	103075	102944	102857	102726	102599	102472	102429	102387	102387	102387	102387	102344	102260	102217
1958	237313	236302	235579	234796	233873	232807	231813	230748	229753	228759	227775	226657	225540	224353	223097	221700	220322	218811	217370	215929	214487	213205	212193	211586	210709	209967	209089	208213	207342	206679	206083
1959	74245	74177	74109	74075	74006	73938	73904	73836	73768	73700	73666	73632	73598	73564	73530	73462	73428	73360	73292	73224	73190	73122	73088	73020	72985	72917	72849	72815	72747	72679	72610
1960	30543	30432	30302	30173	30062	29970	29933	29915	29896	29878	29859	29822	29804	29785	29767	29748	29730	29711	29693	29674	29656	29637	29619	29582	29563	29526	29508	29489	29452	29452	29434
1961	18364	18364	18364	18351	18324	18298	18271	18231	18193	18168	18143	18118	18105	18092	18092	18080	18054	18029	17991	17953	17902	17877	17852	17839	17814	17789	17764	17751	17739	17713	17701
1962	94826	94373	93973	93573	93134	92774	92374	92014	91654	91095	90535	89987	89521	88978	88630	88203	87815	87427	87039	86690	86308	86045	85857	85631	85443	85255	85142	84992	84954	84842	84756
1963	214556	212126	209899	207409	205287	202899	200653	198438	196418	194465	192864	191392	189984	188639	187060	186368	186620	186431	185739	185048	184293	183350	182533	181719	180855	179868	179127	178818	178201	177646	177090
1964	96884	96843	96802	96720	96638	96596	96514	96391	96226	96144	96020	95938	95855	95773	95690	95608	95526	95484	95402	95361	95320	95278	95196	95155	95114	95032	95073	95196	95196	95196	95196
1965	206078	207210	206063	204822	203562	202369	201175	200066	198894	197851	196874	195701	194593	193313	192160	190880	189727	188511	187625	186682	185739	184796	183916	182973	182093	181164	180115	179127	178139	177152	176165
1966	86746	86358	87971	87662	87354	87086	86856	86703	86549	86369	86130	85902	85485	85220	84993	84842	84729	84616	84541	84466	84391	84353	84316	84316	84279	84241	84091	83979	83755	83531	83345
1967	273662	270475	267155	263706	260359	257186	254109	250906	247651	244421	241723	241359	240851	240416	239982	239475	238897	238392	237959	236880	235445	234300	233088	231736	230461	229259	228202	227077	226095	225186	224348
1968	121992	121895	121798	121557	121363	121267	121171	121074	120978	120930	120833	120737	120737	120737	120785	120737	120689	120641	120593	120545	120449	120401	120353	120257	120209	120161	120113	120066	120018	119922	119874
1969	351800	349315	347192	344811	342439	340074	337805	335195	332769	330352	328029	325543	322982	320346	317805	315359	313007	310747	308329	306004	303936	301628	299330	297041	294924	292653	290634	288943	287579	285978	284064
1970	168734	168257	167899	167483	167007	166296	165822	165173	164583	164230	163878	163525	163232	162881	162530	162238	162004	161713	161421	160956	160549	160259	159969	159796	159333	159333	159160	158813	158468	156237	158122
1971	123598	123451	123304	123207	123061	122963	122817	122720	122623	122477	122331	122234	122089	121895	121798	121702	121557	121460	121412	121412	121412	121412	121315	121267	121267	121171	121074	121026	120930	120785	120689
1972	50265	50239	50213	50187	50213	50344	50344	50318	50239	50239	50187	50161	50161	50135	50056	50030	50056	50082	50108	50239	50318	50397	50449	50475	50475	50475	50475	50449	50475	50475	50397
1973	222261	220876	219633	218463	217091	215791	214769	214292	213816	213477	213138	212934	212799	212595	212460	212392	212257	212054	211986	211784	211581	211446	211243	210973	210771	210501	210367	210098	209963	209761	209157
1974	277498	275537	273896	272493	271018	269237	268311	266771	265389	263935	262715	261573	260283	259072	257864	256564	255307	253960	252691	251203	250164	249349	248536	247799	246915	246327	245593	245593	245006	244494	242762
1975	175820	175276	174914	174492	174251	173831	173351	173231	173111	172931	172871	172931	172671	172931	172931	172931	172811	172692	172632	172453	172273	172154	172094	172094	171975	171796	171855	172034	172094	172094	172214
1976	70447	70447	70481	70481	70514	70548	70649	70649	70514	70380	70280	70213	70179	70079	70012	70012	70012	69945	69945	69979	69945	69945	69912	69812	69778	69712	69745	69712	69645	69645	69612
1977	36407	36407	36345	36345	36303	36261	36261	36282	36282	36261	36240	36220	36178	36136	36116	36074	36033	35991	35909	35847	35826	35826	35805	35765	35764	35743	35723	35702	35620	35620	35620
1978	356229	354142	351971	359808	357561	355232	353000	350775	348381	345907	343618	341337	339063	336972	334627	332378	330050	327903	325677	323459	321419	319301	317107	314836	312658	310488	308326	306089	303614	301395	299594
1979	217918	217709	217569	217432	217292	217083	216805	216527	216249	216041	215763	215557	215280	215003	214657	214312	213899	213348	213072	213417	213624	213624	213348	213210	212935	212729	212454	211975	212112	211769	211769
1980	327931	325484	323136	320881	318634	316138	313652	311091	308456	306004	303561	300793	297708	294804	292739	291093	289615	288060	286674	285128	283585	282129	280758	279389	277865	276506	275388	273955	262686	271103	269997
1981	171800	171498	171258	171198	171137	171017	170897	170777	170717	170478	170418	170478	170418	170478	170296	170179	170119	170059	169999	169939	169819	169700	169520	169341	169222	168964	168984	169162	169281	169261	169162
1982	374716	373779	372564	370975	369485	367441	365495	363736	361892	360053	358219	356297	354381	352377	350472	348663	346587	344608	342456	340132	337548	334710	331621	328721	325659	323482	321485	318893	315966	314337	313395
1983	394752	392927	391011	389290	387284	385572	383863	382158	380360	378474	376499	374529	372377	370138	367999	366049	364014	361985	359594	357027	354470	352016	349568	346948	344339	341560	338682	336129	333561	330916	328457
1984	276746	275867	275230	274433	273637	272765	272051	271182	270392	269445	268266	267794	266776	265914	265134	264276	264198	263808	263420	263187	262798	262410	262021	261789	261015	260319	260010	259548	259162	258854	258546
1985	202842	202174	201510	200978	200448	199786	199058	198532	197873	197281	196823	196364	195906	195385	194863	194212	193688	193498	193174	192850	192397	192269	192140	192010	192010	191881	191817	191623	191430	191301	191236
1986	326445	324440	322267	320101	317857	315450	313224	311005	308881	306594	304317	302133	300040	298039	295879	293811	291832	290025	288142	286348	284397	282534	280639	279070	277465	275946	274513	273003	271418	269918	268423
1987	150709	150212	149715	149219	148670	148067	147466	147030	146703	146485	146268	146052	145835	145672	145456	145293	145077	144808	144592	144377	144377	144269	144161	144215	144161	144054	144000	143946	143839	143731	143677
1988	75041	74972	74869	74768	74631	74563	74460	74392	74290	74256	74188	74188	74154	74086	74086	74052	73984	73883	73849	73849	73782	73680	73646	73579	73511	73477	73410	73376	73342	73342	73342
1989	95132	94768	94525	94204	93962	93761	93601	93400	93201	92962	92842	92722	92603	92484	92404	92206	92087	92008	91929	92850	91810	91810	91731	91573	91534	91494	91455	91415	91376	91337	91337
1990	48683	48558	48508	48458	48359	48259	48185	48160	48110	48036	47962	47912	47838	47814	47764	47764	47764	47716	47592	47494	47445	47347	47298	47249	47176	47127	47079	47030	46957	46908	46859
1991	98164	97999	97792	97626	97461	97297	97174	97009	96845	96681	96558	96476	96313	96027	95782	95538	95295	95092	94930	94808	94606	94364	94163	93962	93801	93842	94163	94163	94002	93882	93801
1992	83994	83845	83771	83698	83550	83550	83476	83402	83328	83254	83180	83107	82996	82812	82703	82629	82556	82519	82446	82409	82372	82372	82409	82519	82519	82519	82446	82372	82299	82886	83661
1993	268659	267089	265447	263886	262487	261170	259855	258623	257547	256319	255402	254562	253724	253267	252963	252735	252507	252127	251673	251294	250840	250461	250085	249632	249103	248576	248051	247374	246942	246325	245951
1994	118436	118389	118296	118296	118389	118483	118578	118672	118767	118767	118720	118672	118578	118483	118389	118343	118296	118201	118154	118060	117966	117872	117778	117684	117590	117449	117355	117215	117075	116982	116888
1995	335596	333561	331621	329860	328019	326183	324440	322701	321139	319669	318116	316740	315364	314080	312710	311346	310071	308796	307271	305582	303729	301631	299541	297458	295384	293565	291750	290107	288469	286874	284884
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1997	294804	293728	292987	292409	291997	291422	290929	290436	289861	289289	288961	288551	288060	287408	286674	285940	285291	284640	283828	283020	282291	281402	280597	279550	278106	276586	275150	273876	272527	271182	270076
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ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

NOVEMBER

Units in acre-feet

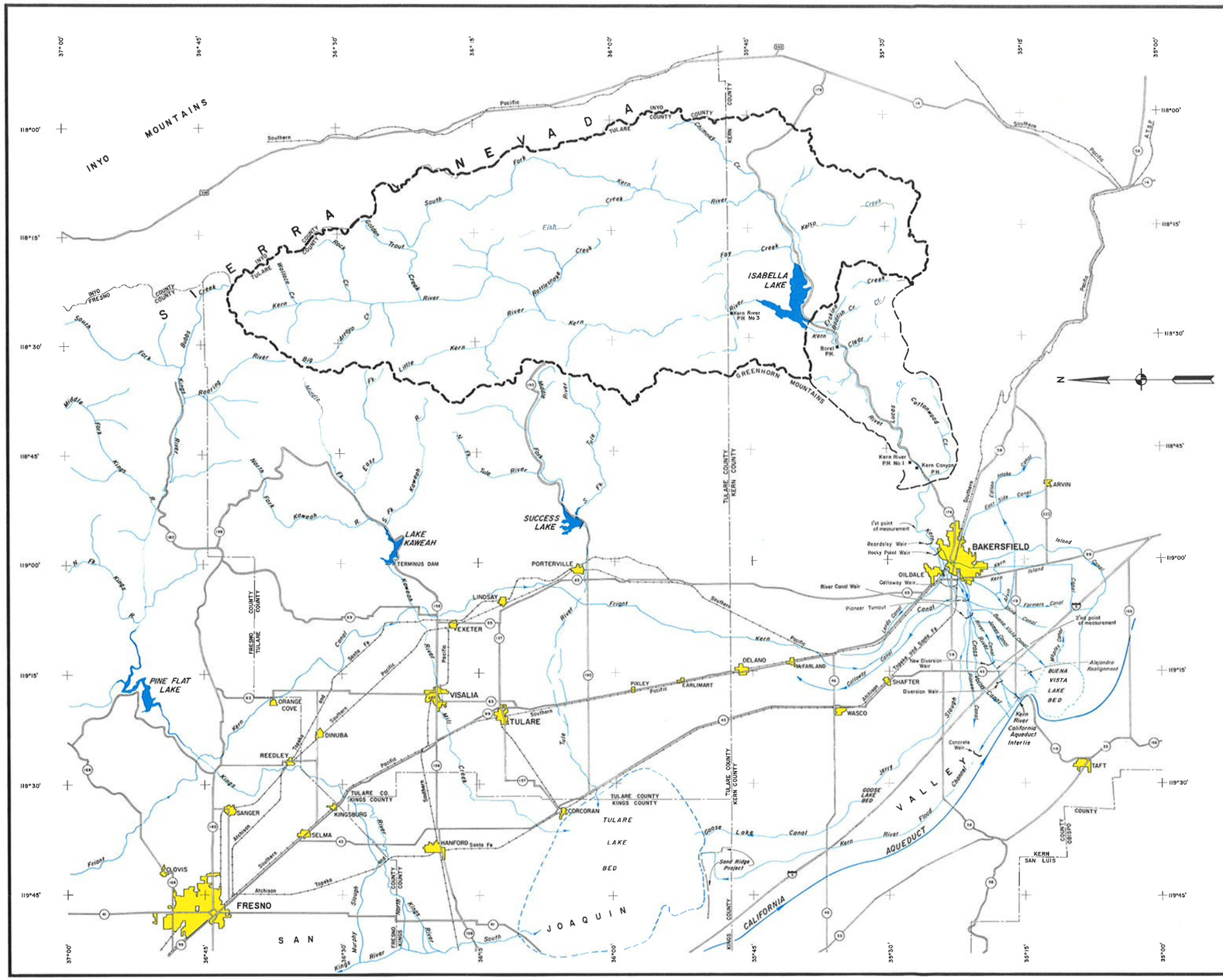
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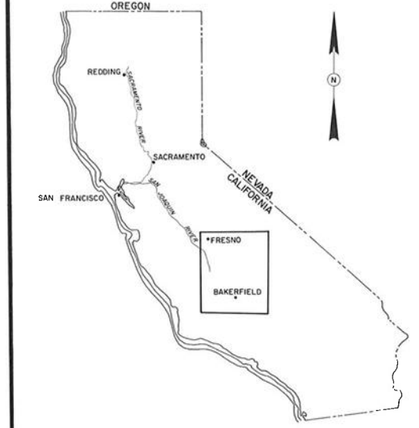
ISABELLA RESERVOIR
KERN RIVER BASIN, CALIFORNIA
MIDNIGHT STORAGE

DECEMBER

Units in acre-feet

Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
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1955	12814	12863	12863	12863	12863	13419	13863	13905	14487	14646	14669	14680	14680	14680	14669	14657	14657	14646	14646	14657	14657	14871	39080	51798	59205	64531	69135	72406	74960	76912	78567
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1958	199154	199069	199069	199024	198894	198894	198894	198829	198698	198698	198763	198763	198763	198763	198698	198633	198633	198568	198503	198503	198503	198503	198503	198438	198373	198307	198242	198242	198177	196112	198112
1959	71805	71772	71739	71706	71674	71641	71608	71575	71542	71509	71509	71476	71443	71410	71410	71377	71377	71377	71344	71476	71476	71476	71509	71608	71608	71608	71608	71575	71575	71641	71608
1960	29378	29360	29341	29341	29323	29304	29286	29286	29286	29286	29286	29304	29304	29304	29304	29286	29267	29267	29267	29267	29267	29249	29230	29230	29212	29212	29193	29175	29156	29138	29119
1961	17575	17663	17650	17638	17638	17625	17625	17613	17613	17600	17575	17575	17575	17575	17575	17562	17562	17562	17549	17549	17549	17549	17549	17549	17549	17549	17537	17537	17537	17524	17524
1962	83751	81714	83676	83676	83676	83676	83676	83636	83601	83563	83526	83526	83488	83450	83413	83375	83338	83300	83262	83225	83150	83112	83074	83037	82999	82924	82886	82886	82849	82849	82849
1963	170527	170467	170467	170406	170346	170346	170346	170285	170527	170527	170467	170467	170467	170467	170467	170467	170406	170346	170285	170285	170164	170104	170104	170043	170043	170043	169983	169983	169983	169983	170043
1964	94867	94949	94908	94867	94867	94826	94785	94785	94744	94744	94703	94661	94661	94620	94579	94579	94538	94497	94620	94620	94661	95526	99973	103249	105122	112711	115523	116785	117687	118303	
1965	170104	169983	169983	169983	169922	169922	169922	169922	169983	169983	169983	169922	169862	169862	169740	169561	169502	169502	169443	169502	169443	169443	169443	169443	169443	169443	169443	169443	170588	171012	171193
1966	82714	83011	84616	85295	111121	260356	292653	304514	311918	317467	321960	325372	328458	330869	333029	334848	336325	336760	336934	337195	337369	336760	335369	333288	331128	328888	326228	322897	319752	316623	313258
1967	200593	200330	200265	200068	200068	199937	199937	199871	199871	199806	199806	199806	199675	199282	199413	199544	199740	200265	200199	200199	200134	200068	200068	200068	200068	200068	200134	200134	200068	200002	199937
1968	119444	119397	119397	119397	119397	119397	119349	119683	120161	120593	121171	121605	121992	122623	123304	124087	124136	124087	124038	124038	123989	123989	124038	124185	124283	124431	124381	124431	124529	124480	124480
1969	225186	224976	224906	224767	224767	224697	224627	224557	224557	224488	224418	224418	224418	224488	224557	224557	224557	224557	224557	225326	225326	225815	225745	225605	225605	226235	226235	226025	225885	225675	225535
1970	160027	160491	160607	160782	161130	161946	162705	163467	164348	165291	166059	166651	167067	167304	167542	167899	168317	168615	168734	168914	169811	170171	170351	170532	170652	170953	171193	171434	171615	171857	172038
1971	120689	120641	120641	120593	120497	120497	120497	120449	120401	120401	120449	120689	120785	120785	120930	120930	120930	121026	121026	121026	121026	121219	121460	121943	122137	122186	122137	122089	121992	121992	122040
1972	52070	51989	51989	52636	52799	52935	53125	53289	53316	53316	53344	53371	53398	53426	53480	53562	53645	53810	51030	54334	54528	54722	54945	55113	55280	55308	55365	55533	55589	55589	55589
1973	204884	204817	204751	204685	204618	204552	204486	204353	204353	204287	204022	204083	204751	205482	205415	205415	205349	205349	205282	205216	205017	205083	205083	205083	205017	204950	204751	205282	205216	205748	205948
1974	224697	224697	224837	225885	225815	225535	225396	224976	224767	224627	224627	224552	224837	224837	224837	224837	224697	224697	224627	224697	224348	224348	224209	224139	224069	224139	224209	224209	224209	224209	223930
1975	170190	170249	170309	170309	170368	170368	170309	170249	170249	170249	170131	170071	170071	170131	169953	169953	169893	169953	169953	169953	169953	169953	169953	169953	170012	170131	170131	170190	170190	170131	170190
1976	68586	68553	68553	68520	68487	68454	68454	68389	68389	68356	68323	68257	68224	68192	68159	68126	68093	68061	68025	67995	67930	67897	67864	67831	67799	67766	67734	67701	67668	67766	67701
1977	34988	34967	34947	34907	34927	34907	34785	34805	34765	34745	34644	34644	34584	34504	34544	34504	35028	35702	35805	35743	35723	35764	35847	35888	35929	36033	38431	41634	42823	43438	43620
1978	248126	247825	247675	247149	247299	247224	246849	246326	246101	245951	245726	245577	245278	245128	245128	244829	245128	245577	245502	245427	245427	245427	245427	245352	245352	245352	245203	245278	245203	245054	244904
1979	209719	209563	209651	209379	209651	209719	209651	209651	209583	209515	209515	209311	209106	209106	209106	209106	209106	209038	209106	206768	206700	208836	208768	208700	208768	206700	208632	208632	208768	208632	208768
1980	230532	230460	230748	231543	231903	231903	231903	231903	231903	231903	232047	231975	232047	232047	232047	232120	231975	231686	231543	231254	230893	230604	230460	230316	230172	230028	229956	230028	230028	229956	229813
1981	167676	167676	167616	167499	167380	167321	167321	167380	167321	167380	167321	167025	167143	167203	167084	167203	167143	167084	166966	167025	167735	167499	167321	167203	167143	167025	166907	167143	167262	167794	168210
1982	267794	267168	266306	265056	263498	261170	258777	256243	253877	251825	249934	247900	247074	246399	245876	245577	245278	245203	244979	244904	245054	249934	256549	258546	259625	260551	261170	261480	261633	261711	261558
1983	300040	299123	299290	299040	298539	297956	297789	297542	297042	298039	297292	297625	296793	296378	295879	294885	294307	293399	292162	290847	289943	289043	288551	288224	293482	299541	303645	307356	309220	310579	311944
1984	254104	253724	253115	252507	251977	251143	250385	249481	248576	247975	247074	246326	245502	244904	244755	244979	245054	245128	245652	245577	245577	245577	245502	245502	245352	245352	245352	245278	245203	245054	244979
1985	191688	193304	194733	195059	195124	195059	194993	195189	195189	195320	195320	195254	195254	195320	195385	195450	195516	195385	195385	195385	195320	195320	195320	195254	195189	195189	195124	194993	195124	195385	195516
1986	245577	245203	245054	244979	244904	244979	245203	245203	245128	245128	245054	244979	244904	244904	244829	244680	244606	244531	244458	244531	244531	244458	244458	244458	244383	244383	244309	244309	244160	244160	244085
1987	142661	142768	142875	143303	143518	143464	143785	143731	143731	143624	143624	143731	143518	143410	143410	143357	143303	143303	143410	143410	143464	143357	143464	143357	143250	143303	143357	143357	143464	143464	143410
1988	73074	73007	73007	72939	72672	72906	72973	72839	72638	72671	72671	72671	72738	72705	72671	72805	72906	72805	72939	73107	73140	73040	73107	73816	74018	73849	73579	73579	73613	73477	73545
1989	89576	89460	89305	89189	88957	88725	88455	88186	87917	87649	87382	87115	86886	86734	86620	86544	86432	86356	86280	86280	86280	86280	86280	86242	86280	86204	86167	86129	86091	86053	85978
1990	46303	46303	46303	46279	46255	46255	46231	46207	46207	46183	46134	46134	46086	46110	46038	45966	45942	45895	45990	46086	46062	46062	46014	45966	46038	46158	46207	46134	46110	46062	46014
1991	92326	92206	92048	91929	91771	91573	91415	91415	91337	91258	91101	90865	90669	90434	90161	89888	89654	89576	89615	89654	89576	89499	89499	89460	89499	89499	89460	89499	89538	89615	89654
1992	82849	82703	82556	82519	82409	82336	82519	82409	82446	82482	82519	82482	82446	82409	82336	82226	82189	82262	82262	82262	82262	82226	82262	82262	82226	82153	82080	82080	82080	82226	82262	82262
1993	243787	243638	243415	243117	242969	242746	242599	242376	242228	242079	242376	242671	242746	242746	242894	242969	242969	242894	242820	242820	242820	242746	242746	242671	242671	242599	242525	242525	242525	242525	242525
1994	116328	116374	116374	116421	116374	116328	116281	116281	116141	115956	115910	115817	115724	115677	115631	115631	115585	115538	115538	115585	115585	115538	115492	115492	115585	115631	115631	115585	115585	115585	115585
1995	246474	246474	246399	245726	245427	245128	244680	244531	244383	244234	244085	244904	246251	246774	246924	247074	247074	247074	246924	246924	246924	246924	247074	247149	246999	246849	246774	246474	246474	246326	246474
1996	246474	245203	245128	244979	245054	245726	246474	246849	247224	249028	258700	262332	262954	262177	260861	259085	256779	254333	251597	248726	246326	246326	246924	246924	246999	246924	248953	250688	251294	252203	252811
1997	244904	244829	244755	244680	244979	245203	245352	246026	246251	246251	246101	245876	245552	245427	245352	245278	245054	244829	244680	244606	244531	244458	244458	244531	244531	244531	244458	243713	242969	242450	242525
1998	244904	244829	244680	244606	244660	244680	244606	244606	244680	244755	244755	244829	244904	245054	245054	245128	244979	244904	244829	244755	244606	244458	244531	244606	244680	244755	244904	244979	244979	244979	244904
1999	173672	173491	173370	173188	173127	173005	172885	172825	172583	172462	172341	172220	172160	172100	171980	171920	171860	171739	171679	171498	171198	170897	170717	170657	170597	170537	170358	170179	169999	169819	169341
2000	134438	134438	134337	134029	133772	133465	133159	132803	132497	132192	131736	131331	130927	130574	130273	130122	129971	129620	129670	129569	129469	129469	129469	129519	129519	129519	129469	129469	129469	129519	129519
2001	100461	100545	100840	100798	100713	100587	100587	100545	100503	100461	100377	100419	100419	100503	100629	100587	100545	100545	100503	100503	100629	100671	100713	100713	100671	100671	100671	100713	102240	104689	105906
2002	134695	134747	134798	134901	134953	134953	135056	135159	135159	135262	135314	135262	135159	135159	135211	135778	136555	136815	136867	137178	137282	137282	137334	137334	137438	137491	137647	137699	138013	138065	138222
Max.	**300040**	**299123**	**299290**	**299040**	**298539**	**297956**	**297789**	**304514**	**311918**	**317467**	**321960**	**325372**	**328458**	**330869**	**333029**	**334848**	**336325**	**336760**	**336934**	**337195**	**337369**	**336760**	**335369**	**333288**	**331128**	**328888**	**326228**	**322897**	**319752**	**316623**	**313258**
Min.	**8537**	**8537**	**8558**	**8600**	**8607**	**8600**	**8607**	**8607**	**8621**	**8649**	**8649**	**8649**	**8656**	**8656**	**8656**	**8663**	**8663**	**8663**	**8670**	**8670**	**8677**	**8684**	**8684**	**8670**	**8670**	**8670**	**8670**	**8670**	**8670**	**8670**	**8670**
Ave.	**148635**	**148529**	**148586**	**148549**	**149025**	**151992**	**152593**	**152753**	**152635**	**152946**	**153151**	**153245**	**153293**	**153305**	**153299**	**153298**	**153280**	**153235**	**153088**	**153085**	**153020**	**153088**	**153714**	**154071**	**154379**	**154634**	**154993**	**155226**	**155362**	**155473**	**155523**





LEGEND

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

SCALE
5 0 5 10
(Statute Miles)

ISABELLA LAKE
KERN RIVER, CALIFORNIA

GENERAL MAP

CORPS OF ENGINEERS SACRAMENTO, CALIFORNIA

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

Date: NOVEMBER 1977

Chart 1

METRO BAKERSFIELD CANALS

- Kern River - 326-3716
- Kern Delta Canals - 834-4656
- Arvin-Edison Canal - 854-5573
- Cross Valley Canal - 634-1400
- North Kern Canals - 393-2696
- Friant-Kern Canal - 559-562-6305
- Rosedale RBWSD - 589-6045
- Buena Vista WSD - 324-1101

KERN RIVER
FIRST POINT OF MEASUREMENT
BEARDSLEY RIVER WEIR
ROCKY POINT WEIR
CALLOWAY RIVER WEIR
PUMP STATION 'A'
KCWA WATER TREATMENT PLANT
FOUR WEIRS
LEVEE #1
BEARDSLEY CANAL
#5 DITCH
#4 DITCH
#1 DITCH
RRID MAIN CANAL
CALLOWAY CANAL
FRIANT-KERN CANAL
CROSS VALLEY CANAL
CARRIER CANAL
ARVIN-EDISON TURNOUT
RIVER CANAL WEIR
ROSEDALE CHANNEL
PIONEER INLET TO CVC
BELLEVUE WEIR
PIONEER EXTENSION
LAKE OHSHUH
LAKE XAHLY
TRUXTUN LAKES
EAST SIDE CANAL
KERN ISLAND CANAL
K.I. EAST BRANCH
K.I. CENTRAL BRANCH
K.I. BRANCH 1
STINE CANAL
SEC. 15 DITCH
SEC. 23 DITCH
KERN ISLAND MAIN
ARVIN-EDISON CANAL
McCLUNG WEIR
RIVER CANAL
BERRENDA MESA PIPELINE TURNOUT
2800 ACRE RECHARGE FACILITY
SECOND POINT OF MEASUREMENT
ALTERNATE 2ND POINT
ALEJANDRO CANAL
BUENA VISTA CANAL
STINE BRANCH 2
FARMERS CANAL
HIRSCHFIELD DITCH

City of Bakersfield
Water Resources Dept.
Ver. 1/17/02


C. H. Phillips
Hydrographer
Kern County Canal & Water Co.
A. K. Warren
Chief Hydrographer/Engineer
Kern County Canal & Water Co.
Circa 1925







BAKERSFIELD