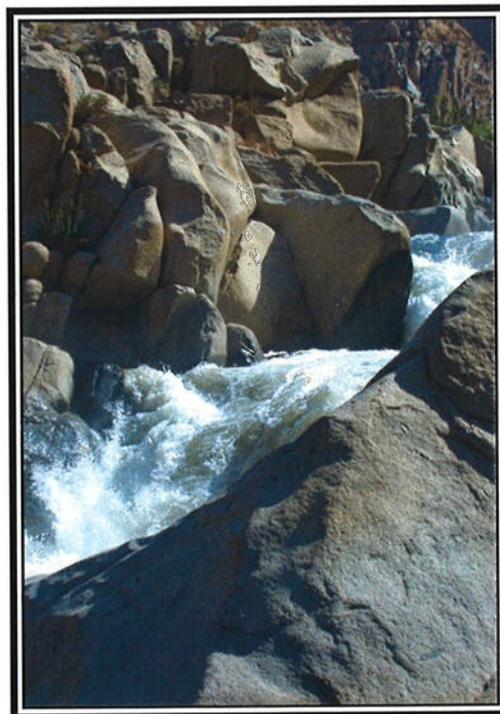


KERN  
RIVER

2003  


*Prepared for:*

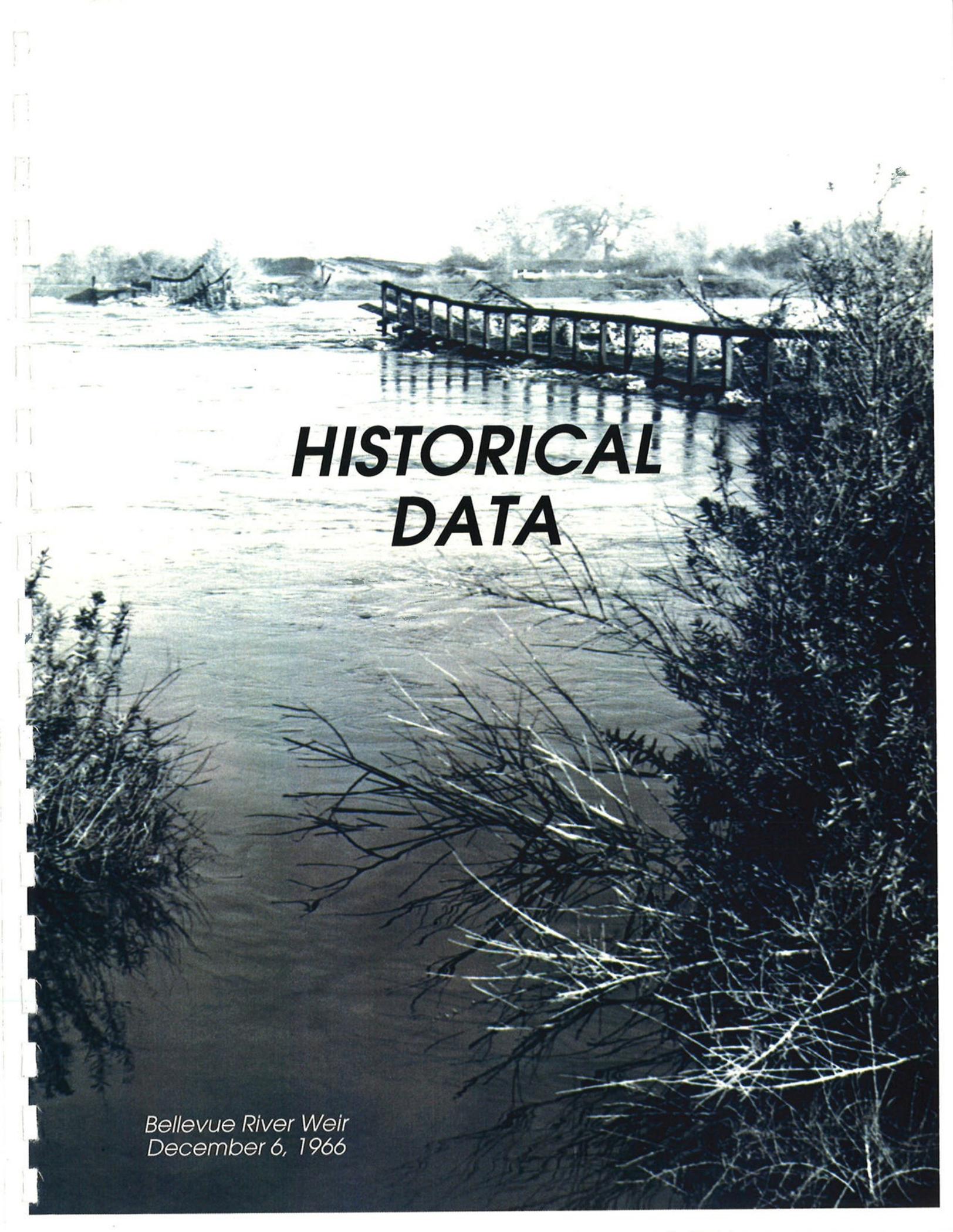
**NKWSD FIELD OFFICE**



2003  
HYDROGRAPHIC ANNUAL REPORT

Table of Contents

<u>Item</u>	<u>Page</u>
1. HISTORICAL DATA:	
a. Kern River at First Point of Measurement .....	1-13
b. Isabella Dam & Reservoir .....	14-20
2. KERN RIVER OPERATIONS: 2003	
a. Kern River in Review .....	21-24
b. Kern River at First Point of Measurement: Natural .....	25
c. Kern River North Fork: Flow at Kernville .....	26
d. Kern River at First Point of Measurement: Regulated .....	27
e. Kern River Conduit at Alternate Second Point .....	28
f. Kern River Channel at Second Point .....	29
g. Friant-Kern Inflow: to Kern River Channel .....	30
h. Summary of Kern River Entitlements .....	31
i. Summary of Kern River Diversions: First Point Group .....	32
j. Summary of Kern River Diversions: By Entity .....	33
k. Utilization of Storage: First Point Group .....	34
3. KERN DELTA WATER DISTRICT:	
a. Summary of Entitlements, Deliveries, Storage, etc.: All Canals .....	35
b. Kern Island Canal Service Area .....	36-39
c. Eastside Canal Service Area .....	40-41
d. Buena Vista Canal Service Area .....	42-44
e. Stine Canal Service Area .....	45-47
f. Farmers Canal Service Area .....	48
g. Kern River Water Diverted via Kern River Canal .....	49
h. State Aqueduct Exchange Diversion and Storage Recap .....	50
4. CITY OF BAKERSFIELD:	
a. Kern River Channel Operations .....	51
b. Carrier Canal Operations .....	52
c. City Entitlements, Deliveries, Storage, etc. ....	53
d. Summaries of Deliveries to Basic Contractors .....	54-72
e. Rosedale Rio Bravo Water Storage District Summaries .....	73-78
f. Kern River Canal and Irrigating Company .....	79
g. South Fork Diversion Right Summary .....	80
h. Miscellaneous Water Delivery Summaries .....	81-86
i. Cross Valley Canal River Turnout Summaries .....	87-90
5. NORTH KERN WATER STORAGE DISTRICT:	
a. North Kern WSD Entitlements, Deliveries, Storage, etc. ....	91
b. Beardsley-Lerdo Canal Operation Summaries .....	92-97
c. Calloway Canal Operation Summaries .....	98-99
d. North Kern WSD Irrigation Deliveries: 2003 .....	100-102
e. Rosedale Ranch Improvement District Summary .....	103
f. Poso Creek Summary .....	104
g. North Kern WSD Exchange Summaries .....	105-110
h. North Kern WSD/City of Bakersfield Water Exchange Recaps .....	111-112
6. COST ALLOCATION SUMMARIES .....	113-117
7. KERN RIVER WATERMASTER SUMMARIES:	
a. Hacienda Water District Storage Rental Charge: 2003 .....	118
b. Kern County Recreation Pool .....	119
c. Kern River Runoff: Calendar and Water Year .....	120
d. 2003 Watermaster Recapitulation .....	121
e. 2003 Isabella Reservoir Storage Recapitulation .....	122
f. January-December 2003 Watermaster Reports	
g. January-December 2003 Distribution Recaps	
h. 1954-2003 Monthly Summaries of Isabella Reservoir Storage	
i. Location Maps: Kern River Drainage Basin and Metro Bakersfield Canals	



# ***HISTORICAL DATA***

*Bellevue River Weir  
December 6, 1966*

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

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
Measurements and Estimates were not made prior to September 29, 1893...																	
1893	acre-feet										32,864	30,827	31,757	--	--	--	--
	mean s.f.d.										534	518	516	--	--	--	--
1894	acre-feet	40,647	39,816	61,548	88,974	98,801	64,564	43,061	20,565	14,759	17,179	14,501	28,911	533,326	--	--	--
	mean s.f.d.	661	717	1,001	1,495	1,607	1,085	700	334	248	279	244	470	--	2,208	172	737
1895	acre-feet	49,769	69,521	84,456	162,071	268,635	172,890	91,133	38,672	20,452	20,091	20,604	24,758	1,023,052	--	--	--
	mean s.f.d.	809	1,252	1,374	2,724	4,369	2,906	1,482	629	344	327	346	403	--	5,583	276	1,413
1896	acre-feet	45,951	35,510	58,494	57,864	86,174	146,124	82,760	29,885	18,061	16,401	21,108	21,360	619,692	--	--	--
	mean s.f.d.	747	617	951	972	1,401	2,456	1,346	486	304	287	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	1,066	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	3,082	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	3,169	1,077	730	508	577	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-foot	38,241	53,944	80,166	138,113	184,481	222,076	156,498	45,980	25,222	25,422	21,691	21,650	1,013,384	--	--	--
	mean s.f.d.	622	971	1,304	2,321	3,000	3,732	2,545	746	424	413	365	352	--	5,383	273	1,400
1912	acre-foot	23,320	21,302	28,090	37,246	80,471	100,925	33,170	16,653	10,899	11,770	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-foot	13,019	15,731	25,191	42,494	73,561	60,738	34,929	31,454	25,357	13,402	15,368	16,596	367,840	--	--	--
	mean s.f.d.	212	283	410	714	1,196	1,021	568	512	426	218	258	270	--	1,976	126	508
1914	acre-foot	116,541	62,575	102,739	144,934	210,676	201,064	128,338	55,127	25,240	24,462	20,390	21,427	1,113,513	--	--	--
	mean s.f.d.	1,895	1,127	1,671	2,436	3,426	3,379	2,087	897	424	398	343	348	--	18,287	285	1,538
1915	acre-foot	22,500	30,254	48,536	80,916	124,506	172,324	77,496	24,668	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-foot	172,346	202,510	378,116	481,749	472,984	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-foot	40,128	44,894	65,242	126,329	165,062	187,638	81,275	36,990	19,696	17,970	18,488	19,370	823,082	--	--	--
	mean s.f.d.	653	808	1,061	2,123	2,684	3,153	1,322	602	331	292	311	315	--	4,331	267	1,137
1918	acre-foot	18,918	18,559	48,087	74,513	78,722	196,753	44,828	20,807	17,562	32,555	22,160	25,039	598,503	--	--	--
	mean s.f.d.	308	334	782	1,252	1,280	2,298	729	338	295	529	372	407	--	3,478	227	744
1919	acre-foot	21,098	23,002	37,973	86,574	140,215	81,844	34,364	16,288	11,722	13,835	13,884	18,325	499,124	--	--	--
	mean s.f.d.	343	414	618	1,455	2,280	1,375	559	265	197	225	233	298	--	4,299	156	689
1920	acre-foot	17,220	18,044	40,397	83,370	158,904	137,840	50,699	22,431	14,949	16,596	19,490	20,703	600,643	--	--	--
	mean s.f.d.	280	314	657	1,401	2,584	2,316	825	365	251	270	328	337	--	4,456	196	827
1921	acre-foot	23,520	30,791	55,402	51,723	100,096	120,387	49,119	18,073	12,595	13,180	12,960	21,673	509,519	--	--	--
	mean s.f.d.	383	554	901	869	1,628	2,023	799	294	212	214	218	352	--	3,548	110	704
1922	acre-foot	30,682	33,846	52,468	84,407	242,259	202,395	88,649	37,061	23,772	17,770	19,835	28,282	861,426	--	--	--
	mean s.f.d.	499	609	853	1,419	3,940	3,401	1,442	603	400	289	333	460	--	5,300	196	1,190
1923	acre-foot	26,863	25,720	31,372	73,355	120,849	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-foot	13,676	13,702	15,953	28,540	41,722	14,069	8,225	5,881	5,494	7,642	14,196	18,627	187,727	--	--	--
	mean s.f.d.	222	238	259	480	679	236	134	96	92	124	239	303	--	1,073	74	259
1925	acre-foot	17,992	26,333	31,299	56,408	102,016	96,252	58,437	25,938	11,405	12,906	12,305	14,622	465,913	--	--	--
	mean s.f.d.	293	474	509	948	1,659	1,618	950	422	192	210	207	238	--	2,819	148	635
1926	acre-foot	12,022	15,667	24,739	66,079	98,598	49,530	18,575	9,522	7,029	8,358	28,493	28,094	366,706	--	--	--
	mean s.f.d.	196	282	402	1,110	1,604	832	302	155	118	136	479	457	--	6,511	74	507
1927	acre-foot	20,485	75,279	73,083	100,362	184,721	161,153	75,481	26,817	14,842	14,037	27,180	19,140	792,580	--	--	--
	mean s.f.d.	333	1,355	1,189	1,687	3,004	2,708	1,228	436	249	228	457	311	--	6,571	188	1,095
1928	acre-foot	18,452	17,818	32,668	37,757	76,885	60,344	18,716	9,189	6,583	8,732	11,974	13,710	312,828	--	--	--
	mean s.f.d.	300	310	531	635	1,250	1,014	304	149	111	142	201	223	--	2,068	101	431
1929	acre-foot	13,864	14,654	25,176	39,084	85,995	63,487	30,986	12,797	9,146	8,793	9,035	9,961	322,958	--	--	--
	mean s.f.d.	225	264	409	656	1,399	1,067	504	208	154	143	152	162	--	2,003	119	446
1930	acre-foot	12,234	20,099	34,550	53,506	67,951	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	16,784	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	109,787	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	1,912	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	293,928	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	18,928	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	196,736	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	580	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	385	--	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	650,883	--	--	--
	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	78,585	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	1,288	--	37,000	128	831

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

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
1951	acre-foot	32,975	30,018	35,101	48,914	85,039	88,990	38,941	12,966	7,793	9,364	11,958	40,163	442,222	--	--	--
	mean s.f.d.	536	541	571	822	1,383	1,496	633	211	131	152	201	653	--	8,341	69	611
1952	acre-foot	60,367	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	2,607	1,109	515	381	418	573	--	8,530	254	2,073
1953	acre-foot	60,760	40,498	38,709	70,730	68,019	103,164	69,657	21,503	12,730	13,125	15,023	16,915	548,833	--	--	--
	mean s.f.d.	988	729	630	1,189	1,399	1,734	1,133	350	214	213	252	275	--	3,798	119	758
1954	acre-foot	22,019	30,361	44,575	101,203	139,719	73,553	39,642	19,198	12,571	12,351	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-foot	20,438	24,625	29,734	37,567	69,544	86,660	31,014	19,293	9,840	10,100	12,526	92,969	444,300	--	--	--
	mean s.f.d.	332	443	484	631	1,131	1,456	504	314	165	164	211	1,512	--	12,711	101	614
1956	acre-foot	82,943	49,993	62,767	97,553	159,683	168,876	99,529	41,141	21,370	23,397	17,042	16,568	840,862	--	--	--
	mean s.f.d.	1,349	869	1,021	1,639	2,597	2,838	1,619	669	359	381	286	269	--	5,167	207	1,158
1957	acre-foot	18,535	26,178	31,357	38,644	79,355	132,359	41,988	17,518	12,111	13,648	14,013	18,632	444,338	--	--	--
	mean s.f.d.	301	471	510	649	1,291	2,224	683	285	204	222	235	303	--	3,411	147	614
1958	acre-foot	22,088	39,453	68,140	168,105	316,974	230,866	115,724	56,190	27,515	20,815	19,935	19,025	1,104,730	--	--	--
	mean s.f.d.	359	710	1,108	2,825	5,155	3,880	1,882	914	482	339	333	309	--	6,592	236	1,526
1959	acre-foot	20,592	22,258	33,274	40,566	39,945	32,061	18,013	10,094	9,852	9,689	10,419	11,215	257,978	--	--	--
	mean s.f.d.	335	401	541	692	650	539	293	164	166	158	175	182	--	944	104	356
1960	acre-foot	13,363	30,682	31,908	46,272	58,336	47,181	16,683	9,638	8,678	10,187	14,183	12,926	300,037	--	--	--
	mean s.f.d.	217	533	519	778	949	793	271	157	146	166	238	210	--	1,690	99	413
1961	acre-foot	11,466	10,905	14,221	24,137	29,980	24,305	8,952	16,018	8,463	7,353	9,554	12,288	177,642	--	--	--
	mean s.f.d.	186	196	231	406	488	408	146	261	142	120	161	200	--	626	99	245
1962	acre-foot	13,507	53,411	37,660	147,463	135,884	157,253	74,874	25,416	13,849	14,051	12,407	11,929	697,704	--	--	--
	mean s.f.d.	220	962	612	2,478	2,210	2,643	1,218	413	233	229	209	194	--	3,604	144	964
1963	acre-foot	27,793	101,595	42,994	69,412	137,839	163,944	105,384	47,008	28,883	27,291	25,937	23,470	801,450	--	--	--
	mean s.f.d.	452	1,829	699	1,167	2,242	2,755	1,714	765	485	444	434	382	--	15,584	160	1,107
1964	acre-foot	19,943	17,119	25,146	42,946	61,521	54,658	23,803	14,097	9,025	9,150	14,939	46,919	339,266	--	--	--
	mean s.f.d.	324	298	409	722	1,001	919	387	229	152	149	251	763	--	4,693	120	467
1965	acre-foot	46,768	31,702	36,359	80,043	131,980	149,357	95,288	49,105	22,036	17,631	29,542	30,551	720,362	--	--	--
	mean s.f.d.	761	571	591	1,345	2,146	2,510	1,550	799	370	287	496	497	--	3,322	226	995
1966	acre-foot	29,272	22,439	39,108	68,779	82,336	45,431	23,347	18,141	9,608	10,822	15,501	313,811	678,595	--	--	--
	mean s.f.d.	476	404	636	1,156	1,339	763	380	295	161	176	261	5,104	--	80,029	112	937
1967	acre-foot	63,580	65,831	86,200	99,509	269,631	311,063	243,802	94,834	55,255	36,230	34,546	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-foot	34,052	40,354	48,803	65,584	87,991	64,054	30,690	20,600	11,466	13,599	16,982	19,585	453,760	--	--	--
	mean s.f.d.	554	702	794	1,102	1,431	1,076	499	335	193	221	285	319	--	1,923	155	625
1969	acre-foot	179,493	111,342	157,595	378,333	617,968	496,796	254,777	111,100	49,936	36,036	34,862	34,132	2,461,370	--	--	--
	mean s.f.d.	2,903	2,005	2,563	6,358	10,050	8,349	4,144	1,807	839	586	586	555	--	24,216	344	3,400
1970	acre-foot	66,480	41,419	59,917	63,513	110,057	95,700	50,138	24,224	14,392	13,301	21,519	28,814	589,474	--	--	--
	mean s.f.d.	1,081	746	974	1,067	1,790	1,608	815	394	242	216	362	469	--	6,298	171	814

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

YEAR	QUANTITY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL	MAX.	MIN.	MEAN
1971	acre-foot	34,143	30,960	41,913	52,661	66,635	82,707	42,472	19,841	11,371	11,540	14,102	19,109	427,454	--	--	--
	mean s.f.d.	555	557	682	885	1,084	1,390	691	323	191	188	237	311	--	1,895	125	590
1972	acre-foot	19,864	18,827	33,213	28,288	45,965	38,531	14,936	10,927	11,334	11,431	14,703	20,408	268,427	--	--	--
	mean s.f.d.	323	327	540	475	748	648	243	178	190	186	247	332	--	951	111	370
1973	acre-foot	33,628	36,395	52,778	110,892	288,652	230,390	93,854	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	1,528	667	387	307	375	452	--	5,886	220	1,353
1974	acre-foot	50,337	29,873	74,247	114,113	183,733	167,740	69,580	39,991	23,532	21,953	19,904	23,603	818,606	--	--	--
	mean s.f.d.	819	538	1,208	1,918	2,988	2,819	1,132	650	395	357	334	384	--	4,141	220	1,130
1975	acre-foot	21,521	26,725	42,815	46,602	147,001	140,660	51,917	22,625	17,133	16,209	15,049	16,310	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-foot	16,308	16,994	23,074	25,924	47,151	20,930	14,749	14,573	25,097	20,523	12,954	11,191	249,468	--	--	--
	mean s.f.d.	265	295	375	436	767	352	240	237	422	334	218	182	--	1,188	142	344
1977	acre-foot	13,456	13,704	14,765	23,391	25,630	35,655	10,973	10,979	7,815	8,146	8,456	24,028	196,998	--	--	--
	mean s.f.d.	219	247	240	393	417	599	178	179	131	132	142	391	--	2,049	57	272
1978	acre-foot	46,596	116,432	175,484	181,700	363,157	354,825	194,693	74,001	61,696	29,562	26,874	28,485	1,653,505	--	--	--
	mean s.f.d.	758	2,096	2,854	3,054	5,906	5,963	3,166	1,204	1,037	481	452	463	--	10,901	350	2,284
1979	acre-foot	34,062	41,825	72,299	102,079	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-foot	145,545	168,887	139,620	211,608	287,825	282,877	208,715	78,143	35,068	26,955	25,006	29,708	1,639,957	--	--	--
	mean s.f.d.	2,367	2,936	2,271	3,556	4,681	4,754	3,394	1,271	589	438	420	483	--	14,171	261	2,259
1981	acre-foot	28,709	34,762	45,608	69,320	91,914	65,817	25,630	17,389	13,222	14,781	18,922	23,189	449,263	--	--	--
	mean s.f.d.	467	626	742	1,165	1,495	1,106	417	283	222	240	318	377	--	2,211	157	621
1982	acre-foot	37,682	52,996	78,724	212,963	254,985	198,748	130,098	61,956	61,716	46,306	57,116	77,849	1,271,139	--	--	--
	mean s.f.d.	613	954	1,280	3,579	4,147	3,340	2,116	1,008	1,037	753	960	1,266	--	9,075	389	1,756
1983	acre-foot	87,905	138,514	265,543	206,473	478,625	571,846	288,866	154,935	68,503	53,300	71,599	103,019	2,489,128	--	--	--
	mean s.f.d.	1,430	2,494	4,319	3,470	7,784	9,610	4,698	2,520	1,151	867	1,203	1,675	--	14,038	602	3,438
1984	acre-foot	76,054	60,926	82,738	91,359	161,613	93,114	77,046	49,698	28,306	26,428	36,020	39,495	821,797	--	--	--
	mean s.f.d.	1,237	1,059	1,346	1,535	2,628	1,565	1,253	808	476	430	589	642	--	3,305	288	1,132
1985	acre-foot	40,423	40,610	53,371	136,241	146,799	99,858	41,395	23,956	17,024	16,495	22,314	33,945	672,431	--	--	--
	mean s.f.d.	657	731	868	2,280	2,387	1,678	673	390	286	268	375	552	--	3,353	208	929
1986	acre-foot	42,668	149,966	204,775	208,147	293,335	263,794	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-foot	25,595	29,504	41,566	55,236	75,108	56,146	24,918	14,735	10,683	11,484	14,745	16,215	375,935	--	--	--
	mean s.f.d.	416	531	676	928	1,222	944	405	240	180	187	248	264	--	1,817	145	519
1988	acre-foot	22,677	19,815	30,210	39,584	58,350	43,140	20,969	13,454	10,733	9,283	10,955	15,515	294,685	--	--	--
	mean s.f.d.	369	344	491	665	949	725	341	219	180	151	184	252	--	1,418	118	406
1989	acre-foot	15,947	23,528	67,430	91,380	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-foot	12,916	13,127	23,048	32,019	38,600	29,345	13,360	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	36,265	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	3,667	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
2003	acre-feet	33,402	31,428	48,924	56,146	113,472	118,383	37,075	24,278	14,555	10,798	12,962	18,301	519,724	--	--	--
	mean s.f.d.	543	566	796	944	1,845	1,990	603	395	245	176	218	298	--	3,887	154	718

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

YEAR: 2003

October 1893 to Date...

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Mean Monthly Flow (acre-feet)	37,453	43,828	65,565	99,206	156,052	139,033	72,342	31,325	18,411	17,392	20,303	27,793	728,703
Mean Monthly Flow (second foot days)	609	782	1,066	1,667	2,538	2,337	1,177	509	309	283	341	452	1,006
Maximum Monthly Flow (acre-feet)	246,022	202,510	378,116	481,749	617,968	571,846	399,841	154,995	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	110	110	110	110	110	110	110	110	110	111	111	111	
Cumulative Monthly Flow (All Months - acre-feet)	4,119,788	4,821,085	7,212,112	10,912,644	17,165,679	15,293,688	7,957,654	3,445,716	2,025,265	1,930,484	2,253,680	3,085,002	
Median Monthly Flow (acre-feet)	23,681	30,797	47,363	75,060	120,607	110,759	47,698	21,703	13,894	14,319	15,973	19,611	541,465
Median Monthly Flow (second foot days)	385	550	770	1,261	1,961	1,861	776	353	234	233	268	319	747

MEAN APRIL - JULY RUNOFF TO DATE = 486,633 AcFt  
 MEDIAN APRIL - JULY RUNOFF TO DATE = 354,124 AcFt

MEAN MARCH - OCTOBER RUNOFF TO DATE = 599,326 AcFt  
 MEDIAN MARCH - OCTOBER RUNOFF TO DATE = 451,403 AcFt



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

**DISCHARGE IN CUBIC FEET PER SECOND**

Year: 2003

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	462	737	864	1,305	2,126	2,719	1,693	725	368	300	290	355
2	512	702	896	1,311	2,152	2,688	1,672	702	364	297	288	357
3	604	660	974	1,327	2,191	2,673	1,647	683	361	294	285	373
4	509	614	950	1,321	2,253	2,662	1,619	666	353	291	282	394
5	501	615	979	1,351	2,298	2,669	1,562	641	366	284	285	499
6	479	673	942	1,377	2,337	2,674	1,517	625	370	291	285	1,091
7	471	801	900	1,397	2,366	2,670	1,471	609	346	282	288	522
8	475	747	916	1,422	2,407	2,644	1,426	595	333	287	362	430
9	458	789	1,000	1,449	2,444	2,591	1,383	579	322	288	382	437
10	472	759	1,042	1,477	2,470	2,569	1,343	570	312	284	321	445
11	492	693	1,046	1,576	2,474	2,529	1,295	560	307	281	322	457
12	551	711	999	1,592	2,475	2,509	1,259	548	311	278	318	440
13	569	821	1,004	1,586	2,500	2,491	1,229	523	301	278	311	417
14	667	811	1,014	1,604	2,525	2,455	1,206	505	291	274	314	392
15	588	805	989	1,625	2,544	2,421	1,169	496	290	274	309	389
16	600	780	1,028	1,667	2,563	2,372	1,143	493	285	275	310	385
17	589	802	1,051	1,686	2,591	2,339	1,110	482	283	281	319	387
18	657	901	1,110	1,715	2,626	2,298	1,082	479	281	278	334	378
19	628	900	1,101	1,757	2,664	2,259	1,049	477	275	277	463	371
20	589	890	1,094	1,805	2,664	2,224	1,023	464	275	279	413	369
21	597	835	1,130	1,850	2,667	2,189	988	445	276	277	368	376
22	689	838	1,118	1,887	2,679	2,153	958	428	275	275	379	405
23	709	860	1,123	1,901	2,672	2,105	943	419	273	275	365	534
24	715	833	1,135	1,919	2,683	2,043	943	405	273	274	385	484
25	950	835	1,182	1,939	2,705	1,989	901	395	289	272	388	487
26	925	828	1,207	1,974	2,751	1,927	872	383	329	279	364	462
27	769	831	1,241	1,999	2,759	1,883	852	381	305	283	378	494
28	721	819	1,247	2,044	2,765	1,834	823	383	288	285	372	470
29	640	869	1,246	2,060	2,782	1,785	790	382	292	286	363	458
30	618	-	1,246	2,093	2,776	1,732	767	377	288	292	393	502
31	676	-	1,282	-	2,767	-	738	371	-	297	-	452
<b>TOTAL</b>	<b>18,882</b>	<b>22,097</b>	<b>33,056</b>	<b>50,016</b>	<b>78,676</b>	<b>70,096</b>	<b>36,473</b>	<b>15,793</b>	<b>9,282</b>	<b>8,768</b>	<b>10,236</b>	<b>14,012</b>
<b>MAXIMUM DAY</b>	<b>950</b>	<b>901</b>	<b>1,282</b>	<b>2,093</b>	<b>2,782</b>	<b>2,719</b>	<b>1,693</b>	<b>725</b>	<b>370</b>	<b>300</b>	<b>463</b>	<b>1,091</b>
<b>MINIMUM DAY</b>	<b>458</b>	<b>614</b>	<b>864</b>	<b>1,305</b>	<b>2,126</b>	<b>1,732</b>	<b>738</b>	<b>371</b>	<b>273</b>	<b>272</b>	<b>282</b>	<b>355</b>
<b>MEAN</b>	<b>609</b>	<b>782</b>	<b>1,066</b>	<b>1,667</b>	<b>2,538</b>	<b>2,337</b>	<b>1,177</b>	<b>509</b>	<b>309</b>	<b>283</b>	<b>341</b>	<b>452</b>
<b>TOTAL AC. FT.</b>	<b>37,453</b>	<b>43,828</b>	<b>65,565</b>	<b>99,206</b>	<b>156,052</b>	<b>139,033</b>	<b>72,342</b>	<b>31,325</b>	<b>18,411</b>	<b>17,392</b>	<b>20,303</b>	<b>27,793</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>367,387</b>	<b>MAX.,</b>	<b>2,782</b>	<b>MIN.,</b>	<b>272</b>	<b>MEAN,</b>	<b>1,006</b>	<b>TOTAL AC.FT.,</b>	<b>728,703</b>		

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

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	349	442	615	1,038	1,618	2,163	1,233	492	263	229	244	285
2	347	435	634	1,025	1,653	2,210	1,138	466	255	229	252	281
3	346	452	628	1,005	1,645	2,214	1,115	468	257	227	250	305
4	353	460	638	1,006	1,708	2,192	1,108	467	262	236	250	317
5	354	468	700	1,049	1,690	2,129	1,063	433	256	226	257	321
6	367	475	675	1,103	1,717	2,141	1,031	426	258	222	249	326
7	369	490	645	1,196	1,706	2,407	965	410	254	228	252	312
8	372	522	625	1,194	1,736	2,277	914	407	248	230	255	312
9	382	534	646	1,209	1,874	2,222	884	388	246	228	259	307
10	366	551	632	1,212	1,908	2,160	844	379	246	230	264	304
11	378	543	643	1,186	1,875	2,238	821	366	241	224	262	309
12	388	562	646	1,178	1,896	2,256	814	357	243	225	267	309
13	386	585	622	1,201	1,994	2,157	819	363	233	229	268	315
14	392	566	659	1,226	1,927	2,151	799	348	225	229	271	318
15	374	538	709	1,176	1,922	2,069	755	340	227	229	269	319
16	385	575	704	1,211	1,888	1,952	728	342	234	229	268	325
17	373	614	723	1,230	2,031	1,839	703	329	229	233	269	322
18	373	609	746	1,261	2,095	1,759	704	325	226	232	270	311
19	384	597	821	1,279	2,133	1,640	684	320	220	241	281	317
20	395	593	847	1,307	2,071	1,589	689	310	218	237	277	318
21	390	576	893	1,345	2,019	1,552	668	306	221	237	267	311
22	397	577	867	1,392	2,081	1,556	633	296	223	229	275	316
23	393	574	882	1,412	2,061	1,518	608	307	215	235	282	334
24	418	581	875	1,446	2,100	1,422	589	307	210	233	287	327
25	416	600	902	1,454	2,129	1,436	598	298	211	232	290	336
26	397	602	950	1,488	2,094	1,406	574	283	220	239	288	327
27	406	620	989	1,480	2,166	1,320	544	298	215	247	281	326
28	404	634	989	1,499	2,231	1,290	524	279	214	245	278	335
29	411	642	970	1,497	2,289	1,316	508	279	214	242	283	345
30	428	-	986	1,538	2,291	1,260	508	279	221	242	288	344
31	446	-	1,018	-	2,258	-	483	274	-	245	-	353
<b>TOTAL</b>	<b>11,939</b>	<b>15,527</b>	<b>23,879</b>	<b>37,843</b>	<b>60,806</b>	<b>55,841</b>	<b>24,048</b>	<b>10,942</b>	<b>7,005</b>	<b>7,219</b>	<b>8,053</b>	<b>9,887</b>
<b>MAXIMUM DAY</b>	<b>446</b>	<b>642</b>	<b>1,018</b>	<b>1,538</b>	<b>2,291</b>	<b>2,407</b>	<b>1,233</b>	<b>492</b>	<b>263</b>	<b>247</b>	<b>290</b>	<b>353</b>
<b>MINIMUM DAY</b>	<b>346</b>	<b>435</b>	<b>615</b>	<b>1,005</b>	<b>1,618</b>	<b>1,260</b>	<b>483</b>	<b>274</b>	<b>210</b>	<b>222</b>	<b>244</b>	<b>281</b>
<b>MEAN</b>	<b>385</b>	<b>550</b>	<b>770</b>	<b>1,261</b>	<b>1,961</b>	<b>1,861</b>	<b>776</b>	<b>353</b>	<b>234</b>	<b>233</b>	<b>268</b>	<b>319</b>
<b>TOTAL AC. FT.</b>	<b>23,681</b>	<b>30,797</b>	<b>47,363</b>	<b>75,060</b>	<b>120,607</b>	<b>110,759</b>	<b>47,698</b>	<b>21,703</b>	<b>13,894</b>	<b>14,319</b>	<b>15,973</b>	<b>19,611</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>272,989</b>	<b>MAX.,</b>	<b>2,407</b>	<b>MIN.,</b>	<b>210</b>	<b>MEAN,</b>	<b>747</b>	<b>TOTAL AC.FT.,</b>	<b>541,465</b>		

# 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	60,539	81,189	61,059	39,890	22,114	14,450	17,500	17,585	510,320
1955	19,795	22,058	34,671	38,874	48,188	72,196	43,259	25,065	12,936	43,259	13,999	26,743	367,763
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	39,877	52,885	96,486	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	49,625	25,085	18,625	967,511
1959	20,611	20,991	37,767	29,836	27,463	94,028	59,817	22,699	10,524	8,700	13,803	12,798	353,165
1960	12,518	17,405	24,044	25,041	47,986	61,481	38,991	28,396	13,154	10,483	9,785	10,643	324,088
1961	12,518	17,405	24,044	25,041	47,986	61,481	38,991	28,396	13,154	10,483	9,785	10,643	324,088
1962	13,121	17,435	44,838	95,445	87,187	112,437	118,179	118,179	118,179	118,179	118,179	118,179	1,181,710
1963	12,067	24,175	38,959	38,914	54,756	80,063	71,078	31,323	10,989	8,652	34,356	28,877	634,303
1964	20,356	21,152	28,532	27,485	26,451	76,258	96,236	75,497	52,397	47,220	34,356	82,447	504,506
1965	35,784	35,907	41,383	39,399	61,313	87,486	66,338	51,110	19,535	14,799	15,285	35,482	1,465,865
1966	29,978	22,752	50,933	44,634	37,289	200,743	183,566	240,154	146,509	85,002	56,799	14,085	2,313,769
1967	146,180	40,516	57,923	45,035	52,156	88,046	82,937	56,584	13,655	13,886	16,365	34,122	1,465,865
1968	33,088	36,284	44,904	378,817	332,015	374,787	263,903	221,738	121,959	102,494	90,523	34,122	2,313,769
1969	50,439	106,247	237,265	378,817	332,015	374,787	263,903	221,738	121,959	102,494	90,523	34,122	1,465,865
1970	42,299	32,206	52,489	60,101	53,698	86,904	94,112	88,421	35,667	21,265	18,228	15,844	601,254
1971	25,978	35,530	48,588	30,809	31,950	57,322	82,128	64,643	23,520	12,184	12,839	17,169	442,661
1972	19,527	22,094	32,130	66,541	44,985	47,986	47,986	31,579	11,560	10,286	16,524	16,524	311,291
1973	21,356	36,878	97,172	143,554	161,028	96,807	120,476	109,093	69,648	47,983	24,811	25,579	785,133
1974	35,447	45,969	49,248	47,151	57,477	95,197	108,932	89,738	34,139	15,108	37,085	23,197	745,903
1975	21,221	34,844	45,041	38,444	57,142	95,197	108,932	89,738	34,139	15,108	37,085	23,197	745,903
1976	14,690	19,008	31,789	23,609	28,901	52,300	54,190	30,742	21,888	7,660	8,287	14,773	200,702
1977	14,051	50,285	49,222	149,450	296,073	236,549	199,597	146,660	73,234	50,098	70,927	30,458	1,390,675
1978	28,132	31,793	45,903	46,508	62,957	82,513	126,343	109,938	32,267	22,792	18,855	16,909	696,088
1979	32,549	157,503	185,069	165,069	167,415	194,134	238,716	200,338	106,516	82,893	61,644	28,398	1,560,652
1980	55,976	81,590	40,594	47,768	66,469	96,469	155,508	156,341	14,315	14,324	18,426	21,579	460,463
1981	27,013	49,110	49,110	49,110	49,110	49,110	49,110	49,110	49,110	49,110	49,110	49,110	1,121,088
1982	30,363	43,374	49,110	49,110	49,110	49,110	49,110	49,110	49,110	49,110	49,110	49,110	2,381,576
1983	57,966	71,165	152,862	286,605	370,706	418,760	387,605	176,194	88,411	104,122	101,403	82,435	1,121,088
1984	64,280	96,998	69,614	49,793	67,327	89,409	110,785	96,794	43,180	41,726	37,616	80,549	894,036
1985	40,133	53,821	56,359	56,359	72,506	96,757	111,985	77,728	34,973	67,569	20,333	28,988	668,971
1986	39,039	39,039	39,039	39,039	39,039	39,039	39,039	39,039	39,039	39,039	39,039	39,039	1,391,561
1987	24,117	28,919	35,086	38,575	39,632	39,632	39,632	39,632	39,632	39,632	39,632	39,632	432,309
1988	20,793	26,906	35,086	38,575	39,632	39,632	39,632	39,632	39,632	39,632	39,632	39,632	432,309
1989	16,869	21,568	32,092	28,937	25,777	33,548	63,922	107,357	107,357	107,357	107,357	107,357	335,473
1990	12,926	16,124	25,071	28,937	33,548	38,600	118,677	88,671	51,846	34,725	10,768	13,739	348,773
1991	10,627	9,112	27,814	28,937	33,548	38,600	118,677	88,671	51,846	34,725	10,768	13,739	348,773
1992	13,593	25,451	52,479	45,489	63,922	107,357	107,357	107,357	107,357	107,357	107,357	107,357	1,197,100
1993	22,062	25,426	52,479	45,489	63,922	107,357	107,357	107,357	107,357	107,357	107,357	107,357	1,197,100
1994	19,622	28,720	41,256	41,256	35,411	69,470	75,175	53,484	12,490	11,353	13,361	14,394	333,494
1995	19,639	20,858	57,225	113,865	138,034	186,960	195,546	205,924	113,232	64,770	49,593	82,016	968,036
1996	28,994	34,576	47,226	59,046	148,419	153,315	153,315	153,315	153,315	153,315	153,315	153,315	1,133,463
1997	63,352	97,468	158,678	132,317	239,423	284,408	239,407	200,713	55,240	42,278	46,977	31,834	1,662,556
1998	45,636	40,907	29,209	28,480	38,071	64,411	78,924	64,187	36,405	20,473	10,848	16,203	461,621
1999	32,523	40,907	29,209	28,480	38,071	64,411	78,924	64,187	36,405	20,473	10,848	16,203	461,621
2000	19,948	23,320	33,634	46,580	48,204	81,023	83,659	59,577	26,533	20,340	12,260	16,260	472,536
2001	15,936	26,364	17,643	29,679	41,423	79,624	61,618	42,482	21,410	15,588	13,259	18,789	375,769
2002	25,339	19,898	26,465	28,300	34,740	58,163	58,163	36,317	16,197	13,635	20,165	23,684	357,827
2003	26,584	20,966	24,989	25,548	41,952	78,152	83,336	68,297	37,192	29,364	12,785	17,724	468,789
MAXIMUM	146,180	142,831	237,265	378,817	370,706	419,760	387,605	240,154	153,814	117,233	101,403	90,549	2,361,575
MINIMUM	10,627	9,112	14,017	16,316	16,780	19,321	25,222	21,316	6,885	7,267	8,037	8,925	177,063
Acft TOTAL	1,503,051	1,819,595	2,645,842	3,313,071	4,219,736	5,689,603	5,535,167	4,196,605	2,152,897	1,736,939	1,409,565	1,279,599	35,451,930
Acft AVERAGE	30,061	36,392	52,917	66,261	84,395	112,796	110,703	83,932	43,058	34,740	28,191	25,592	709,038
S.F.D. AVERAGE	489	649	861	1,114	1,373	1,896	1,900	1,365	724	565	474	416	977
% OF TOTAL	4.24%	5.13%	7.46%	9.35%	11.90%	15.91%	15.61%	11.84%	6.07%	4.90%	3.98%	3.61%	100.00%

Year: 2003

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

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	463	537	802	953	1,267	1,548	1,921	1,564	917	657	468	438
2	473	552	793	978	1,285	1,596	1,876	1,539	897	667	460	410
3	459	571	798	982	1,280	1,648	1,878	1,545	879	652	461	397
4	453	575	812	979	1,308	1,702	1,844	1,538	865	641	465	402
5	453	573	811	985	1,309	1,736	1,864	1,551	836	636	469	413
6	454	584	808	982	1,310	1,760	1,883	1,560	809	657	474	490
7	458	585	815	1,003	1,305	1,795	1,894	1,537	789	629	468	417
8	455	588	813	1,036	1,333	1,823	1,909	1,517	773	617	471	406
9	447	583	810	1,071	1,342	1,850	1,910	1,531	754	619	478	404
10	439	561	834	1,092	1,340	1,865	1,895	1,531	742	609	480	400
11	437	623	862	1,103	1,323	1,881	1,871	1,526	734	589	492	397
12	441	619	836	1,109	1,337	1,901	1,863	1,500	719	556	490	402
13	450	633	845	1,111	1,340	1,918	1,849	1,478	708	554	494	397
14	455	655	836	1,120	1,336	1,937	1,861	1,454	705	552	478	393
15	458	647	854	1,136	1,322	1,944	1,865	1,441	698	545	475	399
16	481	638	859	1,141	1,328	1,968	1,855	1,432	698	534	479	394
17	481	636	866	1,147	1,326	2,024	1,824	1,406	695	520	484	400
18	490	645	856	1,147	1,344	2,037	1,785	1,414	678	529	476	419
19	498	658	856	1,159	1,365	2,037	1,769	1,380	665	531	478	417
20	495	698	873	1,152	1,403	2,008	1,735	1,345	656	536	480	413
21	495	695	891	1,152	1,423	2,020	1,769	1,313	653	538	482	413
22	495	709	895	1,158	1,435	2,035	1,755	1,262	656	530	475	415
23	502	744	903	1,174	1,444	2,020	1,748	1,235	659	528	464	411
24	539	738	910	1,195	1,446	2,036	1,726	1,210	656	526	450	418
25	562	721	910	1,202	1,443	2,024	1,704	1,177	653	529	465	417
26	585	725	915	1,211	1,433	2,002	1,697	1,137	648	523	473	417
27	570	735	923	1,225	1,440	1,941	1,687	1,111	645	514	472	432
28	547	751	924	1,220	1,446	1,924	1,668	1,081	641	507	475	439
29	533	675	906	1,230	1,471	1,952	1,655	1,041	650	508	468	437
30	540	-	925	1,254	1,510	1,936	1,644	1,000	631	501	469	442
31	548	-	938	-	1,555	-	1,609	959	-	481	-	453
TOTAL	15,156	18,348	26,679	33,407	42,549	56,868	55,813	42,315	21,709	17,515	14,213	12,902
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.	102	67	143	86	223	215	349	84	64	40	66	22
MEAN	489	649	861	1,114	1,373	1,896	1,800	1,365	724	565	474	416
TOTAL AC. FT.	30,061	36,392	52,917	66,261	84,395	112,796	110,703	83,932	43,058	34,740	28,191	25,592
WHOLE YEAR:-	TOTAL,	357,474	MAX.,	9,289	MIN.,	22	MEAN,	977	TOTAL AC. FT.,	709,038		

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

Year: 2003

Quantities in acre-feet except where noted...

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1954													
1955	2,358	1,921	1,821	4,038	2,977	1,479	3,897	2,559	514	626	966	1,870	19,331
1956	5,828	1,732	2,448	2,386	1,390	3,298	1,929	402	(314)	551	1,065	2,524	31,774
1957	2,114	886	1,097	2,860	2,366	1,406	2,347	3,061	1,119	5,799	1,356	1,452	9,425
1958	1,494	2,918	6,644	14,550	4,681	(801)	918	1,114	(369)	48	743	1,057	34,677
1959	1,299	1,068	1,544	1,073	540	(936)	3,318	1,119	(880)	222	1,168	1,289	7,997
1960	1,071	2,739	1,633	1,581	92	1,601	1,311	1,559	(805)	502	1,060	1,039	14,397
1961	815	757	914	787	126	614	264	614	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	1,936	1,936	28,577
1964	1,682	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	1,740	2,285	15,727
1966	2,286	997	1,303	2,095	803	(63)	1,229	1,932	(58)	1,214	1,740	2,688	28,288
1967	3,856	3,320	3,094	3,945	1,988	7,531	5,736	10,549	1,517	1,296	2,619	2,428	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	1,172	260	1,120	15,684
1977	1,174	1,652	1,844	11,745	1,124	1,087	622	1,001	2,682	1,438	2,039	1,656	87,321
1978	4,577	26,353	12,041	11,512	1,718	4,945	7,597	736	516	476	476	1,544	18,882
1979	1,724	3,158	5,330	2,675	1,786	1,486	(415)	234	(86)	2	(58)	1,426	63,091
1980	6,814	9,429	8,860	7,525	3,543	7,595	9,802	8,239	958	764	459	1,798	15,255
1981	2,861	1,313	2,041	1,858	1,129	140	148	1,786	1,256	1,897	1,897	4,141	48,562
1982	3,805	3,501	7,352	10,277	1,973	3,885	5,471	3,876	7,454	5,473	5,718	9,390	138,195
1983	6,887	17,322	37,912	24,107	12,710	4,711	4,495	3,970	1,434	328	1,460	3,887	42,175
1984	7,549	5,329	5,418	3,381	2,701	(586)	2,697	517	279	1,497	2,264	3,501	23,515
1985	3,640	6,640	3,865	2,714	(625)	(586)	13,375	13,999	1,449	2,850	2,957	2,192	86,331
1986	3,754	6,350	8,619	9,540	9,416	1,611	1,486	1,149	896	901	418	669	19,387
1987	3,123	2,239	3,822	738	2,535	1,611	(485)	100	534	415	1,042	5,610	11,080
1988	713	764	1,228	(51)	(15)	495	(716)	671	(3)	376	150	973	6,269
1989	551	962	3,415	1,188	2,049	1,464	(1,580)	228	170	571	763	1,300	12,309
1990	1,471	1,278	1,669	42	298	59	(236)	662	(66)	(26)	1,205	1,429	7,258
1991	1,351	683	3,099	2,983	849	(286)	376	267	352	(222)	(433)	1,183	9,962
1992	1,384	2,297	1,800	1,196	(294)	(286)	16	(1,769)	366	903	308	1,019	4,203
1993	3,131	3,757	4,177	2,110	(1,854)	(1,528)	(638)	746	(89)	208	537	1,435	74,868
1994	604	1,351	446	226	(1,152)	(367)	258	11,347	1,360	2,468	1,784	3,132	52,135
1995	4,978	2,805	10,025	5,664	10,025	3,906	10,055	2,405	531	1,360	1,360	5,573	42,876
1996	3,627	10,773	8,346	4,362	7,908	3,906	2,628	(1,658)	2,448	(1,509)	(1,397)	4,441	183,940
1997	14,168	9,981	7,447	911	2,616	4,619	809	12,476	4,730	(121)	155	3,425	690
1998	5,482	34,907	24,539	25,855	30,900	25,533	16,059	2,094	624	1,088	122	690	23,235
1999	3,772	4,820	3,236	3,148	1,082	1,033	1,516	1,896	(3)	795	803	801	12,491
2000	1,637	3,112	3,640	(688)	(688)	(562)	543	250	(385)	(428)	487	1,202	7,664
2001	1,144	1,377	1,200	(807)	1,613	821	1,145	757	(251)	(17)	2,010	1,860	9,640
2002	2,359	1,163	1,307	(1,086)	(111)	(111)	990	932	(260)	514	579	991	11,799
2003	2,517	1,847	1,571	1,679	210	229	1,458	1,458	(260)	514	579	991	11,799
Total	162,494	222,340	254,179	236,281	159,462	132,023	128,403	124,201	52,559	49,859	56,518	115,336	1,693,645
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	34,564
Mean	3,316	4,538	5,187	4,822	3,254	2,694	2,620	2,535	1,073	1,018	1,153	2,354	8,488
Mean CFS	54	81	84	81	53	45	43	41	18	17	19	38	48

Year: 2003

Isabella Reservoir Daily Mean Storage (1954-2003)

MIDNIGHT STORAGE IN ACRE-FEET

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	152,429	164,090	174,584	187,790	216,278	283,905	300,772	256,661	202,093	176,065	156,610	148,642
2	152,671	164,480	174,972	188,584	217,868	286,067	300,140	254,945	200,953	175,250	156,201	148,533
3	153,349	164,596	175,296	189,294	219,469	288,095	299,443	253,133	199,828	174,278	155,797	148,584
4	153,664	164,671	175,739	189,953	221,162	289,917	298,750	251,288	198,742	173,706	155,382	148,544
5	153,916	164,768	176,302	190,569	222,814	291,684	297,902	249,369	197,795	172,935	154,940	149,005
6	154,065	164,898	176,645	191,210	224,567	293,336	296,973	247,389	196,908	172,132	154,523	151,910
7	154,201	165,073	176,904	191,818	226,299	294,963	295,941	245,441	195,978	171,384	154,101	152,497
8	154,340	165,369	177,223	192,362	228,040	296,413	294,776	243,556	195,042	170,627	154,028	152,654
9	154,442	165,835	177,504	192,959	229,891	297,698	293,546	241,562	194,104	169,871	154,016	152,730
10	154,562	166,279	177,872	193,559	231,889	298,882	292,271	239,567	193,158	169,122	153,734	152,834
11	154,752	166,514	178,333	194,495	233,860	299,896	290,935	237,611	192,238	168,414	153,419	153,032
12	155,207	166,718	178,683	195,474	235,802	300,812	289,524	235,668	191,375	167,786	153,050	153,124
13	155,795	167,221	178,956	196,402	237,817	301,526	288,111	233,699	190,486	167,132	152,697	153,170
14	156,381	167,709	179,279	197,298	239,821	302,199	286,679	231,758	189,580	166,487	152,355	153,179
15	156,716	168,168	179,532	198,197	241,910	302,738	285,144	229,815	188,677	165,857	152,024	153,174
16	157,200	168,600	179,820	199,064	244,066	303,180	283,617	227,922	187,764	165,264	151,663	153,173
17	157,600	169,014	180,163	199,977	246,275	303,467	282,067	226,018	186,873	164,718	151,357	153,153
18	157,813	169,882	180,466	200,893	248,585	303,615	280,557	224,101	186,009	164,141	151,120	153,109
19	158,148	170,632	180,790	201,821	251,053	303,795	279,004	222,269	185,159	163,559	150,841	152,963
20	158,443	171,419	181,087	202,826	253,539	303,985	277,400	220,479	184,320	162,993	150,539	152,960
21	158,758	171,922	181,479	203,891	256,007	304,062	275,707	218,686	183,513	162,372	150,286	152,897
22	159,048	172,360	181,924	205,004	258,551	304,052	274,052	216,982	182,686	161,782	150,124	152,964
23	159,320	172,797	182,377	206,079	261,112	303,984	272,365	215,287	181,851	161,201	149,922	153,577
24	159,748	173,125	182,861	207,110	263,654	303,752	270,685	213,638	181,038	160,633	149,778	153,928
25	161,012	173,502	183,355	208,172	266,125	303,464	268,967	212,010	180,291	160,037	149,689	154,251
26	161,831	173,972	183,856	209,255	268,667	303,153	267,199	210,435	179,721	159,482	149,489	154,512
27	162,322	174,049	184,428	210,452	271,232	302,874	265,459	208,887	179,049	158,981	149,228	154,866
28	162,629	174,268	185,078	211,770	273,814	302,516	263,704	207,406	178,298	158,476	148,997	155,092
29	162,829	-	185,676	213,172	276,443	302,003	261,912	205,977	177,556	158,175	148,810	155,226
30	162,978	-	186,277	214,692	278,959	301,418	260,134	204,616	176,820	157,517	148,762	155,335
31	163,405	-	187,015	-	281,486	-	258,359	203,309	-	157,098	-	155,383
MAXIMUM DAY	163,405	174,268	187,015	214,692	281,486	304,062	300,772	256,661	202,093	176,065	156,610	155,383
MINIMUM DAY	152,429	164,090	174,584	187,790	216,278	283,905	258,359	203,309	176,820	157,098	148,762	148,533

# HISTORICAL INFLOWS TO ISABELLA LAKE

## Runoff in 1,000 acre-feet

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	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	20.6	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	17.6	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	154.7	72.1	23.7	7.6	175.0
1962	7.1	8.8	11.0	12.4	47.1	32.4	140.5	130.8	162.3	102.6	42.2	13.1	653.7
1963	12.9	11.6	11.1	26.5	99.6	41.0	87.6	194.0	162.3	22.0	13.3	8.6	737.9
1964	24.5	23.8	21.5	18.2	16.6	22.7	39.6	60.0	52.3	94.9	50.7	22.0	323.1
1965	8.7	13.9	44.2	43.5	30.2	33.2	74.5	131.0	149.9	21.9	16.1	9.6	696.7
1966	15.6	28.4	28.3	27.0	21.4	37.8	66.7	81.5	45.4	28.4	18.4	11.3	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	266.5	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	94.5	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	136.7	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	33.6	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	289.9	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
2003	9.0	71.8	26.3	30.9	29.6	47.3	54.5	113.2	118.1	36.1	23.4	14.8	575.0
MEAN	17.0	20.4	31.0	38.9	44.1	62.5	91.5	152.7	137.7	73.0	32.9	20.0	721.6

# 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	0.00	1.51	0.43	0.00	0.00	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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.80	0.00	7.56
1966-67	0.00	1.09	11.53	2.49	0.02	0.63	2.75	0.18	0.24	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	0.37	0.25	0.00	0.00	0.00	0.00	15.95
1973-74	0.11	1.26	1.25	1.25	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	0.00	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	0.00	0.00	0.00	0.00	0.00	15.32
1982-83	0.78	3.14	3.78	4.31	4.36	5.96	0.58	0.09	0.04	0.00	0.13	0.71	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	0.08	0.00	0.00	0.00	0.00	0.15	9.19
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	0.42	0.42	0.48	0.00	0.00	0.04	8.65
1987-88	0.62	0.87	1.36	1.80	0.40	1.41	0.09	0.04	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	0.00	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	1.46	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	0.68	3.10	0.78	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	13.18
1995-96	0.00	0.00	1.79	4.36	5.03	1.47	0.53	0.00	0.00	0.00	0.00	1.02	12.46
1996-97	0.66	2.38	4.29	3.90	10.60	2.87	0.52	1.74	0.09	0.08	0.00	0.09	22.53
1997-98	0.40	1.76	1.74	2.72	0.51	0.57	1.65	0.98	0.00	0.04	0.00	0.39	9.71
1998-99	0.12	1.03	0.60	3.82	0.51	0.79	0.86	0.10	0.00	0.00	0.07	0.00	7.23
1999-00	0.00	0.18	0.00	1.55	3.98	0.15	1.86	0.00	0.00	0.42	0.00	0.00	8.75
2000-01	0.51	0.14	0.23	2.28	3.16	0.15	0.03	0.28	0.00	0.11	0.00	0.00	8.27
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	14.28
2002-03	0.00	5.76	2.85	0.01	1.70	1.24	0.73	0.56	0.00	0.29	0.78	0.56	11.33
AVERAGE	0.33	1.28	1.82	2.40	2.16	1.66	0.71	0.26	0.08	0.12	0.17	0.34	11.33
MAXIMUM	2.80	5.76	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	24.34
DATE OF OCCURRENCE	10/17/83	11/20/50	12/05/66	01/16/96	02/01/60	03/04/91	04/02/74	05/26/99	06/08/72	07/16/94	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	79.7	79.7	82.8	79.7	67.3	52.1	50.8	62.3
1959	47.6	46.1	56.5	64.1	62.8	72.2	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	60.9	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	40.7	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	45.0	59.3
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	76.1	70.9	56.8	45.7	39.6	59.1
1972	42.0	49.1	56.1	56.1	65.6	73.5	80.5	76.1	68.2	60.1	48.6	41.3	60.0
1973	40.3	45.7	42.8	53.0	64.9	73.1	74.8	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	45.7	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	77.2	70.0	60.3	53.6	44.5	58.3
1977	42.8	48.4	43.8	57.5	55.4	74.0	76.7	76.8	67.6	65.3	47.2	39.7	58.3
1978	44.3	46.1	53.1	50.9	60.4	71.7	77.6	72.2	70.0	61.8	50.0	48.4	59.1
1979	40.7	41.7	48.5	60.6	63.2	71.4	75.9	75.3	74.0	63.2	52.4	49.0	59.1
1980	47.5	49.5	46.5	54.8	57.7	66.8	77.8	79.7	73.2	56.9	52.9	47.1	60.9
1981	48.3	49.5	47.7	57.0	63.6	76.0	75.6	77.1	68.5	59.2	48.6	43.2	57.8
1982	41.8	47.8	47.4	52.5	63.6	68.6	75.6	75.7	74.0	61.3	50.2	46.1	58.5
1983	45.2	47.2	48.5	49.9	61.4	69.2	73.0	78.2	74.6	55.7	48.3	41.9	59.6
1984	47.0	46.6	51.4	52.6	67.3	70.6	80.9	75.3	74.5	65.1	50.2	44.5	59.6
1985	43.2	45.7	46.5	59.3	62.9	75.1	79.9	78.6	64.1	58.2	51.0	43.0	59.6
1986	49.7	49.0	53.5	54.9	63.5	73.7	75.7	76.5	69.6	64.4	48.6	38.8	58.2
1987	38.9	45.9	47.5	59.0	59.6	73.8	72.6	76.5	69.6	66.1	50.3	43.1	59.7
1988	42.3	48.5	50.8	55.1	63.0	70.3	80.2	77.9	72.5	66.1	51.8	44.2	59.2
1989	41.8	43.4	52.7	61.7	63.0	72.1	78.4	74.9	69.6	62.7	49.4	37.4	58.5
1990	42.5	42.6	50.7	57.9	67.7	71.9	80.1	77.8	77.2	67.6	53.4	45.2	59.9
1991	42.7	50.8	43.6	51.2	56.7	71.0	82.1	81.3	74.5	64.8	51.3	42.0	62.1
1992	43.4	49.2	52.4	62.5	71.7	73.3	79.1	77.0	72.5	62.7	50.9	43.2	59.9
1993	42.5	45.5	54.9	56.8	65.3	70.5	76.7	77.0	76.7	64.8	48.0	46.1	63.3
1994	46.5	45.6	54.7	58.1	66.8	79.6	86.8	85.5	76.7	68.5	60.8	48.5	63.5
1995	45.2	56.1	53.8	56.2	61.4	71.4	81.0	81.7	73.4	61.2	52.7	48.1	62.2
1996	47.1	48.8	52.7	58.8	64.7	74.1	82.3	82.0	73.4	61.4	52.6	44.2	62.1
1997	46.4	48.1	57.1	56.3	71.2	72.4	78.8	80.0	74.6	61.4	50.8	47.8	61.5
1998	46.7	44.3	52.7	53.2	56.1	67.8	80.5	82.5	71.2	59.3	50.8	49.5	62.0
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	44.4	49.0	51.9	56.2	67.4	77.1	79.0	80.4	73.3	61.7	48.6	49.5	62.0
2001	47.4	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
2003	52.0	47.8	53.5	55.5	66.6	76.0	83.8	80.4	77.7	68.9	49.2	46.5	63.2
Normal Maximum	44.4	47.3	50.5	55.5	63.6	72.8	79.4	78.2	72.1	62.1	51.2	44.6	60.1
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	8.64	82.98
1957-58	4.74	3.27	2.14	2.08	1.93	5.97	5.97	9.46	10.88	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	3.18	2.02	2.60	3.06	4.28	7.20	8.99	13.85	15.41	10.39	9.06	84.42
1961-62	6.42	3.00	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	14.32	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	8.19	74.38
1964-65	6.54	2.58	2.02	1.83	2.97	3.94	4.74	8.90	10.32	13.87	10.48	8.19	82.06
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	6.32	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	14.38	13.36	10.23	85.88
1970-71	6.63	3.51	1.36	1.74	2.77	5.61	6.83	8.49	12.51	14.38	13.30	9.93	86.86
1971-72	6.32	3.39	1.46	2.33	3.47	7.89	6.94	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	2.20	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	2.70	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	7.98	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	8.81	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	3.30	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	5.83	6.84	6.84	14.88	14.96	14.20	11.02	82.74
1995-96	7.75	4.31	2.43	2.65	1.96	5.20	8.94	12.78	15.78	13.66	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	3.09	2.07	1.51	3.91	5.44	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	1.95	5.67	6.57	13.31	15.73	14.94	15.09	11.28	99.26
2001-02	7.39	3.34	1.58	1.78	3.62	5.06	7.81	11.42	14.99	15.65	14.73	11.28	98.85
2002-03	7.10	3.95	2.05	2.85	2.64	5.32	5.40	9.38	13.36	15.39	12.48	10.65	90.57
MEAN	6.33	3.36	2.20	2.20	2.75	4.74	7.08	10.43	13.20	14.81	13.38	9.77	90.25

# ISABELLA RESERVOIR EVAPORATION

April 1954 to Date

Year: 2003

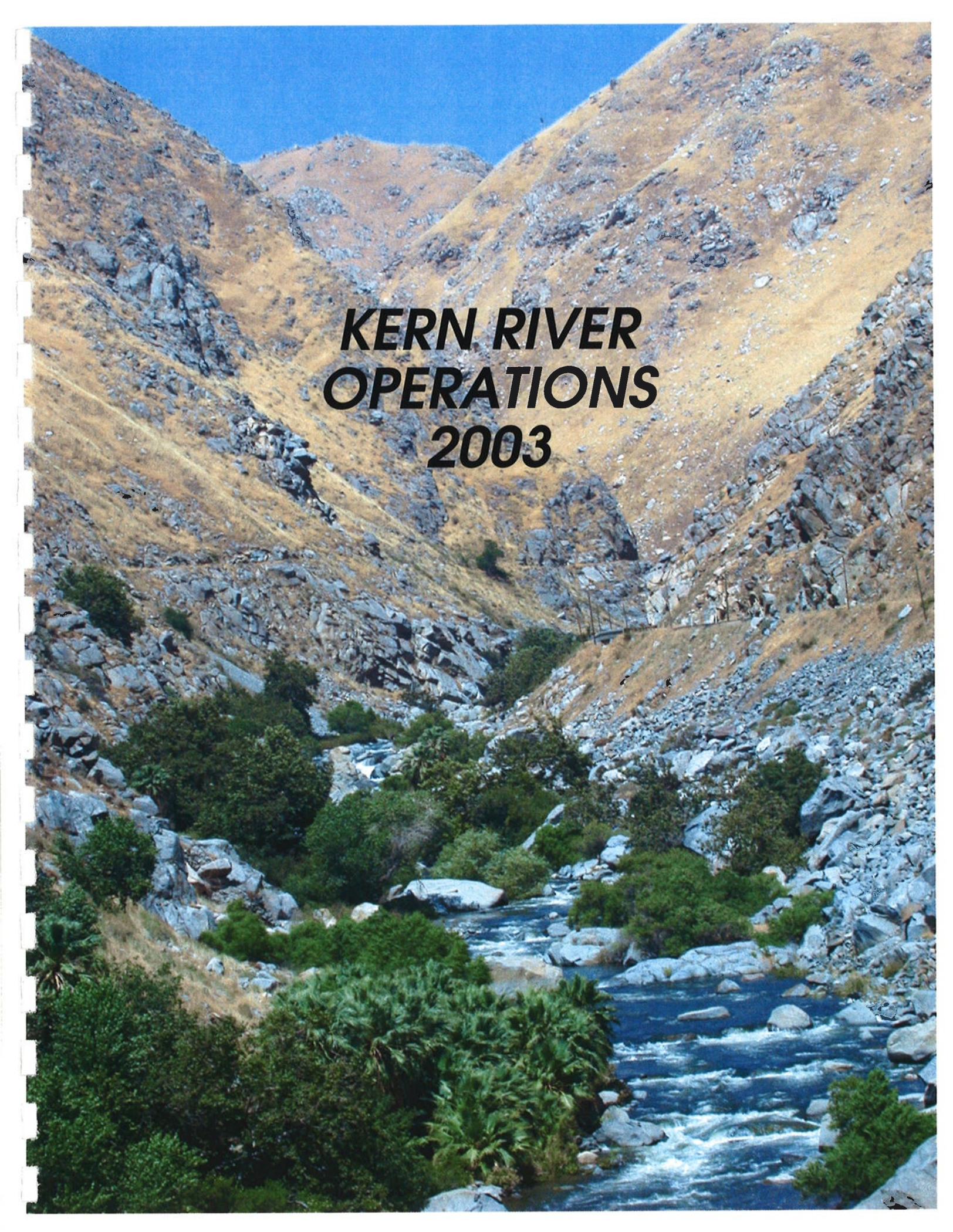
Quantities in acre-feet

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1954				181	1,662	2,554	2,599	1,563	833	436	192	109	10,129
1955	72	117	236	141	526	1,547	1,705	1,375	847	542	258	190	7,556
1956	407	768	1,444	1,797	3,330	5,496	5,484	5,484	4,193	2,056	1,183	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	1,043	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	990	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	6,896	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	1,063	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	1,360	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	545	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	1,964	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	3,289	3,757	2,495	1,795	1,125	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	8,190	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	2,910	1,862	1,789	1,434	28,118
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	4,331	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	3,193	4,350	7,260	8,057	8,941	5,790	6,050	4,219	1,196	1,472	55,815
1998	768	415	1,817	2,807	3,566	6,714	10,102	10,163	6,580	4,296	1,981	1,472	50,171
1999	1,384	1,252	1,983	2,430	5,956	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	2,063	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	5,978	4,647	3,358	2,081	1,488	813	32,055
2003	1,018	833	1,714	1,932	3,848	6,732	7,922	6,026	4,911	3,316	1,335	1,071	40,658
Average	808	913	1,573	2,452	4,242	6,176	6,999	5,964	4,165	2,700	1,408	886	38,286

**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
1964	85,380	June 9, 1954	0	April 16, 1954	8,670
1955	78,567	December 31	4,380	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	388,021	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	156,189	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	46,300	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	282,332	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	283,234	June 3	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
2003	312,710	June 19	138,326	January 1	148,505



***KERN RIVER  
OPERATIONS  
2003***

# KERN RIVER IN REVIEW 2003

## Introduction

The first major storm event of the 21<sup>st</sup> century affected the Kern River watershed over the period of November 8-9, 2002. The rare November storm deposited 80"-84" of snow at elevations around 8,500 feet, and sent the Kern River inflow to Lake Isabella soaring to over 30,000 cubic feet per second. During December 2002, a favorable storm track resulted in eight storm periods, twice the average number for December. The southerly diversion of these storms originating from the Gulf of Alaska, allowed the influx of warmer and wetter air from the Pacific Ocean, resulting in 150% of normal basin precipitation for the month. Much to the chagrin of local water managers, a split-flow weather pattern developed in early January of 2003, directing the main eastern Pacific storm track far north of the Kern River Basin. At Lake Isabella, the Corps of Engineers measured only .01" of precipitation during January 2003, the lowest amount recorded since January of 1984. Rainfall amounts for February and March of 2003 were about two-thirds of average for the period, further reducing the anticipated Kern River snow melt runoff. April and May storms brought unusually heavy spring-time precipitation to the Kern River watershed, overcoming a portion of the rainfall deficit created during January, February and March of 2003. The **2003 Kern River April-July** snow melt period ended with 325,076 acre-feet of runoff, **70%** of the long-term First Point average.



*Lower Kern River near Richbar*

Isabella Reservoir storage peaked on June 19, 2003 at 312,710 acre-feet, its highest level since June of 1999. Moist monsoonal flow beginning the end of July 2003 triggered flash flooding on the Kern River North Fork, leaving 1.07" of rainfall at Isabella Dam headquarters, the heaviest amount of mid-summer precipitation recorded since 1985.

## Precipitation



*Beach Meadow snow sensor,  
constructed in 1982*

Monthly precipitation amounts in inches as recorded at selected Kern County stations during the 2002-2003 Water Year were as follows:

	Bakersfield Meadows Field (Elev. 494 ft.)			Isabella Dam (Elev. 2660 ft.)			Glennville (Elev. 3140 ft.)		
	02-03	Ave.	% of Ave.	02-03	Ave.	% of Ave.	02-03	Ave.	% of Ave.
Oct	0.30	0.30	100%	0.00	0.33	0%	0.00	0.92	0%
Nov	0.68	0.59	115%	5.76	1.28	450%	5.56	2.13	261%
Dec	0.77	0.76	101%	2.65	1.82	146%	2.90	2.51	156%
Jan	0.01	1.18	1%	0.01	2.40	0%	0.42	3.88	11%
Feb	1.50	1.21	124%	1.70	2.16	79%	2.53	3.54	72%
Mar	0.37	1.41	26%	1.24	1.66	75%	1.99	3.74	53%
Apr	1.19	0.45	264%	0.73	0.71	103%	3.37	1.62	208%
May	0.16	0.24	67%	0.56	0.26	215%	1.49	0.73	204%
Jun	0.00	0.12	0%	0.00	0.08	0%	0.00	0.14	0%
Jul	0.00	0.00	0%	0.29	0.12	242%	0.79	0.05	1580%
Aug	0.04	0.08	50%	0.78	0.17	459%	0.72	0.16	450%
Sep	0.05	0.15	33%	0.56	0.33	170%	0.52	0.53	98%
<b>TOTAL</b>	<b>5.07</b>	<b>6.49</b>	<b>78%</b>	<b>14.28</b>	<b>11.33</b>	<b>126%</b>	<b>20.29</b>	<b>19.95</b>	<b>102%</b>

Temperature

Isabella, California, 2003 mean air temperatures (°F) with comparative averages, were as follows:

	2003 Actual	Normal	Variance from Norm		2003 Actual	Normal	Variance from Norm
Jan	52.0	44.4	+7.6	Jul	83.8	79.4	+4.4
Feb	47.8	47.3	+0.5	Aug	80.4	78.2	+2.2
Mar	53.5	50.5	+3.0	Sep	77.7	72.1	+5.6
Apr	55.5	55.5	0.0	Oct	68.9	62.1	+6.8
May	66.6	63.6	+3.0	Nov	49.2	51.2	-2.0
Jun	76.0	72.8	+3.2	Dec	46.5	44.6	+1.9

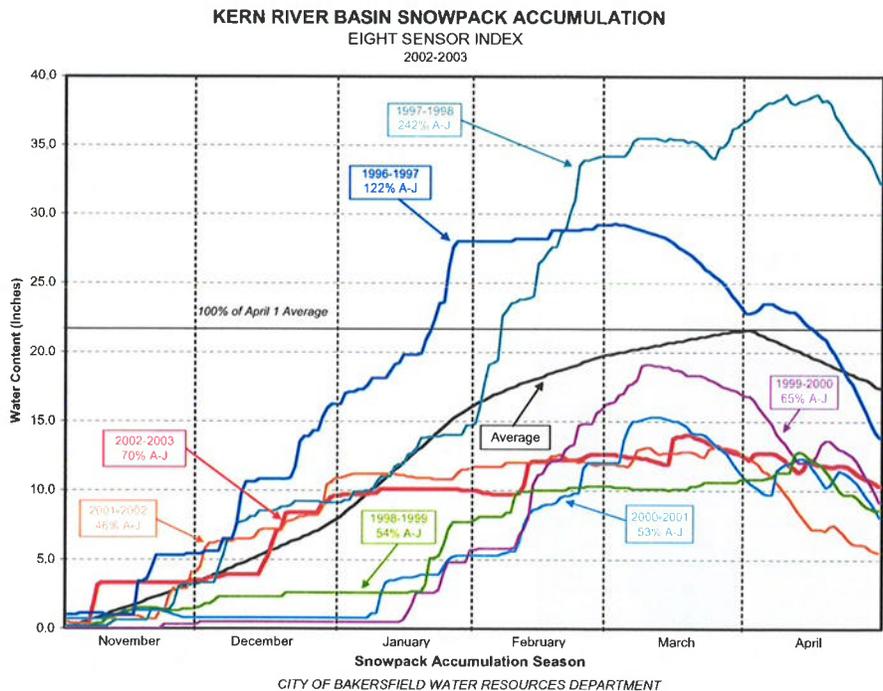
The mean annual temperature as recorded at Isabella Dam for 2003 was 63.2° Fahrenheit, 3.1° above the long-term (1956 to 2003) normal. Temperature extremes reached 104°F over the period of July 15-17, 2003 with the low of 27°F occurring on December 27, 2003. New maximum monthly mean air temperatures were established for January, September and October of 2003.

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, 2003, with April 1<sup>st</sup> 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, 2003	19.8	15.0	13.7	16.4	17.1	1.1	11.5	0.0
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 the 2003 Water Year got off to a robust beginning with the intense storm period of November 8-9, 2002. The potent early-winter storm dumped over fifteen inches of rain at some basin locations. At Isabella Dam and Reservoir, 5.76" of precipitation was recorded during November 2002, besting the previous record maximum by over two inches. Mid-December storms further increased the southern Sierra Nevada snowpack, resulting in slightly above normal snowpack levels by the first of January, 2003. During January and early February of 2003, lack of storm activity coupled with record warmth crippled the snowpack accumulation process, practically assuring a fifth consecutive year of below normal Kern River runoff. Following below normal March precipitation, the Kern River watershed welcomed April and May storm activity which boosted the final 2003 snow melt yield by over 40,000 acre-feet.



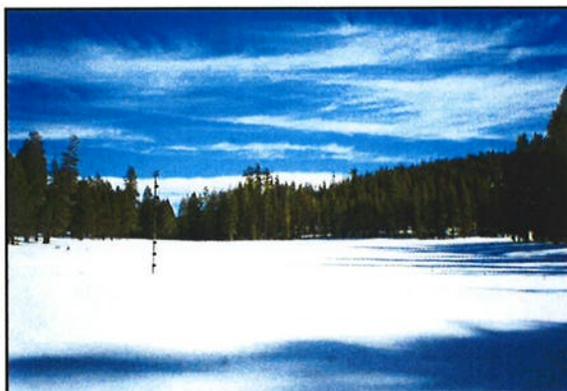
Forecast



*Surveyor measuring snow water content at Casa Vieja Meadow, Elev. 8,300 ft., Kern River Basin*

The State of California, Department of Water Resources, issued the following forecasts of Kern River runoff into Isabella Reservoir for the 2003 April-July snow melt period:

February 1, 2003:	72% of average (340,000 acre-feet)
March 1, 2003:	66% of average (310,000 acre-feet)
April 1, 2003:	60% of average (280,000 acre-feet)
May 1, 2003:	66% of average (310,000 acre-feet)



*Beach Meadow Snow Course Elev. 7,650 ft., Kern River Basin*

Runoff

Actual 2003 April-July Kern River inflow to Lake Isabella was 322,002 acre-feet (69% of average). Peak snow melt inflow to Isabella Reservoir occurred on June 3, 2003 with 3,928 cfs. Calendar year runoff at First Point of Measurement equaled 519,724 acre-feet, 71% of the long-term average (728,703 acre-feet) and 96% of the historical median (541,465 acre-feet).

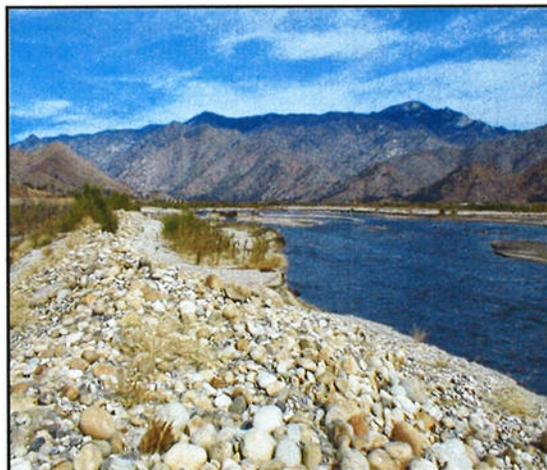
Storage

Beginning its 50<sup>th</sup> year of operation, Isabella Reservoir held 138,222 acre-feet of storage as of January 1, 2003. The lake had risen dramatically from the early stages of the 2003 Water Year which saw storage dip to a low point of 82,043 acre-feet on November 6, 2002. As of that date, the Corps of Engineers had only recently completed construction of the Borel Intake Channel (pictured at left) to allow the Kern River North Fork to flow into the exposed portion of the Borel Canal upstream from the Auxiliary Dam.



*Borel Intake Channel just prior to November 8-9, 2002 Rainflood*

The remains of the Borel Intake Channel is captured in Corps photo at right, shortly after the



*Borel Intake Channel just after the November 8-9, 2002 Rainflood*

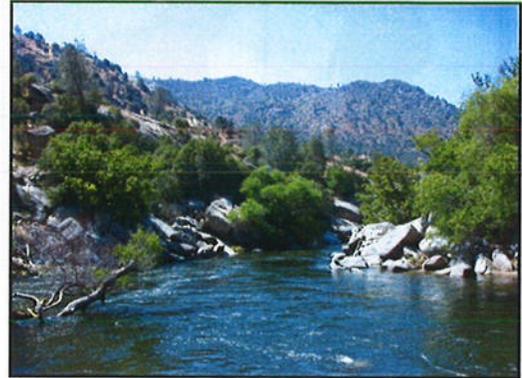
rainflood of November 8-9, 2002 (26,500 cfs peak flow of Kern River North Fork) had destroyed much of the construction work and completely inundated the four-mile section of the Borel Canal situated within Isabella Reservoir.

Peak Isabella Reservoir storage for the year fell on June 19, 2003 at 312,710 acre-feet. Isabella Reservoir ended the year with 148,505 acre-feet of storage, constituting 26% of the lake capacity and 96% of the average December 31<sup>st</sup> carryover storage figure of 155,383 acre-feet.

Operations

Kern River *regulated* flow as computed at First Point of Measurement during the 2003 Calendar Year totaled 468,789 acre-feet, 66% of the 1954-2003 average regulated flow of

709,038 acre-feet. Peak regulated flow during 2003 occurred on July 23<sup>rd</sup>, with a mean daily discharge of 1,481 cubic feet per second. Between June 6<sup>th</sup> and August 23<sup>rd</sup> of 2003, the Kern River Channel below the Calloway



*Kern River Below Isabella Dam*



*Borel Powerhouse, placed into operation in 1904*

River Weir was continuously operated for Kern River Parkway recreation and recharge purposes and for the conveyance of

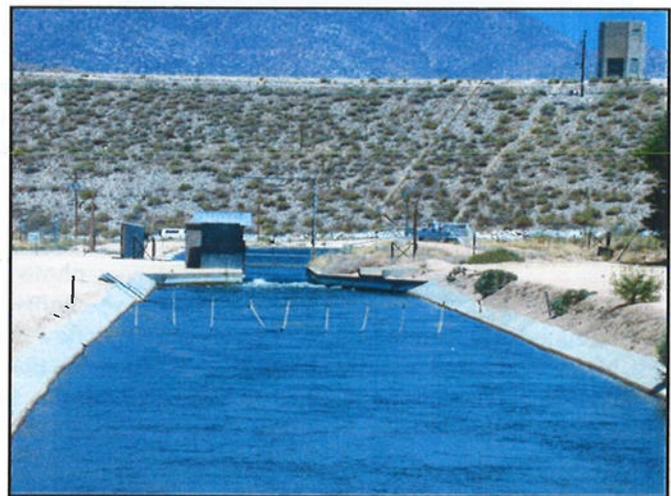
irrigation water through the head of the River Canal for delivery to the Kern Delta Water District's Buena Vista Canal and to Buena Vista Water Storage District at Alternate Second Point. Maximum daily discharge of the Calloway River Weir during the 2003 season occurred on August 15<sup>th</sup> with 345 cubic feet per second.

Total water yield of the Kern River drainage basin and its surface storage reservoir in acre-feet during 2003 is summarized as follows:

+	Kern River Computed Natural Flow . . . . .	519,724
-	Isabella Reservoir Storage . . . . .	10,277
-	Isabella Reservoir Evaporation . . . . .	40,658
-	Kern River Diversion Above First Point . . . . .	8,383
=	Kern River Flow at First Point . . . . .	460,406

Delivery of ***Kern River*** water to canal and conveyance facilities located below First Point of Measurement during 2003 was as follows:

<u>Delivery Point</u>	<u>Flow in Acre-Feet</u>
Beardsley Canal	176,098
Calloway Canal	10,688
Kern Island Canal	148,807
Eastside Canal	14,079
Stine Canal	23,832
Truxtun Lakes	476
Arvin-Edison Turnout	54
Buena Vista Canal	25,875
Rio Vista Lake	113
Rosedale Channel	4,594
Berrenda Mesa Pipeline	16
Pioneer Property	0
2800 Acre Recharge Facility	0
Second Point of Measurement	9,375
Seepage Loss (River & Carrier)	46,399



*Borel Canal just downstream of Isabella Auxiliary Dam*

Year: 2003

Kern River at First Point of Measurement "Computed Natural"

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	482	514	532	1,136	806	3,534	883	857	328	182	184	224
2	495	537	515	1,101	826	3,620	859	724	358	174	179	213
3	500	529	498	1,073	949	3,887	811	594	390	166	174	202
4	534	506	493	1,014	1,113	3,515	766	518	417	178	188	195
5	592	481	501	960	1,190	3,413	721	488	374	172	205	204
6	627	470	509	904	1,184	3,178	725	431	314	167	214	215
7	634	437	494	886	1,105	2,945	726	388	250	155	225	262
8	611	424	485	874	1,017	2,679	732	365	230	154	252	281
9	617	436	473	893	975	2,440	695	331	227	159	274	270
10	622	464	467	922	963	2,197	674	301	247	169	278	244
11	614	479	480	980	1,003	2,062	621	282	257	173	257	242
12	595	777	504	1,008	1,036	1,988	563	302	259	179	242	258
13	559	848	529	1,057	1,095	1,910	533	319	234	177	225	255
14	547	852	544	1,103	1,170	1,812	533	341	212	176	207	267
15	530	766	1,093	1,126	1,235	1,783	557	326	198	183	208	284
16	518	649	1,741	1,080	1,269	1,801	547	326	203	197	222	274
17	501	625	1,262	1,017	1,366	1,775	507	320	220	205	231	264
18	505	608	1,065	969	1,500	1,712	509	337	225	197	220	247
19	513	566	1,006	937	1,712	1,582	528	372	232	191	199	254
20	514	553	951	896	1,852	1,499	569	375	218	186	198	259
21	524	548	909	855	2,026	1,393	556	407	218	184	211	271
22	517	547	905	840	2,264	1,257	521	414	202	181	218	280
23	515	546	904	832	2,490	1,146	516	399	197	189	215	272
24	509	536	921	826	2,672	1,023	508	371	193	181	209	301
25	521	539	903	829	2,833	990	494	376	194	173	214	841
26	522	540	937	842	3,060	925	453	391	193	169	224	576
27	527	535	979	845	3,404	913	458	386	186	167	220	378
28	532	533	1,022	838	3,631	901	478	340	183	167	218	322
29	533	-	1,013	833	3,785	906	497	306	185	164	211	350
30	521	-	998	831	3,877	899	484	283	194	168	213	378
31	509	-	1,033	-	3,801	-	668	270	-	161	-	344
<b>TOTAL</b>	<b>16,840</b>	<b>15,845</b>	<b>24,666</b>	<b>28,307</b>	<b>57,209</b>	<b>59,685</b>	<b>18,692</b>	<b>12,240</b>	<b>7,338</b>	<b>5,444</b>	<b>6,535</b>	<b>9,227</b>
<b>MAXIMUM DAY</b>	<b>634</b>	<b>852</b>	<b>1,741</b>	<b>1,136</b>	<b>3,877</b>	<b>3,887</b>	<b>883</b>	<b>857</b>	<b>417</b>	<b>205</b>	<b>278</b>	<b>841</b>
<b>MINIMUM DAY</b>	<b>482</b>	<b>424</b>	<b>467</b>	<b>826</b>	<b>806</b>	<b>899</b>	<b>453</b>	<b>270</b>	<b>183</b>	<b>154</b>	<b>174</b>	<b>195</b>
<b>MEAN</b>	<b>543</b>	<b>566</b>	<b>796</b>	<b>944</b>	<b>1,845</b>	<b>1,990</b>	<b>603</b>	<b>395</b>	<b>245</b>	<b>176</b>	<b>218</b>	<b>298</b>
<b>TOTAL AC. FT.</b>	<b>33,402</b>	<b>31,428</b>	<b>48,924</b>	<b>56,146</b>	<b>113,472</b>	<b>118,383</b>	<b>37,075</b>	<b>24,278</b>	<b>14,555</b>	<b>10,798</b>	<b>12,962</b>	<b>18,301</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>262,028</b>	<b>MAX.,</b>	<b>3,887</b>	<b>MIN.,</b>	<b>154</b>	<b>MEAN,</b>	<b>718</b>	<b>TOTAL AC.FT.,</b>	<b>519,724</b>		

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

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	373	440	375	898	604	3,608	890	878	294	190	162	182
2	380	455	390	889	684	3,691	827	759	305	186	169	182
3	416	438	377	846	835	3,722	767	562	494	203	183	172
4	447	398	398	809	1,112	3,746	738	453	553	200	180	174
5	458	379	366	750	982	3,464	719	453	426	203	173	178
6	464	359	367	766	942	3,203	718	365	308	194	182	203
7	467	345	374	723	961	2,895	724	339	236	189	182	237
8	497	335	371	721	952	2,636	678	318	227	162	180	260
9	492	338	375	734	894	2,323	623	295	222	148	213	206
10	462	336	369	755	870	2,214	585	274	225	147	222	206
11	458	354	397	782	884	2,164	569	259	216	148	200	223
12	435	415	427	817	896	2,069	542	248	216	149	192	190
13	429	669	463	820	934	1,942	508	250	209	146	220	203
14	415	611	488	914	1,061	1,836	495	245	211	148	204	236
15	408	543	1,234	858	1,149	1,846	481	242	213	150	195	200
16	394	511	1,278	832	1,248	1,868	459	242	222	155	194	190
17	395	509	954	792	1,402	1,770	448	240	211	156	203	202
18	396	467	836	741	1,512	1,705	466	241	220	153	191	200
19	419	439	785	707	1,680	1,647	482	223	215	157	192	201
20	423	432	763	695	1,864	1,531	546	221	227	159	189	212
21	425	421	730	709	2,066	1,376	506	294	206	159	186	219
22	403	409	728	710	2,352	1,286	465	321	217	162	188	206
23	406	400	748	696	2,660	1,206	458	296	191	163	157	201
24	406	398	753	702	2,724	1,085	463	259	214	145	171	247
25	407	427	741	694	2,992	973	421	329	200	164	189	693
26	404	432	740	700	3,113	1,004	414	409	208	164	185	382
27	416	405	797	705	3,359	1,012	390	357	206	176	178	275
28	437	400	770	711	3,735	1,067	396	333	185	152	179	232
29	424	-	736	715	3,875	1,018	448	320	177	137	183	278
30	416	-	735	686	3,854	953	437	320	182	136	185	309
31	419	-	786	-	3,724	-	510	295	-	140	-	292
<b>TOTAL</b>	<b>13,191</b>	<b>12,065</b>	<b>19,651</b>	<b>22,877</b>	<b>55,920</b>	<b>60,860</b>	<b>17,173</b>	<b>10,640</b>	<b>7,436</b>	<b>5,041</b>	<b>5,627</b>	<b>7,391</b>
<b>MAXIMUM DAY</b>	<b>497</b>	<b>669</b>	<b>1,278</b>	<b>914</b>	<b>3,875</b>	<b>3,746</b>	<b>890</b>	<b>878</b>	<b>553</b>	<b>203</b>	<b>222</b>	<b>693</b>
<b>MINIMUM DAY</b>	<b>373</b>	<b>335</b>	<b>366</b>	<b>686</b>	<b>604</b>	<b>953</b>	<b>390</b>	<b>221</b>	<b>177</b>	<b>136</b>	<b>157</b>	<b>172</b>
<b>MEAN</b>	<b>426</b>	<b>431</b>	<b>634</b>	<b>763</b>	<b>1,804</b>	<b>2,029</b>	<b>554</b>	<b>343</b>	<b>248</b>	<b>163</b>	<b>188</b>	<b>238</b>
<b>TOTAL AC. FT.</b>	<b>26,164</b>	<b>23,931</b>	<b>38,977</b>	<b>45,376</b>	<b>110,916</b>	<b>120,714</b>	<b>34,062</b>	<b>21,104</b>	<b>14,749</b>	<b>9,999</b>	<b>11,161</b>	<b>14,660</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>237,872</b>	<b>MAX.,</b>	<b>3,875</b>	<b>MIN.,</b>	<b>136</b>	<b>MEAN,</b>	<b>652</b>	<b>TOTAL AC.FT.,</b>	<b>471,813</b>		

Year: 2003

Kern River at First Point of Measurement "Regulated"

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	418	458	398	489	461	1,141	1,378	1,247	745	511	274	225
2	434	476	388	492	446	1,150	1,439	1,132	740	509	212	307
3	404	489	374	479	398	1,186	1,441	1,077	776	467	212	296
4	376	495	375	483	390	1,239	1,403	1,106	806	419	214	289
5	484	508	388	472	403	1,205	1,262	1,078	798	428	200	280
6	516	510	388	460	465	1,319	1,262	1,045	704	454	203	276
7	521	509	405	466	426	1,163	1,400	1,011	689	469	205	265
8	525	468	419	464	404	1,248	1,422	974	699	490	203	314
9	528	427	416	469	387	1,452	1,370	873	661	654	203	343
10	528	421	413	454	390	1,407	1,335	904	662	658	222	344
11	526	391	402	420	388	1,394	1,318	1,089	646	595	244	296
12	524	428	408	391	395	1,374	1,213	1,275	612	439	242	260
13	517	578	412	383	465	1,287	1,218	1,292	558	457	245	260
14	486	542	427	410	547	1,116	1,318	1,325	546	487	245	291
15	463	264	448	416	617	1,219	1,340	1,384	579	472	248	296
16	435	240	435	397	655	1,323	1,331	1,177	602	440	225	261
17	416	235	419	394	631	1,354	1,375	1,242	611	432	201	246
18	412	260	415	404	673	1,366	1,362	1,340	580	400	203	245
19	424	329	416	392	787	1,450	1,259	1,277	570	384	205	252
20	446	300	405	393	816	1,419	1,302	1,334	539	404	221	252
21	457	266	381	396	865	1,419	1,420	1,445	528	464	220	250
22	478	285	367	401	888	1,463	1,445	1,363	598	475	204	259
23	453	267	368	407	946	1,474	1,481	1,130	615	507	204	251
24	441	268	385	400	914	1,410	1,465	1,086	631	482	206	262
25	436	211	413	401	922	1,350	1,392	1,065	611	468	197	284
26	438	254	431	401	954	1,290	1,280	1,021	586	494	201	281
27	457	326	432	400	1,005	1,276	1,301	987	544	469	197	308
28	482	365	411	389	1,080	1,275	1,404	906	511	505	199	360
29	474	-	410	449	1,148	1,294	1,373	800	504	505	200	362
30	468	-	389	508	1,198	1,338	1,381	739	500	468	191	358
31	444	-	410	-	1,087	-	1,325	709	-	398	-	363
TOTAL	14,411	10,570	12,548	12,880	21,151	39,401	42,015	34,433	18,751	14,804	6,446	8,936
MAXIMUM INSTANT.	541	641	632	538	1,301	1,542	1,528	1,499	984	694	450	372
MINIMUM INSTANT.	102	187	77	372	261	876	1,079	669	478	341	89	187
MEAN	465	378	405	429	682	1,313	1,355	1,111	625	478	215	288
TOTAL AC. FT.	28,584	20,966	24,889	25,548	41,952	78,152	83,336	68,297	37,192	29,364	12,785	17,724
WHOLE YEAR:-	TOTAL,	236,346	MAX.,	1,542	MIN.,	77	MEAN,	648	TOTAL AC.FT.,	468,789		

Year: 2003

Kern River Conduit at Alternate Second Point (Total Flow)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	83	111	0	0	0	0
2	0	0	0	0	8	0	81	124	0	0	0	0
3	0	0	0	0	32	0	111	129	0	0	0	0
4	0	0	0	0	24	0	158	140	0	0	0	0
5	0	0	0	0	0	0	155	129	0	0	0	0
6	0	0	0	0	0	0	91	108	0	0	0	0
7	0	0	0	0	0	12	89	104	0	0	0	0
8	0	0	0	0	0	47	95	108	0	0	0	0
9	0	0	0	0	11	56	91	105	0	0	0	0
10	0	0	0	0	17	61	87	109	0	0	0	0
11	0	0	0	0	17	72	84	108	0	0	0	0
12	0	0	0	0	4	73	86	106	0	0	0	0
13	0	0	0	0	0	70	88	105	0	0	0	0
14	0	0	0	25	0	68	75	152	0	0	0	0
15	0	0	0	23	0	70	85	145	0	0	0	0
16	0	0	0	26	0	78	88	99	0	0	0	0
17	0	0	0	20	0	85	109	100	0	0	0	0
18	0	0	0	24	0	170	120	101	0	0	0	0
19	0	0	0	32	0	192	131	96	0	0	0	0
20	0	0	0	31	0	197	102	94	0	0	0	0
21	0	0	0	29	0	199	131	121	0	0	0	0
22	0	0	0	31	0	209	129	106	0	0	0	0
23	0	0	0	29	0	234	138	0	0	0	0	0
24	0	0	0	29	0	241	137	0	0	0	0	0
25	0	0	0	27	0	213	126	0	0	0	0	0
26	0	0	0	30	0	132	135	0	0	0	0	0
27	0	0	0	17	0	81	139	0	0	0	0	0
28	0	0	0	7	0	84	126	0	0	0	0	0
29	0	-	0	0	4	82	97	0	0	0	0	0
30	0	-	0	0	10	85	93	0	0	0	0	0
31	0	-	0	-	0	-	105	0	-	-	-	0
TOTAL	0	0	0	380	127	2,811	3,365	2,500	0	0	0	0
MAXIMUM DAY	0	0	0	32	32	241	158	152	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	75	0	0	0	0	0
MEAN	0	0	0	13	4	94	109	81	0	0	0	0
TOTAL AC. FT.	0	0	0	754	252	5,576	6,674	4,959	0	0	0	0
WHOLE YEAR:-	TOTAL,	9,183	MAX.,	241	MIN.,	0	MEAN,	25	TOTAL AC.FT.,	18,215		

Year: 2003

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

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	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	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	0	0

Year: 2003

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

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	251	0	0	0	0	0	0	0
2	0	0	0	0	296	0	0	0	0	0	0	0
3	0	0	0	0	352	0	0	0	0	0	0	0
4	0	0	0	0	355	0	0	0	0	0	0	0
5	0	0	0	0	351	0	0	0	0	0	0	0
6	0	0	0	0	349	0	0	0	0	0	0	0
7	0	0	0	0	344	156	0	0	0	0	0	0
8	0	0	0	0	356	219	0	0	0	0	0	0
9	0	0	0	0	347	64	0	0	0	0	0	0
10	0	0	0	0	346	0	0	0	0	0	0	0
11	0	0	0	0	352	0	0	0	0	0	0	0
12	0	0	0	0	345	0	0	0	0	0	0	0
13	0	0	0	0	346	0	0	0	0	0	0	0
14	0	0	0	0	383	0	0	0	0	0	0	0
15	0	0	0	0	400	0	0	0	0	0	0	0
16	0	0	0	0	306	0	0	0	0	0	0	0
17	0	0	0	0	300	0	0	0	0	0	0	0
18	0	0	0	0	234	0	0	0	0	0	0	0
19	0	0	0	0	201	0	0	0	0	0	0	0
20	0	0	0	0	93	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	168	0	0	0	0	0	0	0	0
30	0	-	0	250	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
TOTAL	0	0	0	418	6,307	439	0	0	0	0	0	0
MAXIMUM DAY	0	0	0	250	400	219	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	14	203	15	0	0	0	0	0	0
TOTAL AC. FT.	0	0	0	828	12,510	672	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	7,164	MAX.,	400	MIN.,	0	MEAN,	20	TOTAL AC.FT.,	14,210		

Year: 2003

**CITY OF BAKERSFIELD  
SUMMARY OF KERN RIVER ENTITLEMENTS**

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Buena Vista W.S.D. Entitlement	0	0	9,695	12,182	32,279	33,925	5,931	1,896	0	0	0	0	95,908
Hacienda W.D. Entitlement	0	0	0	0	0	0	0						0
<b>K.C.L. Entitlement @ 2nd Point</b>	<b>0</b>	<b>0</b>	<b>282</b>	<b>581</b>	<b>1,541</b>	<b>1,619</b>	<b>284</b>	<b>85</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,392</b>
Kern Island (1-st)	18,446	16,661	18,075	17,851	18,446	17,851	18,446	18,198	13,275	10,122	12,307	15,618	195,296
Eastside													
Kern River Conduit			17,291	17,365	21,846	21,794	11,216	3,270					92,782
Castro	308	278	28	60	117	115	6	2	46			61	1,021
KCC & W Co.	861	779	60	166	325	353	12	4	121			165	2,846
South Fork	615	555	44	115	234	244	12	2	83			109	2,013
Buena Vista (1-st)	4,687	4,225	337	887	1,779	1,845	75	22	363			520	14,740
James (1-st)	6,419	5,300	509	1,337	2,672	2,777	119	34	12			462	19,641
Anderson (1-st)	389	520	87	226	442	468	18	6				77	2,233
Stine	1,001	1,646	641	1,668	3,322	3,463	145	41				341	12,268
Meacham		230	131	337	668	694	28	8				58	2,154
Farmers		623	641	1,559	3,297	3,463	107	34				214	9,938
Plunket			153	300	877	897							2,227
Joyce			119	262	873	855							2,109
Johnson			95	220	833	847							1,995
Pioneer			60	371	2,461	2,650							5,542
Beardsley (1-st)				4	1,020	1,192							2,216
Beardsley (1-st)													
Lerdo (NKWSD)													
Anderson (2-nd)				159		196							355
James & Dixon				621		791							1,412
Wilson				91		111							202
KCC & W Co.				61		85							146
McCaffrey				377		498							875
McCord: Lerdo 30%				422		575							997
Beardsley 70%				984		1,338							2,322
Calloway: Central 20%				1,983		2,394							4,377
NKWSD 80%				7,930		9,576							17,506
Railroad: KCC & W Co. 20%				376		361							737
NKWSD 80%				1,493		1,442							2,935
Buena Vista (2-nd)				799		737							1,536
James (2-nd)				1,458		1,440							2,898
Pioneer (2-nd)				1,214		1,216							2,430
Beardsley (3-rd)				1,490		1,571							3,061
Kern Island (2-nd)				306		345							651
<b>Computed Loss</b>	<b>676</b>	<b>611</b>	<b>676</b>	<b>655</b>	<b>676</b>	<b>655</b>	<b>676</b>	<b>676</b>	<b>655</b>	<b>676</b>	<b>655</b>	<b>676</b>	<b>7,963</b>
<b>Total 1st Point Group Entitlement</b>	<b>33,402</b>	<b>31,428</b>	<b>39,229</b>	<b>43,964</b>	<b>81,193</b>	<b>84,458</b>	<b>31,144</b>	<b>22,382</b>	<b>14,555</b>	<b>10,798</b>	<b>12,962</b>	<b>18,301</b>	<b>423,816</b>

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

Quantities in acre-feet

Year: 2003

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>KERN RIVER FLOW AT FIRST POINT</b>	<b>28,514</b>	<b>20,896</b>	<b>24,730</b>	<b>25,351</b>	<b>41,468</b>	<b>77,695</b>	<b>82,286</b>	<b>66,716</b>	<b>35,962</b>	<b>28,572</b>	<b>11,597</b>	<b>16,619</b>	<b>460,406</b>
BEARDSLEY CANAL	2,378	8,321	5,748	7,747	16,913	32,219	35,482	26,146	16,789	15,422	4,885	4,048	176,098
CALLOWAY CANAL	1,113	1,207	1,765	2,174	2,961	1,468	0	0	0	0	0	0	10,688
KERN ISLAND CANAL	9,826	5,518	10,832	9,923	12,143	21,763	23,379	20,083	13,380	8,279	5,329	8,352	148,807
EASTSIDE CANAL	0	220	1,313	1,396	1,793	2,521	2,660	1,882	1,067	756	288	183	14,079
STINE CANAL	337	0	0	0	1,384	6,226	8,338	5,990	403	1,154	0	0	23,832
TRUXTUN LAKES	63	89	161	20	143	0	0	0	0	0	0	0	476
ARVIN-EDISON TURNOUT	0	0	0	0	0	0	0	0	54	0	0	0	54
BUENA VISTA CANAL	1,509	1,569	2,818	1,069	2,769	4,524	4,340	3,420	2,753	660	206	238	25,875
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
RIO VISTA LAKE	0	0	0	0	0	0	0	0	0	0	0	113	113
ROSEDALE CHANNEL	4,594	0	0	0	0	0	0	0	0	0	0	0	4,594
PIONEER CANAL	0	0	0	0	0	0	0	0	0	0	0	0	0
BERRENDA MESA PIPELINE	0	0	0	0	0	0	0	16	0	0	0	0	16
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	516	397	712	740	595	212	147	365	857	506	0	0	5,047
RIVER LOSS & SPREADING	8,178	3,575	1,381	1,528	2,515	4,999	5,411	6,737	659	1,795	889	3,685	41,352
<b>FIRST POINT CANALS TOTAL FLOW</b>	<b>28,514</b>	<b>20,896</b>	<b>24,730</b>	<b>24,597</b>	<b>41,216</b>	<b>73,932</b>	<b>79,757</b>	<b>64,639</b>	<b>35,962</b>	<b>28,572</b>	<b>11,597</b>	<b>16,619</b>	<b>451,031</b>
<b>TOTAL FLOW AT SECOND POINT</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>754</b>	<b>252</b>	<b>3,763</b>	<b>2,529</b>	<b>2,077</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,375</b>
BUENA VISTA WSD	0	0	0	754	252	3,337	1,988	1,525	0	0	0	0	7,856
KERN WATER BANK	0	0	0	0	0	0	0	0	0	0	0	0	0
KERN DELTA WD	0	0	0	0	0	426	541	552	0	0	0	0	1,519

2003 Summary of Kern River Water  
Diversions by Entity

(Acre-Feet)

Area of Use

Diverted

Above First Point

California Water Service Co.	5,879
Kern Valley Golf Course	183
La Hacienda, Inc.	680
Lake Ming	790
Olcese WD	775
City of Bakersfield	76
Sub-total	8,383

Below First Point

Arvin-Edison WSD	0
Buena Vista WSD	7,856
Cawelo WD	59,329
City of Bakersfield, Irrigation and Spreading	52,417
Improvement District #4	11,842
Kern County Water Agency	0
Kern Delta WD	212,850
North Kern WSD	107,886
Rosedale Ranch Improvement District	488
Rosedale-Rio Bravo WSD	7,576
Kern-Tulare WD	0
Rag Gulch WD	0
South Fork	162
Sub-total	460,406
Grand Total	468,789

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

Year: 2003

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	6,660	6,573	7,986	11,376	11,228	4,282	2,017	2,500	2,500	2,500	2,500	62,622
Buena Vista	1,500	3,900	4,185	4,855	5,157	4,453	2,059	1,551	1,035	1,500	1,500	1,500	33,195
Stine	1,500	3,067	3,666	4,988	6,845	6,155	1,050	103	52	50	262	555	28,293
Farmers	1,500	1,694	2,289	3,550	5,583	5,429	1,811	935	611	165	28	212	23,807
<b>KERN DELTA WD TOTAL</b>	<b>7,000</b>	<b>15,321</b>	<b>16,713</b>	<b>21,379</b>	<b>28,961</b>	<b>27,265</b>	<b>9,202</b>	<b>4,606</b>	<b>4,198</b>	<b>4,215</b>	<b>4,290</b>	<b>4,767</b>	<b>147,917</b>
City of Bakersfield	16,019	15,990	25,613	32,919	44,893	51,748	40,644	23,228	18,188	18,166	19,924	19,036	326,368
Kern River Canal & Irr. Co.	4,548	3,733	2,852	1,858	3,292	5,026	3,614	2,751	1,881	1,488	1,212	994	33,249
South Fork	600	794	812	868	1,039	1,265	1,259	1,235	1,775	2,356	600	600	13,203
Improvement District No. 4	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>CITY OF BAKERSFIELD TOTAL</b>	<b>21,167</b>	<b>20,517</b>	<b>29,277</b>	<b>35,645</b>	<b>49,224</b>	<b>58,039</b>	<b>45,517</b>	<b>27,214</b>	<b>21,844</b>	<b>22,010</b>	<b>21,736</b>	<b>20,630</b>	<b>372,820</b>
<b>NORTH KERN WSD</b>	<b>50,674</b>	<b>53,468</b>	<b>57,352</b>	<b>64,396</b>	<b>80,832</b>	<b>89,696</b>	<b>72,448</b>	<b>60,694</b>	<b>53,599</b>	<b>44,170</b>	<b>46,283</b>	<b>48,000</b>	<b>721,612</b>
<b>TOTAL 1ST POINT STORAGE</b>	<b>78,841</b>	<b>89,306</b>	<b>103,342</b>	<b>121,420</b>	<b>159,017</b>	<b>175,000</b>	<b>127,167</b>	<b>92,514</b>	<b>79,641</b>	<b>70,395</b>	<b>72,309</b>	<b>73,397</b>	<b>1,242,349</b>

# ***KERN DELTA WATER DISTRICT***



*Kern Island Canal at Central Park*

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

Year: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	24,134	23,155	19,694	21,965	27,949	27,704	18,773	18,295	13,638	10,122	12,307	16,693	294,429
Release	(13,319)	(7,396)	(4,030)	(4,967)	(2,433)	0	0	0	(1,695)	(2,319)	(7,626)	(8,265)	(52,050)
<b>Entitlement + or - Releases</b>	<b>10,815</b>	<b>15,759</b>	<b>15,664</b>	<b>16,998</b>	<b>25,516</b>	<b>27,704</b>	<b>18,773</b>	<b>18,295</b>	<b>11,943</b>	<b>7,803</b>	<b>4,681</b>	<b>8,428</b>	<b>182,379</b>
Into Isabella Storage	66	8,393	1,597	4,901	8,343	3,262	20	1,111	963	851	262	834	30,603
From Isabella Storage	0	0	0	0	262	4,257	17,472	5,499	1,218	721	137	317	29,883
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.	0	0	0	0	0	0	0	0	0	0	0	0	0
River and Carrier Canal Loss	457	444	46	30	2	0	0	0	857	325	188	309	2,658
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	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Diverted at Heads of Canals</b>	<b>10,292</b>	<b>6,922</b>	<b>14,021</b>	<b>12,067</b>	<b>17,433</b>	<b>28,699</b>	<b>36,225</b>	<b>22,683</b>	<b>11,341</b>	<b>7,348</b>	<b>4,368</b>	<b>7,602</b>	<b>179,001</b>
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
<b>Total Utility Supply</b>	<b>10,292</b>	<b>6,922</b>	<b>14,021</b>	<b>12,067</b>	<b>17,433</b>	<b>28,699</b>	<b>36,225</b>	<b>22,683</b>	<b>11,341</b>	<b>7,348</b>	<b>4,368</b>	<b>7,602</b>	<b>179,001</b>
Utility Deliveries	5,151	4,306	8,878	7,136	10,960	18,955	26,086	16,289	6,447	3,432	2,148	5,909	115,597
Contract Deliveries	272	205	424	669	731	462	565	468	309	305	169	0	4,579
<b>Total Irrigation Deliveries</b>	<b>5,423</b>	<b>4,511</b>	<b>9,302</b>	<b>7,805</b>	<b>11,591</b>	<b>19,417</b>	<b>26,651</b>	<b>16,757</b>	<b>6,756</b>	<b>3,737</b>	<b>2,317</b>	<b>5,909</b>	<b>120,176</b>
Canal Conveyance Losses	4,869	2,411	4,719	4,262	5,842	9,282	9,574	5,926	4,585	3,611	2,051	1,693	58,825
Delivery Percentage	53%	65%	66%	65%	66%	68%	74%	74%	60%	51%	53%	78%	67%
Reservoir Evaporation Loss	66	72	205	235	499	701	611	208	153	113	50	40	2,953
<b>End of Month Reservoir Storage</b>	<b>7,000</b>	<b>15,321</b>	<b>16,713</b>	<b>21,379</b>	<b>28,961</b>	<b>27,265</b>	<b>9,202</b>	<b>4,606</b>	<b>4,198</b>	<b>4,215</b>	<b>4,290</b>	<b>4,767</b>	

Year: 2003

Total Flow via the Kern Island Canal Headgate

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	159	155	252	142	257	371	332	226	151	125	89
2	0	165	156	260	140	279	451	347	235	141	108	232
3	51	181	173	261	137	275	442	268	316	109	88	248
4	49	180	180	222	126	299	383	238	334	102	86	245
5	59	149	198	210	148	352	280	243	351	98	82	232
6	89	146	198	190	172	387	265	276	307	127	76	235
7	104	121	207	185	146	395	385	248	256	138	67	231
8	93	115	226	155	163	382	434	219	268	139	58	239
9	110	126	235	169	131	406	403	208	247	143	65	254
10	139	121	210	174	106	395	350	236	249	137	77	254
11	113	80	172	150	95	364	357	330	225	122	89	233
12	123	56	178	120	165	360	291	380	208	119	118	231
13	214	61	193	130	173	346	279	355	179	117	126	231
14	258	69	164	153	198	338	297	324	159	148	123	252
15	221	55	149	129	199	411	322	330	189	143	124	258
16	237	47	133	118	195	451	356	304	194	145	120	230
17	270	47	134	116	186	449	412	329	193	150	110	136
18	243	62	137	110	175	449	426	431	197	122	126	74
19	259	78	137	60	212	445	393	419	224	108	122	78
20	259	68	168	55	228	442	383	405	211	124	130	75
21	209	68	134	77	255	439	405	442	198	116	117	63
22	216	66	100	162	268	447	432	449	230	111	80	56
23	180	56	104	184	302	418	447	445	241	141	75	35
24	166	28	152	188	287	333	438	423	227	141	57	0
25	164	48	191	198	251	294	418	393	209	128	54	0
26	167	95	190	198	209	292	413	369	209	135	55	0
27	188	169	173	197	232	305	401	363	188	145	56	0
28	195	166	191	196	288	310	394	314	173	194	57	0
29	197	-	237	200	286	316	371	271	162	184	60	0
30	196	-	240	184	259	336	406	250	141	153	56	0
31	185	-	246	-	248	-	382	184	-	143	-	0
<b>TOTAL</b>	<b>4,954</b>	<b>2,782</b>	<b>5,461</b>	<b>5,003</b>	<b>6,122</b>	<b>10,972</b>	<b>11,787</b>	<b>10,125</b>	<b>6,746</b>	<b>4,174</b>	<b>2,687</b>	<b>4,211</b>
<b>MAXIMUM DAY</b>	<b>270</b>	<b>181</b>	<b>246</b>	<b>261</b>	<b>302</b>	<b>451</b>	<b>451</b>	<b>449</b>	<b>351</b>	<b>194</b>	<b>130</b>	<b>258</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>28</b>	<b>100</b>	<b>55</b>	<b>95</b>	<b>257</b>	<b>265</b>	<b>184</b>	<b>141</b>	<b>98</b>	<b>54</b>	<b>0</b>
<b>MEAN</b>	<b>160</b>	<b>99</b>	<b>176</b>	<b>167</b>	<b>197</b>	<b>366</b>	<b>380</b>	<b>327</b>	<b>225</b>	<b>135</b>	<b>90</b>	<b>136</b>
<b>TOTAL AC. FT.</b>	<b>9,826</b>	<b>5,518</b>	<b>10,832</b>	<b>9,923</b>	<b>12,143</b>	<b>21,763</b>	<b>23,379</b>	<b>20,063</b>	<b>13,380</b>	<b>8,279</b>	<b>5,329</b>	<b>8,352</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>75,024</b>	<b>MAX.,</b>	<b>451</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>206</b>	<b>TOTAL AC.FT.,</b>	<b>148,807</b>		

# KERN DELTA WATER DISTRICT KERN ISLAND CANAL SERVICE AREA

Year: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	18,446	16,661	18,075	17,651	18,752	18,196	18,446	18,198	13,275	10,122	12,307	15,618	195,947
Release	10,035	6,111	6,894	5,244	1,908	0	0	0	3,858	3,628	8,222	8,108	54,008
<b>Entitlement + or - Releases</b>	<b>8,411</b>	<b>10,550</b>	<b>11,181</b>	<b>12,607</b>	<b>16,844</b>	<b>18,196</b>	<b>18,446</b>	<b>18,198</b>	<b>9,417</b>	<b>6,494</b>	<b>4,085</b>	<b>7,510</b>	<b>141,939</b>
Into Storage	24	4,190	0	1,500	3,642	2,213	20	1,109	564	65	30	325	13,682
From Storage	0	0	0	0	56	2,098	6,695	3,276	0	0	0	301	12,426
From City of Bakersfield	0	0	0	0	0	0	0	0	0	0	0	0	0
River and Carrier Canal Loss	266	226	0	2	0	0	0	0	52	0	0	61	607
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer in Storage	0	0	0	0	0	0	0	0	0	0	0	0	0
Eastside Canal Entitlement	0	0	684	1,301	1,589	2,174	2,243	944	0	0	0	0	8,935
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
<b>Diverted at Head of Canal</b>	<b>8,121</b>	<b>6,134</b>	<b>10,497</b>	<b>9,804</b>	<b>11,669</b>	<b>15,907</b>	<b>22,878</b>	<b>19,421</b>	<b>8,801</b>	<b>6,429</b>	<b>4,055</b>	<b>7,425</b>	<b>131,141</b>
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
<b>Total Utility Supply</b>	<b>8,121</b>	<b>6,134</b>	<b>10,497</b>	<b>9,804</b>	<b>11,669</b>	<b>15,907</b>	<b>22,878</b>	<b>19,421</b>	<b>8,801</b>	<b>6,429</b>	<b>4,055</b>	<b>7,425</b>	<b>131,141</b>
Utility Deliveries	4,448	3,742	6,770	5,952	7,369	11,116	17,749	14,895	5,010	3,206	2,096	5,909	88,262
Contract Deliveries	272	205	413	627	681	380	543	463	309	305	169	0	4,367
<b>Total Irrigation Deliveries</b>	<b>4,720</b>	<b>3,947</b>	<b>7,183</b>	<b>6,579</b>	<b>8,050</b>	<b>11,496</b>	<b>18,292</b>	<b>15,358</b>	<b>5,319</b>	<b>3,511</b>	<b>2,265</b>	<b>5,909</b>	<b>92,629</b>
Canal Conveyance Losses	3,401	2,187	3,314	3,225	3,619	4,411	4,586	4,063	3,482	2,918	1,790	1,516	38,512
Delivery Percentage	58%	64%	68%	67%	69%	72%	80%	79%	60%	55%	56%	80%	71%
<b>Into Reservoir Storage</b>	<b>24</b>	<b>4,190</b>	<b>0</b>	<b>1,500</b>	<b>3,642</b>	<b>2,213</b>	<b>20</b>	<b>1,109</b>	<b>564</b>	<b>65</b>	<b>30</b>	<b>325</b>	<b>13,682</b>
Reservoir Evaporation Loss	24	30	87	87	196	263	271	98	81	65	30	24	1,256
From Reservoir Storage	0	0	0	0	56	2,098	6,695	3,276	0	0	0	301	12,426
<b>End of Month Reservoir Storage</b>	<b>2,500</b>	<b>6,660</b>	<b>6,573</b>	<b>7,986</b>	<b>11,376</b>	<b>11,228</b>	<b>4,282</b>	<b>2,017</b>	<b>2,500</b>	<b>2,500</b>	<b>2,500</b>	<b>2,500</b>	<b>2,500</b>
State Exchange Diverted	226	165	313	194	434	1,904	1,440	1,248	1,145	230	371	481	8,151
State Exchange Delivered (Irrigation)	226	165	313	194	434	1,904	1,440	1,248	1,145	153	111	324	7,657
State Exchange Delivered (Spreading)	0	0	0	0	0	0	0	0	0	77	260	157	494
MWD Water Diverted	0	0	0	0	0	4,413	77	87	325	539	0	0	5,441
MWD Water Delivered (Irrigation)	0	0	0	0	0	4,387	77	87	0	209	0	0	4,760
MWD Water Delivered (Loss/Spreading)	0	0	0	0	0	26	0	0	325	330	0	0	681
ID4 Exchange Water Diverted	1,154	0	0	0	0	0	0	0	0	0	0	0	1,154
ID4 Exchange Water Delivered	1,154	0	0	0	0	0	0	0	0	0	0	0	1,154

**KERN ISLAND CANAL  
ENTITLEMENT AND DIVERSION OF CONTRACT WATER**

**BALFOUR - GUTHRIE CONTRACT**

Year: 2003

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

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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**KERN ISLAND CANAL ENTITLEMENT:**

Maximum	18,446	16,661	18,424	17,851	18,446	17,851	18,446	18,446	17,851	18,446	17,851	18,446	217,165
Actual	18,446	16,661	18,075	17,851	18,446	17,851	18,446	18,198	13,275	10,122	12,307	15,618	195,296
Maximum Percentage	100.00%	100.00%	98.11%	100.00%	100.00%	100.00%	100.00%	98.66%	74.37%	54.87%	68.94%	84.67%	

**CONTRACT ENTITLEMENT:**

Maximum	269	242	269	260	269	260	269	269	260	269	260	--	2,896
Actual	269	242	264	260	269	260	269	265	193	148	179	--	2,618
Sum to Date	269	511	775	1,035	1,304	1,564	1,833	2,098	2,291	2,439	2,618	2,618	

**CONTRACT DIVERTED:**

For Month	129	149	197	200	314	235	297	192	38	124	0	0	1,875
To Date	129	278	475	675	989	1,224	1,521	1,713	1,751	1,875	1,875	1,875	

**UNUSED ENTITLEMENT:**

For Month	140	93	67	60	(45)	25	(28)	73	155	24	179	0	743
Sum to Date	140	233	300	360	315	340	312	385	540	564	743	743	

**KERN ISLAND CANAL  
ENTITLEMENT AND DIVERSION OF CONTRACT WATER**

**BLOOMFIELD CONTRACT**

**Year: 2003**

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

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>KERN ISLAND CANAL ENTITLEMENT:</b>													
Maximum	18,446	16,661	18,424	17,851	18,446	17,851	18,446	18,446	17,851	18,446	17,851	18,446	217,165
Actual	18,446	16,661	18,075	17,851	18,446	17,851	18,446	18,198	13,275	10,122	12,307	15,618	195,296
Maximum Percentage	100.00%	100.00%	98.11%	100.00%	100.00%	100.00%	100.00%	98.66%	74.37%	54.87%	68.94%	84.67%	
<b>CONTRACT ENTITLEMENT:</b>													
Maximum	336	303	336	325	336	325	336	336	325	336	325	--	3,619
Actual	336	303	330	325	336	325	336	331	242	184	224	--	3,272
Sum to Date	336	639	969	1,294	1,630	1,955	2,291	2,622	2,864	3,048	3,272	3,272	
<b>CONTRACT DIVERTED:</b>													
For Month	143	56	216	427	367	145	246	271	271	181	169	0	2,492
To Date	143	199	415	842	1,209	1,354	1,600	1,871	2,142	2,323	2,492	2,492	
<b>UNUSED ENTITLEMENT:</b>													
For Month	193	247	114	(102)	(31)	180	90	60	(29)	3	55	0	780
Sum to Date	193	440	554	452	421	601	691	751	722	725	780	780	

Year: 2003

Total Flow via the Eastside Canal Headgate

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	15	28	35	36	46	40	21	10	7	2
2	0	0	16	32	12	43	41	26	20	13	1	8
3	0	0	17	26	9	42	36	29	20	10	5	6
4	0	0	25	20	10	40	24	36	24	9	2	6
5	0	0	25	15	22	38	21	41	26	8	0	7
6	0	0	25	18	34	40	30	37	25	10	0	0
7	0	0	25	25	38	40	35	38	20	13	0	0
8	0	0	25	30	24	42	36	33	27	13	10	0
9	0	0	25	31	22	45	37	30	26	12	10	9
10	0	0	23	31	21	47	40	30	26	13	10	5
11	0	0	22	27	20	44	43	40	24	7	11	0
12	0	0	22	14	26	42	43	40	15	9	12	0
13	0	0	22	8	34	38	42	38	12	8	10	1
14	0	0	7	15	34	30	42	38	13	8	5	6
15	0	0	5	18	38	32	45	33	17	11	0	6
16	0	0	23	19	39	34	49	26	16	13	0	6
17	0	0	24	18	32	35	53	33	19	13	0	6
18	0	0	26	17	27	41	50	34	20	8	0	6
19	0	0	31	12	30	45	47	33	20	9	1	5
20	0	4	32	8	31	42	50	33	15	12	7	0
21	0	10	28	16	35	34	46	37	13	13	7	6
22	0	11	23	19	35	37	44	28	7	14	5	5
23	0	15	23	25	36	43	46	21	13	16	7	2
24	0	15	28	28	29	45	47	20	17	19	8	0
25	0	14	27	31	30	50	49	23	20	14	10	0
26	0	15	24	32	35	56	49	23	15	14	9	0
27	0	15	17	35	34	59	47	24	13	15	4	0
28	0	12	10	36	35	53	49	30	13	17	3	0
29	0	-	13	35	33	47	46	22	12	20	0	0
30	0	-	15	35	32	51	58	16	9	20	1	0
31	0	-	19	-	32	-	50	17	-	10	-	0
TOTAL	0	111	662	704	904	1,271	1,341	949	538	381	145	92
MAXIMUM DAY	0	15	32	36	39	59	58	41	27	20	12	9
MINIMUM DAY	0	0	5	8	9	30	21	16	7	7	0	0
MEAN	0	4	21	23	29	42	43	31	18	12	5	3
TOTAL AC. FT.	0	220	1,313	1,396	1,793	2,521	2,660	1,882	1,067	756	288	183
WHOLE YEAR:-	TOTAL,	7,098	MAX.,	59	MIN.,	0	MEAN,	19	TOTAL AC.FT.,	14,079		

**KERN DELTA WATER DISTRICT**  
**EASTSIDE CANAL SERVICE AREA**

Year: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	0	0	684	1,301	1,589	2,174	2,243	944	0	0	0	0	8,935
State Exchange Diverted	0	220	629	95	204	347	417	254	295	414	288	183	3,346
City Miscellaneous Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0
MWD Water Diverted	0	0	0	0	0	0	0	684	772	342	0	0	1,798
<b>Eastside Canal at Head</b>	<b>0</b>	<b>220</b>	<b>1,313</b>	<b>1,396</b>	<b>1,793</b>	<b>2,521</b>	<b>2,660</b>	<b>1,882</b>	<b>1,067</b>	<b>756</b>	<b>288</b>	<b>183</b>	<b>14,079</b>

Utility Deliveries	0	0	453	785	1,174	1,531	1,784	808	0	0	0	0	6,515
Contract Deliveries	0	0	11	42	50	82	22	5	0	0	0	0	212
<b>Subtotal Utility Deliveries</b>	<b>0</b>	<b>0</b>	<b>444</b>	<b>827</b>	<b>1,224</b>	<b>1,613</b>	<b>1,806</b>	<b>813</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,727</b>
State Exchange Delivered	0	50	411	95	204	347	417	109	0	168	188	103	2,092
City Miscellaneous Delivered	0	0	0	0	0	0	0	0	0	0	0	0	0
MWD Water Delivered	0	0	0	0	0	0	0	684	772	342	0	0	1,798
Arvin-Edison Payback Delivered	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Subtotal State/Other Deliveries</b>	<b>0</b>	<b>50</b>	<b>411</b>	<b>95</b>	<b>204</b>	<b>347</b>	<b>417</b>	<b>793</b>	<b>772</b>	<b>510</b>	<b>188</b>	<b>103</b>	<b>3,890</b>
<b>Total Irrigation Deliveries</b>	<b>0</b>	<b>50</b>	<b>855</b>	<b>922</b>	<b>1,428</b>	<b>1,960</b>	<b>2,223</b>	<b>1,606</b>	<b>772</b>	<b>510</b>	<b>188</b>	<b>103</b>	<b>10,617</b>

Canal Loss (Utility)	0	0	240	474	365	561	437	131	0	0	0	0	2,208
Canal Loss (State)	0	170	218	0	0	0	0	145	295	246	100	80	1,254
Canal Loss (Other)	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Canal Loss</b>	<b>0</b>	<b>170</b>	<b>458</b>	<b>474</b>	<b>365</b>	<b>561</b>	<b>437</b>	<b>276</b>	<b>295</b>	<b>246</b>	<b>100</b>	<b>80</b>	<b>3,462</b>
<b>Delivery Percentage</b>	<b>0%</b>	<b>23%</b>	<b>65%</b>	<b>66%</b>	<b>80%</b>	<b>78%</b>	<b>84%</b>	<b>85%</b>	<b>72%</b>	<b>67%</b>	<b>65%</b>	<b>56%</b>	<b>75%</b>

DISCHARGE IN CUBIC FEET PER SECOND

Total Flow via the Buena Vista Canal Headgate

Year: 2003

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	69	19	13	21	88	105	86	53	20	0	20
2	0	61	56	0	22	110	106	73	47	22	0	5
3	9	54	58	4	21	118	110	71	46	19	0	0
4	13	66	62	32	21	128	110	76	67	19	0	0
5	13	82	66	39	24	129	117	69	55	21	0	0
6	13	82	61	37	22	139	105	53	37	19	0	0
7	16	84	55	34	22	131	93	58	51	30	0	0
8	14	80	50	33	21	124	92	65	54	29	0	0
9	12	71	40	30	23	126	88	57	52	35	0	0
10	12	62	63	37	23	120	85	51	47	27	0	0
11	12	31	79	37	26	115	83	43	61	21	0	0
12	16	11	70	20	25	113	96	45	55	21	0	0
13	22	12	69	16	25	96	105	51	53	20	0	0
14	23	14	77	16	33	75	111	50	44	16	0	0
15	29	12	72	18	40	62	121	46	47	14	0	0
16	23	0	50	15	51	63	119	52	45	0	0	0
17	23	0	41	9	56	67	109	55	59	0	0	0
18	4	0	41	0	61	68	87	59	59	0	0	4
19	7	0	37	7	62	69	76	67	51	0	0	23
20	48	0	27	0	54	55	77	80	53	0	0	19
21	54	0	31	0	51	54	86	108	49	0	0	20
22	19	0	31	0	48	46	84	107	48	0	0	21
23	64	0	31	0	61	40	86	96	40	0	0	8
24	42	0	31	7	64	45	78	107	41	0	0	0
25	37	0	32	21	67	60	72	96	27	0	0	0
26	43	0	26	22	72	71	67	84	27	0	5	0
27	0	0	19	22	69	86	70	75	37	0	28	0
28	18	0	30	25	65	99	103	65	40	0	25	0
29	56	-	37	25	79	101	99	59	22	0	24	0
30	57	-	34	27	86	103	98	62	21	0	22	0
31	62	-	26	-	81	-	98	62	-	0	-	0
TOTAL	761	791	1,421	539	1,396	2,701	2,936	2,128	1,388	333	104	120
MAXIMUM DAY	64	84	79	39	86	139	121	108	67	35	28	23
MINIMUM DAY	0	0	19	0	21	40	67	43	21	0	0	0
MEAN	25	28	46	18	45	90	95	69	46	11	3	4
TOTAL AC. FT.	1,509	1,569	2,818	1,069	2,769	5,357	5,824	4,221	2,753	660	206	238
WHOLE YEAR:-	TOTAL,	14,618	MAX.,	139	MIN.,	0	MEAN,	40	TOTAL AC.FT.,	28,993		

# KERN DELTA WATER DISTRICT BUENA VISTA CANAL SERVICE AREA

Quantities in acre-feet

Year: 2003

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	4,687	4,225	337	887	2,578	2,582	75	22	363	0	0	520	16,276
Release	(3,927)	(952)	2,864	773	404	0	0	0	2,163	1,309	382	(81)	2,935
<b>Entitlement + or - Releases</b>	<b>760</b>	<b>3,273</b>	<b>3,201</b>	<b>1,660</b>	<b>2,982</b>	<b>2,582</b>	<b>75</b>	<b>22</b>	<b>2,526</b>	<b>1,309</b>	<b>382</b>	<b>439</b>	<b>19,211</b>
Into Storage	14	2,416	337	726	605	103	0	0	399	786	18	30	5,434
From Storage	0	0	0	0	206	684	2,286	452	871	287	0	16	4,802
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	0	0	0	0	0	0	0	0	0	0	0	0	0
Transfer in Storage	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal/River Loss	165	218	46	28	2	0	0	0	755	325	188	248	1,975
<b>Diverted at Head of Canal</b>	<b>581</b>	<b>639</b>	<b>2,818</b>	<b>906</b>	<b>2,581</b>	<b>3,163</b>	<b>2,361</b>	<b>474</b>	<b>2,243</b>	<b>485</b>	<b>176</b>	<b>177</b>	<b>16,604</b>
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
<b>Total Utility Supply</b>	<b>581</b>	<b>639</b>	<b>2,818</b>	<b>906</b>	<b>2,581</b>	<b>3,163</b>	<b>2,361</b>	<b>474</b>	<b>2,243</b>	<b>485</b>	<b>176</b>	<b>177</b>	<b>16,604</b>
Utility Deliveries	151	533	1,667	343	1,671	2,233	1,363	170	1,437	84	0	0	9,652
Contract Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Irrigation Deliveries</b>	<b>151</b>	<b>533</b>	<b>1,667</b>	<b>343</b>	<b>1,671</b>	<b>2,233</b>	<b>1,363</b>	<b>170</b>	<b>1,437</b>	<b>84</b>	<b>0</b>	<b>0</b>	<b>9,652</b>
Canal Conveyance Losses	430	106	1,151	563	910	930	998	304	806	401	176	177	6,952
Delivery Percentage	26%	83%	59%	38%	65%	71%	58%	36%	64%	17%	0%	0%	58%

Into Reservoir Storage	14	2,416	337	726	605	103	0	0	399	786	18	30	5,434
Reservoir Evaporation Loss	14	16	52	56	97	123	108	56	44	34	18	14	632
From Reservoir Storage	0	0	0	0	206	684	2,286	452	871	287	0	16	4,802
<b>End of Month Reservoir Storage</b>	<b>1,500</b>	<b>3,900</b>	<b>4,185</b>	<b>4,855</b>	<b>5,157</b>	<b>4,453</b>	<b>2,059</b>	<b>1,551</b>	<b>1,035</b>	<b>1,500</b>	<b>1,500</b>	<b>1,500</b>	

State Exchange Diverted	0	0	0	0	0	450	704	0	0	0	30	61	1,245
State Exchange Delivered (Irrigation)	0	0	0	0	0	450	704	0	0	0	0	0	1,154
State Exchange Delivered (Spreading)	0	0	0	0	0	0	0	0	0	0	30	61	91
MWD Water Diverted	0	0	0	0	0	448	1,484	3,005	349	175	0	0	5,461
MWD Water Delivered (Irrigation)	0	0	0	0	0	448	1,484	2,474	0	0	0	0	4,406
MWD Water Delivered (Loss/Spreading)	0	0	0	0	0	0	0	531	349	175	0	0	1,055
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

Year: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Buena Vista Canal at Headworks	1,509	1,569	2,818	1,069	2,769	5,357	5,824	4,221	2,753	660	206	238	28,993
Buena Vista Canal from Maples Canal	0	0	0	0	0	426	541	552	0	0	0	0	1,519
<b>TOTAL BUENA VISTA CANAL SUPPLY</b>	<b>1,509</b>	<b>1,569</b>	<b>2,818</b>	<b>1,069</b>	<b>2,769</b>	<b>5,783</b>	<b>6,365</b>	<b>4,773</b>	<b>2,753</b>	<b>660</b>	<b>206</b>	<b>238</b>	<b>30,512</b>

**Deliveries: Head to Section 17**

Buena Vista Utility	151	290	1,444	270	940	1,319	914	118	698	84	0	0	6,228
Buena Vista State Exchange (Irrigation)	0	0	0	0	0	44	704	0	0	0	0	0	748
Buena Vista State Exchange (Spreading)	0	0	0	0	0	0	0	0	0	0	30	61	91
Buena Vista MWD Water (Irrigation)	0	0	0	0	0	339	647	1,414	0	0	0	0	2,400
Buena Vista MWD Water (Spreading)	0	0	0	0	0	0	0	0	246	175	0	0	421
Stine Utility	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Sub-Total</b>	<b>151</b>	<b>290</b>	<b>1,444</b>	<b>270</b>	<b>940</b>	<b>1,702</b>	<b>2,265</b>	<b>1,532</b>	<b>944</b>	<b>259</b>	<b>30</b>	<b>61</b>	<b>9,888</b>

**Deliveries: At or Below Section 17**

Buena Vista Utility	0	243	223	73	781	914	449	52	739	0	0	0	3,424
Buena Vista State Exchange (Irrigation)	0	0	0	0	0	406	0	0	0	0	0	0	406
Buena Vista MWD Water	0	0	0	0	0	109	837	1,060	0	0	0	0	2,006
Stine Utility	0	0	0	0	0	0	144	0	0	0	0	0	144
Stine State Exchange	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern Island Utility	577	793	0	108	116	645	1,397	1,194	109	0	0	0	4,939
Kern Island State Exchange	0	0	0	0	0	163	0	0	0	0	0	0	163
Kern Island MWD Water	0	0	0	0	0	786	0	0	0	0	0	0	786
<b>Sub-Total</b>	<b>577</b>	<b>1,036</b>	<b>223</b>	<b>181</b>	<b>847</b>	<b>3,023</b>	<b>2,827</b>	<b>2,306</b>	<b>848</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,868</b>

<b>TOTAL DELIVERED</b>	<b>728</b>	<b>1,326</b>	<b>1,667</b>	<b>451</b>	<b>1,787</b>	<b>4,725</b>	<b>5,092</b>	<b>3,838</b>	<b>1,792</b>	<b>259</b>	<b>30</b>	<b>61</b>	<b>21,756</b>
Canal Conveyance Losses	781	243	1,151	618	982	1,058	1,273	935	961	401	176	177	8,756
Delivery Percentage	48%	85%	59%	42%	65%	82%	80%	80%	65%	39%	15%	26%	71%

**DISTRIBUTION:**

Buena Vista Utility	581	639	2,818	906	2,581	3,163	2,361	474	2,243	485	176	177	16,604
Buena Vista State Exchange	0	0	0	0	0	450	704	0	0	0	30	61	1,245
Buena Vista MWD Water	0	0	0	0	0	448	1,484	3,005	349	175	0	0	5,461
Stine Utility	0	0	0	0	0	0	151	0	0	0	0	0	151
Stine State Exchange	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern Island Utility	928	930	0	163	188	748	1,665	1,294	161	0	0	0	6,077
Kern Island State Exchange	0	0	0	0	0	163	0	0	0	0	0	0	163
Kern Island MWD Water	0	0	0	0	0	811	0	0	0	0	0	0	811
Kern River Floodwater	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>1,509</b>	<b>1,569</b>	<b>2,818</b>	<b>1,069</b>	<b>2,769</b>	<b>5,783</b>	<b>6,365</b>	<b>4,773</b>	<b>2,753</b>	<b>660</b>	<b>206</b>	<b>238</b>	<b>30,512</b>

Year: 2003

Total Flow via the Stine Canal Headgate

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	100	152	119	39	20	0	0
2	0	0	0	0	0	102	157	110	26	22	0	0
3	0	0	0	0	0	97	152	96	0	20	0	0
4	0	0	0	0	0	97	139	91	0	21	0	0
5	0	0	0	0	0	101	139	87	0	21	0	0
6	0	0	0	0	0	101	142	86	0	21	0	0
7	0	0	0	0	0	100	149	83	0	20	0	0
8	0	0	0	0	0	100	157	82	0	20	0	0
9	0	0	0	0	0	111	160	73	0	20	0	0
10	0	0	0	0	0	114	160	76	0	20	0	0
11	0	0	0	0	0	115	153	94	0	20	0	0
12	0	0	0	0	0	107	145	118	0	22	0	0
13	0	0	0	0	0	93	141	121	0	20	0	0
14	0	0	0	0	0	70	140	122	0	22	0	0
15	0	0	0	0	0	69	144	119	0	22	0	0
16	0	0	0	0	0	78	153	98	0	15	0	0
17	0	0	0	0	0	90	148	98	0	21	0	0
18	0	0	0	0	0	103	137	102	0	20	0	0
19	0	0	0	0	0	103	117	105	0	20	0	0
20	0	0	0	0	0	101	112	116	0	20	0	0
21	8	0	0	0	0	96	118	122	0	21	0	0
22	20	0	0	0	0	97	125	122	0	19	0	0
23	18	0	0	0	0	107	138	108	0	20	0	0
24	15	0	0	0	6	110	138	105	0	20	0	0
25	16	0	0	0	42	112	125	109	16	18	0	0
26	16	0	0	0	80	115	106	108	36	18	0	0
27	22	0	0	0	99	120	92	106	29	20	0	0
28	20	0	0	0	111	131	92	87	24	20	0	0
29	20	-	0	0	122	150	111	68	15	19	0	0
30	15	-	0	0	123	149	132	50	18	0	0	0
31	0	-	0	-	115	-	130	39	-	0	-	0
TOTAL	170	0	0	0	698	3,139	4,204	3,020	203	582	0	0
MAXIMUM DAY	22	0	0	0	123	150	160	122	39	22	0	0
MINIMUM DAY	0	0	0	0	0	69	92	39	0	0	0	0
MEAN	5	0	0	0	23	105	136	97	7	19	0	0
TOTAL AC. FT.	337	0	0	0	1,384	6,226	8,338	5,990	403	1,154	0	0
WHOLE YEAR:-	TOTAL,	12,016	MAX.,	160	MIN.,	0	MEAN,	33	TOTAL AC.FT.,	23,832		

DISCHARGE IN CUBIC FEET PER SECOND

Stine via Arvin-Edison Intake Canal

Year: 2003

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	29	0	0	0
4	0	0	0	0	0	0	0	0	29	0	0	0
5	0	0	0	0	0	0	0	0	28	0	0	0
6	0	0	0	0	0	0	0	0	28	0	0	0
7	0	0	0	0	0	0	0	0	29	0	0	0
8	0	0	0	0	0	0	0	0	37	0	0	0
9	0	0	0	0	0	0	0	0	38	0	0	0
10	0	0	0	0	0	0	0	0	37	0	0	0
11	0	0	0	0	0	0	0	0	38	0	0	0
12	0	0	0	0	0	0	0	0	38	0	0	0
13	0	0	0	0	0	0	0	0	38	0	0	0
14	0	0	0	0	0	0	0	0	36	0	0	0
15	0	0	0	0	0	0	0	0	31	0	0	0
16	0	0	0	0	0	0	0	0	30	0	0	0
17	0	0	0	0	0	0	0	0	30	0	0	0
18	0	0	0	0	0	0	0	0	30	0	0	0
19	0	0	0	0	0	0	0	0	31	0	0	0
20	0	0	0	0	0	0	0	0	29	0	0	0
21	0	0	0	0	0	0	0	0	29	0	0	0
22	0	0	0	0	0	0	0	0	29	0	0	0
23	0	0	0	0	0	0	0	0	28	0	0	0
24	0	0	0	0	0	0	0	0	39	0	0	0
25	0	0	0	0	0	0	0	0	21	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	732	0	0	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	39	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	24	0	0	0
TOTAL AC. FT.	0	0	0	0	0	0	0	0	1,452	0	0	0
WHOLE YEAR:-	TOTAL,	732	MAX.,	39	MIN.,	0	MEAN,	2	TOTAL AC.FT.,	1,452		

# KERN DELTA WATER DISTRICT STINE CANAL SERVICE AREA

Year: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	1,001	1,646	641	1,668	3,322	3,463	145	41	0	0	0	341	12,268
Release	(254)	74	0	(292)	(472)	0	0	0	0	0	214	(46)	(776)
<b>Entitlement + or - Releases</b>	<b>747</b>	<b>1,720</b>	<b>641</b>	<b>1,376</b>	<b>2,850</b>	<b>3,463</b>	<b>145</b>	<b>41</b>	<b>0</b>	<b>0</b>	<b>214</b>	<b>295</b>	<b>11,492</b>
Into Storage	14	1,581	641	1,376	1,974	494	0	2	0	0	214	295	6,591
From Storage	0	0	0	0	0	1,011	4,992	933	50	0	0	0	6,986
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	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal Loss	26	0	0	0	0	0	0	0	50	0	0	0	76
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Diverted at Head of Canal</b>	<b>707</b>	<b>139</b>	<b>0</b>	<b>0</b>	<b>876</b>	<b>3,980</b>	<b>5,137</b>	<b>972</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,811</b>
From Cawelo Water District	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Utility Supply</b>	<b>707</b>	<b>139</b>	<b>0</b>	<b>0</b>	<b>876</b>	<b>3,980</b>	<b>5,137</b>	<b>972</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11,811</b>
Utility Deliveries	213	31	0	0	281	1,703	2,490	0	0	0	0	0	4,718
Contract Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Irrigation Deliveries</b>	<b>213</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>281</b>	<b>1,703</b>	<b>2,490</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,718</b>
Canal Conveyance Losses	494	108	0	0	595	2,277	2,647	972	0	0	0	0	7,093
Delivery Percentage	30%	22%	0%	0%	32%	43%	48%	0%	0%	0%	0%	0%	40%

Into Reservoir Storage	14	1,581	641	1,376	1,974	494	0	2	0	0	214	295	6,591
Reservoir Evaporation Loss	14	14	42	54	117	173	113	16	1	2	2	2	550
From Reservoir Storage	0	0	0	0	0	1,011	4,992	933	50	0	0	0	6,986
<b>End of Month Reservoir Storage</b>	<b>1,500</b>	<b>3,067</b>	<b>3,666</b>	<b>4,988</b>	<b>6,845</b>	<b>6,155</b>	<b>1,050</b>	<b>103</b>	<b>52</b>	<b>50</b>	<b>262</b>	<b>555</b>	

State Exchange Diverted	0	0	0	0	0	4	0	258	1,873	901	299	65	3,400
State Exchange Delivered (Irrigation)	0	0	0	0	0	4	0	0	694	4	40	0	742
State Exchange Delivered (Loss/Spreading)	0	0	0	0	0	0	0	258	1,179	897	259	65	2,658
MWD Water Diverted	0	0	0	0	0	10	377	2,831	319	670	0	0	4,207
MWD Water Delivered (Irrigation)	0	0	0	0	0	10	377	1,780	126	52	0	0	2,345
MWD Water Delivered (Loss/Spreading)	0	0	0	0	0	0	0	1,051	193	618	0	0	1,862
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

Year: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	0	623	641	1,559	3,297	3,463	107	34	0	0	0	214	9,938
Release	+ or -	(407)	0	(204)	(457)	0	0	0	0	0	0	(30)	(201)
<b>Entitlement + or - Releases</b>	<b>=</b>	<b>897</b>	<b>641</b>	<b>1,355</b>	<b>2,840</b>	<b>3,463</b>	<b>107</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>184</b>	<b>9,737</b>
Into Storage	14	206	619	1,299	2,122	452	0	0	0	0	0	184	4,896
From Storage	0	0	0	0	0	464	3,499	838	297	434	137	0	5,669
Transfer in Storage	+ or -	0	0	0	0	0	0	0	0	0	0	0	0
Carrier Canal Loss	-	0	0	0	0	0	0	0	0	0	0	0	0
Other	+ or -	0	0	0	0	0	0	0	0	0	0	0	0
<b>Diverted at Head of Canal</b>	<b>=</b>	<b>883</b>	<b>22</b>	<b>56</b>	<b>718</b>	<b>3,475</b>	<b>3,606</b>	<b>872</b>	<b>297</b>	<b>434</b>	<b>137</b>	<b>0</b>	<b>10,510</b>
Utility Deliveries	339	0	8	56	365	2,372	2,700	416	0	142	52	0	6,450
Contract Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Irrigation Deliveries</b>	<b>-</b>	<b>339</b>	<b>8</b>	<b>56</b>	<b>365</b>	<b>2,372</b>	<b>2,700</b>	<b>416</b>	<b>0</b>	<b>142</b>	<b>52</b>	<b>0</b>	<b>6,450</b>
Canal Conveyance Losses	=	544	10	0	353	1,103	906	456	297	292	85	0	4,060
Delivery Percentage		38%	0%	100%	51%	68%	75%	48%	0%	33%	38%	0%	61%

Into Reservoir Storage	14	206	619	1,299	2,122	452	0	0	0	0	0	184	4,896
Reservoir Evaporation Loss	14	12	24	38	89	142	119	38	27	12	0	0	515
From Reservoir Storage	0	0	0	0	0	464	3,499	838	297	434	137	0	5,669
<b>End of Month Reservoir Storage</b>	<b>1,500</b>	<b>1,694</b>	<b>2,289</b>	<b>3,550</b>	<b>5,583</b>	<b>5,429</b>	<b>1,811</b>	<b>935</b>	<b>611</b>	<b>165</b>	<b>28</b>	<b>212</b>	

State Exchange Diverted	0	0	0	0	0	0	0	0	0	58	466	363	887
State Exchange Delivered (Irrigation)	0	0	0	0	0	0	0	0	0	0	213	107	320
State Exchange Delivered (Loss/Spreading)	0	0	0	0	0	0	0	0	0	58	253	256	567
MWD Water Diverted	0	0	0	0	0	0	0	1,652	1,218	341	0	0	3,211
MWD Water Diverted (Irrigation)	0	0	0	0	0	0	0	1,195	675	86	0	0	1,956
MWD Water Delivered (Loss/Spreading)	0	0	0	0	0	0	0	457	543	255	0	0	1,255

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

DISCHARGE IN CUBIC FEET PER SECOND

Year: 2003

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	13	16	0	0	0	0
2	0	0	0	0	0	0	14	17	0	0	0	0
3	0	0	0	0	0	0	14	15	0	0	0	0
4	0	0	0	0	0	0	13	17	0	0	0	0
5	0	0	0	0	0	0	14	17	0	0	0	0
6	0	0	0	0	0	0	14	16	0	0	0	0
7	0	0	0	0	0	0	14	16	0	0	0	0
8	0	0	0	0	0	0	12	1	0	0	0	0
9	0	0	0	0	0	0	13	0	0	0	0	0
10	0	0	0	0	0	9	13	0	0	0	0	0
11	0	0	0	0	0	11	25	0	0	0	0	0
12	0	0	0	0	0	15	26	12	0	0	0	0
13	0	0	0	0	0	14	19	15	0	0	0	0
14	0	0	0	0	0	16	3	17	0	0	0	0
15	0	0	0	0	0	15	0	17	0	0	0	0
16	0	0	0	0	0	14	0	18	0	0	0	0
17	0	0	0	0	0	14	0	17	0	0	0	0
18	0	0	0	0	0	12	0	17	0	0	0	0
19	0	0	0	0	0	2	0	17	0	0	0	0
20	0	0	0	0	0	0	0	16	0	0	0	0
21	0	0	0	0	0	0	0	17	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	14	0	0	0	0	0	0
25	0	0	0	0	0	13	0	0	0	0	0	0
26	0	0	0	0	0	13	0	0	0	0	0	0
27	0	0	0	0	0	13	10	0	0	0	0	0
28	0	0	0	0	0	13	12	0	0	0	0	0
29	0	-	0	0	0	14	15	0	0	0	0	0
30	0	-	0	0	0	13	15	0	0	0	0	0
31	0	-	0	-	0	-	14	0	-	0	-	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>215</b>	<b>273</b>	<b>278</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MAXIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>26</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>9</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL AC. FT.</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>426</b>	<b>541</b>	<b>552</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>766</b>	<b>MAX.,</b>	<b>26</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>2</b>	<b>TOTAL AC.FT.,</b>	<b>1,519</b>		

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

Year: 2003

Quantities in acre-feet

	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
November	81	0	78	0	0	0	0	0	0	0	0	159	2,915
December	32	0	12	0	0	0	0	0	0	0	0	44	2,871
January	159	0	67	0	0	0	0	0	0	0	0	226	2,645
February	151	220	14	0	0	0	0	0	0	0	0	385	2,260
March	14	629	299	0	0	0	0	0	0	0	10	952	1,308
April	111	95	83	0	0	0	0	0	0	0	14	903	1,005
May	311	204	123	0	0	0	0	0	0	0	14	652	353
June	192	56	95	0	4	0	0	0	0	0	6	353	0
<b>Total</b>	<b>437</b>	<b>849</b>	<b>470</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>1,766</b>	

	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
March	0	0	0	0	0	0	0	0	0	0	0	0	20,168
April	0	0	0	0	0	0	0	0	0	0	0	0	20,168
May	0	0	0	0	0	0	0	0	0	0	0	0	20,168
June	1,208	291	409	450	0	0	0	0	0	0	0	2,358	17,810
July	966	417	474	704	0	0	0	0	0	0	0	2,561	15,249
August	766	254	482	0	258	0	0	0	0	0	0	1,760	13,489
September	752	295	393	0	1,873	0	0	0	0	0	0	3,313	10,176
October	198	414	32	0	901	58	0	0	0	0	91	1,694	8,482
<b>Total</b>	<b>3,890</b>	<b>1,671</b>	<b>1,790</b>	<b>1,154</b>	<b>3,032</b>	<b>58</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>91</b>	<b>11,686</b>	

Note: 3,000 acre-feet of Kern Delta WD 2003 State Water Entitlement diverted to Henry Miller WD from California Aqueduct not reflected in 2003 contract storage balance.

	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
November	306	288	65	30	299	466	0	0	0	0	18	1,472	7,010
December	451	183	30	61	65	363	0	0	0	0	4	1,157	5,853
<b>Total</b>	<b>757</b>	<b>471</b>	<b>95</b>	<b>91</b>	<b>364</b>	<b>829</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>2,629</b>	

# ***CITY OF BAKERSFIELD***



*Breckenridge Mountain*

# KERN RIVER CHANNEL OPERATIONS CITY OF BAKERSFIELD

Year: 2003

Quantities in acre-feet

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
<b>+ Kern River at First Point of Measurement</b>	<b>28,514</b>	<b>20,896</b>	<b>24,730</b>	<b>25,351</b>	<b>41,468</b>	<b>77,695</b>	<b>82,286</b>	<b>66,716</b>	<b>35,962</b>	<b>28,572</b>	<b>11,597</b>	<b>16,619</b>	<b>460,406</b>
- Computed Loss	676	611	676	655	676	655	676	676	655	676	655	676	7,963
- Beardsley Canal at Head	2,378	8,321	5,748	7,747	16,913	32,219	35,482	26,146	16,789	15,422	4,885	4,048	176,098
- Carrier Canal at Head	12,339	9,300	18,284	16,945	21,592	28,683	30,853	25,775	18,405	11,641	5,617	8,811	208,245
<b>= Rocky Point Weir</b>	<b>13,121</b>	<b>2,664</b>	<b>22</b>	<b>4</b>	<b>2,287</b>	<b>16,138</b>	<b>15,275</b>	<b>14,119</b>	<b>113</b>	<b>833</b>	<b>440</b>	<b>3,084</b>	<b>68,100</b>
+ Carrier Waste Gate	0	0	0	0	0	0	0	0	0	286	0	276	562
+ Farmers-Stine-Anderson: to River	547	1,498	2,402	3,013	2,991	0	0	0	0	0	0	69	10,520
- Farmers-Stine-Anderson: from River	71	50	0	0	480	4,003	4,449	4,511	109	0	0	0	13,673
- Calloway Canal at Head	1,113	1,207	1,765	2,174	2,961	1,468	0	0	0	0	0	0	10,688
- River Loss: Rocky Point to Calloway Weir	766	698	659	843	1,049	922	897	788	4	143	234	521	7,524
<b>= Calloway River Weir</b>	<b>11,718</b>	<b>2,207</b>	<b>0</b>	<b>0</b>	<b>788</b>	<b>9,745</b>	<b>9,929</b>	<b>8,820</b>	<b>0</b>	<b>976</b>	<b>206</b>	<b>2,908</b>	<b>47,297</b>
+ CVC T.O. #4 to River	0	0	1,039	33	2,817	5,458	8,535	5,966	407	0	3,842	3,489	31,586
+ Truxtun Lake to River	0	0	0	0	0	676	778	508	0	0	0	0	1,962
+ CVC T.O. #3 to River	0	0	668	16	0	3,535	4,294	1,613	0	0	2,160	3,251	15,537
+ Friant-Kern Inflow	0	0	0	828	12,510	872	0	0	0	0	0	0	14,210
- River Canal from River	646	12	0	73	452	9,665	12,498	7,722	0	0	206	1,226	32,500
- River Loss: Cally. Weir to River Canal Weir	5,270	2,027	1,707	804	6,300	7,653	6,545	6,585	244	976	5,689	6,988	50,788
<b>= River Canal Weir</b>	<b>5,802</b>	<b>168</b>	<b>0</b>	<b>0</b>	<b>9,363</b>	<b>2,968</b>	<b>4,493</b>	<b>2,600</b>	<b>163</b>	<b>0</b>	<b>313</b>	<b>1,434</b>	<b>27,304</b>
+ Pioneer Turnout	258	85	56	103	454	20	0	0	0	0	0	988	1,964
- Rio Vista Lake	0	0	0	0	0	0	0	0	0	0	0	278	278
+ CVC T.O. #2 to River	0	0	817	93	0	1,210	0	145	0	0	0	641	2,906
- Rosedale Channel at Head	4,594	0	0	0	4,471	633	0	0	0	0	0	0	9,698
- Pioneer Canal at Head	0	0	0	0	0	0	0	0	0	0	0	0	0
- Berranda Mesa Pipeline Turnout	0	0	419	34	0	145	290	157	0	0	0	300	1,345
- River Loss: River Canal to Bellevue Weir	1,359	253	224	156	3,039	2,251	3,422	2,227	163	0	313	1,753	15,160
<b>= Flow at Bellevue Weir</b>	<b>107</b>	<b>0</b>	<b>230</b>	<b>6</b>	<b>2,307</b>	<b>1,169</b>	<b>781</b>	<b>361</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>732</b>	<b>5,693</b>
- River Loss: Bellevue Weir to ID#4 Boundary	107	0	230	6	879	1,014	781	361	0	0	0	590	3,908
- River Loss: ID#4 Boundary to 2800 Acres	0	0	0	0	641	155	0	0	0	0	0	202	998
+ CVC T.O. #1 to River	0	0	589	71	0	0	0	0	0	0	0	0	660
+ River Canal Turnout to 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
- Central Pioneer from 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
- North Pioneer from 2800 Acres	0	0	0	0	0	0	0	0	0	0	0	0	0
- 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	589	71	787	0	0	0	0	0	0	0	1,447
<b>= Second Point via Kern River Channel</b>	<b>0</b>												

# CARRIER CANAL OPERATIONS CITY OF BAKERSFIELD

Year: 2003

Quantities in acre-feet

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
+ Carrier Canal at Head	12,339	9,300	18,284	16,945	21,592	28,683	30,853	25,775	18,405	11,641	5,617	8,811	208,245
- Carrier Waste Gate	0	0	0	0	0	0	0	0	0	286	0	276	562
+ Oilfield Discharge	0	0	0	0	0	0	0	0	0	0	0	0	0
- Canal Refill	0	0	0	0	0	0	0	0	0	0	0	0	0
= Carrier Reclamation Weir	12,339	9,300	18,284	16,945	21,592	28,683	30,853	25,775	18,405	11,355	5,617	8,535	207,683
+ Storm Drain Inflow	0	14	16	0	0	0	0	0	0	0	0	69	99
- Eastside Canal at Head	0	220	1,313	1,396	1,793	2,521	2,660	1,882	1,067	756	288	183	14,079
- Kern Island Canal at Head	9,826	5,518	10,832	9,923	12,143	21,763	23,379	20,083	13,380	8,279	5,329	8,352	148,807
= Levee No. 1	2,513	3,576	6,155	5,626	7,656	4,399	4,814	3,810	3,958	2,320	0	69	44,896
- Farmers-Stine-Anderson: to River	547	1,498	2,402	3,013	2,991	0	0	0	0	0	0	69	10,520
+ Farmers-Stine-Anderson: from River	71	50	0	0	480	4,003	4,449	4,511	109	0	0	0	13,673
= Carrier Canal at Oak Street	2,037	2,128	3,753	2,613	5,145	8,402	9,263	8,321	4,067	2,320	0	0	48,049
- Stine Canal at Head	337	0	0	0	1,384	6,226	8,338	5,990	403	1,154	0	0	23,832
- Carrier to Truxtun Lakes	218	432	899	619	863	847	778	700	1,049	518	0	0	6,923
+ Truxtun Lakes to Carrier	155	343	738	599	720	171	0	192	1,049	518	0	0	4,485
- Arvin-Edison Turnout	0	0	0	0	0	0	0	0	54	0	0	0	54
- Total Carrier Canal Loss	516	397	718	740	595	212	147	365	857	506	0	0	5,053
+ River Canal from River	646	12	0	73	452	9,665	12,498	7,722	0	0	206	1,226	32,500
= River Canal at Stockdale Highway	1,767	1,654	2,874	1,926	3,475	10,953	12,498	9,180	2,753	660	206	1,226	49,172
- Buena Vista Canal at Head	1,509	1,569	2,818	1,069	2,769	5,357	5,824	4,221	2,753	660	206	238	28,993
- Pioneer Turnout	258	85	56	103	454	20	0	0	0	0	0	988	1,964
- 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	0	754	252	5,576	6,674	4,959	0	0	0	0	18,215
+ 2800 Acre Well Water Production	0	0	444	2,767	210	1,620	1,545	1,136	915	171	0	0	8,808
+ Pioneer Well Water Production	0	0	0	0	0	0	0	0	0	0	0	0	0
+ KWB Well Water Production	884	991	147	978	0	0	0	0	0	0	0	0	3,000
- Kern Delta WD via River Canal	0	0	0	0	0	426	541	552	0	0	0	0	1,519
- KCWA via River Canal	884	991	147	978	0	0	0	0	0	0	0	0	3,000
- Henry Miller WD via River Canal	0	0	0	0	0	0	0	0	0	0	0	0	0
- County of Kern	0	0	0	0	210	1,620	1,545	1,136	915	171	0	0	5,597
= Second Point Group Flow via River Canal	0	0	444	3,521	252	5,150	6,133	4,407	0	0	0	0	19,907

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

Quantities in acre-feet

Year: 2003

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
River Entitlement	1,169	1,057	17,379	17,591	24,799	25,213	11,234	3,276	167	0	0	226	102,111
Release	1,272	160	1,142	964	420	0	0	0	986	1,190	1,236	678	8,048
<b>ENTITLEMENT + OR - RELEASES</b>	<b>2,441</b>	<b>1,217</b>	<b>18,521</b>	<b>18,555</b>	<b>25,219</b>	<b>25,213</b>	<b>11,234</b>	<b>3,276</b>	<b>1,153</b>	<b>1,190</b>	<b>1,236</b>	<b>904</b>	<b>110,159</b>
NKWSO to City	3,383	0	36	0	0	0	0	0	0	0	0	2,756	6,175
From Reservoir Storage	0	48	0	0	0	4,580	11,512	16,557	4,317	32	578	934	38,558
Into Reservoir Storage	941	141	9,900	7,680	12,744	12,625	1,819	137	0	537	2,573	234	49,331
Other	0	0	0	0	0	0	0	0	0	0	2,382	4	2,386
<b>TOTAL SUPPLY</b>	<b>4,883</b>	<b>1,124</b>	<b>8,657</b>	<b>10,875</b>	<b>12,475</b>	<b>17,168</b>	<b>20,927</b>	<b>19,696</b>	<b>5,470</b>	<b>685</b>	<b>1,623</b>	<b>4,364</b>	<b>107,947</b>

County of Kern	16	16	44	60	77	105	127	121	91	97	68	42	864
Kern Valley Golf Course	2	2	7	12	27	31	31	27	25	10	1	8	183
California Water Service Company	36	39	68	87	175	204	604	1,179	911	497	1,054	1,025	5,879
Oleese Water District	16	13	40	38	95	117	137	110	97	78	30	4	775
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)	0	512	0	0	0	0	0	0	0	0	0	0	512
North Kern WSD (Borrow/Payback)	0	0	0	4,298	712	0	0	0	0	0	0	0	7,869
Cawelo WD (Basic Contract)	0	0	2,859	2,603	5,853	5,400	5,147	5,653	0	0	0	0	27,000
Cawelo WD (Miscellaneous)	220	373	0	0	0	0	0	0	0	0	423	470	1,486
Kern-Tulare WD (Basic Contract)	0	0	2,248	2,641	3,515	1,527	0	6,123	3,776	0	0	0	19,830
Kern-Tulare WD (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Rag Gulch WD (Basic Contract)	0	0	337	396	527	230	0	918	565	0	0	0	2,973
Rag Gulch WD (Miscellaneous)	0	0	0	0	0	0	0	0	0	0	0	0	0
Rosedale RBWSD (Basic Contract)	4,594	0	0	0	0	0	0	0	0	0	0	0	7,407
Rosedale RBWSD (Miscellaneous)	0	169	0	0	0	0	0	0	0	0	0	0	169
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	0	0	0	0	0	0	0	0	0	0	0	0
Truxtun Lakes	0	0	0	0	0	0	0	0	0	0	0	0	0
Glen Grundeis	0	0	0	0	0	0	0	0	0	0	0	0	0
Jack Jost	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)	0	710	740	1,494	4,554	4,881	565	5	3	45	2	12,998
<b>TOTAL DIVERTED</b>	<b>4,883</b>	<b>1,124</b>	<b>8,657</b>	<b>10,875</b>	<b>12,475</b>	<b>17,168</b>	<b>20,927</b>	<b>19,696</b>	<b>5,470</b>	<b>685</b>	<b>1,623</b>	<b>4,364</b>	<b>107,947</b>

Into Reservoir Storage	941	141	9,900	7,680	12,744	12,625	1,819	137	0	537	2,573	234	49,331
Reservoir Evaporation Loss	151	122	277	374	770	1,190	1,411	996	723	527	237	188	6,966
From Reservoir Storage	0	48	0	0	0	4,580	11,512	16,557	4,317	32	578	934	38,558
<b>End of Month Reservoir Storage</b>	<b>16,019</b>	<b>15,990</b>	<b>25,613</b>	<b>32,919</b>	<b>44,893</b>	<b>51,748</b>	<b>40,644</b>	<b>23,228</b>	<b>18,188</b>	<b>18,166</b>	<b>19,924</b>	<b>19,036</b>	

**CITY OF BAKERSFIELD**  
**STATUS OF LONG TERM CONTRACTS**

Quantities in acre-feet

Year	Basic Contract Amount		Cumulative Contract Amount		Basic Contract Delivered		Cumulative Contract Delivery		Basic Contract Balance	
	Amount	20,000	Amount	20,000	Amount	20,000	Amount	20,000	Amount	20,000
1977	20,000	20,000	20,000	20,000	20,000	20,000	0	0	0	0
1978	20,000	40,000	40,000	40,000	40,000	40,000	0	0	0	0
1979	20,000	60,000	60,000	60,000	60,000	60,000	0	0	0	0
1980	20,000	80,000	80,000	80,000	80,000	80,000	0	0	0	0
1981	20,000	100,000	100,000	100,000	100,000	100,000	0	0	0	0
1982	20,000	120,000	120,000	120,000	120,000	120,000	0	0	0	0
1983	20,000	140,000	140,000	140,000	140,000	140,000	0	0	0	0
1984	20,000	160,000	160,000	160,000	160,000	160,000	0	0	0	0
1985	20,000	180,000	180,000	180,000	180,000	180,000	0	0	0	0
1986	20,000	200,000	200,000	200,000	200,000	200,000	0	0	0	0
1987	20,000	220,000	220,000	220,000	220,000	220,000	0	0	0	0
1988	20,000	240,000	240,000	240,000	240,000	240,000	0	0	0	0
1989	20,000	260,000	260,000	260,000	260,000	260,000	0	0	0	0
1990	20,000	280,000	280,000	280,000	280,000	280,000	0	0	0	0
1991	20,000	300,000	300,000	300,000	300,000	300,000	0	0	0	0
1992	20,000	320,000	320,000	320,000	320,000	320,000	0	0	0	0
1993	20,000	340,000	340,000	340,000	340,000	340,000	0	0	0	0
1994	20,000	360,000	360,000	360,000	360,000	360,000	0	0	0	0
1995	20,000	380,000	380,000	380,000	380,000	380,000	0	0	0	0
1996	20,000	400,000	400,000	400,000	400,000	400,000	0	0	0	0
1997	20,000	420,000	420,000	420,000	420,000	420,000	0	0	0	0
1998	20,000	440,000	440,000	440,000	440,000	440,000	0	0	0	0
1999	20,000	460,000	460,000	460,000	460,000	460,000	0	0	0	0
2000	20,000	480,000	480,000	480,000	480,000	480,000	0	0	0	0
2001	20,000	500,000	500,000	500,000	500,000	500,000	0	0	0	0
2002	20,000	520,000	520,000	520,000	520,000	520,000	0	0	0	0
2003	20,000	540,000	540,000	540,000	540,000	540,000	0	0	0	0

Year	Basic Contract Amount		Cumulative Contract Amount		Basic Contract Delivered		Cumulative Contract Delivery		Basic Contract Balance	
	Amount	27,000	Amount	27,000	Amount	5,024	Amount	5,024	Amount	(21,976)
1977	27,000	27,000	27,000	27,000	27,000	5,024	5,024	5,024	21,976	(21,976)
1978	27,000	54,000	54,000	54,000	54,000	35,404	40,428	40,428	13,572	(13,572)
1979	27,000	81,000	81,000	81,000	81,000	96,780	77,208	77,208	(3,792)	(3,792)
1980	27,000	108,000	108,000	108,000	108,000	30,792	108,000	108,000	0	0
1981	27,000	135,000	135,000	135,000	135,000	27,000	135,000	135,000	0	0
1982	27,000	162,000	162,000	162,000	162,000	27,000	162,000	162,000	0	0
1983	27,000	189,000	189,000	189,000	189,000	27,000	189,000	189,000	0	0
1984	27,000	216,000	216,000	216,000	216,000	27,000	216,000	216,000	0	0
1985	27,000	243,000	243,000	243,000	243,000	27,000	243,000	243,000	0	0
1986	27,000	270,000	270,000	270,000	270,000	27,000	270,000	270,000	0	0
1987	27,000	297,000	297,000	297,000	297,000	27,000	297,000	297,000	0	0
1988	27,000	324,000	324,000	324,000	324,000	12,821	309,821	309,821	(14,179)	(14,179)
1989	27,000	351,000	351,000	351,000	351,000	22,460	332,281	332,281	(18,719)	(18,719)
1990	27,000	378,000	378,000	378,000	378,000	17,723	350,004	350,004	(27,996)	(27,996)
1991	27,000	405,000	405,000	405,000	405,000	29,316	379,320	379,320	(25,680)	(25,680)
1992	27,000	432,000	432,000	432,000	432,000	28,868	408,188	408,188	(23,812)	(23,812)
1993	27,000	459,000	459,000	459,000	459,000	32,000	440,188	440,188	(18,812)	(18,812)
1994	27,000	486,000	486,000	486,000	486,000	23,760	463,948	463,948	(22,052)	(22,052)
1995	27,000	513,000	513,000	513,000	513,000	32,000	495,948	495,948	(17,052)	(17,052)
1996	27,000	540,000	540,000	540,000	540,000	32,000	527,948	527,948	(12,052)	(12,052)
1997	27,000	567,000	567,000	567,000	567,000	32,000	559,948	559,948	(7,052)	(7,052)
1998	27,000	594,000	594,000	594,000	594,000	32,000	591,948	591,948	0	0
1999	27,000	621,000	621,000	621,000	621,000	29,052	621,000	621,000	0	0
2000	27,000	648,000	648,000	648,000	648,000	27,000	648,000	648,000	0	0
2001	27,000	675,000	675,000	675,000	675,000	15,670	663,670	663,670	(11,330)	(11,330)
2002	27,000	702,000	702,000	702,000	702,000	16,270	681,940	681,940	(20,060)	(20,060)
2003	27,000	729,000	729,000	729,000	729,000	27,115	709,055	709,055	(19,945)	(19,945)

Year	Basic Contract Amount		Cumulative Contract Amount		Basic Contract Delivered		Cumulative Contract Delivery		Basic Contract Balance	
	Amount	20,000	Amount	20,000	Amount	4,673	Amount	4,673	Amount	(15,327)
1977	20,000	20,000	20,000	20,000	20,000	4,673	4,673	4,673	15,327	(15,327)
1978	20,000	40,000	40,000	40,000	40,000	28,363	28,363	28,363	(11,637)	(11,637)
1979	20,000	60,000	60,000	60,000	60,000	24,122	52,485	52,485	(7,515)	(7,515)
1980	20,000	80,000	80,000	80,000	80,000	23,403	75,888	75,888	(4,112)	(4,112)
1981	20,000	100,000	100,000	100,000	100,000	23,700	99,588	99,588	(412)	(412)
1982	20,000	120,000	120,000	120,000	120,000	20,412	120,000	120,000	0	0
1983	20,000	140,000	140,000	140,000	140,000	4,587	124,587	124,587	(15,413)	(15,413)
1984	20,000	160,000	160,000	160,000	160,000	144,587	144,587	144,587	(15,413)	(15,413)
1985	20,000	180,000	180,000	180,000	180,000	20,000	164,587	164,587	(15,413)	(15,413)
1986	20,000	200,000	200,000	200,000	200,000	184,587	184,587	184,587	(15,413)	(15,413)
1987	20,000	220,000	220,000	220,000	220,000	204,587	204,587	204,587	(15,413)	(15,413)
1988	20,000	240,000	240,000	240,000	240,000	11,763	216,350	216,350	(23,650)	(23,650)
1989	20,000	260,000	260,000	260,000	260,000	16,635	232,985	232,985	(27,015)	(27,015)
1990	20,000	280,000	280,000	280,000	280,000	0	232,985	232,985	(47,015)	(47,015)
1991	20,000	300,000	300,000	300,000	300,000	20,000	252,985	252,985	(47,015)	(47,015)
1992	20,000	320,000	320,000	320,000	320,000	9,089	262,074	262,074	(57,926)	(57,926)
1993	20,000	340,000	340,000	340,000	340,000	29,332	291,406	291,406	(48,594)	(48,594)
1994	20,000	360,000	360,000	360,000	360,000	18,348	309,754	309,754	(50,246)	(50,246)
1995	20,000	380,000	380,000	380,000	380,000	32,733	342,487	342,487	(37,513)	(37,513)
1996	20,000	400,000	400,000	400,000	400,000	36,618	366,187	366,187	(33,813)	(33,813)
1997	20,000	420,000	420,000	420,000	420,000	23,700	389,887	389,887	(30,113)	(30,113)
1998	20,000	440,000	440,000	440,000	440,000	23,700	413,587	413,587	(26,413)	(26,413)
1999	20,000	460,000	460,000	460,000	460,000	23,700	437,287	437,287	(22,713)	(22,713)
2000	20,000	480,000	480,000	480,000	480,000	20,000	457,287	457,287	(22,713)	(22,713)
2001	20,000	500,000	500,000	500,000	500,000	11,610	468,897	468,897	(31,103)	(31,103)
2002	20,000	520,000	520,000	520,000	520,000	8,659	477,556	477,556	(42,444)	(42,444)
2003	20,000	540,000	540,000	540,000	540,000	20,000	497,556	497,556	(42,444)	(42,444)

Year	Basic Contract Amount		Cumulative Contract Amount		Basic Contract Delivered		Cumulative Contract Delivery		Basic Contract Balance	
	Amount	3,000	Amount	3,000	Amount	449	Amount	449	Amount	(2,551)
1977	3,000	3,000	3,000	3,000	3,000	449	449	449	2,551	(2,551)
1978	3,000	6,000	6,000	6,000	6,000	3,999	3,999	3,999	(2,001)	(2,001)
1979	3,000	9,000	9,000	9,000	9,000	3,550	7,549	7,549	(1,451)	(1,451)
1980	3,000	12,000	12,000	12,000	12,000	3,550	11,099	11,099	(901)	(901)
1981	3,000	15,000	15,000	15,000	15,000	3,550	14,649	14,649	(351)	(351)
1982	3,000	18,000	18,000	18,000	18,000	3,351	18,000	18,000	0	0
1983	3,000	21,000	21,000	21,000	21,000	600	18,600	18,600	(2,400)	(2,400)
1984	3,000	24,000	24,000	24,000	24,000	3,000	21,600	21,600	(2,400)	(2,400)
1985	3,000	27,000	27,000	27,000	27,000	3,000	24,600	24,600	(2,400)	(2,400)
1986	3,000	30,000	30,000	30,000	30,000	3,000	27,600	27,600	(2,400)	(2,400)
1987	3,000	33,000	33,000	33,000	33,000	3,000	30,600	30,600	(2,400)	(2,400)
1988	3,000	36,000	36,000	36,000	36,000	1,764	32,364	32,364	(3,636)	(3,636)
1989	3,000	39,000	39,000	39,000	39,000	2,495	34,859	34,859	(4,141)	(4,141)
1990	3,000	42,000	42,000	42,000	42,000	0	34			

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

Basic Contract

Year: 2003

Quantities in acre-feet

	NORTH KERN WSD		CAWELO WD		KERN-TULARE WD		RAG GULCH WD		MONTH TOTALS	
	Basic	Accum.	Basic	Accum.	Basic	Accum.	Basic	Accum.	Basic	Accum.
January	0	0 1)	115	115	0	0	0	0	115	115
February	0	0	0	115	0	0	0	0	0	115
March	0	0	2,344	2,459	2,248	2,248	337	337	4,929	5,044
April	0	0	2,603	5,062	2,641	4,889	396	733	5,640	10,684
May	0	0	5,853	10,915	3,515	8,404	527	1,260	9,895	20,579
June	5,000	5,000	5,400	16,315	1,527	9,931	230	1,490	12,157	32,736
July	10,000	15,000	5,147	21,462 2)	68	9,999 2)	10	1,500	15,225	47,961
August	5,000	20,000	5,653	27,115 2)	6,207	16,206 2)	931	2,431	17,791	65,752
September	0	20,000	0	27,115 2)	3,794	20,000 2)	569	3,000	4,363	70,115
October	0	20,000	0	27,115	0	20,000	0	3,000	0	70,115
November	0	20,000	0	27,115	0	20,000	0	3,000	0	70,115
December	0	20,000	0	27,115	0	20,000	0	3,000	0	70,115
<b>Year Total</b>	<b>20,000</b>		<b>27,115</b>		<b>20,000</b>		<b>3,000</b>		<b>70,115</b>	

Note: 1) Includes water delivered as per terms of City of Bakersfield/Cawelo Water District letter agreement dated May 16, 2002.  
2) Includes Isabella Reservoir evaporation loss attributable to unused contract.

City of Bakersfield Diverted to North Kern WSD

Year: 2003

DISCHARGE IN CUBIC FEET PER SECOND

(Basic Contract)

(Does not include deliveries into Isabella Reservoir storage)

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

**City of Bakersfield Diverted to North Kern WSD  
(Miscellaneous)**

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	18	0	0	0	0	0	0	0	0	0	0
2	0	17	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	8	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	7	0	0	0	0	0	0	0	0	0	0
15	0	15	0	0	0	0	0	0	0	0	0	0
16	0	18	0	0	0	0	0	0	0	0	0	0
17	0	18	0	0	0	0	0	0	0	0	0	0
18	0	14	0	0	0	0	0	0	0	0	0	0
19	0	15	0	0	0	0	0	0	0	0	0	0
20	0	15	0	0	0	0	0	0	0	0	0	0
21	0	14	0	0	0	0	0	0	0	0	0	0
22	0	15	0	0	0	0	0	0	0	0	0	0
23	0	13	0	0	0	0	0	0	0	0	0	0
24	0	15	0	0	0	0	0	0	0	0	0	0
25	0	18	0	0	0	0	0	0	0	0	0	0
26	0	14	0	0	0	0	0	0	0	0	0	0
27	0	13	0	0	0	0	0	0	0	0	0	0
28	0	11	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
<b>TOTAL</b>	0	258	0	0	0	0	0	0	0	0	0	0
<b>MAXIMUM DAY</b>	0	18	0	0	0	0	0	0	0	0	0	0
<b>MINIMUM DAY</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>MEAN</b>	0	9	0	0	0	0	0	0	0	0	0	0
<b>TOTAL AC. FT.</b>	0	512	0	0	0	0	0	0	0	0	0	0
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>258</b>	<b>MAX.,</b>	<b>18</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>1</b>	<b>TOTAL AC.-FT.,</b>	<b>512</b>		

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

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

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

# CAWELO WATER DISTRICT OPERATIONS

Year: 2003

Quantities in acre-feet

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<b>+ Cawelo WD via Pump Station "B"</b>	<b>204</b>	<b>500</b>	<b>2,128</b>	<b>2,271</b>	<b>5,831</b>	<b>10,253</b>	<b>11,209</b>	<b>10,114</b>	<b>7,390</b>	<b>6,039</b>	<b>972</b>	<b>174</b>	<b>57,085</b>
+ 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	0	87	0	0	95	264	0	446
+ Lerdo Delivery Gate No. 8-0-15	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Lerdo Delivery Gate No. 8-0-22	0	0	20	125	113	244	155	137	55	18	36	0	903
+ Lerdo Delivery Gate No. 8-0-25	0	0	40	10	40	83	67	42	50	16	89	0	437
+ Lerdo Delivery Gate No. 8-0-100	0	0	6	10	14	14	16	16	12	0	0	0	88
+ 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	46	59	89	143	212	288	196	89	87	67	0	1,226
+ 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	6	12	18	24	28	22	20	18	2	0	152
+ Lerdo Delivery Gate No. 8-23-006	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>+ Total Lerdo Gate Deliveries</b>	<b>0</b>	<b>48</b>	<b>131</b>	<b>246</b>	<b>328</b>	<b>577</b>	<b>591</b>	<b>413</b>	<b>226</b>	<b>234</b>	<b>458</b>	<b>0</b>	<b>3,252</b>
+ Beardsley Canal Loss	14	34	61	58	61	60	61	61	60	61	54	8	593
+ Lerdo Loss	2	6	24	28	65	113	123	109	77	65	16	2	630
<b>+ Total Loss</b>	<b>16</b>	<b>40</b>	<b>85</b>	<b>86</b>	<b>126</b>	<b>173</b>	<b>184</b>	<b>170</b>	<b>137</b>	<b>126</b>	<b>70</b>	<b>10</b>	<b>1,223</b>
<b>= Total Diverted for Cawelo WD</b>	<b>220</b>	<b>588</b>	<b>2,344</b>	<b>2,603</b>	<b>6,285</b>	<b>11,003</b>	<b>11,984</b>	<b>10,697</b>	<b>7,753</b>	<b>6,399</b>	<b>1,500</b>	<b>184</b>	<b>61,560</b>

**Cawelo Water District Source of Supply:**

+ City of Bakersfield Basic Contract	0	0	2,039	2,496	5,853	5,400	5,147	5,653	0	0	0	0	26,588
+ City of Bakersfield Miscellaneous	220	373	0	0	0	0	0	0	0	0	423	164	1,200
+ City of Bakersfield Non-Kern River	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	0	0	0	0	0	0
+ Sunview Vineyards Well	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Paramount Farming Company Well	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Buena Vista WSD State Exchange	0	215	0	0	20	2,134	0	964	3,412	6,399	1,077	0	14,221
+ Buena Vista WSD Operational Exchange	0	0	0	0	0	1,813	4,145	2,882	0	0	0	0	8,840
+ North Kern WSD Exchange	0	0	0	0	412	53	2,692	34	0	0	0	0	3,191
+ Improvement District #4 Exchange	0	0	0	0	0	0	0	1,164	4,341	0	0	0	5,505
+ via CVC Conduit "A"	0	0	305	107	0	1,603	0	0	0	0	0	0	2,015
+ North Kern WSD Non-Kern River	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>= Total Cawelo Water District Supply</b>	<b>220</b>	<b>588</b>	<b>2,344</b>	<b>2,603</b>	<b>6,285</b>	<b>11,003</b>	<b>11,984</b>	<b>10,697</b>	<b>7,753</b>	<b>6,399</b>	<b>1,500</b>	<b>184</b>	<b>61,560</b>

Cawelo Water District Total Diverted via Beardsley-Lerdo Canal System

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14	0	19	60	72	176	201	196	156	100	47	23
2	0	0	19	102	87	190	199	163	158	98	48	23
3	0	20	21	82	83	181	194	171	145	100	47	0
4	0	22	20	87	77	224	166	173	147	98	48	0
5	0	22	20	86	78	172	171	172	148	102	29	0
6	0	22	20	87	76	175	204	190	163	103	29	0
7	0	19	20	89	83	139	205	195	163	102	39	0
8	0	19	22	88	47	138	199	183	163	99	38	0
9	0	20	20	62	46	194	204	175	140	98	30	0
10	0	19	22	62	21	194	204	174	146	105	29	0
11	0	22	24	23	21	209	204	171	147	98	33	0
12	0	3	25	21	27	203	194	171	123	98	37	0
13	0	0	46	20	85	203	188	196	117	98	32	0
14	0	0	44	21	100	171	202	196	120	98	38	0
15	0	0	63	0	98	169	203	197	126	105	33	0
16	0	0	65	24	95	201	205	163	147	105	32	0
17	0	0	63	30	92	196	196	163	148	82	39	0
18	0	0	64	31	92	198	186	165	142	83	32	0
19	0	19	65	30	128	207	184	170	119	82	38	0
20	0	19	45	2	163	207	184	171	117	82	11	0
21	14	19	45	24	164	174	193	188	121	143	16	0
22	14	0	20	32	130	167	198	193	116	143	11	24
23	17	0	20	32	121	188	194	170	116	144	4	23
24	17	0	20	32	98	189	206	162	117	115	4	0
25	18	2	47	28	91	173	210	170	98	121	7	0
26	17	4	46	25	125	167	202	170	98	112	0	0
27	0	22	42	25	161	171	190	164	99	115	0	0
28	0	23	47	28	193	194	192	156	102	94	0	0
29	0	-	67	35	194	191	186	158	98	94	3	0
30	0	-	60	44	173	186	189	154	109	115	2	0
31	0	-	61	-	148	-	189	153	-	94	-	0
TOTAL	111	296	1,182	1,312	3,169	5,547	6,042	5,393	3,909	3,226	756	93
MAXIMUM DAY	18	23	67	102	194	224	210	197	163	144	48	24
MINIMUM DAY	0	0	19	0	21	138	166	153	98	82	0	0
MEAN	4	11	38	44	102	185	195	174	130	104	25	3
TOTAL AC. FT.	220	588	2,344	2,603	6,285	11,003	11,984	10,697	7,753	6,399	1,500	184
WHOLE YEAR:-	TOTAL,	31,036	MAX.,	224	MIN.,	0	MEAN,	85	TOTAL AC.FT.,	61,560		

Year: 2003

City of Bakersfield Diverted to Cawelo Water District  
(Basic Contract)  
(Does not include deliveries into Isabella Reservoir storage)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	19	30	72	176	89	111	0	0	0	0
2	0	0	19	80	87	190	88	95	0	0	0	0
3	0	0	21	80	83	181	81	103	0	0	0	0
4	0	0	20	87	77	224	58	105	0	0	0	0
5	0	0	20	86	78	129	62	104	0	0	0	0
6	0	0	20	87	76	110	95	122	0	0	0	0
7	0	0	20	89	83	74	96	127	0	0	0	0
8	0	0	22	88	47	73	87	115	0	0	0	0
9	0	0	20	62	46	129	93	107	0	0	0	0
10	0	0	22	62	21	129	93	106	0	0	0	0
11	0	0	24	23	21	144	99	103	0	0	0	0
12	0	0	25	21	27	138	89	103	0	0	0	0
13	0	0	46	20	85	135	75	132	0	0	0	0
14	0	0	44	21	100	103	89	132	0	0	0	0
15	0	0	63	0	98	101	90	133	0	0	0	0
16	0	0	65	24	95	133	93	99	0	0	0	0
17	0	0	63	30	92	128	84	99	0	0	0	0
18	0	0	64	31	92	130	75	102	0	0	0	0
19	0	0	65	30	128	139	71	106	0	0	0	0
20	0	0	45	2	163	139	71	108	0	0	0	0
21	0	0	45	24	164	17	81	124	0	0	0	0
22	0	0	20	32	130	0	85	130	0	0	0	0
23	0	0	20	32	121	0	82	106	0	0	0	0
24	0	0	20	32	98	0	93	99	0	0	0	0
25	0	0	47	28	91	0	99	106	0	0	0	0
26	0	0	46	25	125	0	91	73	0	0	0	0
27	0	0	42	25	161	0	78	0	0	0	0	0
28	0	0	47	28	193	0	80	0	0	0	0	0
29	0	-	34	35	194	0	74	0	0	0	0	0
30	0	-	0	44	103	0	77	0	0	0	0	0
31	0	-	0	-	0	-	77	0	-	-	-	0
TOTAL	0	0	1,028	1,258	2,951	2,722	2,595	2,850	0	0	0	0
MAXIMUM DAY	0	0	65	89	194	224	99	133	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	58	0	0	0	0	0
MEAN	0	0	33	42	95	91	84	92	0	0	0	0
TOTAL AC. FT.	0	0	2,039	2,496	5,853	5,400	5,147	5,653	0	0	0	0
WHOLE YEAR:-	TOTAL,	13,404	MAX.,	224	MIN.,	0	MEAN,	37	TOTAL AC.FT.,	26,588		

**City of Bakersfield Diverted for Cawelo Water District**  
**(Pursuant to terms of City/CWD Letter Agreement dated May 16, 2002)**      **Year: 2003**

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	43	0	0	0	0	0	0	0	0	0	0	0
2	3	0	0	0	0	0	0	0	0	0	0	0
3	7	0	0	0	0	0	0	0	0	0	0	0
4	5	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
<b>TOTAL</b>	58	0	0	0	0	0	0	0	0	0	0	0
<b>MAXIMUM DAY</b>	43	0	0	0	0	0	0	0	0	0	0	0
<b>MINIMUM DAY</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>MEAN</b>	2	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL AC. FT.</b>	115	0	0	0	0	0	0	0	0	0	0	0
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>58</b>	<b>MAX.,</b>	<b>43</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>0</b>	<b>TOTAL AC.FT.,</b>	<b>115</b>		

**City of Bakersfield Diverted to Cawelo Water District  
(Miscellaneous)**

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14	0	0	0	0	0	0	0	0	0	0	23
2	0	0	0	0	0	0	0	0	0	0	0	23
3	0	20	0	0	0	0	0	0	0	0	0	0
4	0	22	0	0	0	0	0	0	0	0	0	0
5	0	22	0	0	0	0	0	0	0	0	0	0
6	0	22	0	0	0	0	0	0	0	0	0	0
7	0	19	0	0	0	0	0	0	0	0	0	0
8	0	19	0	0	0	0	0	0	0	0	0	0
9	0	20	0	0	0	0	0	0	0	0	0	0
10	0	19	0	0	0	0	0	0	0	0	0	0
11	0	22	0	0	0	0	0	0	0	0	0	0
12	0	3	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	14	0
16	0	0	0	0	0	0	0	0	0	0	32	0
17	0	0	0	0	0	0	0	0	0	0	39	0
18	0	0	0	0	0	0	0	0	0	0	32	0
19	0	0	0	0	0	0	0	0	0	0	38	0
20	0	0	0	0	0	0	0	0	0	0	11	0
21	14	0	0	0	0	0	0	0	0	0	16	0
22	14	0	0	0	0	0	0	0	0	0	11	24
23	17	0	0	0	0	0	0	0	0	0	4	23
24	17	0	0	0	0	0	0	0	0	0	4	0
25	18	0	0	0	0	0	0	0	0	0	7	0
26	17	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	3	0
30	0	-	0	0	0	0	0	0	0	0	2	0
31	0	-	0	-	0	-	0	0	-	0	-	0
<b>TOTAL</b>	<b>111</b>	<b>188</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>213</b>	<b>93</b>
<b>MAXIMUM DAY</b>	<b>18</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>39</b>	<b>24</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>4</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>3</b>
<b>TOTAL AC. FT.</b>	<b>220</b>	<b>373</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>423</b>	<b>184</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>605</b>	<b>MAX.,</b>	<b>39</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>2</b>	<b>TOTAL AC.FT.,</b>	<b>1,200</b>		

Year: 2003

City of Bakersfield Diverted for Cawelo Water District  
(Miscellaneous)  
(Oilfield Dilution Water Diverted via Beardsley Canal)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	45
9	0	0	0	0	0	0	0	0	0	0	0	47
10	0	0	0	0	0	0	0	0	0	0	0	52
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	144
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	52
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	5
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	0	286
WHOLE YEAR:-	TOTAL,	144	MAX.,	52	MIN.,	0	MEAN,	0	TOTAL AC.FT.,	286		

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

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

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

**DISCHARGE IN CUBIC FEET PER SECOND**  
**Buena Vista WSD Diverted for Cawelo Water District**  
**(Kern River/SWP Exchange)**  
**Year: 2003**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	81	100	47	0
2	0	0	0	0	0	0	0	0	83	98	48	0
3	0	0	0	0	0	0	0	0	70	100	47	0
4	0	0	0	0	0	0	0	0	72	98	48	0
5	0	0	0	0	0	0	0	0	73	102	29	0
6	0	0	0	0	0	0	0	0	88	103	29	0
7	0	0	0	0	0	0	0	0	88	102	39	0
8	0	0	0	0	0	0	0	0	88	99	38	0
9	0	0	0	0	0	0	0	0	65	98	30	0
10	0	0	0	0	0	0	0	0	71	105	29	0
11	0	0	0	0	0	0	0	0	72	98	33	0
12	0	0	0	0	0	0	0	0	48	98	37	0
13	0	0	0	0	0	0	0	0	42	98	32	0
14	0	0	0	0	0	0	0	0	45	98	38	0
15	0	0	0	0	0	0	0	0	51	105	19	0
16	0	0	0	0	0	0	0	0	72	105	0	0
17	0	0	0	0	0	0	0	0	73	82	0	0
18	0	0	0	0	0	0	0	0	67	83	0	0
19	0	19	0	0	0	0	0	0	44	82	0	0
20	0	19	0	0	0	0	0	0	42	82	0	0
21	0	19	0	0	0	89	0	0	46	143	0	0
22	0	0	0	0	0	99	0	0	41	143	0	0
23	0	0	0	0	0	120	0	0	41	144	0	0
24	0	0	0	0	0	121	0	0	42	115	0	0
25	0	2	0	0	0	105	0	0	23	121	0	0
26	0	4	0	0	0	99	0	33	23	112	0	0
27	0	22	0	0	0	103	0	100	24	115	0	0
28	0	23	0	0	0	126	0	92	27	94	0	0
29	0	-	0	0	0	123	0	90	23	94	0	0
30	0	-	0	0	0	91	0	86	95	115	0	0
31	0	-	0	-	10	-	0	85	-	94	-	0
<b>TOTAL</b>	<b>0</b>	<b>108</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>1,076</b>	<b>0</b>	<b>486</b>	<b>1,720</b>	<b>3,226</b>	<b>543</b>	<b>0</b>
<b>MAXIMUM DAY</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>126</b>	<b>0</b>	<b>100</b>	<b>95</b>	<b>144</b>	<b>48</b>	<b>0</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23</b>	<b>82</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>0</b>	<b>16</b>	<b>57</b>	<b>104</b>	<b>18</b>	<b>0</b>
<b>TOTAL AC. FT.</b>	<b>0</b>	<b>215</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>2,134</b>	<b>0</b>	<b>964</b>	<b>3,412</b>	<b>6,399</b>	<b>1,077</b>	<b>0</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>7,169</b>	<b>MAX.,</b>	<b>144</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>20</b>	<b>TOTAL AC.FT.,</b>	<b>14,221</b>		

**Buena Vista WSD Diverted for Cawelo Water District**  
**(Per terms of BWWS/CWD June 17, 2003 Letter Agreement)**      **Year: 2003**

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	68	68	0	0	0	0
2	0	0	0	0	0	0	67	68	0	0	0	0
3	0	0	0	0	0	0	68	68	0	0	0	0
4	0	0	0	0	0	0	68	68	0	0	0	0
5	0	0	0	0	0	0	68	68	0	0	0	0
6	0	0	0	0	0	0	68	68	0	0	0	0
7	0	0	0	0	0	0	68	68	0	0	0	0
8	0	0	0	0	0	0	68	68	0	0	0	0
9	0	0	0	0	0	0	68	68	0	0	0	0
10	0	0	0	0	0	0	68	68	0	0	0	0
11	0	0	0	0	0	0	59	68	0	0	0	0
12	0	0	0	0	0	0	60	68	0	0	0	0
13	0	0	0	0	0	0	68	64	0	0	0	0
14	0	0	0	0	0	0	68	64	0	0	0	0
15	0	0	0	0	0	0	68	64	0	0	0	0
16	0	0	0	0	0	0	68	64	0	0	0	0
17	0	0	0	0	0	30	68	64	0	0	0	0
18	0	0	0	0	0	68	68	63	0	0	0	0
19	0	0	0	0	0	68	68	64	0	0	0	0
20	0	0	0	0	0	68	68	63	0	0	0	0
21	0	0	0	0	0	68	68	64	0	0	0	0
22	0	0	0	0	0	68	68	63	0	0	0	0
23	0	0	0	0	0	68	68	0	0	0	0	0
24	0	0	0	0	0	68	68	0	0	0	0	0
25	0	0	0	0	0	68	68	0	0	0	0	0
26	0	0	0	0	0	68	68	0	0	0	0	0
27	0	0	0	0	0	68	68	0	0	0	0	0
28	0	0	0	0	0	68	68	0	0	0	0	0
29	0	-	0	0	0	68	68	0	0	0	0	0
30	0	-	0	0	0	68	68	0	0	0	0	0
31	0	-	0	-	0	-	68	0	-	0	-	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>914</b>	<b>2,090</b>	<b>1,453</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MAXIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>68</b>	<b>68</b>	<b>68</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>	<b>67</b>	<b>47</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL AC. FT.</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,813</b>	<b>4,145</b>	<b>2,882</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>4,457</b>	<b>MAX.,</b>	<b>68</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>12</b>	<b>TOTAL AC.FT.,</b>	<b>8,840</b>		

Year: 2003

Cawelo Water District Diverted via Cross Valley Canal Conduit "A"

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	30	0	0	0	0	0	0	0	0
2	0	0	0	22	0	0	0	0	0	0	0	0
3	0	0	0	2	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	43	0	0	0	0	0	0
6	0	0	0	0	0	65	0	0	0	0	0	0
7	0	0	0	0	0	65	0	0	0	0	0	0
8	0	0	0	0	0	65	0	0	0	0	0	0
9	0	0	0	0	0	65	0	0	0	0	0	0
10	0	0	0	0	0	65	0	0	0	0	0	0
11	0	0	0	0	0	65	0	0	0	0	0	0
12	0	0	0	0	0	65	0	0	0	0	0	0
13	0	0	0	0	0	68	0	0	0	0	0	0
14	0	0	0	0	0	68	0	0	0	0	0	0
15	0	0	0	0	0	68	0	0	0	0	0	0
16	0	0	0	0	0	68	0	0	0	0	0	0
17	0	0	0	0	0	38	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	-	33	0	0	0	0	0	0	0	0	0
30	0	-	60	0	0	0	0	0	0	0	0	0
31	0	-	61	-	0	-	0	0	-	0	-	0
TOTAL	0	0	154	54	0	808	0	0	0	0	0	0
MAXIMUM DAY	0	0	61	30	0	68	0	0	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	5	2	0	27	0	0	0	0	0	0
TOTAL AC. FT.	0	0	305	107	0	1,603	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	1,016	MAX.,	68	MIN.,	0	MEAN,	3	TOTAL AC.FT.,	2,015		

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

Quantities in acre-feet

Year: 2003

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
+ Total Basic Contract Diverted	0	0	2,585	3,037	4,042	1,757	78	7,138	4,363	0	0	0	23,000
- Kern-Tulare Water District	0	0	2,248	2,641	3,515	1,527	68	6,207	3,794	0	0	0	20,000
= Rag Gulch Water District	0	0	337	396	527	230	10	931	569	0	0	0	3,000
+ 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
<b>= Total Diverted</b>	<b>0</b>	<b>0</b>	<b>2,585</b>	<b>3,037</b>	<b>4,042</b>	<b>1,757</b>	<b>78</b>	<b>7,138</b>	<b>4,363</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23,000</b>

+ via Calloway Canal	0	0	1,765	2,174	2,961	1,468	0	0	0	0	0	0	8,368
+ River Transportation Loss/Spreading	0	0	659	843	938	0	0	5,861	0	0	0	0	8,301
+ Carrier Canal Recharge	0	0	161	20	143	0	0	0	0	0	0	0	324
+ via Berrenda Mesa Pipeline Turnout	0	0	0	0	0	0	0	16	0	0	0	0	16
+ via Cawelo Water District	0	0	0	0	0	0	0	1,164	4,341	0	0	0	5,505
+ to NKWSD Isabella Reservoir storage	0	0	0	0	0	289	0	0	0	0	0	0	289
+ Isabella Reservoir Evaporation Loss	0	0	0	0	0	0	78	97	22	0	0	0	197
= Total Diverted to I.D. #4	0	0	2,585	3,037	4,042	1,757	78	7,138	4,363	0	0	0	23,000
- Kern-Tulare Water District	0	0	2,248	2,641	3,515	1,527	68	6,207	3,794	0	0	0	20,000
= Rag Gulch Water District	0	0	337	396	527	230	10	931	569	0	0	0	3,000

+ 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

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

DISCHARGE IN CUBIC FEET PER SECOND

Year: 2003

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	45	53	50	51	0	82	65	0	0	0
2	0	0	40	62	41	58	0	76	65	0	0	0
3	0	0	38	43	37	59	0	81	66	0	0	0
4	0	0	23	46	43	58	0	64	65	0	0	0
5	0	0	22	41	54	51	0	69	65	0	0	0
6	0	0	31	41	55	47	0	68	65	0	0	0
7	0	0	43	34	54	50	0	77	66	0	0	0
8	0	0	40	37	37	50	0	70	65	0	0	0
9	0	0	43	56	55	53	0	72	65	0	0	0
10	0	0	35	53	63	49	0	61	65	0	0	0
11	0	0	26	66	40	47	0	80	66	0	0	0
12	0	0	35	46	50	47	0	164	65	0	0	0
13	0	0	23	36	53	24	0	140	65	0	0	0
14	0	0	57	44	57	0	0	141	65	0	0	0
15	0	0	45	36	65	0	0	209	66	0	0	0
16	0	0	23	48	76	0	0	151	65	0	0	0
17	0	0	18	39	59	0	0	157	65	0	0	0
18	0	0	23	40	76	0	0	142	65	0	0	0
19	0	0	29	37	74	0	0	131	66	0	0	0
20	0	0	38	53	57	0	0	157	65	0	0	0
21	0	0	37	45	69	0	0	158	65	0	0	0
22	0	0	40	42	62	0	0	159	65	0	0	0
23	0	0	37	19	67	0	0	122	66	0	0	0
24	0	0	42	33	67	0	0	55	65	0	0	0
25	0	0	43	41	69	0	0	56	65	0	0	0
26	0	0	46	48	60	0	0	56	65	0	0	0
27	0	0	41	57	57	0	0	56	66	0	0	0
28	0	0	31	39	67	0	0	56	65	0	0	0
29	0	-	35	50	59	0	0	59	65	0	0	0
30	0	-	45	46	53	0	0	59	12	0	0	0
31	0	-	59	-	46	-	0	59	-	0	-	0
TOTAL	0	0	1,133	1,331	1,772	644	0	3,087	1,904	0	0	0
MAXIMUM DAY	0	0	59	66	76	59	0	209	66	0	0	0
MINIMUM DAY	0	0	18	19	37	0	0	55	12	0	0	0
MEAN	0	0	37	44	57	21	0	100	63	0	0	0
TOTAL AC. FT.	0	0	2,248	2,641	3,515	1,277	0	6,123	3,776	0	0	0
WHOLE YEAR:-	TOTAL,	9,871	MAX.,	209	MIN.,	0	MEAN,	27	TOTAL AC.FT.,	19,580		

City of Bakersfield Diverted for Rag Gulch WD  
 (Rag Gulch WD/Improvement District No. 4 Exchange)  
 (Basic Contract) Year: 2003

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	7	8	7	8	0	12	10	0	0	0
2	0	0	6	9	6	9	0	11	10	0	0	0
3	0	0	6	7	5	9	0	12	9	0	0	0
4	0	0	4	7	7	9	0	10	10	0	0	0
5	0	0	3	6	8	8	0	10	10	0	0	0
6	0	0	5	6	8	7	0	10	10	0	0	0
7	0	0	7	5	8	7	0	11	9	0	0	0
8	0	0	6	6	6	8	0	11	10	0	0	0
9	0	0	6	8	8	8	0	11	10	0	0	0
10	0	0	5	8	10	7	0	9	10	0	0	0
11	0	0	4	10	6	7	0	12	9	0	0	0
12	0	0	5	7	8	7	0	25	10	0	0	0
13	0	0	3	5	8	2	0	21	10	0	0	0
14	0	0	9	7	9	0	0	21	10	0	0	0
15	0	0	7	5	10	0	0	31	9	0	0	0
16	0	0	3	7	11	0	0	23	10	0	0	0
17	0	0	3	6	9	0	0	23	10	0	0	0
18	0	0	3	6	11	0	0	21	10	0	0	0
19	0	0	4	6	11	0	0	21	9	0	0	0
20	0	0	6	8	8	0	0	24	10	0	0	0
21	0	0	5	7	10	0	0	24	10	0	0	0
22	0	0	6	6	10	0	0	24	10	0	0	0
23	0	0	5	3	10	0	0	19	9	0	0	0
24	0	0	6	5	10	0	0	8	10	0	0	0
25	0	0	7	6	10	0	0	8	10	0	0	0
26	0	0	7	7	9	0	0	8	10	0	0	0
27	0	0	6	9	9	0	0	8	9	0	0	0
28	0	0	5	6	10	0	0	8	10	0	0	0
29	0	-	5	7	9	0	0	9	10	0	0	0
30	0	-	7	7	8	0	0	9	2	0	0	0
31	0	-	9	-	7	-	0	9	-	0	-	0
TOTAL	0	0	170	200	266	96	0	463	285	0	0	0
MAXIMUM DAY	0	0	9	10	11	9	0	31	10	0	0	0
MINIMUM DAY	0	0	3	3	5	0	0	8	2	0	0	0
MEAN	0	0	5	7	9	3	0	15	10	0	0	0
TOTAL AC. FT.	0	0	337	396	527	191	0	918	565	0	0	0
WHOLE YEAR:-	TOTAL,	1,480	MAX.,	31	MIN.,	0	MEAN,	4	TOTAL AC.FT.,	2,934		

**IMPROVEMENT DISTRICT NO. 4**  
**KERN RIVER SUPPLY AND DIVERSION RECAP**  
*(Does not include deliveries into Isabella Reservoir storage)*

YEAR: 2003

Quantities in acre-feet

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
+ Treatment Plant via Calloway Canal	948	1017	1595	1980	2757	1341	0	0	0	0	0	0	9638
+ Calloway Canal Operational Losses	165	156	166	174	196	103	0	0	0	0	0	0	960
+ Calloway Canal Below '99"	0	34	4	20	8	24	0	0	0	0	0	0	90
+ Cross Valley Canal Filling Losses	0	0	0	0	0	0	0	0	0	0	0	0	0
+ 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	1113	1207	1765	2174	2961	1468	0	0	0	0	0	0	10688
+ 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
+ Via Kern Island	1154	0	0	0	0	0	0	0	0	0	0	0	1154
+ Truxtun Lakes	63	89	161	20	143	0	0	0	0	0	0	0	476
+ Arvin-Edison WSD Turnout	67	0	0	0	0	0	0	0	0	0	0	0	67
+ Carrier Canal Loss/Spdg.	1284	89	161	20	143	0	0	588	0	143	0	0	1697
+ Sub-total via Carrier Canal	766	698	659	843	938	0	0	5273	0	976	0	175	4810
+ River Loss/Spdg. Above Cally. Weir	6728	2050	0	0	0	0	0	5861	0	1119	0	2525	17552
+ River Spreading Below Cally. Weir	7494	2748	659	843	938	0	0	0	0	0	0	2700	22362
+ Sub-total River Loss/Spreading	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Via Pioneer Canal Inlet	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Via Pioneer North	0	0	0	0	0	0	0	0	0	0	0	113	113
+ Rio Vista Lake	0	0	0	0	0	0	0	16	0	0	0	0	16
+ Via Berrenda Mesa Pipeline	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	1164	4341	0	0	0	5505
+ Via Cawelo Water District	0	0	0	0	0	0	0	7041	4341	1119	0	2813	40381
= Improvement District #4 Total Diverted	9891	4044	2585	3037	4042	1468	0	7041	4341	1119	0	2813	40381
+ Kern-Tulare WD Basic Contract	0	0	2248	2641	3515	1277	0	6123	3776	0	0	0	19560
+ Rag Gulch WD Basic Contract	0	0	337	396	527	191	0	918	565	0	0	0	2934
+ Sub-total K-TWD/RGWD Basic Contract	0	0	2585	3037	4042	1468	0	7041	4341	0	0	0	22514
+ Kern-Tulare WD 2003 Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Rag Gulch WD 2003 Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0
+ Sub-total K-TWD/RGWD '03 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")	9891	2582	0	0	0	0	0	0	0	0	0	0	12473
+ North Kern WSD Exchange (Category "B")	0	1462	0	0	0	0	0	0	0	0	0	0	1462
+ Rosedale RBWSD Exchange	0	0	0	0	0	0	0	0	0	1119	0	0	2813
+ BYWSD Exchange	0	0	0	0	0	0	0	0	0	0	0	0	1119
+ 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	9891	4044	2585	3037	4042	1468	0	7041	4341	1119	0	2813	40381

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

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	154	0	0	0	0	0	0	0	0	0	0	0
2	195	0	0	0	14	0	0	0	0	0	0	0
3	186	0	0	0	81	0	0	0	0	0	0	0
4	115	0	0	0	138	0	0	0	0	0	0	0
5	181	0	0	0	143	0	0	0	0	0	0	0
6	178	0	0	0	137	0	0	0	0	0	0	0
7	184	0	0	0	136	81	0	0	0	0	0	0
8	184	0	0	0	138	177	0	0	0	0	0	0
9	191	0	0	0	137	61	0	0	0	0	0	0
10	184	0	0	0	122	0	0	0	0	0	0	0
11	189	0	0	0	103	0	0	0	0	0	0	0
12	190	0	0	0	102	0	0	0	0	0	0	0
13	139	0	0	0	101	0	0	0	0	0	0	0
14	34	0	0	0	157	0	0	0	0	0	0	0
15	12	0	0	0	183	0	0	0	0	0	0	0
16	0	0	0	0	158	0	0	0	0	0	0	0
17	0	0	0	0	145	0	0	0	0	0	0	0
18	0	0	0	0	104	0	0	0	0	0	0	0
19	0	0	0	0	97	0	0	0	0	0	0	0
20	0	0	0	0	58	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	-	0	0	0	0	0	0	0	0	0	0
30	0	-	0	0	0	0	0	0	0	0	0	0
31	0	-	0	-	0	-	0	0	-	0	-	0
<b>TOTAL</b>	<b>2,316</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,254</b>	<b>319</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MAXIMUM DAY</b>	<b>195</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>183</b>	<b>177</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>75</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>73</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL AC. FT.</b>	<b>4,594</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,471</b>	<b>633</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>4,889</b>	<b>MAX.,</b>	<b>195</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>13</b>	<b>TOTAL AC.FT.,</b>	<b>9,698</b>		

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

Quantities in acre-feet

Year: 2003

1	2	3	4	5	6	7		9	10	11	12	13
						(f)	(g)					
(a)	(b)	(c)	(d)	(e)	Total Kern River Delivered	Basic Contract		Miscellaneous		(h)		
Friant- Kern Inflow	Friant- Kern Delivered	SWP Inflow	SWP Delivered	River Canal Transportation Charge on Column 2		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	A-EWSD Exchange
January	0	0	0	0	4,594	594	0	0	0	0	0	0
February	0	0	0	0	169	0	169	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	4,471	0	0	0	0	0	0	0	0	0	0	4,471
June	633	0	0	0	0	0	0	0	0	0	0	633
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	0	0	0	0	0	0	0
December	0	0	0	0	2,813	2,813	0	0	0	0	0	0
<b>Total</b>	<b>5,104</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,576</b>	<b>3,407</b>	<b>4,000</b>	<b>169</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,104</b>

4,288	=	Current Escalator	=	4,288
	=	Totals	=	
		(per 1961 Agreement)		

1,946	0	2002
795	0	2001
758	0	2000
200	0	1999

3,868	0	Five Year Totals
774	0	Five Year Averages
2,277	2,277	Current Escalator
\$13.66	\$47.82	Current Price per acre-foot
\$10,572.84	\$0.00	Five Year Average Sales

- 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.

May 31, 2004 Payment

## ROSEDALE RBWSD DIVERSION RECAPITULATION

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

YEAR: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Rosedale Channel at Headgate +	4,594	0	0	0	4,471	633	0	0	0	0	0	0	9,698
City to Bothouse Farms -	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>for Rosedale RBWSD =</b>	<b>4,594</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,471</b>	<b>633</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,698</b>
- City Contract Water	4,594	0	0	0	0	0	0	0	0	0	0	0	4,594
= Other Water	0	0	0	0	4,471	633	0	0	0	0	0	0	5,104
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	787	0	0	0	0	0	0	0	787
Kern River Channel Spreading +	0	169	0	828	7,252	239	0	0	0	0	0	0	8,488
For Improvement District #4 +	0	0	0	0	0	0	0	0	0	0	0	2,813	2,813
<b>Total Diverted =</b>	<b>4,594</b>	<b>169</b>	<b>0</b>	<b>828</b>	<b>12,510</b>	<b>872</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,813</b>	<b>21,786</b>

City of Bakersfield Basic Contract +	4,594	0	0	0	0	0	0	0	0	0	0	2,813	7,407
City of Bakersfield Miscellaneous +	0	169	0	0	0	0	0	0	0	0	0	0	169
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
Arvin-Edison WSD Exchange +	0	0	0	828	12,510	872	0	0	0	0	0	0	14,210
<b>Total Supply =</b>	<b>4,594</b>	<b>169</b>	<b>0</b>	<b>828</b>	<b>12,510</b>	<b>872</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,813</b>	<b>21,786</b>

## STATUS OF CONTRACT

*per terms of*  
**ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT**  
**Service Agreement, dated August 31, 1961.**

Quantities in acre-feet

Year	TOTAL DELIVERED	FRIANT- KERN DELIVERED	TOTAL KERN RIVER DELIVERED	(1) KERN RIVER BASIC CONTRACT DELIVERED	KERN RIVER BASIC CONTRACT OBLIGATION	(2) CARRY FORWARD OVER (UNDER)	END of YEAR CONTRACT BALANCE (3)	
							(4)	60,000
1976	0	0	0	0	10,000	(10,000)	50,000	
1977	2,199	0	2,199	2,199	10,000	(7,801)	42,199	
1978	76,365	4,371	71,994	10,000	10,000	0	42,199	
1979	14,568	9,921	4,647	4,647	10,000	(5,353)	36,846	
1980	70,790	4,167	66,623	10,000	10,000	0	36,846	
1981	773	0	773	773	10,000	(9,227)	27,619	
1982	88,374	40,595	47,779	10,000	10,000	0	27,619	
1983	134,534	1,440	133,094	10,000	10,000	0	27,619	
1984	38,854	0	38,854	10,000	10,000	0	27,619	
1985	20,694	0	20,694	0	10,000	(10,000)	17,619	
1986	87,761	5,209	82,552	20,000	10,000	10,000	27,619	
1987	6,000	0	6,000	0	10,000	(10,000)	17,619	
1988	7,845	0	7,845	0	10,000	(10,000)	7,619	
1989	4,500	0	4,500	0	10,000	(10,000)	(2,381)	
1990	0	0	0	0	10,000	(10,000)	(12,381)	
1991	9,076	0	9,076	9,076	10,000	(924)	(13,305)	
1992	1,117	0	1,117	1,117	10,000	(8,883)	(22,188)	
1993	55,710	28,820	26,890	10,000	10,000	0	(22,188)	
1994	3,039	0	3,039	3,039	10,000	(6,961)	(29,149)	
1995	110,777	8,470	102,307	30,000	10,000	20,000	(9,149)	
1996	93,257	35,396	57,861	19,149	10,000	9,149	0	
1997	97,062	6,612	90,450	10,000	10,000	0	0	
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	
2003	12,680	5,104	7,576	7,407	10,000	(2,593)	(539)	

- (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**

Year: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>City Entitlement + or - Release</b>	<b>2,441</b>	<b>1,217</b>	<b>18,521</b>	<b>18,555</b>	<b>25,219</b>	<b>25,213</b>	<b>11,234</b>	<b>3,276</b>	<b>1,153</b>	<b>1,190</b>	<b>1,236</b>	<b>904</b>	<b>110,159</b>
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	115	0	2,344	2,603	5,853	5,400	5,147	5,653	0	0	0	0	27,115
Kern-Tulare Water District	0	0	2,248	2,641	3,515	1,527	68	6,207	3,794	0	0	0	20,000
Rag Gulch Water District	0	0	337	396	527	230	10	931	569	0	0	0	3,000
Rosedale Rio Bravo WSD	4,594	0	0	0	0	0	0	0	0	0	0	2,813	7,407
Kern River Canal & Irrigating Co.	0	0	0	0	0	0	0	0	0	0	0	0	0
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	151	122	277	374	770	1,190	1,333	899	723	527	237	188	6,791
River Transportation Loss	(1)	0	710	740	1,494	4,554	4,881	565	5	3	45	2	12,998
<b>Total Basic Commitments</b>	<b>4,875</b>	<b>138</b>	<b>5,960</b>	<b>6,814</b>	<b>12,236</b>	<b>18,006</b>	<b>21,566</b>	<b>19,376</b>	<b>5,182</b>	<b>595</b>	<b>324</b>	<b>3,029</b>	<b>98,101</b>

Total City Miscellaneous Water.....	12,058
Rosedale Rio Bravo WSD 1/3 Share.....	4,019

Misc. Water Delivered to RRBWSD	0	169	0	0	0	0	0	0	0	0	0	0	169
Del. under Art.11,Sec. 2.1 (i)(7)	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Misc. Delivered to RRBWSD</b>	<b>0</b>	<b>169</b>	<b>0</b>	<b>169</b>									

Over (Under) City Miscellaneous Water Obligation.....	(3,850)
Prior Year Miscellaneous Water Delivery Balance.....	(11,958)
Cumulative Miscellaneous Water Delivery Balance.....	(15,808)

**STATUS OF CONTRACT**  
**ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT**  
**Cumulative Miscellaneous Water Balance**  
**Pursuant to June 6, 1976 Agreement No. 76-80**

Quantities in acre-feet

Year	(A) TOTAL CITY MISCELLANEOUS WATER	(B) RRBWS 1/3 SHARE OF MISC.	(C) MISC. WATER DELIVERED TO RRBWS (1)	(D) OVER (UNDER) 1/3 SHARE	(E)
					END OF YEAR CUMULATIVE MISC. WATER BALANCE
					0
1977	0	0	0	0	0
1978	75,473	25,158	29,405	4,247	4,247
1979	34,885	11,628	0	(11,628)	(7,381)
1980	81,572	27,191	28,246	1,055	(6,326)
1981	1,634	545	0	(545)	(6,871)
1982	184,335	61,445	37,779	(23,666)	(30,537)
1983	64,686	21,562	12,292	(9,270)	(39,807)
1984	56,816	18,939	20,856	1,917	(37,890)
1985	50,537	16,846	20,694	3,848	(34,042)
1986	161,307	53,769	56,590	2,821	(31,221)
1987	0	0	6,000	6,000	(25,221)
1988	2,157	719	7,845	7,126	(18,095)
1989	3,838	1,279	4,500	3,221	(14,874)
1990	0	0	0	0	(14,874)
1991	0	0	0	0	(14,874)
1992	0	0	0	0	(14,874)
1993	49,610	16,537	16,890	353	(14,521)
1994	0	0	0	0	(14,521)
1995	91,532	30,511	57,383	26,872	12,351
1996	131,683	43,894	38,603	(5,291)	7,060
1997	196,451	65,484	49,226	(16,258)	(9,198)
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)
2003	12,058	4,019	169	(3,850)	(15,808)

Notes:

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

**KERN RIVER CANAL & IRRIGATING COMPANY**  
**CITY OF BAKERSFIELD**

Year: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	0	0	0	4	3,494	4,101	0	0	0	0	0	0	7,599
Release	0	119	0	0	0	0	0	0	0	0	0	0	119
<b>ENTITLEMENT + OR - RELEASE</b>	<b>0</b>	<b>119</b>	<b>0</b>	<b>4</b>	<b>3,494</b>	<b>4,101</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,718</b>
Oilfield Discharge	0	0	0	0	0	0	0	0	0	0	0	14	14
From City of Bakersfield	0	0	0	0	0	0	0	0	0	0	0	0	0
From NIKWSD	0	0	0	0	0	0	0	0	0	0	24	0	24
Into Isabella Storage	0	0	0	0	1,767	2,228	0	0	0	0	0	0	3,995
From Isabella Storage	75	785	837	966	297	371	1,273	760	793	349	260	208	6,974
To City of Bakersfield	0	0	0	0	0	0	0	0	0	0	0	0	0
To NIKWSD in Isabella Storage	0	0	0	0	0	0	0	0	0	0	24	0	24
<b>DIVERTED AT HEAD</b>	<b>75</b>	<b>904</b>	<b>837</b>	<b>970</b>	<b>2,024</b>	<b>2,244</b>	<b>1,273</b>	<b>760</b>	<b>793</b>	<b>349</b>	<b>260</b>	<b>222</b>	<b>10,711</b>
Irrigation Deliveries	63	784	720	841	839	885	1,113	627	645	271	189	174	7,151
NKWSD at Seventh Standard Line	0	0	0	0	1,048	1,230	0	0	0	0	0	0	2,278
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	12	120	117	129	137	129	160	133	148	78	71	48	1,282
<b>Irrigation Delivery Percentage</b>	<b>84%</b>	<b>87%</b>	<b>86%</b>	<b>87%</b>	<b>93%</b>	<b>94%</b>	<b>87%</b>	<b>83%</b>	<b>81%</b>	<b>78%</b>	<b>73%</b>	<b>78%</b>	<b>88%</b>
Into Isabella Storage	0	0	0	0	1,767	2,228	0	0	0	0	0	0	3,995
Isabella Evaporation Loss	44	30	44	28	36	123	139	103	77	44	16	10	694
From Isabella Storage	75	785	837	966	297	371	1,273	760	793	349	260	208	6,974
Transfer in Storage	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>End of Month Isabella Storage</b>	<b>4,548</b>	<b>3,733</b>	<b>2,852</b>	<b>1,858</b>	<b>3,292</b>	<b>5,026</b>	<b>3,614</b>	<b>2,751</b>	<b>1,881</b>	<b>1,488</b>	<b>1,212</b>	<b>994</b>	<b>994</b>

## SOUTH FORK DIVERSION RIGHT SUMMARY

Quantities in acre-feet

Year: 2003

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River Entitlement	615	555	44	115	234	244	12	2	83	0	0	109	2,013
Release	(615)	(361)	(26)	(27)	(45)	0	0	0	477	593	626	(91)	531
<b>Entitlement + or - Releases</b>	<b>0</b>	<b>194</b>	<b>18</b>	<b>88</b>	<b>189</b>	<b>244</b>	<b>12</b>	<b>2</b>	<b>560</b>	<b>593</b>	<b>626</b>	<b>18</b>	<b>2,544</b>
Into Isabella Storage	0	194	18	56	171	226	12	2	540	581	626	18	2,444
From Isabella Storage	0	0	0	0	0	0	18	26	0	0	0	18	62
Other	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total Deliveries</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>18</b>	<b>18</b>	<b>18</b>	<b>26</b>	<b>20</b>	<b>12</b>	<b>0</b>	<b>18</b>	<b>162</b>
Old South Fork	0	0	0	0	0	0	0	0	0	0	0	0	0
Panama Ranch	0	0	0	32	18	18	18	26	20	12	0	18	162
<b>Into Isabella Storage</b>	<b>0</b>	<b>194</b>	<b>18</b>	<b>56</b>	<b>171</b>	<b>226</b>	<b>12</b>	<b>2</b>	<b>540</b>	<b>581</b>	<b>626</b>	<b>18</b>	<b>2,444</b>
<b>From Isabella Storage</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>26</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>62</b>
<b>Transfer in Storage</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,382</b>	<b>0</b>	<b>2,382</b>
<b>End of Month Isabella Storage</b>	<b>600</b>	<b>794</b>	<b>812</b>	<b>868</b>	<b>1,039</b>	<b>1,265</b>	<b>1,259</b>	<b>1,235</b>	<b>1,775</b>	<b>2,356</b>	<b>600</b>	<b>600</b>	

Year: 2003

City of Bakersfield Diverted to California Water Service Company

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	1	1	1	2	2	5	14	18	11	9	20
2	0	1	1	2	4	6	7	14	18	10	7	21
3	0	1	1	1	3	4	7	14	17	10	9	26
4	1	0	1	2	3	2	3	15	18	11	11	22
5	0	1	1	1	3	5	2	13	18	11	10	24
6	0	1	1	1	2	1	2	12	19	11	9	26
7	0	1	1	1	3	2	6	12	19	10	9	21
8	1	0	1	2	3	2	7	14	20	10	9	19
9	1	1	1	2	2	2	6	13	17	9	9	20
10	0	0	1	1	3	3	8	13	18	9	11	21
11	1	1	1	1	2	6	7	18	18	9	14	19
12	0	1	1	1	3	4	5	27	18	9	16	17
13	1	1	0	2	2	4	6	28	17	9	17	15
14	0	0	2	2	4	5	8	28	18	11	18	20
15	1	1	1	1	2	2	7	26	18	11	17	19
16	1	0	1	2	4	3	8	25	14	10	20	0
17	0	1	1	1	2	5	9	24	12	11	21	0
18	1	1	1	1	3	5	7	22	12	11	21	1
19	1	1	1	2	2	4	7	18	12	9	28	17
20	0	0	1	1	4	5	8	23	12	0	31	15
21	1	1	1	1	2	1	18	25	12	0	31	10
22	1	0	1	2	4	2	20	23	12	0	30	19
23	1	1	1	1	3	2	19	23	13	0	30	20
24	0	0	1	2	3	5	21	22	13	0	30	19
25	1	1	2	2	3	2	15	22	16	0	23	15
26	1	0	1	2	4	5	17	18	13	1	18	14
27	1	2	1	1	2	5	14	18	11	10	18	13
28	1	1	2	2	3	2	14	16	13	15	18	14
29	1	-	1	2	3	2	15	18	13	9	18	15
30	0	-	1	1	3	5	13	18	10	15	19	17
31	1	-	2	-	2	-	13	18	-	9	-	18
TOTAL	18	20	34	44	88	103	304	594	459	251	531	517
MAXIMUM DAY	1	2	2	2	4	6	21	28	20	15	31	26
MINIMUM DAY	0	0	0	1	2	1	2	12	10	0	7	0
MEAN	1	1	1	1	3	3	10	19	15	8	18	17
TOTAL AC. FT.	36	39	68	87	175	204	604	1,179	911	497	1,054	1,025
WHOLE YEAR:-	TOTAL,	2,963	MAX.,	31	MIN.,	0	MEAN,	8	TOTAL AC.FT.,	5,879		

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

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	1	1	2	2	2	2	2	0	0
2	1	0	1	0	1	1	2	2	2	1	1	0
3	0	0	1	1	1	2	2	2	1	1	0	0
4	0	0	0	0	2	2	3	2	2	2	1	1
5	1	1	1	1	1	2	2	2	2	1	0	0
6	0	0	0	0	2	2	2	2	1	1	1	0
7	0	0	1	1	1	2	2	1	2	1	0	0
8	0	0	0	0	1	2	3	2	2	2	1	0
9	0	0	1	1	2	2	2	2	1	1	0	0
10	0	1	0	0	2	2	2	2	2	1	1	0
11	0	0	1	1	1	2	2	2	2	2	0	0
12	1	0	0	1	2	2	3	2	1	1	1	0
13	0	0	1	0	2	2	2	1	2	1	0	0
14	1	0	0	1	2	2	2	2	2	1	1	1
15	0	0	1	1	2	2	2	2	1	2	0	0
16	0	1	0	0	1	2	2	2	2	1	1	0
17	1	0	1	1	1	2	3	2	2	1	0	0
18	0	0	0	1	2	2	2	1	1	1	1	0
19	0	0	1	0	1	2	2	2	2	2	0	0
20	0	0	1	1	1	2	2	2	2	1	1	0
21	1	0	0	1	1	2	2	2	1	1	0	0
22	0	1	1	0	2	2	3	2	2	1	1	0
23	0	0	1	1	1	2	2	1	2	2	0	0
24	1	0	1	1	2	2	2	2	1	1	1	0
25	0	1	1	0	1	2	2	2	2	1	0	0
26	0	0	1	1	2	2	3	2	1	1	1	0
27	0	0	1	1	2	2	2	1	2	2	0	0
28	0	1	0	0	2	2	2	2	1	1	1	0
29	1	-	1	1	2	2	2	2	2	1	0	0
30	0	-	1	1	2	2	3	2	1	1	1	0
31	0	-	1	-	2	-	2	1	-	1	-	0
<b>TOTAL</b>	<b>8</b>	<b>6</b>	<b>20</b>	<b>19</b>	<b>48</b>	<b>59</b>	<b>69</b>	<b>56</b>	<b>49</b>	<b>39</b>	<b>15</b>	<b>2</b>
<b>MAXIMUM DAY</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>TOTAL AC. FT.</b>	<b>16</b>	<b>13</b>	<b>40</b>	<b>38</b>	<b>95</b>	<b>117</b>	<b>137</b>	<b>110</b>	<b>97</b>	<b>78</b>	<b>30</b>	<b>4</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>390</b>	<b>MAX.,</b>	<b>3</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>1</b>	<b>TOTAL AC.FT.,</b>	<b>775</b>		

Year: 2003

City of Bakersfield Diverted to Kern Valley Golf Course

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	1	1	1	0	0	0	0	0
2	0	0	0	0	0	0	0	1	1	0	0	1
3	0	0	0	0	0	0	1	0	0	1	0	0
4	0	0	0	0	0	1	0	1	1	0	1	0
5	0	0	0	0	0	0	1	0	0	0	0	0
6	0	0	0	1	1	1	0	0	1	1	0	1
7	1	0	0	0	0	1	1	1	0	0	0	0
8	0	0	0	0	1	0	0	0	0	0	0	0
9	0	0	0	0	0	1	1	1	0	1	0	0
10	0	0	0	1	0	0	0	0	1	0	0	0
11	0	0	0	0	1	1	1	0	0	0	0	0
12	0	0	0	0	0	0	0	1	1	0	0	1
13	0	0	1	0	1	1	1	0	0	1	0	0
14	0	0	0	0	0	0	0	1	1	0	0	0
15	0	0	0	0	1	1	1	0	0	0	0	0
16	0	0	0	0	0	0	0	1	1	0	0	0
17	0	0	0	0	1	1	1	0	0	0	0	0
18	0	0	0	1	0	0	0	0	1	0	0	1
19	0	0	0	0	1	1	1	1	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	1	0	1	1	1	1	1	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	1	1	1	1	0	0	0	0	0
24	0	1	0	0	0	0	0	1	1	0	0	0
25	0	0	0	0	1	1	1	0	0	0	0	0
26	0	0	0	0	0	0	0	1	0	0	0	0
27	0	0	1	1	1	0	1	0	1	0	0	0
28	0	0	0	0	0	1	0	0	0	0	0	0
29	0	-	0	0	0	1	1	1	0	1	0	0
30	0	-	1	1	1	0	0	0	1	0	0	0
31	0	-	0	-	1	-	1	1	-	0	-	0
TOTAL	1	1	4	6	14	15	16	13	12	5	1	4
MAXIMUM DAY	1	1	1	1	1	1	1	1	1	1	1	1
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	1	1	0	0	0	0	0
TOTAL AC. FT.	2	2	7	12	27	31	31	27	25	10	1	8
WHOLE YEAR:-	TOTAL,	92	MAX.,	1	MIN.,	0	MEAN,	0	TOTAL AC.FT.,	183		

**City of Bakersfield 2800 Acre Well Water Diverted to County of Kern  
(Pursuant to City/County Letter Agreement dated March 4, 2003)**

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	28	28	0	22	13	0	0
2	0	0	0	0	0	28	28	0	22	13	0	0
3	0	0	0	0	0	28	28	0	22	13	0	0
4	0	0	0	0	0	28	28	0	22	14	0	0
5	0	0	0	0	0	28	28	9	22	14	0	0
6	0	0	0	0	0	28	28	21	21	14	0	0
7	0	0	0	0	0	28	28	22	21	5	0	0
8	0	0	0	0	0	28	28	22	16	0	0	0
9	0	0	0	0	0	28	27	22	13	0	0	0
10	0	0	0	0	0	28	27	22	13	0	0	0
11	0	0	0	0	0	28	28	22	13	0	0	0
12	0	0	0	0	0	28	27	22	13	0	0	0
13	0	0	0	0	0	28	27	22	14	0	0	0
14	0	0	0	0	0	27	27	22	14	0	0	0
15	0	0	0	0	0	27	24	22	14	0	0	0
16	0	0	0	0	0	28	26	22	14	0	0	0
17	0	0	0	0	0	28	24	22	13	0	0	0
18	0	0	0	0	0	28	25	22	13	0	0	0
19	0	0	0	0	0	28	27	22	14	0	0	0
20	0	0	0	0	0	27	27	22	14	0	0	0
21	0	0	0	0	0	25	27	22	14	0	0	0
22	0	0	0	0	0	24	27	22	13	0	0	0
23	0	0	0	0	0	25	27	22	13	0	0	0
24	0	0	0	0	0	26	27	22	13	0	0	0
25	0	0	0	0	0	26	27	21	13	0	0	0
26	0	0	0	0	0	26	24	21	13	0	0	0
27	0	0	0	0	0	28	23	21	13	0	0	0
28	0	0	0	0	20	28	25	21	13	0	0	0
29	0	-	0	0	29	26	23	21	13	0	0	0
30	0	-	0	0	29	26	9	21	13	0	0	0
31	0	-	0	-	28	-	0	21	-	0	-	0
<b>TOTAL</b>	0	0	0	0	106	817	779	573	461	86	0	0
<b>MAXIMUM DAY</b>	0	0	0	0	29	28	28	22	22	14	0	0
<b>MINIMUM DAY</b>	0	0	0	0	0	24	0	0	13	0	0	0
<b>MEAN</b>	0	0	0	0	3	27	25	18	15	3	0	0
<b>TOTAL AC. FT.</b>	0	0	0	0	210	1,620	1,545	1,136	915	171	0	0
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>2,822</b>	<b>MAX.,</b>	<b>29</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>8</b>	<b>TOTAL AC.FT.,</b>	<b>5,597</b>		

**Total Water Spread in City of Bakersfield's 2800 Acre Recharge Facility**  
 (All Sources, All Entities) Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	18	0	0	0	0	0	0	0	0
2	0	0	0	17	0	0	0	0	0	0	0	0
3	0	0	0	1	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	40	0	0	0	0	0	0	0
11	0	0	0	0	72	0	0	0	0	0	0	0
12	0	0	0	0	82	0	0	0	0	0	0	0
13	0	0	0	0	85	0	0	0	0	0	0	0
14	0	0	0	0	61	0	0	0	0	0	0	0
15	0	0	0	0	31	0	0	0	0	0	0	0
16	0	0	0	0	16	0	0	0	0	0	0	0
17	0	0	0	0	10	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	123	0	0	0	0	0	0	0	0	0
29	0	-	39	0	0	0	0	0	0	0	0	0
30	0	-	67	0	0	0	0	0	0	0	0	0
31	0	-	68	-	0	-	0	0	-	0	-	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>297</b>	<b>36</b>	<b>397</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MAXIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>123</b>	<b>18</b>	<b>85</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>1</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL AC. FT.</b>	<b>0</b>	<b>0</b>	<b>589</b>	<b>71</b>	<b>787</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>730</b>	<b>MAX.,</b>	<b>123</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>2</b>	<b>TOTAL AC.FT.,</b>	<b>1,447</b>		

Year: 2003

Total Flow via the Berrenda Mesa Pipeline at Head

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	17	0	0	6	5	0	0	0	0
2	0	0	0	0	0	0	6	5	0	0	0	0
3	0	0	0	0	0	0	5	6	0	0	0	0
4	0	0	0	0	0	0	5	5	0	0	0	0
5	0	0	0	0	0	0	4	6	0	0	0	0
6	0	0	0	0	0	0	6	6	0	0	0	0
7	0	0	0	0	0	0	6	6	0	0	0	0
8	0	0	0	0	0	0	6	5	0	0	0	0
9	0	0	0	0	0	0	5	5	0	0	0	0
10	0	0	0	0	0	0	7	4	0	0	0	0
11	0	0	0	0	0	0	7	4	0	0	0	0
12	0	0	0	0	0	0	6	4	0	0	0	0
13	0	0	0	0	0	0	6	4	0	0	0	0
14	0	0	0	0	0	0	5	4	0	0	0	0
15	0	0	0	0	0	0	6	3	0	0	0	0
16	0	0	0	0	0	0	4	1	0	0	0	0
17	0	0	0	0	0	0	2	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	5	0	0	0	0	0	0
20	0	0	0	0	0	7	2	0	0	0	0	0
21	0	0	0	0	0	8	4	0	0	0	0	0
22	0	0	0	0	0	6	5	0	0	0	0	0
23	0	0	0	0	0	6	4	0	0	0	0	4
24	0	0	0	0	0	5	5	0	0	0	0	20
25	0	0	0	0	0	5	6	1	0	0	0	26
26	0	0	0	0	0	6	3	4	0	0	0	25
27	0	0	0	0	0	6	4	1	0	0	0	23
28	0	0	31	0	0	7	5	0	0	0	0	22
29	0	-	51	0	0	6	5	0	0	0	0	22
30	0	-	66	0	0	6	6	0	0	0	0	9
31	0	-	63	-	0	-	5	0	-	0	-	0
TOTAL	0	0	211	17	0	73	146	79	0	0	0	151
MAXIMUM DAY	0	0	66	17	0	8	7	6	0	0	0	26
MINIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	7	1	0	2	5	3	0	0	0	5
TOTAL AC. FT.	0	0	419	34	0	145	290	157	0	0	0	300
WHOLE YEAR:-	TOTAL,	677	MAX.,	66	MIN.,	0	MEAN,	2	TOTAL AC.FT.,	1,345		

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

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	18	0	0	0	0	0	0	0	0
2	0	0	0	17	0	0	0	0	0	0	0	0
3	0	0	0	1	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	123	0	0	0	0	0	0	0	0	0
29	0	-	39	0	0	0	0	0	0	0	0	0
30	0	-	67	0	0	0	0	0	0	0	0	0
31	0	-	68	-	0	-	0	0	-	0	-	0
<b>TOTAL</b>	0	0	297	36	0	0	0	0	0	0	0	0
<b>MAXIMUM DAY</b>	0	0	123	18	0	0	0	0	0	0	0	0
<b>MINIMUM DAY</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>MEAN</b>	0	0	10	1	0	0	0	0	0	0	0	0
<b>TOTAL AC. FT.</b>	0	0	589	71	0	0	0	0	0	0	0	0
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>333</b>	<b>MAX.,</b>	<b>123</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>1</b>	<b>TOTAL AC.FT.,</b>	<b>660</b>		

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

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	31	0	0	0	0	0	0	0	0
2	0	0	0	11	0	0	0	0	0	0	0	0
3	0	0	0	5	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	18	0	0	0	0	0	0
7	0	0	0	0	0	26	0	0	0	0	0	0
8	0	0	0	0	0	26	0	0	0	0	0	0
9	0	0	0	0	0	27	0	0	0	0	0	0
10	0	0	0	0	0	27	0	0	0	0	0	0
11	0	0	0	0	0	27	0	0	0	0	0	0
12	0	0	0	0	0	27	0	0	0	0	0	0
13	0	0	0	0	0	26	0	0	0	0	0	0
14	0	0	0	0	0	26	0	0	0	0	0	0
15	0	0	0	0	0	26	0	0	0	0	0	0
16	0	0	0	0	0	27	0	0	0	0	0	0
17	0	0	0	0	0	27	0	0	0	0	0	0
18	0	0	0	0	0	26	0	0	0	0	0	0
19	0	0	0	0	0	26	0	0	0	0	0	0
20	0	0	0	0	0	27	0	0	0	0	0	0
21	0	0	0	0	0	27	0	0	0	0	0	0
22	0	0	0	0	0	26	0	0	0	0	0	0
23	0	0	0	0	0	27	0	0	0	0	0	11
24	0	0	0	0	0	27	0	0	0	0	0	41
25	0	0	0	0	0	27	0	23	0	0	0	50
26	0	0	0	0	0	27	0	36	0	0	0	50
27	0	0	0	0	0	26	0	14	0	0	0	50
28	0	0	54	0	0	26	0	0	0	0	0	50
29	0	-	109	0	0	8	0	0	0	0	0	50
30	0	-	125	0	0	0	0	0	0	0	0	21
31	0	-	124	-	0	-	0	0	-	0	-	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>412</b>	<b>47</b>	<b>0</b>	<b>610</b>	<b>0</b>	<b>73</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>323</b>
<b>MAXIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>125</b>	<b>31</b>	<b>0</b>	<b>27</b>	<b>0</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>50</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>2</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>
<b>TOTAL AC. FT.</b>	<b>0</b>	<b>0</b>	<b>817</b>	<b>93</b>	<b>0</b>	<b>1,210</b>	<b>0</b>	<b>145</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>641</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>1,465</b>	<b>MAX.,</b>	<b>125</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>4</b>	<b>TOTAL AC.FT.,</b>	<b>2,906</b>		

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

**DISCHARGE IN CUBIC FEET PER SECOND**

**Year: 2003**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	8	0	0	85	67	0	0	0	66
2	0	0	0	0	0	0	87	67	0	0	0	68
3	0	0	0	0	0	0	79	65	0	0	0	65
4	0	0	0	0	0	0	68	66	0	0	0	65
5	0	0	0	0	0	0	69	65	0	0	0	66
6	0	0	0	0	0	0	68	69	0	0	0	67
7	0	0	0	0	0	0	46	69	0	0	0	67
8	0	0	0	0	0	0	44	69	0	0	0	68
9	0	0	0	0	0	53	70	68	0	0	0	66
10	0	0	0	0	0	80	67	70	0	0	0	69
11	0	0	0	0	0	77	69	72	0	0	0	70
12	0	0	0	0	0	74	68	54	0	0	0	68
13	0	0	0	0	0	75	69	12	0	0	0	67
14	0	0	0	0	0	79	69	0	0	0	0	70
15	0	0	0	0	0	87	69	0	0	0	0	60
16	0	0	0	0	0	87	69	0	0	0	0	61
17	0	0	0	0	0	78	71	0	0	0	52	77
18	0	0	0	0	0	74	69	0	0	0	87	86
19	0	0	0	0	0	78	70	0	0	0	81	84
20	0	0	0	0	0	83	73	0	0	0	89	90
21	0	0	0	0	0	85	74	0	0	0	95	78
22	0	0	0	0	0	85	76	0	0	0	74	67
23	0	0	0	0	0	85	74	0	0	0	98	68
24	0	0	0	0	0	87	73	0	0	0	98	26
25	0	0	0	0	0	86	75	0	0	0	85	0
26	0	0	0	0	0	88	68	0	0	0	66	0
27	0	0	0	0	0	87	69	0	0	0	67	0
28	0	0	44	0	0	84	69	0	0	0	67	0
29	0	-	98	0	0	84	69	0	0	0	65	0
30	0	-	97	0	0	86	69	0	0	0	65	0
31	0	-	98	-	0	-	70	0	-	0	-	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>337</b>	<b>8</b>	<b>0</b>	<b>1,782</b>	<b>2,165</b>	<b>813</b>	<b>0</b>	<b>0</b>	<b>1,089</b>	<b>1,639</b>
<b>MAXIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>98</b>	<b>8</b>	<b>0</b>	<b>88</b>	<b>87</b>	<b>72</b>	<b>0</b>	<b>0</b>	<b>98</b>	<b>90</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>70</b>	<b>26</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>53</b>
<b>TOTAL AC. FT.</b>	<b>0</b>	<b>0</b>	<b>668</b>	<b>16</b>	<b>0</b>	<b>3,535</b>	<b>4,294</b>	<b>1,613</b>	<b>0</b>	<b>0</b>	<b>2,160</b>	<b>3,251</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>7,833</b>	<b>MAX.,</b>	<b>98</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>21</b>	<b>TOTAL AC.FT.,</b>	<b>15,537</b>		

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

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	17	0	138	146	132	153	0	0	106
2	0	0	0	0	0	140	148	136	52	0	0	100
3	0	0	0	0	0	140	146	134	0	0	0	84
4	0	0	0	0	0	140	138	133	0	0	0	73
5	0	0	0	0	0	148	138	133	0	0	0	74
6	0	0	0	0	0	157	140	137	0	0	0	73
7	0	0	0	0	0	159	93	136	0	0	0	73
8	0	0	0	0	0	159	100	138	0	0	0	64
9	0	0	0	0	0	53	145	141	0	0	0	54
10	0	0	0	0	0	0	142	141	0	0	0	52
11	0	0	0	0	0	0	142	138	0	0	0	53
12	0	0	0	0	0	0	144	109	0	0	0	66
13	0	0	0	0	0	15	146	64	0	0	0	73
14	0	0	0	0	0	22	146	64	0	0	0	73
15	0	0	0	0	0	18	141	64	0	0	0	52
16	0	0	0	0	0	16	144	64	0	0	0	60
17	0	0	0	0	0	41	137	64	0	0	83	73
18	0	0	0	0	0	69	135	63	0	0	116	71
19	0	0	0	0	0	90	139	64	0	0	124	73
20	0	0	0	0	0	91	145	63	0	0	150	83
21	0	0	0	0	81	91	144	64	0	0	153	93
22	0	0	0	0	145	91	139	63	0	0	154	99
23	0	0	0	0	145	92	140	64	0	0	158	98
24	0	0	0	0	133	93	141	63	0	0	153	39
25	0	0	0	0	134	101	145	64	0	0	152	0
26	0	0	0	0	139	119	144	64	0	0	149	0
27	0	0	0	0	139	140	140	64	0	0	151	0
28	0	0	77	0	87	140	139	64	0	0	146	0
29	0	-	148	0	139	143	141	82	0	0	131	0
30	0	-	152	0	139	146	138	146	0	0	117	0
31	0	-	147	-	139	-	137	152	-	0	-	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>524</b>	<b>17</b>	<b>1,420</b>	<b>2,752</b>	<b>4,303</b>	<b>3,008</b>	<b>205</b>	<b>0</b>	<b>1,937</b>	<b>1,759</b>
<b>MAXIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>152</b>	<b>17</b>	<b>145</b>	<b>159</b>	<b>148</b>	<b>152</b>	<b>153</b>	<b>0</b>	<b>158</b>	<b>106</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>93</b>	<b>63</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>1</b>	<b>46</b>	<b>92</b>	<b>139</b>	<b>97</b>	<b>7</b>	<b>0</b>	<b>65</b>	<b>57</b>
<b>TOTAL AC. FT.</b>	<b>0</b>	<b>0</b>	<b>1,039</b>	<b>33</b>	<b>2,817</b>	<b>5,458</b>	<b>8,535</b>	<b>5,966</b>	<b>407</b>	<b>0</b>	<b>3,842</b>	<b>3,489</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>15,925</b>	<b>MAX.,</b>	<b>159</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>44</b>	<b>TOTAL AC.FT.,</b>	<b>31,586</b>		

# ***NORTH KERN WATER STORAGE DISTRICT***



*Willie Wright, former  
NKWSD Canal Superintendent*

# NORTH KERN WATER STORAGE DISTRICT

Quantities in acre-feet

Year: 2003

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
NKWS River Entitlement	6,808	6,050	1,436	3,634	24,041	26,541	449	133	12	0	0	597	69,701
Release	12,662	7,478	2,914	4,030	2,058	0	0	0	232	536	5,764	7,678	43,352
<b>ENTITLEMENT + OR - RELEASE</b>	<b>19,470</b>	<b>13,528</b>	<b>4,350</b>	<b>7,664</b>	<b>26,099</b>	<b>26,541</b>	<b>449</b>	<b>133</b>	<b>244</b>	<b>536</b>	<b>5,764</b>	<b>8,275</b>	<b>113,053</b>
From KRC & Irr. Company	0	0	0	0	1,048	1,230	0	0	0	0	24	0	2,302
From City of Bakersfield	0	512	2,859	4,298	712	5,000	10,000	5,000	0	0	216	0	28,597
From Isabella Reservoir Storage	0	1,653	0	48	0	6,341	23,669	13,960	7,701	8,138	24	141	61,675
From Cawelo WD	0	0	305	107	0	0	0	0	2,779	0	0	0	3,191
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	289	0	0	0	0	0	0	289
To La Hacienda, Inc.	0	0	0	0	0	0	0	0	0	0	0	0	0
To City of Bakersfield	3,383	0	36	0	0	0	0	0	0	0	0	2,756	6,175
To Improvement District #4	9,891	4,044	0	0	0	53	2,692	34	0	0	0	0	13,935
To Cawelo WD	0	0	0	0	412	0	0	0	0	0	0	0	3,191
Into Isabella Reservoir Storage	4,113	4,820	4,606	7,836	17,795	17,543	9,201	4,370	2,481	0	2,663	2,296	77,724
Other	0	0	0	0	0	0	0	0	0	0	0	6	6
<b>TOTAL DIVERTED FROM RIVER</b>	<b>2,083</b>	<b>6,829</b>	<b>2,872</b>	<b>4,281</b>	<b>9,652</b>	<b>21,805</b>	<b>22,225</b>	<b>14,689</b>	<b>8,243</b>	<b>8,674</b>	<b>3,365</b>	<b>3,370</b>	<b>108,088</b>
Loss to Seventh Standard Line	82	84	61	62	61	62	61	61	60	64	78	99	835
Oilfield Discharge	0	0	0	0	0	0	0	0	0	0	0	118	118
NKWS Deep Well Production	0	0	6,912	7,812	5,752	171	0	0	0	0	0	0	20,647
Non-District Deep Well Production	0	0	0	284	1,493	1,281	1,228	1,210	1,503	220	0	0	7,219
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
Friant-Kern Inflow to 8-1-0 Lateral	0	0	0	0	0	53	2,692	34	0	0	0	0	2,779
Kern River Canal & Irrigating Company	0	0	0	0	0	0	0	0	0	0	0	0	0
Rosedale Ranch Improvement District	0	0	0	0	0	175	246	67	0	0	0	0	488
Semiotropic WSD via Poso Creek	0	0	0	0	0	0	0	0	0	0	0	0	0
CVC Conduit "A" Inflow	0	0	486	0	0	0	0	0	0	0	387	0	853
<b>TOTAL DISTRICT SUPPLY</b>	<b>2,001</b>	<b>6,745</b>	<b>10,189</b>	<b>12,315</b>	<b>16,836</b>	<b>23,073</b>	<b>25,838</b>	<b>15,805</b>	<b>9,686</b>	<b>8,830</b>	<b>3,674</b>	<b>3,389</b>	<b>138,381</b>

Class 1 Irrigation Deliveries	725	3,345	4,969	6,917	9,545	15,535	17,348	11,032	6,614	5,975	1,069	359	83,433
Class 2 Irrigation Deliveries	252	1,693	1,574	2,894	2,603	4,318	4,750	3,186	1,207	1,237	504	274	24,432
Semiotropic WSD Irrigation Deliveries	0	0	0	0	0	0	0	0	0	0	0	0	0
Shafter-Wasco ID Irrigation Deliveries	0	0	0	0	0	0	0	279	0	0	0	0	279
<b>TOTAL IRRIGATION USE</b>	<b>977</b>	<b>5,038</b>	<b>6,543</b>	<b>9,751</b>	<b>12,148</b>	<b>19,853</b>	<b>22,098</b>	<b>14,497</b>	<b>7,821</b>	<b>7,212</b>	<b>1,573</b>	<b>633</b>	<b>108,144</b>
District Spreading Ponds (Kern)	0	0	0	0	0	0	0	0	0	0	143	754	897
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
<b>TOTAL DISTRICT SPREADING</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>143</b>	<b>754</b>	<b>897</b>
<b>TOTAL DISTRICT USE</b>	<b>977</b>	<b>5,038</b>	<b>6,543</b>	<b>9,751</b>	<b>12,148</b>	<b>19,853</b>	<b>22,098</b>	<b>14,497</b>	<b>7,821</b>	<b>7,212</b>	<b>1,716</b>	<b>1,387</b>	<b>109,041</b>
Total NKWS Canal Loss	1,024	1,707	3,646	2,564	4,688	3,220	3,740	1,308	1,865	1,618	1,958	2,002	29,340

Into Reservoir Storage	4,113	4,820	4,606	7,836	17,795	17,543	9,201	4,370	2,481	0	2,663	2,296	77,724
Reservoir Evaporation Loss	454	373	722	744	1,359	2,338	2,780	2,164	1,875	1,291	526	438	15,064
From Reservoir Storage	0	1,653	0	48	0	6,341	23,669	13,960	7,701	8,138	24	141	61,675
<b>END OF MONTH RESERVOIR STORAGE</b>	<b>50,674</b>	<b>53,468</b>	<b>57,352</b>	<b>64,396</b>	<b>80,832</b>	<b>89,696</b>	<b>72,448</b>	<b>60,694</b>	<b>53,599</b>	<b>44,170</b>	<b>46,283</b>	<b>48,000</b>	<b>48,000</b>

Year: 2003

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

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	65	57	94	112	176	413	625	534	350	272	97	73
2	0	102	77	115	188	507	609	434	369	273	82	26
3	0	128	58	108	130	543	609	455	346	268	97	3
4	0	148	55	116	128	569	601	518	330	226	100	2
5	0	206	48	128	117	475	535	499	318	240	95	4
6	0	214	44	138	147	427	592	470	285	234	105	3
7	0	230	42	156	132	321	629	466	310	225	115	0
8	0	210	50	180	124	412	609	455	298	225	112	45
9	0	165	42	149	106	580	588	387	292	224	107	47
10	0	166	51	124	122	547	583	403	288	229	111	52
11	0	196	77	105	154	527	556	447	292	223	117	0
12	0	86	76	158	86	520	522	453	286	231	82	0
13	0	96	80	156	145	492	545	478	266	254	80	0
14	0	140	90	124	191	414	620	492	282	253	85	0
15	47	155	148	159	239	458	602	490	279	242	94	0
16	60	149	182	139	254	528	575	443	303	238	71	14
17	59	150	175	159	262	602	565	469	296	216	59	75
18	108	156	161	177	296	588	559	473	261	221	41	110
19	91	199	153	218	370	615	492	430	228	217	41	93
20	72	187	110	208	410	606	527	445	215	230	40	112
21	54	145	121	194	417	604	614	451	228	294	53	129
22	53	158	141	116	433	620	621	372	269	311	75	140
23	53	154	144	120	439	633	610	330	276	310	79	95
24	65	184	101	85	424	624	618	365	290	284	96	73
25	64	102	88	51	426	603	590	375	271	290	91	131
26	67	102	115	36	462	605	497	371	256	308	59	107
27	77	98	151	33	475	609	525	356	234	260	64	123
28	67	112	120	53	475	597	615	350	222	241	72	156
29	73	-	58	105	473	594	593	319	254	253	69	158
30	70	-	23	184	413	611	528	302	271	262	74	147
31	54	-	23	-	313	-	535	350	-	221	-	123
TOTAL	1,199	4,195	2,898	3,906	8,527	16,244	17,889	13,182	8,465	7,775	2,463	2,041
MAXIMUM DAY	108	230	182	218	475	633	629	534	369	311	117	158
MINIMUM DAY	0	57	23	33	86	321	492	302	215	216	40	0
MEAN	39	150	93	130	275	541	577	425	282	251	82	66
TOTAL AC. FT.	2,378	8,321	5,748	7,747	16,913	32,219	35,482	26,146	16,789	15,422	4,885	4,048
WHOLE YEAR:-	TOTAL,	88,784	MAX.,	633	MIN.,	0	MEAN,	243	TOTAL AC.FT.,	176,098		

Year: 2003

Oilfield Discharge Diverted via Beardsley Canal (Total Flow)

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	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	26
9	0	0	0	0	0	0	0	0	0	0	0	26
10	0	0	0	0	0	0	0	0	0	0	0	15
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	67
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	0	26
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	2
TOTAL AC. FT.	0	0	0	0	0	0	0	0	0	0	0	132
WHOLE YEAR:-	TOTAL,	67	MAX.,	26	MIN.,	0	MEAN,	0	TOTAL AC.-FT.,	132		

Total Diverted via  
Cross Valley Canal Conduit "A" Year: 2003

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	30	0	0	0	0	0	0	0	0
2	0	0	0	22	0	0	0	0	0	0	0	0
3	0	0	0	2	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	43	0	0	0	0	0	0
6	0	0	0	0	0	65	0	0	0	0	0	0
7	0	0	0	0	0	65	0	0	0	0	0	0
8	0	0	0	0	0	65	0	0	0	0	0	0
9	0	0	0	0	0	65	0	0	0	0	0	0
10	0	0	0	0	0	65	0	0	0	0	0	0
11	0	0	0	0	0	65	0	0	0	0	0	0
12	0	0	0	0	0	65	0	0	0	0	0	0
13	0	0	0	0	0	68	0	0	0	0	0	0
14	0	0	0	0	0	68	0	0	0	0	0	0
15	0	0	0	0	0	68	0	0	0	0	0	0
16	0	0	0	0	0	68	0	0	0	0	0	0
17	0	0	0	0	0	38	0	0	0	0	86	0
18	0	0	0	0	0	0	0	0	0	0	160	0
19	0	0	0	0	0	0	0	0	0	0	70	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	17	0	0	0	0	0	0	0	0	0
29	0	-	102	0	0	0	0	0	0	0	0	0
30	0	-	135	0	0	0	0	0	0	0	0	0
31	0	-	135	-	0	-	0	0	-	0	-	0
<b>TOTAL</b>	0	0	389	54	0	808	0	0	0	0	316	0
<b>MAXIMUM DAY</b>	0	0	135	30	0	68	0	0	0	0	160	0
<b>MINIMUM DAY</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>MEAN</b>	0	0	13	2	0	27	0	0	0	0	11	0
<b>TOTAL AC. FT.</b>	0	0	771	107	0	1,603	0	0	0	0	627	0
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>1,567</b>	<b>MAX.,</b>	<b>160</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>4</b>	<b>TOTAL AC.FT.,</b>	<b>3,108</b>		

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

Year: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Kern River	2,378	8,321	5,748	7,747	16,913	32,219	35,482	26,146	16,789	15,422	4,885	4,048	176,098
Oilfield Discharge	0	0	0	0	0	0	0	0	0	0	0	132	132
C.V.C. Conduit "A"	0	0	771	107	0	1,603	0	0	0	0	627	0	3,108
<b>+ TOTAL BEARDSLEY CANAL SUPPLY</b>	<b>2,378</b>	<b>8,321</b>	<b>6,519</b>	<b>7,854</b>	<b>16,913</b>	<b>33,822</b>	<b>35,482</b>	<b>26,146</b>	<b>16,789</b>	<b>15,422</b>	<b>5,512</b>	<b>4,180</b>	<b>179,338</b>
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	192	149	173	129	213	200	133	156	0	0	46	1,391
KRC & Irr. Co. # 5 Lateral	0	589	383	436	548	476	710	370	430	152	156	119	4,369
KRC & Irr. Co. Bidart Boosters	63	73	244	301	238	267	302	196	147	139	56	31	2,057
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	12	50	61	60	61	58	61	61	60	58	48	26	616
<b>- TOTAL KRC &amp; IRR. CO. DIVERTED</b>	<b>75</b>	<b>904</b>	<b>837</b>	<b>970</b>	<b>976</b>	<b>1,014</b>	<b>1,273</b>	<b>760</b>	<b>793</b>	<b>349</b>	<b>260</b>	<b>222</b>	<b>8,433</b>
Kern River Supply	75	904	837	970	976	1,014	1,273	760	793	349	236	208	8,395
Oilfield Discharge Supply	0	0	0	0	0	0	0	0	0	0	0	14	14
C.V.C. Conduit "A" Supply	0	0	0	0	0	0	0	0	0	0	24	0	24
Cawelo WD via Pump Station "B"	204	500	2,128	2,271	5,831	10,253	11,209	10,114	7,390	6,039	972	174	57,085
Cawelo WD Lerdo Gate Deliveries	0	48	131	246	328	577	591	413	226	234	458	0	3,252
Lined Section Loss	14	34	61	58	61	60	61	61	60	61	54	8	593
Lerdo Canal Loss	2	6	24	28	65	113	123	109	77	65	16	2	630
<b>- TOTAL CAWELO WD DIVERTED</b>	<b>220</b>	<b>588</b>	<b>2,344</b>	<b>2,603</b>	<b>6,285</b>	<b>11,003</b>	<b>11,984</b>	<b>10,697</b>	<b>7,753</b>	<b>6,399</b>	<b>1,500</b>	<b>184</b>	<b>61,560</b>
Kern River Supply	220	588	2,039	2,496	6,285	9,400	11,984	10,697	7,753	6,399	1,284	184	59,329
Oilfield Discharge Supply	0	0	0	0	0	0	0	0	0	0	0	0	0
C.V.C. Conduit "A" Supply	0	0	305	107	0	1,603	0	0	0	0	216	0	2,231
Rosedale Ranch ID Diverted	0	0	0	0	0	175	246	67	0	0	0	0	488
Kern River Supply	0	0	0	0	0	175	246	67	0	0	0	0	488
C.V.C. Conduit "A" Supply	0	0	0	0	0	0	0	0	0	0	0	0	0
KRC & Irr. Co. Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0
Kern-Tulare WD/Rag Guich WD Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0
Lined Section Loss: NKWSD	82	84	61	62	61	62	61	61	60	64	78	99	835
<b>= NKWSD FROM LERDO CANAL</b>	<b>2,001</b>	<b>6,745</b>	<b>3,277</b>	<b>4,219</b>	<b>9,591</b>	<b>21,568</b>	<b>21,918</b>	<b>14,561</b>	<b>8,183</b>	<b>8,610</b>	<b>3,674</b>	<b>3,675</b>	<b>108,022</b>
Kern River Supply	2,083	6,829	2,872	4,281	9,652	21,630	21,979	14,622	8,243	8,674	3,365	3,656	107,886
Oilfield Discharge Supply	0	0	0	0	0	0	0	0	0	0	0	0	0
C.V.C. Conduit "A" Supply	0	0	466	0	0	0	0	0	0	0	387	118	971

DISCHARGE IN CUBIC FEET PER SECOND

Lerdo Canal at Seventh Standard Line (Total Flow)

Year: 2003

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	62	54	90	118	154	398	595	527	328	255	93	70
2	0	99	73	112	171	498	583	427	348	257	79	21
3	0	120	51	87	114	536	582	449	324	253	88	0
4	0	140	47	94	110	561	574	513	310	209	91	0
5	0	198	41	105	98	509	509	494	299	227	84	0
6	0	201	37	114	128	482	567	458	269	222	93	0
7	0	196	29	133	113	383	605	455	294	220	103	0
8	0	180	20	156	111	472	587	443	284	220	101	68
9	0	131	18	122	93	638	567	378	282	219	97	67
10	0	135	24	104	110	595	563	395	278	223	103	62
11	0	167	52	89	144	576	533	440	283	217	109	0
12	0	60	49	143	70	569	501	442	277	225	73	0
13	0	67	56	144	138	543	524	469	262	249	72	0
14	0	113	70	111	183	465	601	474	276	246	77	0
15	44	126	127	134	231	510	581	476	274	238	91	0
16	57	120	173	116	246	570	557	429	288	235	68	11
17	56	122	170	140	244	608	541	454	282	210	139	72
18	105	128	156	155	277	555	539	448	242	215	194	95
19	88	176	145	209	339	586	467	402	210	211	106	75
20	62	164	100	199	382	577	505	416	200	225	35	94
21	45	132	113	178	391	575	595	422	220	286	47	110
22	44	147	130	103	409	594	602	353	258	302	69	121
23	46	144	133	108	418	603	587	316	264	300	76	82
24	58	173	94	78	395	603	594	344	277	272	90	70
25	61	91	81	41	402	587	567	359	264	284	86	128
26	64	93	94	30	436	585	472	355	230	305	55	104
27	74	95	121	28	456	589	499	342	208	255	61	120
28	64	108	109	26	458	569	590	338	196	235	66	153
29	70	-	134	78	458	565	571	305	230	248	65	155
30	67	-	133	156	398	579	507	284	248	256	71	144
31	46	-	133	-	296	-	520	330	-	216	-	120
TOTAL	1,113	3,680	2,803	3,411	7,973	16,480	17,185	12,737	8,005	7,535	2,582	1,942
MAXIMUM DAY	105	201	173	209	458	638	605	527	348	305	194	155
MINIMUM DAY	0	54	18	26	70	383	467	284	196	209	35	0
MEAN	36	131	90	114	257	549	554	411	267	243	86	63
TOTAL AC. FT.	2,207	7,299	5,560	6,764	15,815	32,686	34,087	25,264	15,876	14,948	5,120	3,851
WHOLE YEAR:-	TOTAL,	85,446	MAX.,	638	MIN.,	0	MEAN,	234	TOTAL AC.FT.,	169,477		

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

Year: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Total Beardsley Canal Supply</b>	<b>2,378</b>	<b>8,321</b>	<b>6,519</b>	<b>7,854</b>	<b>16,913</b>	<b>33,822</b>	<b>35,482</b>	<b>26,146</b>	<b>16,789</b>	<b>15,422</b>	<b>5,512</b>	<b>4,180</b>	<b>179,338</b>
+ KRC & Irr. Co. Laterals	0	781	532	609	677	689	910	503	586	152	156	165	5,760
+ KRC & Irr. Co. Boosters	63	73	244	301	238	267	302	196	147	139	56	31	2,057
+ Lined Section Loss: KRC & Irr. Co.	12	50	61	60	61	58	61	61	60	58	48	26	616
<b>= KRC &amp; Irr. Co. from Beardsley</b>	<b>75</b>	<b>904</b>	<b>837</b>	<b>970</b>	<b>976</b>	<b>1,014</b>	<b>1,273</b>	<b>760</b>	<b>793</b>	<b>349</b>	<b>260</b>	<b>222</b>	<b>8,433</b>
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	14	34	61	58	61	60	61	61	60	61	54	8	593
Lined Section Loss: NKWSD	82	84	61	62	61	62	61	61	60	64	78	99	835
<b>Lerdo Canal Total Flow</b>	<b>2,207</b>	<b>7,299</b>	<b>5,560</b>	<b>6,764</b>	<b>15,815</b>	<b>32,686</b>	<b>34,087</b>	<b>25,264</b>	<b>15,876</b>	<b>14,948</b>	<b>5,120</b>	<b>3,851</b>	<b>169,477</b>
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	175	246	67	0	0	0	0	488
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	0	0	0	0	0	0	0
+ Cawelo WD Delivered at Sta. "B"	204	500	2,128	2,271	5,831	10,253	11,209	10,114	7,390	6,039	972	174	57,085
+ Cawelo WD 8-0 Deliveries	0	48	131	246	328	577	591	413	226	234	458	0	3,252
+ Lerdo Loss: to Station "B"	2	5	21	23	58	102	112	101	73	60	10	2	569
+ Lerdo Loss: 8-0 Deliveries	0	1	3	5	7	11	11	8	4	5	6	0	61
<b>= Cawelo WD Total from Lerdo</b>	<b>206</b>	<b>554</b>	<b>2,283</b>	<b>2,545</b>	<b>6,224</b>	<b>10,943</b>	<b>11,923</b>	<b>10,636</b>	<b>7,693</b>	<b>6,338</b>	<b>1,446</b>	<b>176</b>	<b>60,967</b>
<b>North Kern WSD from Lerdo</b>	<b>2,001</b>	<b>6,745</b>	<b>3,277</b>	<b>4,219</b>	<b>9,591</b>	<b>21,568</b>	<b>21,918</b>	<b>14,561</b>	<b>8,183</b>	<b>8,610</b>	<b>3,674</b>	<b>3,675</b>	<b>108,022</b>

DISCHARGE IN CUBIC FEET PER SECOND

Total Flow via the Calloway Canal Headgate

Year: 2003

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	20	20	20	44	34	59	0	0	0	0	0	0
2	13	20	30	43	29	67	0	0	0	0	0	0
3	15	25	27	34	29	68	0	0	0	0	0	0
4	19	24	10	32	26	67	0	0	0	0	0	0
5	20	24	35	36	30	59	0	0	0	0	0	0
6	20	20	38	26	35	54	0	0	0	0	0	0
7	20	19	28	41	45	57	0	0	0	0	0	0
8	11	25	26	53	40	58	0	0	0	0	0	0
9	9	26	23	50	39	61	0	0	0	0	0	0
10	19	27	28	36	44	56	0	0	0	0	0	0
11	20	25	18	39	47	54	0	0	0	0	0	0
12	20	27	25	42	47	54	0	0	0	0	0	0
13	24	20	29	46	53	26	0	0	0	0	0	0
14	12	20	33	31	49	0	0	0	0	0	0	0
15	15	20	32	34	50	0	0	0	0	0	0	0
16	15	20	27	27	50	0	0	0	0	0	0	0
17	15	20	24	25	50	0	0	0	0	0	0	0
18	20	20	18	33	51	0	0	0	0	0	0	0
19	17	16	20	39	55	0	0	0	0	0	0	0
20	13	11	28	33	52	0	0	0	0	0	0	0
21	20	24	31	35	57	0	0	0	0	0	0	0
22	19	22	31	28	57	0	0	0	0	0	0	0
23	20	20	25	27	53	0	0	0	0	0	0	0
24	20	23	29	41	57	0	0	0	0	0	0	0
25	20	24	31	36	56	0	0	0	0	0	0	0
26	19	23	26	32	56	0	0	0	0	0	0	0
27	16	23	32	41	57	0	0	0	0	0	0	0
28	23	20	31	36	63	0	0	0	0	0	0	0
29	23	-	47	33	68	0	0	0	0	0	0	0
30	24	-	44	43	61	0	0	0	0	0	0	0
31	20	-	44	-	53	-	0	0	-	0	-	0
TOTAL	561	608	890	1,096	1,493	740	0	0	0	0	0	0
MAXIMUM DAY	24	27	47	53	68	68	0	0	0	0	0	0
MINIMUM DAY	9	11	10	25	26	0	0	0	0	0	0	0
MEAN	18	22	29	37	48	25	0	0	0	0	0	0
TOTAL AC. FT.	1,113	1,207	1,765	2,174	2,961	1,468	0	0	0	0	0	0
WHOLE YEAR:-	TOTAL,	5,388	MAX.,	68	MIN.,	0	MEAN,	15	TOTAL AC.FT.,	10,688		

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

Year: 2003

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>FLOW AT HEADWORKS</b>	1,113	1,207	1,765	2,174	2,961	1,468	0	0	0	0	0	0	10,688
KCWA Amco Turnout	990	1,058	1,646	2,031	2,811	1,367	0	0	0	0	0	0	9,903
Seepage Loss	123	115	115	123	142	77	0	0	0	0	0	0	695
<b>FLOW AT MEASURING STATION</b>	0	34	4	20	8	24	0	0	0	0	0	0	90
CVC Turnout to Calloway	0	0	0	0	0	0	0	0	0	0	0	0	0
Seepage Loss	0	34	4	20	8	24	0	0	0	0	0	0	90
<b>FLOW AT BUCK OWENS WEIR</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
Friant-Kern Inflow	0	0	0	0	0	0	0	0	0	0	0	0	0
KRC & Irr. Co. 1-1-0 Inflow	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>FLOW AT CENTENNIAL WEIR</b>	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
Rosedale Ranch ID at Headworks	0	0	0	0	0	0	0	0	0	0	0	0	0
Seepage Loss	0	0	0	0	0	0	0	0	0	0	0	0	0
NKWSD 8-1-0 Inflow	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>FLOW AT SEVENTH STANDARD LINE</b> for Rosedale Ranch ID for North Kern WSD	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>KERN COUNTY WATER AGENCY / ID4:</b>													
Operating Loss	165	156	166	174	196	103	0	0	0	0	0	0	960
Turnout #4 to River	0	0	0	0	0	0	0	0	0	0	0	0	0
ID4 Treatment Plant	948	1,017	1,595	1,980	2,757	1,341	0	0	0	0	0	0	9,638
Cross Valley Canal Filling Losses	0	0	0	0	0	0	0	0	0	0	0	0	0
CVC Backflow (Net)	0	0	0	0	0	0	0	0	0	0	0	0	0
Spreading Below Measuring Station	0	34	4	20	8	24	0	0	0	0	0	0	90
<b>TOTAL DIVERTED</b>	1,113	1,207	1,765	2,174	2,961	1,468	0	0	0	0	0	0	10,688
<b>KERN RIVER CANAL &amp; IRRIGATING CO.:</b>													
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
<b>TOTAL DIVERTED</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ROSEDALE RANCH ID:</b>													
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
<b>TOTAL DIVERTED</b>	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>NORTH KERN WATER STORAGE DISTRICT:</b>													
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
<b>TOTAL DIVERTED</b>	0	0	0	0	0	0	0	0	0	0	0	0	0

North Kern Water Storage District  
Class 1 Irrigation Deliveries

Year: 2003

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	11	16	33	197	157	187	285	287	118	142	12	9
2	11	10	31	198	60	233	244	228	178	126	4	10
3	7	81	86	102	130	258	315	202	140	112	49	9
4	0	82	100	101	89	272	305	256	136	57	47	14
5	0	94	87	55	156	293	242	216	130	42	54	7
6	0	100	83	41	168	270	209	196	102	94	37	6
7	0	106	58	124	151	219	275	215	84	92	26	7
8	0	101	65	118	159	165	284	109	147	120	5	7
9	0	43	51	148	136	270	316	116	129	127	2	7
10	0	62	73	148	73	252	292	123	134	124	40	7
11	0	46	83	152	34	277	272	177	114	71	46	5
12	0	50	91	106	131	271	219	209	125	42	38	4
13	0	31	91	29	124	261	226	240	72	123	3	10
14	0	31	96	71	179	219	309	221	60	106	5	7
15	6	58	54	72	158	213	272	235	103	138	5	7
16	10	44	65	111	150	298	259	203	131	132	0	4
17	10	86	74	99	156	290	320	162	133	136	0	10
18	10	71	77	88	88	280	318	185	103	86	26	18
19	10	73	74	58	147	295	248	192	88	43	37	14
20	20	73	62	14	154	259	207	169	80	54	40	10
21	20	67	49	80	202	200	345	166	71	129	15	2
22	26	55	41	114	218	195	316	167	100	109	6	2
23	30	20	19	221	176	300	320	182	128	120	2	2
24	40	42	127	172	134	295	311	101	131	111	2	0
25	35	64	141	150	103	333	336	157	127	47	2	0
26	0	63	136	100	230	335	278	138	100	27	8	0
27	30	64	151	61	231	337	268	144	80	107	7	0
28	28	54	124	170	230	230	268	158	70	100	7	0
29	25	-	111	191	242	235	280	142	92	95	7	3
30	24	-	44	197	248	290	320	142	128	113	7	0
31	12	-	128	-	198	-	287	124	-	87	-	0
<b>TOTAL</b>	<b>365</b>	<b>1,687</b>	<b>2,505</b>	<b>3,488</b>	<b>4,812</b>	<b>7,832</b>	<b>8,746</b>	<b>5,562</b>	<b>3,334</b>	<b>3,012</b>	<b>539</b>	<b>181</b>
<b>MAXIMUM DAY</b>	<b>40</b>	<b>106</b>	<b>151</b>	<b>221</b>	<b>248</b>	<b>337</b>	<b>345</b>	<b>287</b>	<b>178</b>	<b>142</b>	<b>54</b>	<b>18</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>10</b>	<b>19</b>	<b>14</b>	<b>34</b>	<b>165</b>	<b>207</b>	<b>101</b>	<b>60</b>	<b>27</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>12</b>	<b>60</b>	<b>81</b>	<b>116</b>	<b>155</b>	<b>261</b>	<b>282</b>	<b>179</b>	<b>111</b>	<b>97</b>	<b>18</b>	<b>6</b>
<b>TOTAL AC. FT.</b>	<b>725</b>	<b>3,345</b>	<b>4,969</b>	<b>6,917</b>	<b>9,545</b>	<b>15,535</b>	<b>17,348</b>	<b>11,032</b>	<b>6,614</b>	<b>5,975</b>	<b>1,069</b>	<b>359</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>42,063</b>	<b>MAX.,</b>	<b>345</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>115</b>	<b>TOTAL AC.FT.,</b>	<b>83,433</b>		

North Kern Water Storage District  
Class 2 Irrigation Deliveries  
Year: 2003

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	10	15	16	40	29	30	92	79	43	17	6	8
2	10	9	7	52	34	21	90	48	25	21	0	7
3	5	25	20	45	28	61	77	63	24	16	6	8
4	0	26	16	22	23	71	81	74	19	17	10	8
5	0	29	18	18	45	67	87	99	17	7	8	6
6	0	22	19	17	38	88	79	55	13	14	8	4
7	0	37	28	47	39	80	82	69	12	14	14	4
8	0	30	25	48	33	74	74	74	7	9	5	4
9	0	17	17	59	47	74	81	48	40	7	5	4
10	0	37	35	67	27	58	72	42	33	7	5	8
11	0	44	42	37	30	67	81	64	26	9	12	5
12	0	50	35	33	44	52	89	64	23	3	10	3
13	0	35	29	15	47	58	72	73	17	9	16	4
14	0	39	29	76	35	72	97	70	13	18	14	3
15	0	29	14	75	32	58	90	71	17	21	14	0
16	10	4	13	81	34	69	93	50	15	35	14	0
17	10	19	21	75	28	76	82	36	15	30	12	4
18	5	19	24	78	24	73	102	59	14	26	8	4
19	6	34	32	74	52	89	70	71	14	22	8	4
20	3	43	38	11	59	84	69	30	31	33	12	5
21	3	38	24	64	37	82	67	24	14	30	14	5
22	3	34	19	76	70	80	79	58	13	10	4	4
23	3	20	15	74	51	76	68	40	29	40	0	6
24	5	35	21	32	53	92	68	40	22	31	10	4
25	4	50	18	51	48	91	79	38	23	32	7	4
26	0	50	32	18	63	85	68	32	17	30	5	4
27	5	31	38	16	44	81	59	28	17	20	5	4
28	8	33	42	52	51	91	70	30	9	30	9	3
29	10	-	36	46	62	85	70	28	31	26	7	3
30	12	-	20	30	57	92	58	29	15	25	6	4
31	15	-	51	-	48	-	49	20	-	15	-	4
<b>TOTAL</b>	127	854	794	1,429	1,312	2,177	2,395	1,606	608	624	254	138
<b>MAXIMUM DAY</b>	15	50	51	81	70	92	102	99	43	40	16	8
<b>MINIMUM DAY</b>	0	4	7	11	23	21	49	20	7	3	0	0
<b>MEAN</b>	4	31	26	48	42	73	77	52	20	20	8	4
<b>TOTAL AC. FT.</b>	252	1,693	1,574	2,834	2,603	4,318	4,750	3,186	1,207	1,237	504	274
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>12,318</b>	<b>MAX.,</b>	<b>102</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>34</b>	<b>TOTAL AC.FT.,</b>	<b>24,432</b>		

**North Kern Water Storage District**  
**Shafter-Wasco ID Exchange Deliveries**  
 Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	10	0	0	0	0
12	0	0	0	0	0	0	0	9	0	0	0	0
13	0	0	0	0	0	0	0	9	0	0	0	0
14	0	0	0	0	0	0	0	10	0	0	0	0
15	0	0	0	0	0	0	0	11	0	0	0	0
16	0	0	0	0	0	0	0	10	0	0	0	0
17	0	0	0	0	0	0	0	9	0	0	0	0
18	0	0	0	0	0	0	0	10	0	0	0	0
19	0	0	0	0	0	0	0	9	0	0	0	0
20	0	0	0	0	0	0	0	10	0	0	0	0
21	0	0	0	0	0	0	0	9	0	0	0	0
22	0	0	0	0	0	0	0	10	0	0	0	0
23	0	0	0	0	0	0	0	9	0	0	0	0
24	0	0	0	0	0	0	0	8	0	0	0	0
25	0	0	0	0	0	0	0	8	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	0	0	0	0	0	0	0	141	0	0	0	0
<b>MAXIMUM DAY</b>	0	0	0	0	0	0	0	11	0	0	0	0
<b>MINIMUM DAY</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>MEAN</b>	0	0	0	0	0	0	0	5	0	0	0	0
<b>TOTAL AC. FT.</b>	0	0	0	0	0	0	0	279	0	0	0	0
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>141</b>	<b>MAX.,</b>	<b>11</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>0</b>	<b>TOTAL AC.FT.,</b>	<b>279</b>	<b>0</b>	<b>0</b>

Year: 2003

Total Diverted to Rosedale Ranch Improvement District

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	4	4	0	0	0	0
2	0	0	0	0	0	4	4	4	0	0	0	0
3	0	0	0	0	0	4	4	2	0	0	0	0
4	0	0	0	0	0	4	4	4	0	0	0	0
5	0	0	0	0	0	4	4	4	0	0	0	0
6	0	0	0	0	0	4	4	4	0	0	0	0
7	0	0	0	0	0	0	4	4	0	0	0	0
8	0	0	0	0	0	4	4	0	0	0	0	0
9	0	0	0	0	0	0	4	4	0	0	0	0
10	0	0	0	0	0	4	4	4	0	0	0	0
11	0	0	0	0	0	4	4	0	0	0	0	0
12	0	0	0	0	0	4	4	0	0	0	0	0
13	0	0	0	0	0	4	4	0	0	0	0	0
14	0	0	0	0	0	0	4	0	0	0	0	0
15	0	0	0	0	0	4	4	0	0	0	0	0
16	0	0	0	0	0	4	4	0	0	0	0	0
17	0	0	0	0	0	4	4	0	0	0	0	0
18	0	0	0	0	0	4	4	0	0	0	0	0
19	0	0	0	0	0	0	4	0	0	0	0	0
20	0	0	0	0	0	4	4	0	0	0	0	0
21	0	0	0	0	0	4	4	0	0	0	0	0
22	0	0	0	0	0	0	4	0	0	0	0	0
23	0	0	0	0	0	0	4	0	0	0	0	0
24	0	0	0	0	0	2	4	0	0	0	0	0
25	0	0	0	0	0	5	4	0	0	0	0	0
26	0	0	0	0	0	5	4	0	0	0	0	0
27	0	0	0	0	0	3	4	0	0	0	0	0
28	0	0	0	0	0	2	4	0	0	0	0	0
29	0	-	0	0	0	3	4	0	0	0	0	0
30	0	-	0	0	0	4	4	0	0	0	0	0
31	0	-	0	-	0	-	4	0	-	0	-	0
TOTAL	0	0	0	0	0	88	124	34	0	0	0	0
MAXIMUM DAY	0	0	0	0	0	5	4	4	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	4	0	0	0	0	0
MEAN	0	0	0	0	0	3	4	1	0	0	0	0
TOTAL AC. FT.	0	0	0	0	0	175	246	67	0	0	0	0
WHOLE YEAR:-	TOTAL,	246	MAX.,	5	MIN.,	0	MEAN,	1	TOTAL AC.FT.,	488		

Year: 2003

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

DISCHARGE IN CUBIC FEET PER SECOND

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

Subj: **Fwd: North Kern - Paramount Exchange Status**  
Date: 6/26/2008 10:58:09 P.M. Afghanistan Standard Time  
From: [slafond@bakersfieldcity.us](mailto:slafond@bakersfieldcity.us)  
To: [Northkern@aol.com](mailto:Northkern@aol.com)

Dana - 2nd attempt. Does this answer your question?

Steve

>>> Steve Lafond 10/1/2007 2:45 PM >>>

Dana:

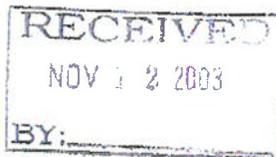
The attached should ring a bell. Unfortunately for us record keepers, the NKWSD/Paramount "imbalance" of 605 acre-feet of landowner deepwell pumping for 2003 was not made known to Central Records until March 15 of 2004 (via fax from North Kern to City) and was too late to be reflected in the published 2003 1st Point Hydrographic Annual Report. The 605 acre-foot adjustment was made in January 2004, albeit a footnote referencing your November 10, 2003 letter would have been helpful.

Was this a test? Did the "new" guy discover this?

Steve Lafond  
Hydrographic Supervisor  
City of Bakersfield Water Resources Department

# NORTH KERN WATER STORAGE DISTRICT

33380 Cawelo Avenue  
Bakersfield, CA 93308-9575  
Telephone (661) 393-2696



P. O. Box 81435  
Bakersfield, CA 93380-1435  
Facsimile (661) 393-6884

November 10, 2003

*NKERN  
EXCHANGE STATUS  
DEC 2003  
NK to Paramount  
WOSAF*

Paramount Farming Company  
33141 East Lerdo Highway  
Bakersfield, California 93308

Attention: Scott Hamilton

RE: Paramount Farming Company Water Exchange

Per our recent conversation, there is an imbalance in Class 2 Landowner deepwell pumping for 2003 per the "Agreement Between North Kern Water Storage District and Westside Mutual Water Company for Delivery of Well Water" dated May 1, 2003 and is shown to be 605 AcFt. on the attached tabulation.

It is agreed that said imbalance will be deducted from the long-term exchange balance between the District and Paramount Farming Company. It is also recognized that this reduction in the exchange balance in-lieu of landowner deepwell pumping is allowed as the landowner added to the long-term exchange balance during 2003 per the exchange Agreement dated October 15, 2003.

If you concur with the above please indicate by signing below.

Very truly yours,

DANA S. MUNN  
Engineer-Manager

Accepted and Agreed

By *[Handwritten Signature]*

Date 12/12/03

04-Nov-03

10:01 AM

Paramount Recap APRIL - OCTOBER 2003  
Class 2 Exchange With NKWSD

Date	Total Wells April	Total Wells May	Total Wells June	Total Wells July	Total Wells August	Total Wells September	Total Wells October	Grand Total Wells
1	2.7	2.7	3.6	2.7	2.7	3.6	2.7	18.0
2	2.7	2.7	2.7	2.7	3.6	2.7	2.7	17.1
3	3.6	2.7	2.7	3.6	2.7	2.7	2.7	18.0
4	3.6	2.7	2.7	3.6	2.7	2.7	3.6	18.9
5	2.7	2.7	2.7	3.6	2.7	2.7	3.6	18.0
6	2.7	2.7	2.7	3.6	2.7	3.6	2.7	18.0
7	2.7	2.7	3.6	2.7	2.7	3.6	2.7	18.0
8	2.7	2.7	3.6	2.7	2.7	2.7	2.7	17.1
9	2.7	2.7	2.7	2.7	3.6	2.7	2.7	17.1
10	3.6	2.7	2.7	2.7	3.6	2.7	2.7	18.0
11	2.7	2.7	2.7	2.7	2.7	2.7	3.6	18.0
12	2.7	2.7	2.7	3.6	2.7	3.6	2.7	18.0
13	2.7	2.7	2.7	3.6	2.7	3.6	2.7	18.0
14	2.7	2.7	3.6	2.7	2.7	3.6	2.7	18.0
15	2.7	2.7	3.6	2.7	2.7	2.7	2.7	17.1
16	2.7	2.7	3.6	2.7	3.6	2.7	2.7	17.1
17	3.6	2.7	2.7	2.7	3.6	2.7	2.7	18.0
18	3.6	2.7	2.7	2.7	2.7	2.7	2.7	18.0
19	2.7	2.7	2.7	3.6	2.7	2.7	3.6	18.0
20	2.7	2.7	2.7	3.6	2.7	2.7	3.6	18.0
21	2.7	2.7	3.6	2.7	2.7	2.7	2.7	17.1
22	2.7	2.7	3.6	2.7	2.7	3.6	2.7	18.0
23	2.7	2.7	3.6	2.7	2.7	2.7	2.7	17.1
24	3.6	2.7	2.7	2.7	3.6	2.7	2.7	17.1
25	2.7	2.7	2.7	2.7	2.7	2.7	3.6	20.7
26	3.6	2.7	2.7	3.6	2.7	2.7	3.6	21.6
27	3.6	2.7	2.7	3.6	2.7	2.7	2.7	21.6
28	2.7	2.7	3.6	2.7	2.7	3.6	2.7	20.7
29	2.7	2.7	3.6	2.7	2.7	2.7	2.7	19.8
30	2.7	2.7	2.7	2.7	3.6	2.7	2.7	19.8
31	3.6	3.6	3.6	2.7	3.6	3.6	2.7	12.6
<b>CMS</b>	<b>20.7</b>	<b>81.8</b>	<b>89.1</b>	<b>91.8</b>	<b>82.7</b>	<b>89.1</b>	<b>90.9</b>	<b>666.1</b>
<b>ACFI</b>	<b>41.1</b>	<b>182.1</b>	<b>178.7</b>	<b>182.1</b>	<b>183.9</b>	<b>176.7</b>	<b>180.3</b>	<b>1,122.9</b>

Total Boosters April	Total Boosters May	Total Boosters June	Total Boosters July	Total Boosters August	Total Boosters September	Total Boosters October	Grand Total Boosters
	1.5	6.4	1.0	8.6	4.7	2.2	24.4
	2.8	7.5	6.2	9.6	4.3	2.8	33.2
	2.1		5.3	11.7	4.2	2.8	26.1
		4.6	9.5	5.2	2.1		21.4
	1.5	3.6	5.0	7.4	2.7	2.5	22.7
	3.9	8.5	5.0	3.6		2.5	23.8
	1.5	5.3	7.3	5.6		2.7	22.4
	5.7	5.3	7.0	7.7	4.7	2.2	31.6
	2.3	4.3	3.9	7.6	5.0		23.1
	4.3	2.0	4.0	11.0	8.0		29.3
	7.4	3.1	7.7	7.7	2.3	2.6	30.8
	4.2	7.3	12.1	5.7	4.7		34.0
	2.2	4.2	8.7	8.0	1.3		24.4
	6.2	9.0	6.5	10.6	3.1	4.8	40.2
	4.6	4.4	8.4	8.3	7.0	2.8	33.5
	2.0	7.2	10.1	4.6	2.3	8.0	34.2
	3.9	3.2	11.0	6.5	5.4	2.8	32.8
	4.3	6.0	12.3	7.0		1.6	31.2
	3.3	3.2	3.0	13.4	2.6		25.5
	6.0	4.5	5.5	2.5	2.3		21.0
	6.1	8.2	9.9	4.6	5.0	2.2	35.0
	6.3	10.4	6.3	8.1	4.9	2.8	39.8
	2.0	8.3	9.0	5.5		8.4	33.2
	6.0	14.4	2.0	8.7	1.5	5.6	38.2
	6.1	8.9	10.4	2.6	2.3	2.8	30.6
	4.6	9.6	5.7	6.7	2.3		30.7
	4.0	6.8	9.9		1.0		21.7
	4.4	9.5	3.3	5.2		1.0	23.4
	4.2	5.5	3.1	2.7	2.5	1.0	19.0
	5.3	5.1	5.4	5.8			21.6
	5.0		3.0	2.6		2.6	13.2
<b>CMS</b>	<b>6.0</b>	<b>121.7</b>	<b>187.4</b>	<b>204.5</b>	<b>82.9</b>	<b>70.3</b>	<b>871.2</b>
<b>ACFI</b>	<b>0.0</b>	<b>245.4</b>	<b>371.7</b>	<b>405.6</b>	<b>156.4</b>	<b>139.4</b>	<b>1,727.9</b>

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

Year: 2003

Quantities in acre-feet

	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	6,792	0	5,824	0	24,116	0	0	0	0	0	4,042	0	31,885	0	323	0	27,688	0	10,868	
January	0	0	0	0	0	9,891	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	4,044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	771	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	412	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	0	0	53	53	0	0	289	0	0	0	0	0	175	0	0	0	0	0	0	0	0	0
July	0	0	2,692	2,692	0	0	0	0	0	0	0	246	0	0	0	0	0	0	0	0	0	0
August	0	0	34	34	0	0	0	0	0	0	0	67	0	0	0	0	0	0	279	0	0	0
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,500	0	0	0	0	279	0	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	627	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	3,191	3,657	0	13,935	916	0	0	0	0	488	0	2,500	0	279	0	279	0	0	0	
Current Status	0	0	6,316	0	5,824	0	11,097	0	0	0	0	3,554	0	34,985	0	323	0	27,688	0	10,868		

- 605  
33,780

# NORTH KERN WATER STORAGE DISTRICT

## **IMPROVEMENT DISTRICT NO. 4 WATER EXCHANGE SUMMARY**

Status as of 12-31-2003

Quantities in acre-feet

<b>Pursuant to North Kern WSD/Improvement District #4 Accounting Agreement Dated March 1, 1995</b>								
<b>CATEGORY "A"</b>				<b>CATEGORY "B"</b>				<b>Overall Exchange Balance</b>
<b>Date</b>	<b>NKWSD to ID4</b>	<b>ID4 to NKWSD</b>	<b>Cumulative Exchange Balance</b>	<b>Date</b>	<b>NKWSD to ID4</b>	<b>ID4 to NKWSD</b>	<b>Cumulative Exchange Balance</b>	
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)
2003	12,473	0	(10,470)	2003	1,462	916	(627)	(11,097)
<b>Totals</b>	<b>91,286</b>	<b>101,756</b>		<b>Totals</b>	<b>32,588</b>	<b>33,215</b>		

### **CATEGORY "A"**

Priority

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

Point of Delivery

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

### **CATEGORY "B"**

Priority

ID4 Priority 2.

Point of Delivery

Beardsley Canal.

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

Priority 2.

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

Priority 3.

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

Priority Equation D.

Paybacks within Priority 3 shall be allocated in proportion 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**  
 (Does not include deliveries into Isabella Reservoir storage)

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	187	150	0	0	0	0	0	0	0	0	0	0
2	227	124	0	0	0	0	0	0	0	0	0	0
3	146	100	0	0	0	0	0	0	0	0	0	0
4	187	75	0	0	0	0	0	0	0	0	0	0
5	219	45	0	0	0	0	0	0	0	0	0	0
6	224	41	0	0	0	0	0	0	0	0	0	0
7	205	49	0	0	0	0	0	0	0	0	0	0
8	222	37	0	0	0	0	0	0	0	0	0	0
9	203	40	0	0	0	0	0	0	0	0	0	0
10	220	45	0	0	0	0	0	0	0	0	0	0
11	200	39	0	0	0	0	0	0	0	0	0	0
12	183	251	0	0	0	0	0	0	0	0	0	0
13	187	349	0	0	0	0	0	0	0	0	0	0
14	219	253	0	0	0	0	0	0	0	0	0	0
15	161	25	0	0	0	0	0	0	0	0	0	0
16	107	32	0	0	0	0	0	0	0	0	0	0
17	108	25	0	0	0	0	0	0	0	0	0	0
18	90	30	0	0	0	0	0	0	0	0	0	0
19	88	40	0	0	0	0	0	0	0	0	0	0
20	117	29	0	0	0	0	0	0	0	0	0	0
21	173	31	0	0	0	0	0	0	0	0	0	0
22	193	38	0	0	0	0	0	0	0	0	0	0
23	115	29	0	0	0	0	0	0	0	0	0	0
24	133	29	0	0	0	0	0	0	0	0	0	0
25	127	34	0	0	0	0	0	0	0	0	0	0
26	118	30	0	0	0	0	0	0	0	0	0	0
27	155	31	0	0	0	0	0	0	0	0	0	0
28	157	38	0	0	0	0	0	0	0	0	0	0
29	101	-	0	0	0	0	0	0	0	0	0	0
30	102	-	0	0	0	0	0	0	0	0	0	0
31	113	-	0	-	0	-	0	0	-	0	-	0
<b>TOTAL</b>	<b>4,987</b>	<b>2,039</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MAXIMUM DAY</b>	<b>227</b>	<b>349</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MINIMUM DAY</b>	<b>88</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>161</b>	<b>73</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL AC. FT.</b>	<b>9,891</b>	<b>4,044</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>7,026</b>	<b>MAX.,</b>	<b>349</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>19</b>	<b>TOTAL AC.FT.,</b>	<b>13,935</b>		

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

DISCHARGE IN CUBIC FEET PER SECOND

Year: 2003

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	86	0
18	0	0	0	0	0	0	0	0	0	0	160	0
19	0	0	0	0	0	0	0	0	0	0	70	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	316	0
MAXIMUM DAY	0	0	0	0	0	0	0	0	0	0	160	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	11	0
NET AC. FT.	0	0	0	0	0	0	0	0	0	0	627	0
AC. FT. LOSS	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	627	0
WHOLE YEAR:-	TOTAL,	316	MAX.,	160	MIN.,	0	MEAN,	1	TOTAL AC.FT.,	627		

Year: 2003

North Kern WSD Diverted to Cawelo Water District

DISCHARGE IN CUBIC FEET PER SECOND

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	0	0	0	44	17	0	0	0	0
2	0	0	0	0	0	0	44	0	0	0	0	0
3	0	0	0	0	0	0	45	0	0	0	0	0
4	0	0	0	0	0	0	40	0	0	0	0	0
5	0	0	0	0	0	0	41	0	0	0	0	0
6	0	0	0	0	0	0	41	0	0	0	0	0
7	0	0	0	0	0	0	41	0	0	0	0	0
8	0	0	0	0	0	0	44	0	0	0	0	0
9	0	0	0	0	0	0	43	0	0	0	0	0
10	0	0	0	0	0	0	43	0	0	0	0	0
11	0	0	0	0	0	0	46	0	0	0	0	0
12	0	0	0	0	0	0	45	0	0	0	0	0
13	0	0	0	0	0	0	45	0	0	0	0	0
14	0	0	0	0	0	0	45	0	0	0	0	0
15	0	0	0	0	0	0	45	0	0	0	0	0
16	0	0	0	0	0	0	44	0	0	0	0	0
17	0	0	0	0	0	0	44	0	0	0	0	0
18	0	0	0	0	0	0	43	0	0	0	0	0
19	0	0	0	0	0	0	45	0	0	0	0	0
20	0	0	0	0	0	0	45	0	0	0	0	0
21	0	0	0	0	0	0	44	0	0	0	0	0
22	0	0	0	0	0	0	45	0	0	0	0	0
23	0	0	0	0	0	0	44	0	0	0	0	0
24	0	0	0	0	0	0	45	0	0	0	0	0
25	0	0	0	0	0	0	43	0	0	0	0	0
26	0	0	0	0	0	0	43	0	0	0	0	0
27	0	0	0	0	0	0	44	0	0	0	0	0
28	0	0	0	0	0	0	44	0	0	0	0	0
29	0	0	0	0	0	0	44	0	0	0	0	0
30	0	0	0	0	70	27	44	0	0	0	0	0
31	0	0	0	0	138	-	44	0	-	0	-	0
TOTAL	0	0	0	0	208	27	1,357	17	0	0	0	0
MAXIMUM DAY	0	0	0	0	138	27	46	17	0	0	0	0
MINIMUM DAY	0	0	0	0	0	0	40	0	0	0	0	0
MEAN	0	0	0	0	7	1	44	1	0	0	0	0
TOTAL AC. FT.	0	0	0	0	412	53	2,692	34	0	0	0	0
WHOLE YEAR:-	TOTAL,	1,609	MAX.,	138	MIN.,	0	MEAN,	4	TOTAL AC.FT.,	3,191		

**Cawelo Water District Diverted to North Kern WSD**  
 (Includes deliveries into NKWSD Isabella Reservoir storage)

Year: 2003

**DISCHARGE IN CUBIC FEET PER SECOND**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0	0	0	30	0	0	44	17	0	0	0	0
2	0	0	0	22	0	0	44	0	0	0	0	0
3	0	0	0	2	0	0	45	0	0	0	0	0
4	0	0	0	0	0	0	40	0	0	0	0	0
5	0	0	0	0	0	0	41	0	0	0	0	0
6	0	0	0	0	0	0	41	0	0	0	0	0
7	0	0	0	0	0	0	41	0	0	0	0	0
8	0	0	0	0	0	0	44	0	0	0	0	0
9	0	0	0	0	0	0	43	0	0	0	0	0
10	0	0	0	0	0	0	43	0	0	0	0	0
11	0	0	0	0	0	0	46	0	0	0	0	0
12	0	0	0	0	0	0	45	0	0	0	0	0
13	0	0	0	0	0	0	45	0	0	0	0	0
14	0	0	0	0	0	0	45	0	0	0	0	0
15	0	0	0	0	0	0	45	0	0	0	0	0
16	0	0	0	0	0	0	44	0	0	0	0	0
17	0	0	0	0	0	0	44	0	0	0	0	0
18	0	0	0	0	0	0	43	0	0	0	0	0
19	0	0	0	0	0	0	45	0	0	0	0	0
20	0	0	0	0	0	0	45	0	0	0	0	0
21	0	0	0	0	0	0	44	0	0	0	0	0
22	0	0	0	0	0	0	45	0	0	0	0	0
23	0	0	0	0	0	0	44	0	0	0	0	0
24	0	0	0	0	0	0	45	0	0	0	0	0
25	0	0	0	0	0	0	43	0	0	0	0	0
26	0	0	0	0	0	0	43	0	0	0	0	0
27	0	0	0	0	0	0	44	0	0	0	0	0
28	0	0	17	0	0	0	44	0	0	0	0	0
29	0	-	102	0	0	0	44	0	0	0	0	0
30	0	-	135	0	0	27	44	0	0	0	0	0
31	0	-	135	-	0	-	44	0	-	0	-	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>389</b>	<b>54</b>	<b>0</b>	<b>27</b>	<b>1,357</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MAXIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>135</b>	<b>30</b>	<b>0</b>	<b>27</b>	<b>46</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MINIMUM DAY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>MEAN</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>44</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL AC. FT.</b>	<b>0</b>	<b>0</b>	<b>771</b>	<b>107</b>	<b>0</b>	<b>53</b>	<b>2,692</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>WHOLE YEAR:-</b>	<b>TOTAL,</b>	<b>1,844</b>	<b>MAX.,</b>	<b>135</b>	<b>MIN.,</b>	<b>0</b>	<b>MEAN,</b>	<b>5</b>	<b>TOTAL AC.FT.,</b>	<b>3,657</b>		

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

Quantities in acre-feet

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>2001</b>													
NKWS D to CITY	4,580	0	211	0	0	0	0	0	0	0	0	0	4,791
CITY to NKWS D	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
<b>CITY Debit to NKWS D</b>	<b>43,497</b>	<b>43,497</b>	<b>41,394</b>	<b>39,159</b>									

<b>2002</b>													
NKWS D to CITY	292	0	134	0	0	0	0	0	0	0	0	2,533	2,959
CITY to NKWS D	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
<b>CITY Debit to NKWS D</b>	<b>39,451</b>	<b>39,451</b>	<b>37,464</b>	<b>34,080</b>	<b>33,252</b>	<b>35,785</b>							

<b>2003</b>													
NKWS D to CITY	3,383	0	36	0	0	0	0	0	0	0	0	2,756	6,175
CITY to NKWS D	0	0	2,859	4,298	712	0	0	0	0	0	0	0	7,869
Other Purchase Rate	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>CITY Debit to NKWS D</b>	<b>39,168</b>	<b>39,168</b>	<b>36,345</b>	<b>32,047</b>	<b>31,335</b>	<b>34,091</b>							

**Long Term Recapitulation**  
**BORROW/PAYBACK WATER EXCHANGE BETWEEN**  
**NORTH KERN WSD and CITY OF BAKERSFIELD**

Quantities in acre-feet

Year: 2003

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	49,280
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
2003	6,175	7,869	34,091

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***



*Water Hyacinth infestation above Rocky Point Weir*

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

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

**Year: 2003**

Quantities in acre-feet

	Year					Five Year Total	Allocation Percentage
	1999	2000	2001	2002	2003		
Carrier Canal at Head	170,089	170,098	189,997	205,190	208,245	943,619	99.89%
Oilfield Discharge	13	93	184	121	0	411	0.04%
Storm Drain Inflow	197	123	141	121	99	681	0.07%
<b>TOTAL CARRIER CANAL FLOW</b>	<b>170,299</b>	<b>170,314</b>	<b>190,322</b>	<b>205,432</b>	<b>208,344</b>	<b>944,711</b>	<b>100.00%</b>

Kern Island Canal (1)	122,381	137,692	130,955	138,274	147,653	676,955	71.66%
Eastside Canal	17,214	16,126	13,816	13,928	14,079	75,163	7.95%
Kern Delta WD via Levee #1	20,094	11,880	17,835	15,146	30,735	95,690	10.13%
<b>KERN DELTA WATER DISTRICT TOTAL</b>	<b>159,689</b>	<b>165,698</b>	<b>162,606</b>	<b>167,348</b>	<b>192,467</b>	<b>847,808</b>	<b>89.74%</b>

Via Kern Island Canal	0	0	0	0	1,154	1,154	0.12%
Carrier Waste Gate	14	6	0	32	562	614	0.07%
Kern River Conduit via Levee #1	10,596	4,610	27,716	38,052	14,161	95,135	10.07%
<b>CITY OF BAKERSFIELD TOTAL</b>	<b>10,610</b>	<b>4,616</b>	<b>27,716</b>	<b>38,084</b>	<b>15,877</b>	<b>96,903</b>	<b>10.26%</b>

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: 2003

	1999	2000	2001	2002	2003	Five Year Total	Allocation Percentage
<b>TOTAL CARRIER CANAL FLOW (1)</b>	114,243	87,004	71,528	42,613	80,549	395,937	100.00%

Stine Canal Total Diverted (2)	13,028	18,871	0	1,407	23,908	57,214	14.45%
Arvin-Edison Turnout Total Diverted (2)	7,049	4,723	0	0	54	11,826	2.99%
Buena Vista Canal Total Diverted (2)	25,685	25,200	17,027	18,546	30,968	117,426	29.66%
River Canal Total Diverted (3)	0	746	2,253	730	1,519	5,248	1.33%
<b>KERN DELTA WATER DISTRICT TOTAL DIVERTED FROM CARRIER CANAL</b>	<b>45,762</b>	<b>49,540</b>	<b>19,280</b>	<b>20,683</b>	<b>56,449</b>	<b>191,714</b>	<b>48.43%</b>

<b>KERN RIVER CONDUIT (City of Bakersfield)</b>	<b>68,481</b>	<b>37,464</b>	<b>52,248</b>	<b>21,930</b>	<b>24,100</b>	<b>204,223</b>	<b>51.57%</b>
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- 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  
2003**

**CALLOWAY CANAL USED**

Preceding Ten Years

Year	Diverted via Calloway Canal				
	NKWSD	CITY	Subtotal	ID4	TOTAL
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
2003	0	0	0	10,688	10,688
<b>Total</b>	<b>322,072</b>	<b>49,868</b>	<b>371,940</b>	<b>294,875</b>	<b>666,815</b>
<b>Percent</b>	<b>86.59%</b>	<b>13.41%</b>	<b>100.00%</b>		

**BEARDSLEY CANAL USED**

Preceding Five Years

Year	Diverted via Beardsley Canal						
	North Kern Water Storage District			CITY	Subtotal	CWD/Other	TOTAL
	NKWSD	RRID	TOTAL				
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
2003	106,579	488	107,067	10,711	117,778	61,560	179,338
<b>Total</b>	<b>514,993</b>	<b>8,115</b>	<b>523,108</b>	<b>59,081</b>	<b>582,189</b>	<b>296,023</b>	<b>878,212</b>
<b>Percent</b>	<b>88.46%</b>	<b>1.39%</b>	<b>89.85%</b>	<b>10.15%</b>	<b>100.00%</b>		

**IMPROVEMENT DISTRICT NO. 4 USE OF CALLOWAY CANAL**  
**Pursuant to Calloway Canal Agreement dated April 28, 1982**

Year: 2003

Quantities in acre-feet  
except where noted...

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Operating Loss	165	156	166	174	196	103	0	0	0	0	0	0	960
Treatment Plant	948	1,017	1,595	1,980	2,757	1,341	0	0	0	0	0	0	9,638
Reverse Flow via Pump Plant #7	0	0	0	0	0	0	0	0	0	0	0	0	0
CVC Extension Losses	0	0	0	0	0	0	0	0	0	0	0	0	0
T.O. #4 to River	0	0	0	0	0	0	0	0	0	0	0	0	0
Loss to Buck Owens Weir	0	34	4	20	8	24	0	0	0	0	0	0	90
Western Reach Flow	0	0	0	0	0	0	0	0	0	0	0	0	0
Trans. Charge Waived	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SUB-TOTAL DIVERSION</b>	<b>1,113</b>	<b>1,207</b>	<b>1,765</b>	<b>2,174</b>	<b>2,961</b>	<b>1,468</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,688</b>
Base Rate	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$0.75	\$10,688
Escalator	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	1.355	13,550
Current Rate	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$10,688
<b>SUB-TOTAL CHARGE</b>	<b>\$1,135.26</b>	<b>\$1,231.14</b>	<b>\$1,800.30</b>	<b>\$2,217.48</b>	<b>\$3,020.22</b>	<b>\$1,497.36</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$10,901.76</b>
<b>W</b>													
Bartell Spreading	0	0	0	0	0	0	0	0	0	0	0	0	0
Loss Below Buck Owens Weir	0	0	0	0	0	0	0	0	0	0	0	0	0
NKWS Exchange Delivery	0	0	0	0	0	0	0	0	0	0	0	0	0
Trans. Charge Waived	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SUB-TOTAL DIVERSION</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Current Rate	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$1.02	\$10,901.76
<b>SUB-TOTAL CHARGE</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>ERH</b>													
<b>TOTAL CHARGE</b>	<b>\$1,135.26</b>	<b>\$1,231.14</b>	<b>\$1,800.30</b>	<b>\$2,217.48</b>	<b>\$3,020.22</b>	<b>\$1,497.36</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$10,901.76</b>

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

Year: 2003

Quantities in acre-feet

Canal	Year					Five Year Total	Percentage
	1999	2000	2001	2002	2003		
Kern Island	116,598	137,708	124,148	127,900	145,502	651,856	35.49%
Eastside	17,214	16,042	13,816	13,928	14,079	75,079	4.09%
Buena Vista	11,237	18,067	11,263	12,827	20,577	73,971	4.03%
Stine	11,500	12,622	5,930	7,719	19,184	56,955	3.10%
Farmers	11,773	12,097	5,224	7,710	14,508	51,412	2.80%
<b>Subtotal Kern Delta WD</b>	<b>168,322</b>	<b>196,536</b>	<b>160,381</b>	<b>170,084</b>	<b>213,950</b>	<b>909,273</b>	<b>49.51%</b>
City of Bakersfield	104,088	72,504	44,026	33,208	64,582	318,408	17.33%
K.R.C. & I. Co. (Beardsley)	11,130	11,571	8,460	7,960	8,395	47,516	2.59%
Central - I.D. #4 (Calloway)	31,235	32,258	9,034	24,450	10,688	107,665	5.86%
James	599	0	0	0	0	599	0.03%
Pioneer	0	0	2,179	0	0	2,179	0.12%
<b>Subtotal City of Bakersfield</b>	<b>147,052</b>	<b>116,333</b>	<b>63,699</b>	<b>65,618</b>	<b>83,665</b>	<b>476,367</b>	<b>25.93%</b>
<b>North Kern WSD</b>	<b>101,030</b>	<b>108,839</b>	<b>80,299</b>	<b>52,551</b>	<b>108,374</b>	<b>451,093</b>	<b>24.56%</b>
<b>Total First Point Group</b>	<b>416,404</b>	<b>421,708</b>	<b>304,379</b>	<b>288,253</b>	<b>405,989</b>	<b>1,836,733</b>	<b>100.00%</b>
South Fork	896	900	474	160	162		
First Point Passing 2nd Point	0	0	0	0	0	0	
River Loss and Spreading	31,968	34,935	37,914	57,115	46,399	46,399	
Flow Above First Point	2,480	2,869	2,847	3,163	8,363	8,363	
<b>Total 1st Point Group Diverted</b>	<b>451,748</b>	<b>460,412</b>	<b>345,614</b>	<b>348,691</b>	<b>460,933</b>		

- Note:

ALL FIGURES REFLECT  
GROSS DIVERSIONS...

**KERN RIVER WATERMASTER  
ISABELLA RESERVOIR INTER-DISTRICT RENTAL CHARGES**

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

**COMPUTED YEAR: 2003**

Year	Acre-Foot Days of Irrigation Storage			Isabella O&M Charges (2)
	NKWSO (1)	BVWSO	Total A.F.D.	
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
2003	37,777,781	21,519,712	59,297,493	(4) \$0
5-Year Totals	159,457,842	110,272,431	269,730,273	\$1,513,804

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

- Total 5-Year Operation & Interest Charge..... \$2,657,054

Total 5-Year Cost = \$2,657,054 = \$0.0098508

Total 5-Year Use = 269,730,273 = Rental Charge  
Per  
Acre-Foot Day

TOTAL 2003 HACIENDA WD Acre-Foot Storage Days = 0

TOTAL 2003 HACIENDA WD Share of 2003 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...

(4) Reflects reconciliation for overpayment of Isabella Reservoir O&M Charges for  
years 1999-2002 pursuant to Corps of Engineers letter dated May 1, 2003...

# KERN COUNTY RECREATION POOL REPORT FROM THE KERN RIVER WATERMASTER

Year: 2003

Quantities in acre-feet  
except where noted...

	Total Storage in Reservoir	Total Water Surface Area (Acres)	Area Attributable to Rec. Pool (Acres)	County of Kern		
				Total Reservoir Loss	Ming Lake Net Inflow	Recreation Pool Loss
End of Previous Year	138,222	5,230	795			
January	142,022	5,324	785	1,018	16	151
February	151,652	5,558	755	833	16	117
March	173,975	6,069	695	1,714	44	216
April	202,641	6,671	630	1,932	60	194
May	270,313	7,890	510	3,848	77	305
June	303,814	8,410	465	6,732	105	367
July	249,632	7,543	540	7,922	127	490
August	199,587	6,609	635	6,026	121	500
September	172,039	6,027	705	4,911	91	522
October	150,156	5,522	760	3,316	65	424
November	148,999	5,495	765	1,335	42	180
December	148,505	5,483	765	1,071	26	155
TOTALS				40,658	790	3,621

**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: 2003

	FIRST POINT		CALENDAR YEAR		ENTITLEMENT	
	REGULATED	NATURAL	NKWS	NKWS	BVWS	HWD
JANUARY	28,584	33,402	33,402	33,402	0	0
To Date	28,584	33,402	33,402	33,402	0	0
FEBRUARY	20,966	31,428	31,428	31,428	0	0
MARCH	49,550	64,830	64,830	64,830	0	0
APRIL	24,889	48,924	39,229	39,229	9,695	0
MAY	74,439	113,754	104,059	104,059	9,695	0
JUNE	25,548	56,146	43,964	43,964	12,182	0
JULY	99,987	169,900	148,023	148,023	21,877	0
AUGUST	41,952	113,472	81,193	81,193	32,279	0
SEPTEMBER	141,939	283,372	229,216	229,216	54,156	0
OCTOBER	78,152	118,383	84,458	84,458	33,925	0
Year	220,091	401,755	313,674	313,674	88,081	0
	83,336	37,075	31,144	31,144	5,931	0
	303,427	498,830	344,818	344,818	94,012	0
	68,297	24,278	22,382	22,382	1,896	0
	371,724	483,108	367,200	367,200	95,908	0
	37,192	14,555	14,555	14,555	0	0
	408,916	477,663	381,755	381,755	95,908	0
	29,364	10,798	10,798	10,798	0	0
	438,280	488,461	392,553	392,553	95,908	0
	12,785	12,962	12,962	12,962	0	0
	451,065	501,423	405,515	405,515	95,908	0
	17,724	18,301	18,301	18,301	0	0
	468,789	519,724	423,816	423,816	95,908	0

1894 to 2003 Mean April-July Runoff = 466,633 acre-feet (100% of Average)  
 2003 April-July Runoff = 325,076 acre-feet ( 70% of Average)

	FIRST POINT		WATER YEAR		ENTITLEMENT	
	REGULATED	NATURAL	NKWS	NKWS	BVWS	HWD
OCTOBER	13,635	8,939	8,939	8,939	0	0
To Date	13,635	8,939	8,939	8,939	0	0
NOVEMBER	20,165	73,894	62,269	62,269	11,625	0
DECEMBER	33,800	82,833	71,208	71,208	11,625	0
JANUARY	23,694	28,189	28,189	28,189	0	0
FEBRUARY	57,494	111,022	99,397	99,397	11,625	0
MARCH	28,584	33,402	33,402	33,402	0	0
APRIL	86,078	144,424	132,799	132,799	11,625	0
MAY	20,966	31,428	31,428	31,428	0	0
JUNE	107,044	175,852	164,227	164,227	11,625	0
JULY	24,889	48,924	39,229	39,229	9,695	0
AUGUST	131,933	224,776	203,456	203,456	21,320	0
SEPTEMBER	25,548	56,146	43,964	43,964	12,182	0
Year	157,481	280,922	247,420	247,420	33,502	0
	41,952	113,472	81,193	81,193	32,279	0
	199,433	394,394	328,613	328,613	65,781	0
	78,152	118,383	84,458	84,458	33,925	0
	277,585	512,777	413,071	413,071	99,706	0
	83,336	37,075	31,144	31,144	5,931	0
	360,921	549,852	444,215	444,215	105,637	0
	68,297	24,278	22,382	22,382	1,896	0
	429,218	574,130	466,597	466,597	107,533	0
	37,192	14,555	14,555	14,555	0	0
	466,410	588,685	481,152	481,152	107,533	0

1894 to 2003 Mean March-October Runoff = 599,326 acre-feet (100% of Average)  
 2003 March-October Runoff = 423,631 acre-feet ( 71% of Average)



**Isabella Dam & Reservoir**  
**Midnight Storage Recapitulation**

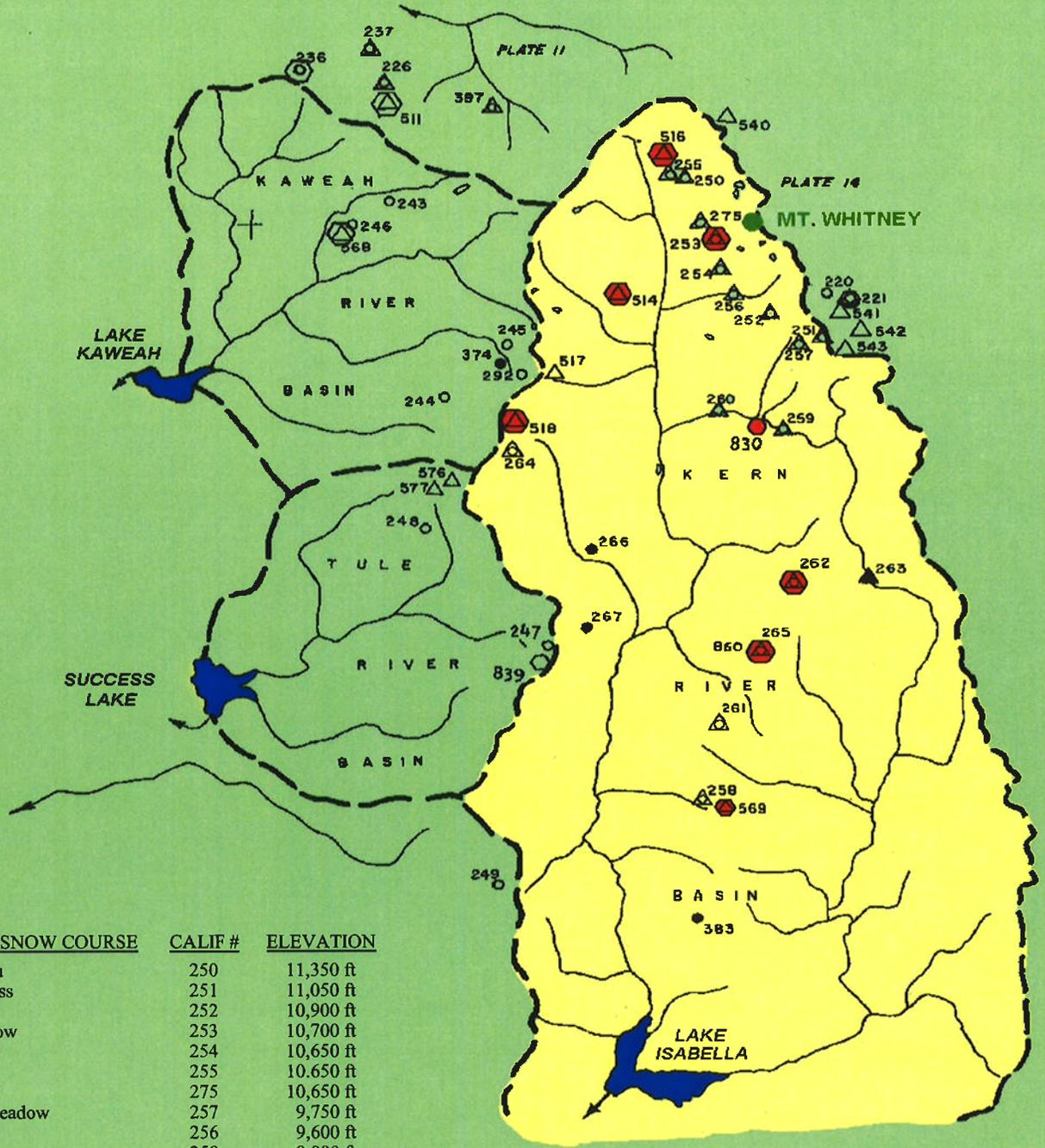
**QUANTITIES IN ACRE-FEET**

**Year: 2003**

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	138,326	142,022	151,874	175,130	203,310	274,672	302,552	248,802	198,532	171,258	149,935	148,945
2	138,430	142,182	152,097	176,353	203,911	279,470	301,045	247,825	197,544	170,358	149,825	148,725
3	138,640	142,287	152,264	177,395	204,985	284,640	299,541	246,624	196,823	169,700	149,715	148,505
4	138,850	142,182	152,431	178,503	206,466	289,043	297,956	245,278	195,972	169,102	149,604	148,286
5	139,060	142,128	152,655	179,369	208,089	293,234	296,544	243,862	194,993	168,508	149,604	148,067
6	139,218	142,022	152,822	180,111	209,379	296,793	295,135	242,450	193,952	167,794	149,604	147,903
7	139,271	141,808	152,990	180,920	210,673	299,957	293,565	240,968	192,850	167,084	149,549	147,793
8	139,428	141,649	153,046	181,729	211,837	302,720	291,832	239,566	191,752	166,315	149,604	147,793
9	139,585	141,649	153,102	182,416	212,797	304,401	290,189	238,316	190,721	165,197	149,770	147,629
10	139,743	141,702	153,157	183,292	213,899	305,582	288,551	236,850	189,695	164,084	149,825	147,303
11	139,954	141,862	153,213	184,299	215,003	306,679	286,919	234,952	188,800	163,149	149,825	147,193
12	140,060	142,554	153,381	185,433	216,180	307,780	285,372	232,845	187,906	162,452	149,770	147,193
13	140,113	143,089	153,549	186,699	217,292	308,796	283,585	230,748	187,144	161,813	149,715	147,139
14	140,166	143,677	153,717	188,097	218,337	309,901	281,806	228,520	186,318	161,061	149,604	147,030
15	140,324	144,646	154,954	189,503	219,454	310,750	280,033	226,234	185,370	160,310	149,439	147,030
16	140,430	145,401	157,503	190,850	220,576	311,517	278,266	224,244	184,360	159,736	149,384	147,030
17	140,536	146,215	159,161	192,010	221,771	312,200	276,346	222,124	183,355	159,219	149,439	146,921
18	140,695	146,812	160,484	193,044	223,323	312,540	274,274	219,945	182,479	158,704	149,439	146,921
19	140,854	147,303	161,582	194,082	224,953	312,710	272,765	217,848	181,604	158,246	149,384	146,866
20	140,958	147,738	162,568	194,993	226,946	312,540	271,103	215,902	180,857	157,732	149,274	146,812
21	141,011	148,231	163,616	195,841	228,951	312,285	269,131	213,692	180,049	157,049	149,219	146,866
22	141,117	148,780	164,553	196,692	231,471	311,773	267,089	211,700	179,121	156,367	149,219	146,866
23	141,171	149,274	165,550	197,478	234,587	310,750	264,900	210,129	178,133	155,632	149,164	146,866
24	141,277	149,770	166,552	198,268	237,802	309,901	262,798	208,428	177,088	154,954	149,109	146,921
25	141,436	150,432	167,499	198,992	241,264	308,881	260,783	206,871	176,108	154,279	149,054	148,012
26	141,596	150,986	168,270	199,786	245,352	307,949	259,008	205,656	175,191	153,549	149,054	148,560
27	141,649	151,374	169,401	200,579	249,783	307,017	257,010	204,246	174,340	152,878	149,054	148,670
28	141,755	151,652	170,597	201,377	254,943	306,004	255,020	202,908	173,550	152,097	148,999	148,505
29	141,862	-	171,679	202,042	259,932	304,907	253,115	201,709	172,764	151,319	148,999	148,560
30	141,915	-	172,825	202,641	265,056	303,814	251,143	200,646	172,039	150,653	148,999	148,560
31	142,022	-	173,975	-	270,313	-	249,632	199,587	-	150,156	-	148,505
<b>MAXIMUM DAY</b>	<b>142,022</b>	<b>151,652</b>	<b>173,975</b>	<b>202,641</b>	<b>270,313</b>	<b>312,710</b>	<b>302,552</b>	<b>248,802</b>	<b>198,532</b>	<b>171,258</b>	<b>149,935</b>	<b>148,945</b>
<b>MINIMUM DAY</b>	<b>138,326</b>	<b>141,649</b>	<b>151,874</b>	<b>175,130</b>	<b>203,310</b>	<b>274,672</b>	<b>249,632</b>	<b>199,587</b>	<b>172,039</b>	<b>150,156</b>	<b>148,999</b>	<b>146,812</b>

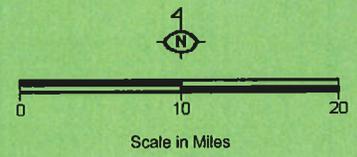
# KERN RIVER BASIN

Drainage Basin Above Lake Isabella = 2,074 Square Miles



<u>KERN RIVER SNOW COURSE</u>	<u>CALIF #</u>	<u>ELEVATION</u>
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

<u>KERN RIVER SNOW SENSOR</u>	<u>CALIF #</u>	<u>ELEVATION</u>
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



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



**REPORT OF THE KERN RIVER WATERMASTER**

JANUARY 2003

Quantities in S.F.D. except where noted

PAGE 1 of 5

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)	STORAGE IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT		FRIANT-KERN INFLOW DAY
		MIDNIGHT STORAGE ACRE-FEET	S.F.D. LOSS			+1ST POINT	-1ST POINT						KERN RIVER	FRIANT-KERN	
Previous Day	2554.75	138,222	69,687	8	379	1	467	467	69,687	54,469	1	0	0	0	0
1	2564.77	138,326	69,739	6	417	1	476	482	69,745	54,527	1	0	0	0	1
2	2564.79	138,430	69,792	7	433	1	494	495	69,799	54,581	1	0	0	0	2
3	2564.83	138,640	69,898	6	403	1	516	500	69,889	54,671	1	0	0	0	3
4	2564.87	138,850	70,004	7	375	1	489	534	70,040	54,822	1	0	0	0	4
5	2564.91	139,060	70,109	9	483	1	598	592	70,139	54,921	1	0	0	0	5
6	2564.94	139,218	70,189	92	515	1	688	627	70,158	54,940	14	0	0	0	6
7	2564.95	139,271	70,216	46	520	1	594	634	70,225	55,007	7	0	0	0	7
8	2564.98	139,428	70,295	16	524	1	620	611	70,295	55,077	2	0	0	0	8
9	2565.01	139,585	70,374	11	527	1	618	617	70,373	55,155	2	0	0	0	9
10	2565.04	139,743	70,454	4	527	1	612	622	70,463	55,245	1	0	0	0	10
11	2565.08	139,954	70,560	4	525	1	636	614	70,547	55,329	1	0	0	0	11
12	2565.10	140,060	70,614	16	523	1	594	595	70,602	55,384	2	0	0	0	12
13	2565.11	140,113	70,640	13	516	1	556	559	70,631	55,413	2	0	0	0	13
14	2565.12	140,166	70,667	13	485	1	526	547	70,679	55,461	2	0	0	0	14
15	2565.15	140,324	70,747	16	461	2	559	530	70,730	55,512	2	0	0	0	15
16	2565.17	140,430	70,800	18	434	1	506	518	70,795	55,577	3	0	0	0	16
17	2565.19	140,536	70,854	20	415	1	490	501	70,860	55,642	3	0	0	0	17
18	2565.22	140,695	70,934	16	411	1	508	505	70,937	55,719	2	0	0	0	18
19	2565.25	140,854	71,014	14	423	1	518	513	71,012	55,794	2	0	0	0	19
20	2565.27	140,958	71,066	16	445	1	514	514	71,064	55,846	2	0	0	0	20
21	2565.28	141,011	71,093	25	455	2	509	524	71,106	55,888	4	0	0	0	21
22	2565.30	141,117	71,147	16	477	1	548	517	71,129	55,911	2	0	0	0	22
23	2565.31	141,171	71,174	13	452	1	493	515	71,178	55,960	2	0	0	0	23
24	2565.33	141,277	71,227	11	440	1	505	509	71,235	56,017	2	0	0	0	24
25	2565.36	141,436	71,307	13	434	2	529	521	71,307	56,089	2	0	0	0	25
26	2565.39	141,596	71,388	9	437	1	528	522	71,382	56,164	1	0	0	0	26
27	2565.40	141,649	71,415	25	456	1	509	527	71,427	56,209	4	0	0	0	27
28	2565.42	141,755	71,468	9	481	1	544	532	71,468	56,250	1	0	0	0	28
29	2565.44	141,862	71,522	16	472	2	544	533	71,511	56,293	2	0	0	0	29
30	2565.45	141,915	71,549	15	467	1	510	521	71,549	56,331	2	0	0	0	30
31	2565.47	142,022	71,603	11	443	1	509	509	71,603	56,385	2	0	0	0	31
<b>TOTAL SECOND FOOT DAYS</b>				513	14,376	35	16,840	16,840	71,603	56,385	76	0	0	0	0
<b>TOTAL ACRE-FEET</b>				1,018	28,514	70	33,402	33,402	142,022	111,838	151	0	0	0	0

By:  Date: February 24, 2003

REPORT OF THE KERN RIVER WATERMASTER

JANUARY 2003

Quantities in S.F.D. except where noted

PAGE 2 of 5

NORTH KERN WATER STORAGE DISTRICT										BUENA VISTA WATER STORAGE DISTRICT										HACIENDA WATER DISTRICT																			
DAY	ENTL AT 1ST POINT	FLOW ABOVE 1ST POINT	RESERVOIR STORAGE		ENTL AT 1ST POINT	FLOW		ENTL AT 2ND POINT	RESERVOIR STORAGE		ENTITLEMENT Contributed by: NKWSD BWSD	FLOW ABOVE 1ST POINT	RESERVOIR STORAGE		DAY																								
			LOSS	STORAGE		VIA KWD	VIA CWD		AT 2ND POINT	LOSS			STORAGE	LOSS		STORAGE																							
Previous Day	467	379	1	6	37,566	0	0	0	0	0	2	16,903	0	0	0																								
1	482	417	1	4	37,626	0	0	0	0	0	2	16,901	0	0	0																								
2	495	433	1	5	37,682	0	0	0	0	0	2	16,899	0	0	0																								
3	500	403	1	4	37,774	0	0	0	0	0	2	16,897	0	0	0																								
4	534	375	1	5	37,927	0	0	0	0	0	2	16,895	0	0	0																								
5	592	483	1	6	38,029	0	0	0	0	0	3	16,892	0	0	0																								
6	627	515	1	65	38,075	0	0	0	0	0	27	16,865	0	0	0																								
7	634	519	1	32	38,157	0	1	0	0	0	14	16,850	0	0	0																								
8	611	522	1	11	38,234	0	2	0	0	0	5	16,843	0	0	0																								
9	617	525	1	8	38,317	0	2	0	0	0	3	16,838	0	0	0																								
10	622	525	1	3	38,410	0	2	0	0	0	1	16,835	0	0	0																								
11	614	520	1	3	38,500	0	5	0	0	0	1	16,829	0	0	0																								
12	595	521	1	11	38,562	0	2	0	0	0	5	16,822	0	0	0																								
13	559	511	1	9	38,600	0	5	0	0	0	4	16,813	0	0	0																								
14	547	473	1	9	38,664	0	12	0	0	0	4	16,797	0	0	0																								
15	530	450	2	11	38,731	0	11	0	0	0	5	16,781	0	0	0																								
16	518	425	1	13	38,810	0	9	0	0	0	5	16,767	0	0	0																								
17	501	405	1	14	38,891	0	10	0	0	0	6	16,751	0	0	0																								
18	505	404	1	11	38,980	0	7	0	0	0	5	16,739	0	0	0																								
19	513	417	1	10	39,065	0	6	0	0	0	4	16,729	0	0	0																								
20	514	437	1	11	39,130	0	8	0	0	0	5	16,716	0	0	0																								
21	524	446	2	18	39,188	0	9	0	0	0	7	16,700	0	0	0																								
22	517	472	1	11	39,221	0	5	0	0	0	5	16,690	0	0	0																								
23	515	448	1	9	39,278	0	4	0	0	0	4	16,682	0	0	0																								
24	509	436	1	8	39,342	0	4	0	0	0	3	16,675	0	0	0																								
25	521	434	2	9	39,418	0	0	0	0	0	4	16,671	0	0	0																								
26	522	437	1	6	39,496	0	0	0	0	0	3	16,668	0	0	0																								
27	527	450	1	18	39,554	0	6	0	0	0	7	16,655	0	0	0																								
28	532	481	1	6	39,598	0	0	0	0	0	3	16,652	0	0	0																								
29	533	468	2	11	39,650	0	4	0	0	0	5	16,643	0	0	0																								
30	521	467	1	11	39,692	0	0	0	0	0	4	16,639	0	0	0																								
31	509	443	1	8	39,749	0	0	0	0	0	3	16,636	0	0	0																								
S.F.D.	16,840	14,262	35	360	39,749	0	114	0	0	0	153	16,636	0	0	0																								
AC.FT.	33,402	28,288	70	715	78,841	0	226	0	0	0	303	32,997	0	0	0																								
TOTAL ACRE-FOOT STORAGE DAYS										TOTAL ACRE-FOOT STORAGE DAYS										TOTAL ACRE-FOOT STORAGE DAYS																			
										2,384,825										1,030,948										0									

**REPORT OF THE KERN RIVER WATERMASTER**

JANUARY 2003  
 WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

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

**SNOW SURVEY DATA FOR KERN RIVER BASIN**

Date: February 1, 2003

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
Big Horn Plateau	Upper Tyndall Creek	516	11,400	27.7	1-26	51.3	31%	16.0	58%	DWR
Cottonwood Pass		250	11,350	23.7	1-25	38.7	34%	13.1	55%	DWR
Siberian Pass		251	11,050	14.8	1-30	23.8	33%	7.9	53%	DWR
Crabtree Meadow		252	10,900	20.0	1-27	34.1	33%	11.3	57%	DWR
		253	10,700	19.6	1-25	40.9	33%	13.4	68%	DWR
	Crabtree Meadow	253	10,700	19.8						
Guyot Flat		254	10,650	20.8	1-27	38.4	35%	13.4	64%	DWR
Tyndall Creek		255	10,650	18.8	1-25	34.8	30%	10.6	56%	DWR
Sandy Meadows		275	10,650	19.2	1-25	38.0	33%	12.4	65%	DWR
	Chagoopa Plateau	514	10,300	21.8						
		257	9,750	17.2	1-28	34.3	33%	11.2	65%	DWR
Big Whitney Meadow		256	9,600	17.8	1-27	39.1	30%	11.9	67%	DWR
Rock Creek		569	9,150	24.9	1-29	36.5	32%	11.8	47%	USFS
	Pascoe	258	9,000	24.1	1-29	30.1	36%	10.7	44%	USFS
	Wet Meadow	518	8,950	30.3						
	Tunnel Guard	830	8,900	15.6	1-28	14.0	39%	5.5	35%	DWR
		259	8,700	11.5	1-28	18.1	26%	4.7	41%	DWR
Ramshaw Meadows		260	8,500	12.9	1-28	18.9	32%	6.1	47%	DWR
Little Whitney Meadow		264	8,350	18.9						
Quinn Ranger Station		261	8,300	13.6	1-29	16.8	38%	6.4	47%	USFS
Bonita Meadows		262	8,300	19.8	1-29	25.3	32%	8.2	41%	USFS
Casa Vieja Meadows		262	8,300	20.9						
	Casa Vieja Meadows	265	7,650	8.3	1-29	13.0	39%	5.1	61%	USFS
Beach Meadows		860	7,650	11.0	1-29	0.0	0%	0.0	0%	USFS
Dead Horse Meadow		249	7,300	10.7						

CALIFORNIA COOPERATIVE SNOW SURVEYS FORECAST as of FEBRUARY 1, 2003 for KERN RIVER INFLOW TO ISABELLA RESERVOIR, ...  
 April-July = 340,000 acre-feet (72% of Average) \*\*\* Water Year = 580,000 acre-feet (78% of Average)  
 80 Percent Probability Flange (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 = 340,000 AcFt (46% of Average) to 1,050,000 AcFt (142% of Average)

**REPORT OF THE KERN RIVER WATERMASTER**

FEBRUARY 2003

PAGE 1 of 5

Quantities in S.F.D. except where noted

DAY	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED F LOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN RECREATION Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)	STORAGE IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT		FRIANT-KERN INFLOW	DAY
	ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET				S.F.D.	1ST POINT						+1ST POINT	RIVER		
Previous Day	2555.47	142,022	71,603	11	443	1	509	509	71,603	56,385	2	0	0	0	0	0
1	2555.47	142,022	71,603	30	457	1	488	514	71,629	56,411	4	0	0	0	0	1
2	2555.50	142,182	71,683	11	475	1	567	537	71,679	56,461	2	0	0	0	0	2
3	2555.52	142,287	71,736	13	488	1	555	529	71,706	56,488	2	0	0	0	0	3
4	2555.50	142,182	71,683	23	494	1	465	506	71,694	56,476	3	0	0	0	0	4
5	2555.49	142,128	71,656	16	506	2	497	481	71,651	56,433	2	0	0	0	0	5
6	2555.47	142,022	71,603	25	509	1	482	470	71,586	56,368	4	0	0	0	0	6
7	2555.43	141,808	71,495	30	508	1	431	437	71,484	56,266	4	0	0	0	0	7
8	2555.40	141,649	71,415	11	467	1	399	424	71,429	56,211	2	0	0	0	0	8
9	2555.40	141,649	71,415	14	426	1	441	436	71,424	56,206	2	0	0	0	0	9
10	2555.41	141,702	71,441	22	420	1	469	464	71,445	56,227	3	0	0	0	0	10
11	2555.44	141,862	71,522	11	389	2	483	479	71,522	56,304	2	0	0	0	0	11
12	2555.57	142,554	71,871	0	427	1	777	777	71,871	56,653	0	0	0	0	0	12
13	2555.67	143,089	72,141	0	577	1	848	848	72,141	56,923	0	0	0	0	0	13
14	2555.78	143,677	72,437	14	541	1	852	852	72,437	57,219	2	0	0	0	0	14
15	2555.96	144,646	72,926	13	263	1	766	766	72,926	57,708	2	0	0	0	0	15
16	2556.10	145,401	73,306	24	239	1	644	649	73,311	58,093	3	0	0	0	0	16
17	2556.25	146,215	73,717	14	293	2	660	625	73,687	58,469	2	0	0	0	0	17
18	2556.36	146,812	74,018	11	259	1	572	608	74,024	58,806	2	0	0	0	0	18
19	2556.45	147,303	74,265	16	328	1	592	566	74,245	59,027	2	0	0	0	0	19
20	2556.53	147,738	74,485	13	299	1	533	553	74,485	59,267	2	0	0	0	0	20
21	2556.62	148,231	74,733	18	265	1	532	548	74,749	59,531	3	0	0	0	0	21
22	2556.72	148,780	75,010	16	284	1	578	547	74,995	59,777	2	0	0	0	0	22
23	2556.81	149,274	75,259	16	265	2	532	546	75,258	60,040	2	0	0	0	0	23
24	2556.90	149,770	75,509	10	267	1	528	536	75,516	60,298	1	0	0	0	0	24
25	2557.02	150,432	75,843	3	209	2	548	539	75,841	60,623	0	0	0	0	0	25
26	2557.12	150,986	76,122	8	253	1	541	540	76,119	60,901	1	0	0	0	0	26
27	2557.19	151,374	76,318	10	324	2	535	535	76,318	61,100	1	0	0	0	0	27
28	2557.24	151,652	76,458	28	363	2	533	533	76,458	61,240	4	0	0	0	0	28
TOTAL SECOND FOOT DAYS				420	10,535	35	15,845	15,845		61,240	59	0	0	0	0	0
TOTAL ACRE-FEET				833	20,896	70	31,428	31,428	151,652	121,468	117	0	0	0	0	0

By: *And* Date: March 21, 2003

REPORT OF THE KERN RIVER WATERMASTER

Quantities in S.F.D. except where noted

FEBRUARY 2003

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

DAY	ENTL POINT	FLOW ABOVE 1ST POINT	RESERVOIR		ENTL AT 1ST POINT	FLOW			RESERVOIR		ENTITLEMENT Contributed by: NKWSD BVWSD	FLOW ABOVE 1ST POINT		RESERVOIR LOSS STORAGE DAY				
			LOSS	STORAGE		VIA KDWD	VIA CWD	AT 2ND POINT	LOSS	STORAGE		1ST POINT	LOSS		STORAGE			
Previous Day	503	443	1	8	39,749	0	0	0	0	0	3	16,636	0	0	0			
1	514	457	1	21	39,784	0	0	0	0	0	9	16,627	0	0	0			
2	537	475	1	8	39,837	0	0	0	0	3	16,624	0	0	0	0			
3	529	488	1	9	39,868	0	0	0	0	4	16,620	0	0	0	0			
4	506	490	1	16	39,867	0	4	0	0	7	16,609	0	0	0	0			
5	481	498	2	11	39,837	0	8	0	0	5	16,596	0	0	0	0			
6	470	493	1	18	39,795	0	16	0	0	7	16,573	0	0	0	0			
7	437	508	1	21	39,702	0	0	0	0	9	16,564	0	0	0	0			
8	424	466	1	8	39,651	0	1	0	0	3	16,560	0	0	0	0			
9	436	426	1	10	39,650	0	0	0	0	4	16,556	0	0	0	0			
10	464	419	1	16	39,678	0	1	0	0	6	16,549	0	0	0	0			
11	479	389	2	8	39,758	0	0	0	0	3	16,546	0	0	0	0			
12	777	427	1	0	40,107	0	0	0	0	0	16,546	0	0	0	0			
13	848	577	1	0	40,377	0	0	0	0	0	16,546	0	0	0	0			
14	852	538	1	10	40,680	0	3	0	0	4	16,539	0	0	0	0			
15	766	260	1	9	41,176	0	3	0	0	4	16,532	0	0	0	0			
16	649	235	1	17	41,572	0	4	0	0	7	16,521	0	0	0	0			
17	625	229	2	10	41,956	0	4	0	0	4	16,513	0	0	0	0			
18	608	253	1	8	42,302	0	6	0	0	3	16,504	0	0	0	0			
19	566	304	1	12	42,551	0	5	19	0	4	16,476	0	0	0	0			
20	553	271	1	9	42,823	0	9	19	0	4	16,444	0	0	0	0			
21	548	229	1	13	43,128	0	17	19	0	5	16,403	0	0	0	0			
22	547	268	1	12	43,394	0	16	0	0	4	16,383	0	0	0	0			
23	546	247	2	12	43,679	0	18	0	0	4	16,361	0	0	0	0			
24	536	249	1	7	43,958	0	18	0	0	3	16,340	0	0	0	0			
25	539	193	2	2	44,300	0	14	2	0	1	16,323	0	0	0	0			
26	540	234	1	6	44,599	0	15	4	0	2	16,302	0	0	0	0			
27	535	287	2	7	44,838	0	15	22	0	3	16,262	0	0	0	0			
28	533	323	2	21	45,025	0	17	23	0	7	16,215	0	0	0	0			
S.F.D.	15,845	10,233	35	301	45,025	0	194	108	0	119	16,215	0	0	0	0			
AC.FT.	31,428	20,296	70	597	89,306	0	385	215	0	236	32,162	0	0	0	0			
TOTAL ACRE-FOOT STORAGE DAYS												2,308,545	TOTAL ACRE-FOOT STORAGE DAYS		915,637	TOTAL ACRE-FOOT STORAGE DAYS		0

FEBRUARY 2003

WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH

February

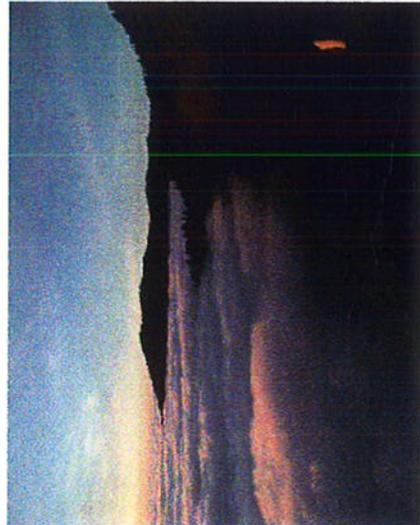
DAY(S)

PAGE NO.

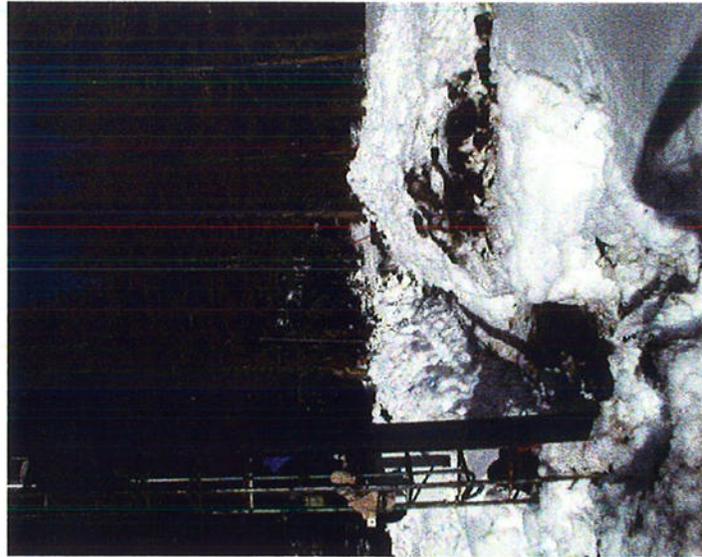
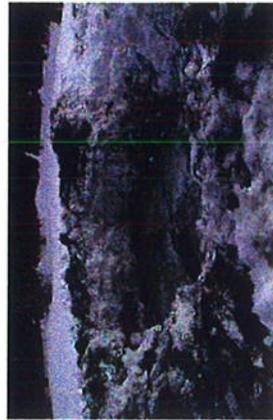
TITLE OF COLUMN

COMMENT

None



**WET MEADOW SNOW SENSOR**  
Elevation 8,950 Ft., KERN RIVER BASIN  
Maintenance Flight of February 20, 2003



Excerpt from Field Notes taken by Dan Garrigue of Sierra Hydrographics

"...February 20 was spent digging. There was about 1' of fairly soft snow that could be removed with a snow shovel, 2.5' of Sierra Concrete that was removed with square point shovels at a rate of about 2" per stroke...The last .5 to 1' was removed with axes."

Note: Sierra Hydrographics is a contractor of the U.S. Army Corps of Engineers providing maintenance services for Corps snow sensor sites in the Kern River Basin. Photos courtesy of Sierra Hydrographics.

**REPORT OF THE KERN RIVER WATERMASTER**

MARCH 2003

Quantities in S.F.D. except where noted

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		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)	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT		FRIANT- KERN INFLOW	DAY	
		MIDNIGHT STORAGE ACRE-FEET	S.F.D.									KERN	FRIANT			
Previous Day	2557.24	151,652	76,458	28	363	2	533	533	76,458	61,240	4	0	0	0	0	1
1	2557.28	151,874	76,570	25	396	2	535	532	76,567	61,349	3	0	0	0	0	2
2	2557.32	152,097	76,682	27	386	2	527	515	76,667	61,449	4	0	0	0	0	3
3	2557.35	152,264	76,766	25	372	2	483	498	76,766	61,548	3	0	0	0	0	4
4	2557.38	152,431	76,851	22	373	2	482	493	76,862	61,644	3	0	0	0	0	5
5	2557.42	152,655	76,964	14	386	2	515	501	76,961	61,743	2	0	0	0	0	6
6	2557.45	152,822	77,048	35	386	2	507	509	77,047	61,829	5	0	0	0	0	7
7	2557.48	152,990	77,133	14	403	2	504	494	77,122	61,904	2	0	0	0	0	8
8	2557.49	153,046	77,161	25	417	2	472	485	77,163	61,945	3	0	0	0	0	9
9	2557.50	153,102	77,189	35	414	2	479	473	77,185	61,967	5	0	0	0	0	10
10	2557.51	153,157	77,217	25	411	2	466	467	77,214	61,996	3	0	0	0	0	11
11	2557.52	153,213	77,245	27	400	2	457	480	77,265	62,047	4	0	0	0	0	12
12	2557.55	153,381	77,330	25	406	2	518	504	77,336	62,118	3	0	0	0	0	13
13	2557.58	153,549	77,414	39	410	2	535	529	77,414	62,196	5	0	0	0	0	14
14	2557.61	153,717	77,499	32	424	3	544	544	77,499	62,281	4	0	0	0	0	15
15	2557.83	154,954	78,123	21	446	2	1,093	1,093	78,123	62,905	3	0	0	0	0	16
16	2558.28	157,503	79,408	21	433	2	1,741	1,741	79,408	64,190	3	0	0	0	0	17
17	2558.57	159,161	80,244	7	417	2	1,262	1,262	80,244	65,026	1	0	0	0	0	18
18	2558.80	160,484	80,911	16	413	2	1,098	1,065	80,878	65,660	2	0	0	0	0	19
19	2558.99	161,582	81,464	31	413	3	1,000	1,006	81,437	66,219	2	0	0	0	0	20
20	2559.16	162,568	81,961	18	402	3	920	951	81,965	66,747	2	0	0	0	0	21
21	2559.34	163,616	82,490	23	378	3	933	909	82,470	67,252	3	0	0	0	0	22
22	2559.50	164,553	82,962	35	364	3	874	905	82,973	67,755	4	0	0	0	0	23
23	2559.67	165,550	83,465	38	365	3	909	904	83,471	68,253	5	0	0	0	0	24
24	2559.84	166,552	83,970	40	382	3	930	921	83,967	68,749	5	0	0	0	0	25
25	2560.00	167,499	84,447	33	409	4	923	903	84,424	69,206	4	0	0	0	0	26
26	2560.13	168,270	84,836	35	428	3	855	937	84,895	69,677	4	0	0	0	0	27
27	2560.32	169,401	85,406	30	428	4	1,032	979	85,412	70,194	4	0	0	0	0	28
28	2560.52	170,597	86,009	35	408	3	1,049	1,022	85,988	70,770	4	0	0	0	0	29
29	2560.70	171,679	86,555	29	407	3	985	1,013	86,562	71,344	3	0	0	0	0	30
30	2560.89	172,825	87,133	38	385	4	1,005	998	87,133	71,915	4	0	0	0	0	31
31	2561.08	173,975	87,712	44	406	4	1,033	1,033	87,712	72,494	5	0	0	0	0	31
TOTAL SECOND FOOT DAYS				864	12,468	80	24,666	24,666	87,712	72,494	109	0	0	0	0	0
TOTAL ACRE-FEET				1,714	24,730	159	48,924	48,924	173,975	143,791	216	0	0	0	0	0

By: 

Date: April 24, 2003

REPORT OF THE KERN RIVER WATERMASTER

Quantities in S.F.D. except where noted

MARCH 2003

NORTH KERN WATER STORAGE DISTRICT										BUENA VISTA WATER STORAGE DISTRICT										HACIENDA WATER DISTRICT									
DAY	ENTL AT 1ST		FLOW ABOVE 1ST		RESERVOIR		ENTL AT 2ND		FLOW VIA		RESERVOIR		ENTITLEMENT		FLOW ABOVE 1ST		RESERVOIR		ENTL AT 1ST		FLOW ABOVE 1ST		RESERVOIR						
	POINT	POINT	POINT	POINT	LOSS	STORAGE	POINT	POINT	KDWD	VIA	CWD	POINT	POINT	CONTRIBUTED BY:	NKWS	BVWS	POINT	POINT	LOSS	STORAGE	POINT	POINT	LOSS	STORAGE	DAY				
Previous Day	533	323	2	21	45,025	0	17	23	0	7	16,215	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	458	381	2	18	45,082	74	15	0	0	7	16,267	0	0	0	0	0	0	0	0	0	0	0	0	0	1				
2	447	370	2	20	45,137	68	16	0	0	7	16,312	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
3	435	355	2	18	45,197	63	17	0	0	7	16,351	0	0	0	0	0	0	0	0	0	0	0	0	0	3				
4	432	347	2	16	45,264	61	26	0	0	6	16,380	0	0	0	0	0	0	0	0	0	0	0	0	0	4				
5	437	354	2	10	45,335	64	32	0	0	4	16,408	0	0	0	0	0	0	0	0	0	0	0	0	0	5				
6	443	353	2	26	45,397	66	33	0	0	9	16,432	0	0	0	0	0	0	0	0	0	0	0	0	0	6				
7	432	370	2	10	45,447	62	33	0	0	4	16,457	0	0	0	0	0	0	0	0	0	0	0	0	0	7				
8	426	383	2	18	45,470	59	34	0	0	7	16,475	0	0	0	0	0	0	0	0	0	0	0	0	0	8				
9	418	380	2	26	45,480	55	34	0	0	9	16,487	0	0	0	0	0	0	0	0	0	0	0	0	0	9				
10	414	380	2	18	45,494	53	31	0	0	7	16,502	0	0	0	0	0	0	0	0	0	0	0	0	0	10				
11	423	369	2	20	45,526	57	31	0	0	7	16,521	0	0	0	0	0	0	0	0	0	0	0	0	0	11				
12	439	374	2	18	45,571	65	32	0	0	7	16,547	0	0	0	0	0	0	0	0	0	0	0	0	0	12				
13	456	377	2	29	45,619	73	33	0	0	10	16,577	0	0	0	0	0	0	0	0	0	0	0	0	0	13				
14	466	411	3	24	45,647	78	13	0	0	8	16,634	0	0	0	0	0	0	0	0	0	0	0	0	0	14				
15	841	442	2	15	46,029	252	4	0	0	6	16,876	0	0	0	0	0	0	0	0	0	0	0	0	0	15				
16	1,283	426	2	15	46,869	458	7	0	0	6	17,321	0	0	0	0	0	0	0	0	0	0	0	0	0	16				
17	956	415	2	5	47,403	306	2	0	0	2	17,623	0	0	0	0	0	0	0	0	0	0	0	0	0	17				
18	822	410	2	12	47,801	243	3	0	0	4	17,859	0	0	0	0	0	0	0	0	0	0	0	0	0	18				
19	781	411	3	23	48,145	225	2	0	0	8	18,074	0	0	0	0	0	0	0	0	0	0	0	0	0	19				
20	744	400	3	13	48,473	207	2	0	0	5	18,274	0	0	0	0	0	0	0	0	0	0	0	0	0	20				
21	715	376	3	17	48,792	194	2	0	0	6	18,460	0	0	0	0	0	0	0	0	0	0	0	0	0	21				
22	713	352	3	25	49,125	192	12	0	0	10	18,630	0	0	0	0	0	0	0	0	0	0	0	0	0	22				
23	712	361	3	28	49,445	192	4	0	0	10	18,808	0	0	0	0	0	0	0	0	0	0	0	0	0	23				
24	723	379	3	29	49,757	198	3	0	0	11	18,992	0	0	0	0	0	0	0	0	0	0	0	0	0	24				
25	711	406	4	24	50,034	192	3	0	0	9	19,172	0	0	0	0	0	0	0	0	0	0	0	0	0	25				
26	734	426	3	25	50,314	203	2	0	0	10	19,363	0	0	0	0	0	0	0	0	0	0	0	0	0	26				
27	763	420	4	22	50,631	216	8	0	0	8	19,563	0	0	0	0	0	0	0	0	0	0	0	0	0	27				
28	792	400	3	25	50,995	230	8	0	0	10	19,775	0	0	0	0	0	0	0	0	0	0	0	0	0	28				
29	786	395	3	21	51,362	227	12	0	0	8	19,982	0	0	0	0	0	0	0	0	0	0	0	0	0	29				
30	776	371	4	27	51,736	222	14	0	0	11	20,179	0	0	0	0	0	0	0	0	0	0	0	0	0	30				
31	800	399	4	32	52,101	233	7	0	0	12	20,393	0	0	0	0	0	0	0	0	0	0	0	0	0	31				
S.F.D.	19,778	11,993	80	629	52,101	4,888	475	0	0	235	20,393	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S.F.D.			
AC.FT.	39,229	23,788	159	1,248	103,342	9,695	942	0	0	466	40,449	0	0	0	0	0	0	0	0	0	0	0	0	0	0	AC.FT.			
TOTAL ACRE-FOOT STORAGE DAYS										TOTAL ACRE-FOOT STORAGE DAYS										TOTAL ACRE-FOOT STORAGE DAYS									
2,924,979										1,090,302										0									

MONTH  
March

DAYS

TITLE OF COLUMN

COMMENT

None

**KERN RIVER  
SECOND POINT ENTITLEMENT  
1954-2002**

(Quantities in thousands of acre-feet)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	Mar-Aug	Sep-Feb
1954	0.0	0.0	7.2	20.6	26.4	30.7	9.3	2.1	0.0	0.0	0.0	0.0	0.0	96.3	0.0
1955	0.0	0.0	0.0	4.8	16.2	22.9	3.4	0.0	0.0	0.0	0.0	13.2	60.5	47.3	13.2
1956	6.8	0.0	14.2	25.3	48.0	51.8	25.9	7.7	0.0	0.0	0.0	0.0	179.7	172.9	6.8
1957	0.0	0.0	1.1	4.8	19.5	38.1	8.1	0.3	0.0	0.0	0.0	0.0	71.9	71.9	0.0
1958	0.0	0.6	12.9	52.5	118.7	72.6	20.9	11.9	0.0	0.0	0.0	0.0	280.1	289.5	0.6
1959	0.0	0.0	0.4	7.2	6.2	3.6	0.2	0.0	0.0	0.0	0.0	0.0	17.4	17.4	0.0
1960	0.0	0.2	0.0	7.2	12.7	8.6	0.2	0.0	0.0	0.0	0.0	0.0	28.9	28.7	0.2
1961	0.0	0.0	0.0	2.0	3.7	2.3	0.7	0.0	0.0	0.0	0.0	0.0	8.7	8.7	0.0
1962	0.0	2.6	1.4	43.9	39.4	47.1	17.9	2.8	0.0	0.0	0.0	0.0	155.1	152.5	2.6
1963	4.1	13.5	8.0	16.4	39.5	50.1	27.9	9.0	0.0	0.0	0.0	0.0	168.5	150.9	17.6
1964	0.0	0.0	2.2	8.0	13.7	11.7	1.7	0.1	0.0	0.0	0.0	3.8	41.2	37.4	3.8
1965	0.0	0.0	5.8	20.0	27.3	44.2	24.5	9.7	0.0	0.0	0.0	0.0	141.5	141.5	0.0
1966	0.0	0.0	6.6	16.2	20.3	8.8	1.5	0.6	0.0	0.0	0.0	75.6	128.6	54.0	75.6
1967	0.4	0.3	21.6	24.2	89.3	111.0	75.1	24.2	0.0	0.0	0.0	0.0	346.1	345.4	0.7
1968	0.0	0.0	9.8	15.2	22.1	14.7	3.9	0.9	0.0	0.0	0.0	0.0	66.6	66.6	0.0
1969	39.3	9.4	48.6	124.3	222.1	173.1	81.4	29.7	0.0	0.0	0.0	0.0	727.9	679.2	48.7
1970	4.3	0.0	13.3	14.5	29.8	25.1	10.1	1.9	0.0	0.0	0.0	0.0	99.0	94.7	4.3
1971	0.0	0.0	7.5	11.1	15.3	20.6	6.6	7.7	0.0	0.0	0.0	0.0	63.1	63.1	0.0
1972	0.0	0.0	4.7	3.3	8.8	6.6	0.2	0.0	0.0	0.0	0.0	0.0	23.6	23.6	0.0
1973	0.0	0.0	11.1	102.0	76.3	23.1	7.1	0.0	0.0	0.0	0.0	0.0	250.7	250.7	0.0
1974	0.1	0.0	17.8	31.0	57.7	52.5	16.3	6.8	0.0	0.0	0.0	0.0	182.2	182.1	0.1
1975	0.0	0.0	7.8	9.2	43.7	42.2	10.6	1.5	0.0	0.0	0.0	0.0	115.0	115.0	0.0
1976	0.0	0.0	1.5	2.6	9.1	1.1	0.5	0.4	0.0	0.0	0.0	0.0	15.2	15.2	0.0
1977	0.0	0.0	0.0	2.0	2.3	5.7	0.0	0.1	0.0	0.0	0.0	0.4	10.5	10.1	0.4
1978	0.7	15.2	56.0	54.8	132.4	106.6	61.6	17.6	3.1	0.0	0.0	0.0	448.0	429.0	19.0
1979	0.0	0.0	17.3	26.9	49.9	26.7	9.0	2.8	0.0	0.0	0.0	0.0	134.6	134.6	0.0
1980	25.2	30.5	40.5	65.4	97.2	94.8	57.9	13.0	0.0	0.0	0.0	0.0	430.5	374.8	55.7
1981	0.0	0.0	8.7	16.4	23.4	15.2	2.3	0.1	0.0	0.0	0.0	0.0	66.1	66.1	0.0
1982	0.0	1.4	19.4	73.8	66.0	60.0	30.0	13.7	5.8	0.0	0.0	0.0	296.1	282.9	13.2
1983	6.1	17.7	95.9	57.4	171.2	203.8	97.8	46.1	0.0	0.0	0.0	0.0	700.7	667.0	33.7
1984	0.5	0.0	20.7	23.4	48.9	24.0	18.6	9.9	0.0	0.0	0.0	0.0	146.0	145.5	0.5
1985	0.0	0.0	11.3	39.3	42.5	1.7	7.3	1.7	0.0	0.0	0.0	0.0	128.5	128.5	0.0
1986	0.1	26.8	88.0	63.5	99.5	87.5	31.4	12.2	0.0	0.0	0.0	0.0	389.0	362.1	26.9
1987	0.0	0.0	7.4	11.9	18.0	12.2	2.1	0.1	0.0	0.0	0.0	0.0	51.7	51.7	0.0
1988	0.0	0.0	3.8	6.9	12.7	8.1	1.0	0.1	0.0	0.0	0.0	0.0	32.6	32.6	0.0
1989	0.0	0.0	15.7	23.4	17.0	10.2	1.1	0.0	0.0	0.0	0.0	0.0	67.4	67.4	0.0
1990	0.0	0.0	1.5	4.5	6.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	16.1	16.1	0.0
1991	0.0	0.0	9.9	12.8	19.5	26.7	6.3	0.1	0.0	0.0	0.0	0.0	75.3	75.3	0.0
1992	0.0	0.0	2.5	12.0	17.8	4.8	0.1	0.0	0.0	0.0	0.0	0.0	37.2	37.2	0.0
1993	0.5	0.0	24.3	38.0	64.6	49.2	22.1	4.5	0.0	0.0	0.0	0.0	203.2	202.7	0.5
1994	0.0	0.0	6.4	9.1	15.5	12.2	1.1	0.0	0.0	0.0	0.0	0.0	44.3	44.3	0.0
1995	0.2	0.2	48.7	39.7	84.1	99.9	71.5	29.8	0.0	0.0	0.0	0.0	367.1	366.7	0.4
1996	0.3	8.9	28.6	43.8	76.3	47.5	16.6	4.4	0.0	0.0	0.0	0.0	234.5	217.2	17.3
1997	48.9	6.8	35.2	41.7	70.6	41.8	17.0	6.2	0.0	0.0	0.0	0.0	266.2	210.5	55.7
1998	0.2	18.1	45.0	55.4	102.7	129.6	89.6	24.3	0.0	0.0	0.0	0.0	458.9	440.6	18.3
1999	0.0	0.0	6.4	12.1	26.4	16.2	4.6	0.1	0.0	0.0	0.0	0.0	63.8	63.8	0.0
2000	0.0	0.0	10.1	15.8	36.5	20.2	3.1	0.3	0.0	0.0	0.0	0.0	86.0	86.0	0.0
2001	0.0	0.0	5.9	12.9	34.2	8.0	2.4	0.0	0.0	0.0	0.0	0.1	63.5	63.4	0.1
2002	0.0	0.0	4.2	13.0	16.4	14.6	1.7	0.0	0.0	0.0	0.0	0.0	61.5	49.9	11.6
Mean	2.8	3.1	16.2	25.9	48.4	42.4	18.6	6.2	0.2	0.0	0.4	2.2	166.4	157.7	8.7

**REPORT OF THE KERN RIVER WATERMASTER**

APRIL 2003

Quantities in S.F.D. except where noted

PAGE 1 of 5

DAY	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE		KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT		FRIANT-KERN INFLOW DAY
	ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET				S.F.D.	RESERVOIR STORAGE S.F.D.		STORAGE+LOSS +1ST POINT	STORAGE+LOSS 1ST POINT			RECREATION POOL + Dead Storage = 15,218 S.F.D. (30,184 ACFT)	TOTAL IRRIGATION	
Previous Day	2561.08	173,975	87,712	44	406	1,033	1,033	1,033	87,712	72,494	5	0	0	0	0
1	2561.27	175,130	88,295	70	486	1,142	1,142	1,136	88,289	73,071	8	0	0	0	1
2	2561.47	176,353	88,911	16	489	1,124	1,124	1,101	88,882	73,664	2	0	0	0	2
3	2561.64	177,395	89,437	31	476	1,036	1,036	1,073	89,445	74,227	3	0	0	0	3
4	2561.82	178,503	89,995	17	480	1,058	1,058	1,014	89,959	74,741	2	0	0	0	4
5	2561.96	179,369	90,432	40	469	949	949	960	90,407	75,189	4	0	0	0	5
6	2562.08	180,111	90,806	40	457	874	874	904	90,811	75,593	4	0	0	0	6
7	2562.21	180,920	91,214	16	463	890	890	886	91,215	75,997	2	0	0	0	7
8	2562.34	181,729	91,622	21	461	893	893	874	91,604	76,386	2	0	0	0	8
9	2562.45	182,416	91,968	23	465	838	838	893	92,005	76,787	2	0	0	0	9
10	2562.59	183,292	92,410	54	451	950	950	922	92,419	77,201	6	0	0	0	10
11	2562.75	184,299	92,917	50	417	977	977	980	92,929	77,711	5	0	0	0	11
12	2562.93	185,433	93,489	51	388	1,014	1,014	1,008	93,495	78,277	5	0	0	0	12
13	2563.13	186,699	94,127	11	380	1,032	1,032	1,057	94,158	78,940	1	0	0	0	13
14	2563.35	188,097	94,832	11	406	1,126	1,126	1,103	94,840	79,622	1	25	25	0	14
15	2563.57	189,503	95,541	25	413	1,150	1,150	1,126	95,525	80,307	3	23	23	0	15
16	2563.78	190,850	96,220	25	394	1,101	1,101	1,080	96,183	80,965	3	26	26	0	16
17	2563.96	192,010	96,805	11	391	990	990	1,017	96,795	81,577	1	20	20	0	17
18	2564.12	193,044	97,326	35	400	960	960	969	97,325	82,107	4	24	24	0	18
19	2564.28	194,082	97,850	40	389	956	956	937	97,830	82,612	4	32	32	0	19
20	2564.42	194,993	98,309	42	390	894	894	896	98,291	83,073	4	31	31	0	20
21	2564.55	195,841	98,737	15	393	839	839	855	98,735	83,517	1	29	29	0	21
22	2564.68	196,692	99,166	2	398	832	832	840	99,172	83,954	0	31	31	0	22
23	2564.80	197,478	99,562	46	403	849	849	832	99,551	84,333	4	29	29	0	23
24	2564.92	198,268	99,960	17	396	815	815	826	99,960	84,742	2	29	29	0	24
25	2565.03	198,992	100,325	50	398	816	816	829	100,338	85,120	5	27	27	0	25
26	2565.15	199,786	100,725	54	397	854	854	842	100,725	85,507	5	30	30	0	26
27	2565.27	200,579	101,125	54	396	854	854	845	101,116	85,898	5	17	17	0	27
28	2565.39	201,377	101,528	34	386	826	826	838	101,531	86,313	3	7	7	0	28
29	2565.49	202,042	101,863	52	445	836	836	833	101,863	86,645	5	0	0	0	168
30	2565.58	202,641	102,165	21	504	831	831	831	102,165	86,947	2	0	0	0	250
TOTAL SECOND FOOT DAYS				974	12,781	99	28,307	28,307	102,165	86,947	98	380	380	0	418
TOTAL ACRE-FEET				1,932	25,351	197	56,146	56,146	202,641	172,457	194	754	754	0	828

By:  Date: May 22, 2003

**REPORT OF THE KERN RIVER WATERMASTER**

Quantities in S.F.D. except where noted

APRIL 2003

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

DAY	ENTL		RESERVOIR		ENTL		RESERVOIR		ENTL		RESERVOIR		ENTL		RESERVOIR		ENTL		RESERVOIR		ENTL		RESERVOIR				
	AT 1ST	POINT	AT 1ST	POINT	AT 2ND	POINT	AT 2ND	POINT	VIA	KDWD	VIA	CWD	AT 2ND	POINT	LOSS	STORAGE	AT 2ND	POINT	AT 2ND	POINT	LOSS	STORAGE	AT 2ND	POINT	LOSS	STORAGE	
Previous Day	800	399	4	32	52,101	233	7	0	0	0	0	0	0	12	20,393	0	0	0	0	0	0	0	0	0	0	0	
1	870	479	3	51	52,438	266	7	0	0	0	0	0	19	20,633	0	0	0	0	0	0	0	0	0	0	0	1	
2	846	482	3	12	52,787	255	7	0	0	0	0	0	4	20,877	0	0	0	0	0	0	0	0	0	0	0	0	2
3	827	475	3	22	53,114	246	1	0	0	0	0	0	9	21,113	0	0	0	0	0	0	0	0	0	0	0	0	3
4	787	475	3	12	53,411	227	5	0	0	0	0	0	5	21,330	0	0	0	0	0	0	0	0	0	0	0	0	4
5	750	464	3	29	53,665	210	5	0	0	0	0	0	11	21,524	0	0	0	0	0	0	0	0	0	0	0	0	5
6	712	452	3	29	53,893	192	5	0	0	0	0	0	11	21,700	0	0	0	0	0	0	0	0	0	0	0	0	6
7	700	455	3	11	54,124	186	8	0	0	0	0	0	5	21,873	0	0	0	0	0	0	0	0	0	0	0	0	7
8	691	448	3	15	54,349	183	13	0	0	0	0	0	6	22,037	0	0	0	0	0	0	0	0	0	0	0	0	8
9	704	451	4	16	54,582	189	14	0	0	0	0	0	7	22,205	0	0	0	0	0	0	0	0	0	0	0	0	9
10	724	436	3	39	54,828	198	15	0	0	0	0	0	15	22,373	0	0	0	0	0	0	0	0	0	0	0	0	10
11	764	412	3	36	55,141	216	5	0	0	0	0	0	14	22,570	0	0	0	0	0	0	0	0	0	0	0	0	11
12	783	382	3	36	55,503	225	6	0	0	0	0	0	15	22,774	0	0	0	0	0	0	0	0	0	0	0	0	12
13	816	380	3	8	55,928	241	0	0	0	0	0	0	3	23,012	0	0	0	0	0	0	0	0	0	0	0	0	13
14	848	378	4	8	56,386	255	3	0	0	0	0	0	25	23,236	0	0	0	0	0	0	0	0	0	0	0	0	14
15	863	381	3	18	56,847	263	9	0	0	0	0	0	23	23,460	0	0	0	0	0	0	0	0	0	0	0	0	15
16	832	364	3	18	57,294	248	4	0	0	0	0	0	26	23,671	0	0	0	0	0	0	0	0	0	0	0	0	16
17	789	369	3	8	57,703	228	2	0	0	0	0	0	20	23,874	0	0	0	0	0	0	0	0	0	0	0	0	17
18	756	375	4	25	58,055	213	1	0	0	0	0	0	24	24,052	0	0	0	0	0	0	0	0	0	0	0	0	18
19	734	354	3	28	58,404	203	3	0	0	0	0	0	32	24,208	0	0	0	0	0	0	0	0	0	0	0	0	19
20	706	359	3	30	58,718	190	0	0	0	0	0	0	31	24,355	0	0	0	0	0	0	0	0	0	0	0	0	20
21	678	364	3	11	59,018	177	0	0	0	0	0	0	29	24,499	0	0	0	0	0	0	0	0	0	0	0	0	21
22	668	367	3	1	59,315	172	0	0	0	0	0	0	31	24,639	0	0	0	0	0	0	0	0	0	0	0	0	22
23	663	374	4	33	59,567	169	0	0	0	0	0	0	29	24,766	0	0	0	0	0	0	0	0	0	0	0	0	23
24	659	367	4	12	59,843	167	0	0	0	0	0	0	29	24,899	0	0	0	0	0	0	0	0	0	0	0	0	24
25	661	371	3	36	60,094	168	0	0	0	0	0	0	27	25,026	0	0	0	0	0	0	0	0	0	0	0	0	25
26	670	361	4	38	60,361	172	6	0	0	0	0	0	30	25,146	0	0	0	0	0	0	0	0	0	0	0	0	26
27	672	374	4	38	60,617	173	5	0	0	0	0	0	17	25,281	0	0	0	0	0	0	0	0	0	0	0	0	27
28	667	374	3	24	60,883	171	5	0	0	0	0	0	7	25,430	0	0	0	0	0	0	0	0	0	0	0	0	28
29	663	439	4	37	61,066	170	6	0	0	0	0	0	0	15	25,579	0	0	0	0	0	0	0	0	0	0	0	29
30	662	493	4	15	61,216	169	11	0	0	0	0	0	0	6	25,731	0	0	0	0	0	0	0	0	0	0	0	30
S.F.D.	22,165	12,255	99	696	61,216	6,142	146	0	0	0	0	0	380	278	25,731	0	0	0	0	0	0	0	0	0	0	0	S.F.D.
AC.FT.	43,964	24,308	197	1,381	121,420	12,182	289	0	0	0	0	0	754	551	51,037	0	0	0	0	0	0	0	0	0	0	0	AC.FT.
TOTAL ACRE-FOOT STORAGE DAYS		3,390,048		TOTAL ACRE-FOOT STORAGE DAYS		1,392,144		TOTAL ACRE-FOOT STORAGE DAYS		0		TOTAL ACRE-FOOT STORAGE DAYS		0													

WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH DAY(S) PAGE NO. TITLE OF COLUMN

April 29 1 FRIANT-KERN INFLOW

COMMENT

Reflects Friant-Kern Inflow to Kern River Channel as per terms of Arvin-Edison Water Storage District/ Rosedale-Rio Bravo Water Storage District Banking and Exchange Agreement dated May 6, 2003.

KERN RIVER BASIN - HISTORICAL SNOW COURSE DATA  
APRIL 1ST WATER CONTENT IN INCHES

YEAR	BIGHORN PLATEAU	COTTONWOOD PASS	SIBERIAN PASS	CRABTREE MEADOW	GUIYOT 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	6.8	51%
1949	13.2	9.1	5.8	12.8	12.0	12.8	12.7	11.6	9.8	28.7	9.4	9.4	10.9	15.0	15.0	10.5	10.5	13.1
1950	21.0	10.9	18.5	17.8	18.8	16.3	16.8	16.1	16.9	30.2	10.5	12.1	19.7	17.6	13.5	7.1	16.6	45%
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	64%
1952	43.2	32.2	35.0	34.2	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	288%
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	16.7	15.7	18.3	29.2	12.2	17.0	23.5	21.3	15.4	10.1	17.8	75%
1955	14.7	6.1	11.5	13.4	15.3	13.4	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	12.5	26.7	25.7	27.9	25.1	24.3	21.7	23.0	22.3	9.0	19.5	15.1	12.8	8.9	0.0	18.9	112%
1957	25.3	11.7	14.1	12.5	14.1	12.5	11.2	11.5	10.0	4.7	6.8	17.1	10.9	14.4	6.3	0.0	10.5	62%
1958	20.5	20.5	23.5	24.5	25.3	24.5	24.0	22.7	23.7	17.0	17.0	30.9	30.9	14.4	25.6	21.5	24.8	177%
1959	11.8	4.7	9.4	9.0	16.7	7.9	9.5	9.4	6.0	6.0	9.2	9.8	8.4	5.7	1.8	0.0	7.0	33%
1960	11.8	9.4	7.9	9.0	16.7	7.9	9.5	9.4	6.0	6.0	9.2	9.8	8.4	5.7	1.8	0.0	7.0	33%
1961	6.0	5.8	6.0	7.1	7.9	4.5	4.3	6.3	4.8	12.5	0.0	0.0	0.0	1.6	5.9	0.7	4.6	18%
1962	37.4	27.0	31.8	35.5	41.7	32.6	31.4	30.7	30.6	40.5	12.6	11.0	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	15.5	15.1	12.6	11.4	8.1	10.8	5.2	1.0	13.5	101%
1964	5.1	1.5	3.9	6.1	6.1	5.4	4.8	4.3	4.3	5.0	8.6	11.4	17.0	16.5	10.3	7.0	16.0	97%
1965	25.8	13.1	16.4	20.1	18.0	19.8	17.8	13.7	15.0	25.2	13.5	11.4	14.2	10.6	10.9	4.7	11.5	47%
1966	15.7	7.1	14.0	12.9	15.3	11.9	13.2	11.6	10.9	18.5	19.4	20.3	27.8	10.6	14.5	3.0	25.5	196%
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	10.6	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	48.8	45.0	45.8	69.8	38.1	46.1	61.4	59.8	50.2	38.8	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	22.5	19.0	20.4	19.1	18.1	29.8	14.3	14.8	21.2	22.0	14.8	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	16.5	10.3	16.5	82%
1976	5.9	4.4	5.8	3.3	5.4	3.3	4.7	5.5	5.5	11.9	0.9	0.0	7.2	6.3	7.2	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	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	36.7	233%
1979	19.9	13.2	17.5	17.5	17.5	17.7	18.8	14.7	14.2	25.3	12.2	14.2	14.2	18.2	18.2	14.9	16.9	89%
1980	29.4	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	28.2	23.0	23.0	11.6	15.7	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	17.6	18.1	17.6	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	14.1	20.5	20.8	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	38.6	37.3	35.1	35.1	34.8	36.5	44.2	22.8	25.4	35.0	29.8	21.3	21.3	32.6	189%
1987	13.8	7.6	9.9	11.5	8.2	11.0	10.0	7.8	8.1	15.8	6.3	8.3	9.8	17.3	9.0	1.3	9.5	45%
1988	18.7	13.8	19.0	18.9	17.7	16.9	16.5	14.0	14.1	20.7	9.0	0.0	17.2	2.4	0.4	0.0	5.1	34%
1989	15.9	13.1	13.1	12.5	12.5	13.3	14.1	15.2	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	6.8	7.7	6.8	7.9	6.2	6.9	8.9	11.6	14.2	14.0	4.9	1.6	0.0	4.8	36%
1991	19.1	14.1	17.5	18.6	17.1	17.1	17.2	15.1	17.0	21.0	11.6	14.2	14.0	21.0	15.0	7.0	11.1	58%
1992	12.7	11.7	13.2	12.2	12.2	12.2	12.0	12.0	9.1	21.0	7.7	9.0	10.8	21.0	11.0	4.0	11.1	38%
1993	33.7	19.6	23.9	27.7	30.2	27.7	29.3	26.4	28.8	41.0	19.8	22.5	30.6	32.1	11.0	14.5	27.3	124%
1994	13.4	6.7	11.3	11.2	11.2	11.2	11.5	8.8	10.6	14.3	5.9	7.1	10.2	7.9	2.9	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	26.8	14.5	32.3	198%
1996	29.6	17.7	23.0	23.2	24.6	23.4	25.9	18.6	18.6	31.0	12.5	16.5	25.5	21.0	18.9	9.8	21.4	127%
1997	26.7	17.0	26.7	26.1	28.1	26.1	26.1	19.0	21.9	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	22.9	28.3	20.0	22.1	9.1	0.6	50.5	242%
1999	5.7	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	14.3	14.6	14.3	14.8	12.1	13.4	18.4	6.1	6.7	7.1	14.4	7.0	1.0	12.6	46%
2003	16.6	11.4	15.6	15.1	16.2	15.1	14.1	13.9	14.4	14.4	6.8	7.4	7.1	11.1	5.2	1.0	11.8	70% (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	37.7
MINIMUM	5.0	1.5	3.9	3.3	4.8	3.1	3.4	4.0	3.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	17.1
AVERAGE	22.1	14.2	18.6	18.7	20.1	18.5	18.7	16.6	17.5	24.6	11.1	13.2	19.1	18.6	13.5	7.9	17.1	118%

Quantities in S.F.D. except where noted

MAY 2003

REPORT OF THE KERN RIVER WATERMASTER

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE		COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW		FRIANT-KERN INFLOW DAY	
		ACRE-FEET	S.F.D.				+1ST POINT	+1ST POINT					KERN RIVER	FRIANT-KERN		
Previous Day	2565.58	202,641	102,165	21	504	4	831	831	831	102,165	86,947	0	0	0	0	250
1	2565.68	203,310	102,502	8	454	7	806	806	806	102,502	87,284	0	0	0	0	251
2	2565.77	203,911	102,805	19	439	7	768	768	826	102,863	87,645	2	8	8	0	296
3	2565.93	204,985	103,347	2	391	7	942	942	949	103,412	88,194	0	32	32	0	352
4	2566.15	206,466	104,093	2	383	7	1,138	1,138	1,113	104,133	88,915	0	24	24	0	355
5	2566.39	208,089	104,912	37	396	7	1,259	1,259	1,190	104,883	89,665	3	0	0	0	351
6	2566.58	209,379	105,562	58	458	7	1,173	1,173	1,184	105,544	90,326	5	0	0	0	349
7	2566.77	210,673	106,214	41	419	7	1,119	1,119	1,105	106,182	90,964	4	0	0	0	344
8	2566.94	211,837	106,801	33	397	7	1,024	1,024	1,017	106,762	91,544	3	0	0	0	356
9	2567.08	212,797	107,285	37	380	7	908	908	975	107,313	92,095	3	11	11	0	347
10	2567.24	213,899	107,841	47	383	7	993	993	963	107,839	92,621	4	17	17	0	346
11	2567.40	215,003	108,397	44	381	7	988	988	1,003	108,410	93,192	4	17	17	0	352
12	2567.57	216,180	108,991	38	388	7	1,027	1,027	1,036	109,013	93,795	3	4	4	0	345
13	2567.73	217,292	109,551	68	457	8	1,093	1,093	1,095	109,575	94,357	6	0	0	0	346
14	2567.88	218,337	110,078	92	539	8	1,166	1,166	1,170	110,106	94,888	8	0	0	0	383
15	2568.04	219,454	110,641	72	609	8	1,292	1,292	1,235	110,652	95,434	6	0	0	0	400
16	2568.20	220,576	111,207	65	647	8	1,286	1,286	1,289	111,201	95,983	6	0	0	0	306
17	2568.37	221,771	111,810	36	623	8	1,270	1,270	1,366	111,900	96,682	3	0	0	0	300
18	2568.59	223,323	112,592	85	665	8	1,540	1,540	1,500	112,642	97,424	7	0	0	0	234
19	2568.82	224,953	113,414	82	779	8	1,691	1,691	1,712	113,485	98,267	7	0	0	0	201
20	2569.10	226,946	114,419	84	808	8	1,905	1,905	1,852	114,437	99,219	7	0	0	0	93
21	2569.38	228,951	115,430	84	857	8	1,960	1,960	2,026	115,514	100,296	7	0	0	0	0
22	2569.73	231,471	116,700	56	879	9	2,214	2,214	2,264	116,834	101,616	4	0	0	0	0
23	2570.16	234,587	118,271	100	937	9	2,617	2,617	2,490	118,278	103,060	8	0	0	0	0
24	2570.60	237,802	119,892	103	906	8	2,638	2,638	2,672	119,933	104,715	8	0	0	0	0
25	2571.07	241,264	121,637	95	913	9	2,762	2,762	2,833	121,749	106,531	7	0	0	0	0
26	2571.62	245,352	123,698	85	945	9	3,100	3,100	3,060	123,770	108,552	6	0	0	0	0
27	2572.21	249,783	125,932	78	996	9	3,317	3,317	3,404	126,091	110,873	6	0	0	0	0
28	2572.89	254,943	128,534	113	1,072	9	3,795	3,795	3,631	128,529	113,311	8	0	0	0	0
29	2573.54	259,932	131,049	117	1,139	9	3,780	3,780	3,785	131,049	115,831	8	4	4	0	0
30	2574.20	265,056	133,632	96	1,189	9	3,877	3,877	3,877	133,632	118,414	6	10	10	0	0
31	2574.87	270,313	136,283	63	1,078	9	3,801	3,801	3,801	136,283	121,065	4	0	0	0	0
TOTAL SECOND FOOT DAYS				1,940	20,907	244	57,209	57,209	57,209	136,283	121,065	154	127	127	0	6,307
TOTAL ACRE-FEET				3,848	41,468	484	113,472	113,472	113,472	270,313	240,129	305	252	252	0	12,510

By: *[Signature]*

Date: June 16, 2003

REPORT OF THE KERN RIVER WATERMASTER

Quantities in S.F.D. except where noted

MAY 2003

NORTH KERN WATER STORAGE DISTRICT

BUENA VISTA WATER STORAGE DISTRICT

HACIENDA WATER DISTRICT

DAY	ENTL AT 1ST		FLOW ABOVE 1ST		ENTL AT 2ND	RESERVOIR STORAGE		FLOW VIA		FLOW AT 2ND		FLOW ABOVE 1ST PT. CARMEL		ENTITLEMENT Contributed by:		FLOW ABOVE 1ST POINT		RESERVOIR STORAGE																					
	POINT	POINT	POINT	POINT		POINT	LOSS	STORAGE	KWD	VIA	KWD	POINT	INC.	HACIENDA	NKWS	BWSD	POINT	POINT	LOSS	STORAGE																			
Previous Day	682	493	4	15	61,216	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
1	645	446	5	6	61,404	161	8	0	0	2	25,880	2	25,880	0	0	0	0	0	0	0																			
2	669	426	6	13	61,618	167	5	0	8	1	26,027	6	26,027	0	0	0	0	0	0	0																			
3	743	350	5	1	62,005	206	9	0	32	2	26,189	2	26,189	0	0	0	0	0	0	0																			
4	854	359	6	1	62,493	259	0	0	24	1	26,422	1	26,422	0	0	0	0	0	0	0																			
5	907	396	5	26	62,973	283	0	0	0	2	26,692	2	26,692	0	0	0	0	0	0	0																			
6	903	454	6	41	63,375	281	4	0	0	1	26,951	17	26,951	0	0	0	0	0	0	0																			
7	849	410	5	29	63,780	256	9	0	0	2	27,184	12	27,184	0	0	0	0	0	0	0																			
8	789	393	6	23	64,147	228	4	0	0	1	27,397	10	27,397	0	0	0	0	0	0	0																			
9	760	361	5	26	64,515	215	8	0	11	2	27,580	11	27,580	0	0	0	0	0	0	0																			
10	752	362	6	33	64,866	211	4	0	17	1	27,755	14	27,755	0	0	0	0	0	0	0																			
11	779	362	5	31	65,247	224	2	0	17	2	27,945	13	27,945	0	0	0	0	0	0	0																			
12	802	375	6	27	65,641	234	9	0	4	1	28,154	11	28,154	0	0	0	0	0	0	0																			
13	842	447	6	48	65,982	253	10	0	0	2	28,375	20	28,375	0	0	0	0	0	0	0																			
14	893	526	7	65	66,277	277	13	0	0	1	28,611	27	28,611	0	0	0	0	0	0	0																			
15	938	599	6	51	66,559	297	10	0	0	2	28,875	21	28,875	0	0	0	0	0	0	0																			
16	961	636	6	46	66,832	308	11	0	0	2	29,151	19	29,151	0	0	0	0	0	0	0																			
17	1,027	611	6	25	67,217	339	12	0	0	2	29,465	11	29,465	0	0	0	0	0	0	0																			
18	1,118	653	6	59	67,617	382	12	0	0	2	29,807	26	29,807	0	0	0	0	0	0	0																			
19	1,263	770	6	57	68,047	449	9	0	0	2	30,220	25	30,220	0	0	0	0	0	0	0																			
20	1,358	793	6	59	68,547	494	15	0	0	2	30,672	25	30,672	0	0	0	0	0	0	0																			
21	1,475	838	6	58	69,120	551	19	0	0	2	31,176	26	31,176	0	0	0	0	0	0	0																			
22	1,622	859	7	39	69,837	642	20	0	0	2	31,779	17	31,779	0	0	0	0	0	0	0																			
23	1,762	915	7	69	70,608	728	22	0	0	2	32,452	31	32,452	0	0	0	0	0	0	0																			
24	1,871	893	6	71	71,509	801	13	0	0	2	33,206	32	33,206	0	0	0	0	0	0	0																			
25	1,966	898	7	65	72,505	867	15	0	0	2	34,026	30	34,026	0	0	0	0	0	0	0																			
26	2,100	933	7	58	73,607	960	12	0	0	2	34,945	27	34,945	0	0	0	0	0	0	0																			
27	2,296	991	7	53	74,852	1,108	5	0	0	2	36,021	25	36,021	0	0	0	0	0	0	0																			
28	2,422	1,066	6	77	76,125	1,209	6	0	0	2	37,186	36	37,186	0	0	0	0	0	0	0																			
29	2,507	1,122	7	79	77,424	1,278	13	0	4	2	38,407	38	38,407	0	0	0	0	0	0	0																			
30	2,557	1,163	7	65	78,746	1,320	16	0	10	2	39,668	31	39,668	0	0	0	0	0	0	0																			
31	2,515	1,041	7	42	80,171	1,286	27	10	0	2	40,894	21	40,894	0	0	0	0	0	0	0																			
S.F.D.	40,935	20,448	189	1,343	80,171	16,274	322	10	127	55	597	597	40,894	0	0	0	0	0	0	0																			
AC.F.T.	81,193	40,558	374	2,664	159,017	32,279	638	20	252	110	1,184	1,184	81,112	0	0	0	0	0	0	0																			
TOTAL ACRE-FOOT STORAGE DAYS																			4,192,354	TOTAL ACRE-FOOT STORAGE DAYS																			1,882,535
TOTAL ACRE-FOOT STORAGE DAYS																			0	TOTAL ACRE-FOOT STORAGE DAYS																			0

MAY 2003

WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

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

1

FRIANT-KERN INFLOW

Reflects Friant-Kern Inflow to Kern River Channel as per terms of Arvin-Edison Water Storage District/ Rosedale-Rio Bravo Water Storage District Banking and Exchange Agreement dated May 6, 2003.

In Order of Magnitude

KERN RIVER

MAY CONTRIBUTION TO THE APRIL - JULY RUNOFF 1894 TO DATE

Rank	Year	May Runoff (AcFt)	April-July Runoff (AcFt)	April-July 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%	43.2%
4	1976	47,151	108,754	23%	43.4%
5	1897	281,639	654,262	140%	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	66%	42.2%
9	1992	74,394	179,153	38%	41.5%
10	1937	352,050	852,047	182%	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	155%	39.8%
14	1946	155,476	390,747	84%	39.8%
15	1928	76,885	193,702	41%	39.7%
16	1954	139,719	354,117	76%	39.5%
17	1979	164,935	419,859	90%	39.3%
18	1922	242,259	617,710	132%	39.2%
19	1929	85,955	219,532	47%	39.2%
20	1941	386,666	995,657	213%	38.8%
21	1952	434,769	1,119,815	239%	38.8%
22	1895	288,635	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	178%	38.1%
26	1975	147,001	386,180	83%	38.1%
27	1936	219,404	581,624	124%	37.7%
28	1998	225,987	599,331	128%	37.7%
29	1999	95,199	252,627	54%	37.7%
30	1997	214,290	571,476	122%	37.5%
31	1866	82,336	219,893	47%	37.4%
32	1934	43,065	116,145	25%	37.1%
33	1944	150,109	405,381	87%	37.0%
34	1920	158,904	430,813	92%	36.9%
35	1943	254,795	697,182	149%	36.5%
36	1981	91,914	262,681	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	35%	36.0%
40	1972	45,965	127,720	27%	36.0%
81	1959	39,945	130,585	28%	30.6%
82	1908	79,418	260,894	56%	30.4%
83	1956	159,683	525,641	112%	30.4%
84	1916	472,994	1,571,597	336%	30.1%
85	1935	103,787	350,647	75%	29.6%
86	1917	165,062	560,304	120%	29.5%
87	1907	199,950	678,748	145%	29.5%
88	1932	154,742	526,432	113%	29.4%
89	1967	269,631	924,005	197%	29.2%
90	1930	67,851	232,582	50%	29.2%
91	1880	287,825	991,025	212%	29.0%
92	1963	137,839	476,579	102%	28.9%
93	1965	131,980	456,668	98%	28.9%
94	1991	79,763	276,543	59%	28.8%
95	1942	150,036	522,905	112%	28.7%
96	1902	109,904	389,596	83%	28.2%
97	1995	255,046	929,221	199%	27.4%
98	1915	124,506	455,242	97%	27.3%
99	1971	66,635	244,475	52%	27.3%
100	1957	79,355	292,346	62%	27.1%
101	1998	308,440	1,137,373	243%	27.1%
102	1977	25,630	95,649	20%	26.8%
103	1962	135,884	515,474	110%	26.4%
104	1911	184,481	701,168	150%	26.3%
105	1953	86,019	329,570	70%	26.1%
106	1906	360,234	1,391,636	297%	25.9%
107	1899	51,353	213,710	46%	24.0%
108	1918	78,722	334,816	72%	23.5%
109	1896	86,174	372,922	80%	23.1%
110	1933	60,026	299,584	64%	20.0%

**REPORT OF THE KERN RIVER WATERMASTER**

JUNE 2003

Quantities in S.F.D. except where noted

PAGE 1 of 5

DAY	ELEVATION	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACT)	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW		FRIANT-KERN INFLOW	DAY	
		ACRE-FOOT	S.F.D.				AT 2ND POINT	RIVER					KERN				
Previous Day	2574.87	270,313	136,283	63	1,078	9	3,801	3,801	3,801	136,283	4	0	0	0	0	0	0
1	2575.42	274,672	138,481	108	1,135	6	3,447	3,534	3,534	138,568	7	0	0	0	0	0	1
2	2576.02	279,470	140,900	138	1,141	9	3,707	3,620	3,620	140,900	8	0	0	0	0	0	2
3	2576.66	284,640	143,506	95	1,179	7	3,887	3,887	3,887	143,506	6	0	0	0	0	0	3
4	2577.20	289,043	145,726	94	1,232	7	3,553	3,515	3,515	145,688	6	0	0	0	0	0	4
5	2577.71	293,234	147,839	122	1,197	8	3,440	3,413	3,413	147,774	7	0	0	0	0	0	5
6	2578.14	296,793	149,633	133	1,313	6	3,246	3,178	3,178	149,500	8	0	0	0	0	0	6
7	2578.52	299,957	151,228	91	1,157	6	2,849	2,945	2,945	151,191	5	12	12	0	0	156	7
8	2578.85	302,720	152,621	99	1,242	6	2,740	2,679	2,679	152,523	5	47	47	0	0	219	8
9	2579.05	304,401	153,469	147	1,446	6	2,447	2,440	2,440	153,364	8	56	56	0	0	64	9
10	2579.19	305,592	154,064	133	1,400	7	2,135	2,197	2,197	154,021	7	61	61	0	0	0	10
11	2579.32	306,679	154,617	62	1,384	10	2,009	2,062	2,062	154,627	3	72	72	0	0	0	11
12	2579.45	307,780	155,173	112	1,366	8	2,042	1,988	1,988	155,129	6	73	73	0	0	0	12
13	2579.57	308,796	155,685	113	1,279	8	1,912	1,912	1,912	155,639	6	70	70	0	0	0	13
14	2579.70	309,901	156,242	103	1,107	9	1,776	1,812	1,812	156,232	6	68	68	0	0	0	14
15	2579.80	310,750	156,670	100	1,212	7	1,747	1,783	1,783	156,696	5	70	70	0	0	0	15
16	2579.89	311,517	157,057	116	1,316	7	1,826	1,801	1,801	157,058	6	78	78	0	0	0	16
17	2579.97	312,200	157,401	134	1,344	10	1,832	1,775	1,775	157,345	7	55	55	0	0	0	17
18	2580.01	312,540	157,572	129	1,357	9	1,666	1,712	1,712	157,562	7	102	102	0	0	0	18
19	2580.03	312,710	157,658	101	1,441	9	1,637	1,582	1,582	157,593	5	124	124	0	0	0	19
20	2580.01	312,540	157,572	111	1,410	9	1,444	1,499	1,499	157,562	6	129	129	0	0	0	20
21	2579.98	312,285	157,444	124	1,413	6	1,415	1,393	1,393	157,412	7	131	131	0	0	0	21
22	2579.92	311,773	157,186	116	1,457	6	1,321	1,257	1,257	157,090	6	141	141	0	0	0	22
23	2579.80	310,750	156,670	77	1,467	7	1,035	1,146	1,146	156,685	4	166	166	0	0	0	23
24	2579.70	309,901	156,242	100	1,401	9	1,082	1,023	1,023	156,198	5	173	173	0	0	0	24
25	2579.58	308,881	155,728	115	1,343	7	951	990	990	155,723	6	145	145	0	0	0	25
26	2579.47	307,949	155,258	118	1,281	9	938	925	925	155,240	6	64	64	0	0	0	26
27	2579.36	307,017	154,788	79	1,267	9	885	913	913	154,798	4	13	13	0	0	0	27
28	2579.24	306,004	154,277	151	1,268	7	915	901	901	154,273	8	16	16	0	0	0	28
29	2579.11	304,907	153,724	161	1,287	7	902	906	906	153,724	9	14	14	0	0	0	29
30	2578.98	303,814	153,173	112	1,329	9	899	899	899	153,173	6	17	17	0	0	0	30
<b>TOTAL SECOND FOOT DAYS</b>				3,394	39,171	230	59,685	59,685	59,685	153,173	185	1,897	1,882	0	0	439	
<b>TOTAL ACRE-FOOT</b>				6,732	77,695	457	118,383	118,383	118,383	303,814	367	3,763	3,763	0	0	872	

By: *APD* Date: July 16, 2003

REPORT OF THE KERN RIVER WATERMASTER

JUNE 2003

Quantities in S.F.D. except where noted

NORTH KERN WATER STORAGE DISTRICT

BUENA VISTA WATER STORAGE DISTRICT

HACIENDA WATER DISTRICT

DAY	ENTL AT 1ST POINT		FLOW ABOVE 1ST POINT		RESERVOIR LOSS STORAGE		ENTL AT 2ND POINT		FLOW ABOVE 2ND POINT		RESERVOIR LOSS STORAGE		ENTL AT 2ND POINT		FLOW ABOVE 2ND POINT		RESERVOIR LOSS STORAGE		ENTL AT 2ND POINT		FLOW ABOVE 2ND POINT		RESERVOIR LOSS STORAGE																																													
	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT																																											
Previous Day	2,515	1,041	7	42	80,171	1,286	27	0	10	0	0	21	40,894	0	0	0	0	0	0	0	0	0	0	0																																												
1	2,369	1,102	6	72	81,360	1,165	33	0	0	0	0	36	41,990	0	0	0	0	0	0	0	0	0	0	0																																												
2	2,416	1,099	9	92	82,576	1,204	42	0	0	0	0	46	43,106	0	0	0	0	0	0	0	0	0	0	0																																												
3	2,562	1,156	7	63	83,912	1,325	23	0	0	0	0	32	44,376	0	0	0	0	0	0	0	0	0	0	0																																												
4	2,359	1,200	7	62	85,002	1,156	32	0	0	0	0	32	45,468	0	0	0	0	0	0	0	0	0	0	0																																												
5	2,301	1,150	8	80	86,065	1,112	45	2	0	0	0	42	46,491	0	0	0	0	0	0	0	0	0	0	0																																												
6	2,167	1,279	6	87	86,860	1,011	30	4	0	0	0	46	47,422	0	0	0	0	0	0	0	0	0	0	0																																												
7	2,033	1,101	6	59	87,727	912	42	2	0	0	12	32	48,246	0	0	0	0	0	0	0	0	0	0	0																																												
8	1,875	1,156	6	64	88,376	804	34	5	0	0	47	35	48,929	0	0	0	0	0	0	0	0	0	0	0																																												
9	1,731	1,350	6	95	88,656	709	32	8	0	0	56	52	49,490	0	0	0	0	0	0	0	0	0	0	0																																												
10	1,581	1,278	7	86	88,866	616	60	10	0	0	52	47	49,937	0	0	0	0	0	0	0	0	0	0	0																																												
11	1,498	1,247	10	40	89,067	564	62	14	0	0	61	22	50,342	0	0	0	0	0	0	0	0	0	0	0																																												
12	1,451	1,217	8	72	89,221	537	68	23	0	0	58	40	50,690	0	0	0	0	0	0	0	0	0	0	0																																												
13	1,398	1,140	8	73	89,398	512	62	21	0	0	56	40	51,023	0	0	0	0	0	0	0	0	0	0	0																																												
14	1,331	985	9	66	89,669	481	44	26	0	0	52	37	51,345	0	0	0	0	0	0	0	0	0	0	0																																												
15	1,311	1,062	7	64	89,847	472	37	58	0	0	55	36	51,631	0	0	0	0	0	0	0	0	0	0	0																																												
16	1,324	1,123	7	74	89,967	477	33	96	0	0	64	42	51,873	0	0	0	0	0	0	0	0	0	0	0																																												
17	1,306	1,077	10	86	90,100	469	79	117	0	30	41	48	52,027	0	0	0	0	0	0	0	0	0	0	0																																												
18	1,263	1,025	9	83	90,246	449	51	123	0	68	90	46	52,098	0	0	0	0	0	0	0	0	0	0	0																																												
19	1,174	1,143	9	65	90,203	408	28	80	0	68	122	36	52,172	0	0	0	0	0	0	0	0	0	0	0																																												
20	1,118	1,081	9	71	90,160	381	26	106	0	68	129	40	52,184	0	0	0	0	0	0	0	0	0	0	0																																												
21	1,045	968	6	79	90,152	348	20	137	89	68	131	45	52,042	0	0	0	0	0	0	0	0	0	0	0																																												
22	953	1,023	6	74	90,002	304	22	104	99	68	141	42	51,870	0	0	0	0	0	0	0	0	0	0	0																																												
23	877	958	7	49	89,865	269	30	125	120	68	166	28	51,602	0	0	0	0	0	0	0	0	0	0	0																																												
24	793	877	9	64	89,708	230	42	134	121	68	159	36	51,272	0	0	0	0	0	0	0	0	0	0	0																																												
25	770	856	7	74	89,541	220	40	142	105	68	132	41	50,964	0	0	0	0	0	0	0	0	0	0	0																																												
26	726	888	9	76	89,294	199	44	131	99	68	51	42	50,728	0	0	0	0	0	0	0	0	0	0	0																																												
27	718	905	9	51	89,047	195	65	126	103	68	0	28	50,533	0	0	0	0	0	0	0	0	0	0	0																																												
28	710	882	7	97	88,771	191	69	120	126	68	3	54	50,284	0	0	0	0	0	0	0	0	0	0	0																																												
29	713	880	7	104	88,493	193	78	138	123	68	0	57	50,013	0	0	0	0	0	0	0	0	0	0	0																																												
30	708	891	9	72	88,229	191	91	184	91	68	4	40	49,726	0	0	0	0	0	0	0	0	0	0	0																																												
S.F.D.	42,581	32,099	230	2,194	88,229	17,104	1,364	2,036	1,076	914	1,682	1,200	49,726	0	0	0	0	0	0	0	0	0	0	0																																												
AC.F.T.	84,458	63,688	457	4,352	175,000	33,925	2,705	4,038	2,134	1,813	3,337	2,380	98,630	0	0	0	0	0	0	0	0	0	0	0																																												
TOTAL ACRE-FOOT STORAGE DAYS																						5,256,950	TOTAL ACRE-FOOT STORAGE DAYS																						2,955,120	TOTAL ACRE-FOOT STORAGE DAYS																						0

**REPORT OF THE KERN RIVER WATERMASTER**

JUNE 2003

**WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN**

<u>MONTH</u>	<u>DAY(S)</u>	<u>PAGE NO.</u>	<u>TITLE OF COLUMN</u>	<u>COMMENT</u>
June	2	1	FLOW ABOVE 1ST POINT	Reflects date of initial Kern River water diversion to the new Cal Water Service Co. Bakersfield Treatment Plant.
June	7-9	1	FRIANT-KERN INFLOW	Reflects Friant-Kern Inflow to Kern River Channel as per terms of Arvin-Edison Water Storage District/ Rosedale-Rio Bravo Water Storage District Banking and Exchange Agreement dated May 6, 2003.
June	5	2	BWWS DISTRICT - VIA KDWD (MWD WATER)	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Kern Delta Water District exchange agreement dated June 2, 2003.
June	17	2	BWWS DISTRICT - VIA CWD (CVC EXCH.)	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Cawelo Water District operational exchange agreement dated June 17, 2003.



Bakersfield Treatment Plant  
Water Supply Reservoir  
Spring 2003

**REPORT OF THE KERN RIVER WATERMASTER**

JULY 2003

Quantities in S.F.D. except where noted

PAGE 1 of 5

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN TOTAL	STORAGE 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		FRIANT-KERN INFLOW	DAY
		ACRE-FEET	S.F.D.				+1ST POINT	+FLOW ABOVE 1ST POINT						KERN RIVER	FRIANT-KERN		
Previous Day	2578.98	303,814	153,173	112	1,329	9	899	899	899	153,173	137,955	6	17	4	0	0	0
1	2578.83	302,552	152,537	157	1,366	12	899	899	883	152,521	137,303	9	15	2	0	0	1
2	2578.65	301,045	151,777	173	1,425	14	852	859	859	151,768	136,550	10	14	0	0	0	2
3	2578.47	299,541	151,019	143	1,427	14	826	811	811	150,995	135,777	8	43	29	0	0	3
4	2578.28	297,956	150,220	151	1,392	11	755	766	766	150,207	134,989	9	90	77	0	0	4
5	2578.11	296,544	149,508	166	1,253	9	716	721	721	149,500	134,282	9	87	73	0	0	5
6	2577.94	295,135	148,797	142	1,253	9	693	725	725	148,821	133,603	8	23	9	0	0	6
7	2577.75	293,565	148,006	157	1,387	13	766	726	726	147,990	132,772	9	21	7	0	0	7
8	2577.54	291,832	147,132	170	1,407	15	718	732	732	147,130	131,912	10	27	15	0	0	8
9	2577.34	290,189	146,304	170	1,357	13	712	695	695	146,285	131,067	10	23	10	0	0	9
10	2577.14	288,551	145,478	145	1,320	15	654	674	674	145,479	130,261	9	19	6	0	0	10
11	2576.94	286,919	144,655	161	1,304	14	656	621	621	144,621	129,403	10	25	0	0	0	11
12	2576.75	285,372	143,875	118	1,200	13	551	563	563	143,853	128,635	7	26	0	0	0	12
13	2576.53	283,585	142,974	165	1,205	13	482	533	533	143,003	127,785	10	20	1	0	0	13
14	2576.31	281,806	142,077	146	1,304	14	567	533	533	142,072	126,854	9	7	4	0	0	14
15	2576.09	280,033	141,183	104	1,325	15	550	557	557	141,185	125,967	6	17	17	0	0	15
16	2575.87	278,266	140,293	114	1,317	14	555	547	547	140,287	125,069	7	20	20	0	0	16
17	2575.63	276,346	139,325	129	1,357	18	536	507	507	139,290	124,072	8	41	41	0	0	17
18	2575.37	274,274	138,280	113	1,349	13	430	509	509	138,324	123,106	7	52	52	0	0	18
19	2575.18	272,765	137,519	64	1,244	15	562	528	528	137,529	122,311	4	63	63	0	0	19
20	2574.97	271,103	136,681	128	1,288	14	592	569	569	136,668	121,450	8	34	34	0	0	20
21	2574.72	269,131	135,687	127	1,394	26	553	556	556	135,677	120,459	8	63	63	0	0	21
22	2574.46	267,089	134,657	109	1,417	28	524	521	521	134,644	119,426	7	61	61	0	0	22
23	2574.18	264,900	133,554	108	1,454	27	486	486	516	133,571	118,353	7	70	70	0	0	23
24	2573.91	262,798	132,494	133	1,438	27	538	508	508	132,481	117,263	9	69	69	0	0	24
25	2573.65	260,783	131,478	125	1,369	23	501	494	494	131,458	116,240	8	58	58	0	0	25
26	2573.42	259,008	130,583	57	1,255	25	442	453	453	130,574	115,356	4	67	67	0	0	26
27	2573.16	257,010	129,576	122	1,280	21	416	458	458	129,609	114,391	8	71	61	0	0	27
28	2572.90	255,020	128,573	113	1,383	21	514	478	478	128,570	113,352	8	58	46	0	0	28
29	2572.65	253,115	127,612	93	1,351	22	505	497	497	127,601	112,383	7	29	14	0	0	29
30	2572.39	251,143	126,618	86	1,360	21	473	484	484	126,618	111,400	6	25	10	0	0	30
31	2572.19	249,632	125,856	105	1,305	20	668	668	668	125,856	110,638	8	37	23	0	0	31
<b>TOTAL SECOND FOOT DAYS</b>				3,994	41,486	529	18,692	18,692	18,692	125,856	110,638	247	1,275	1,002	0	0	0
<b>TOTAL ACRE-FEET</b>				7,922	82,286	1,050	37,075	37,075	37,075	249,632	219,448	490	2,529	1,988	0	0	0

By:  Date: August 19, 2003

REPORT OF THE KERN RIVER WATERMASTER

JULY 2003

Quantities in S.F.D. except where noted

PAGE 2 of 5

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

Previous Day	FLOW ABOVE		FLOW		FLOW ABOVE		FLOW ABOVE		ENTITLEMENT		RESERVOIR		FLOW ABOVE		RESERVOIR		
	ENTL AT 1ST POINT	FLOW AT 1ST POINT	ENTL AT 2ND POINT	VIA KDWD STATE EXCH.	VIA CWD STATE EXCH.	VIA KDWD STATE EXCH.	VIA CWD STATE EXCH.	AT 2ND POINT INC.	AT 2ND POINT INC.	Contributed by:	RESERVOIR LOSS	RESERVOIR STORAGE	POINT 1ST	POINT ABOVE	LOSS	STORAGE	DAY
1	708	891	9	72	88,229	191	91	184	91	68	4	0	40	49,726	0	0	0
2	698	1,239	10	101	87,577	185	57	0	0	68	2	2	56	49,726	0	0	1
3	681	1,291	11	111	86,845	178	67	0	0	67	0	3	62	49,705	0	0	2
4	648	1,285	12	92	86,104	163	45	0	0	68	29	2	51	49,673	0	0	3
5	618	1,199	8	97	85,418	148	48	0	0	68	77	3	54	49,571	0	0	4
6	587	1,073	7	106	84,819	134	39	0	0	68	73	2	60	49,463	0	0	5
7	590	1,140	6	91	84,172	135	36	0	0	68	9	3	51	49,431	0	0	6
8	590	1,281	11	100	83,370	136	31	0	0	68	7	2	57	49,402	0	0	7
9	595	1,273	12	108	82,572	137	47	4	0	68	15	3	62	49,340	0	0	8
10	569	1,224	11	108	81,798	126	51	4	0	68	10	2	62	49,269	0	0	9
11	555	1,191	12	92	81,058	119	51	4	0	68	6	3	53	49,203	0	0	10
12	479	1,090	10	74	79,585	84	43	7	0	60	0	3	44	49,050	0	0	11
13	459	1,090	11	103	78,840	74	38	8	0	68	1	2	62	48,945	0	0	12
14	459	1,185	12	91	78,011	74	43	4	0	68	4	2	55	48,843	0	0	13
15	475	1,193	12	65	77,216	82	47	0	0	68	17	3	39	48,751	0	0	14
16	468	1,183	12	71	76,418	79	46	0	0	68	20	2	43	48,651	0	0	15
17	441	1,208	15	80	75,556	66	40	0	0	68	41	3	49	48,516	0	0	16
18	443	1,188	11	70	74,730	66	41	0	0	68	52	2	43	48,376	0	0	17
19	455	1,079	12	39	74,055	73	34	0	0	68	63	3	25	48,256	0	0	18
20	483	1,159	12	79	73,288	86	27	0	0	68	34	2	49	48,162	0	0	19
21	475	1,226	23	78	72,436	81	37	0	0	68	63	3	49	48,023	0	0	20
22	451	1,242	26	67	71,552	70	46	0	0	68	61	2	42	47,874	0	0	21
23	447	1,286	24	66	70,623	69	30	0	0	68	70	3	42	47,730	0	0	22
24	442	1,279	25	81	69,680	66	22	0	0	68	69	2	52	47,583	0	0	23
25	432	1,223	20	76	68,793	62	20	0	0	68	58	3	49	47,447	0	0	24
26	404	1,069	23	34	68,071	49	21	30	0	68	67	2	23	47,285	0	0	25
27	408	1,091	19	73	67,296	50	27	33	0	68	61	2	49	47,095	0	0	26
28	421	1,196	18	68	66,435	57	46	27	0	68	46	3	45	46,917	0	0	27
29	434	1,190	20	56	65,603	63	53	26	0	68	14	2	37	46,780	0	0	28
30	425	1,189	18	51	64,770	59	54	39	0	68	10	3	35	46,630	0	0	29
31	551	1,128	18	62	64,113	117	51	35	0	68	23	2	43	46,525	0	0	30
S.F.D.	15,702	36,874	453	2,491	64,113	2,990	1,291	229	0	2,090	1,002	76	1,503	46,525	0	0	S.F.D.
AC.F.T.	31,144	73,138	899	4,941	127,167	5,931	2,561	454	0	4,145	1,988	151	2,981	92,281	0	0	AC.F.T.

TOTAL ACRE-FOOT STORAGE DAYS      4,683,139      TOTAL ACRE-FOOT STORAGE DAYS      2,977,873      TOTAL ACRE-FOOT STORAGE DAYS      0

JULY 2003

WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

PAGE NO. TITLE OF COLUMN

COMMENT

MONTH DAY(S)

July

None

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

In order of Magnitude

Quantities in acre-feet

YEAR	APR	MAY	JUN	JUL	TOTAL	% OF AVERAGE	YEAR	APR	MAY	JUN	JUL	TOTAL	% OF AVERAGE
1861	24,137	23,880	24,305	8,952	87,374	19%	1910	102,883	127,733	79,464	42,045	352,126	75%
1862	28,540	41,722	14,039	8,225	92,556	20%	1954	101,203	139,719	73,553	39,642	354,117	76%
1877	23,391	23,630	35,655	10,973	95,649	20%	1905	62,047	117,748	73,766	53,835	366,396	79%
1876	23,440	41,997	24,662	8,463	98,562	21%	1896	57,864	86,174	146,124	82,750	372,922	80%
1890	25,324	47,151	20,930	17,749	109,754	23%	1975	46,802	147,001	140,660	51,917	386,180	83%
1934	32,019	38,600	23,945	13,380	113,344	24%	1902	107,403	109,904	128,853	43,436	389,596	83%
1972	28,228	43,965	21,620	11,541	113,345	25%	1946	109,658	155,476	85,880	39,733	390,747	84%
1959	40,566	39,945	38,531	14,536	133,568	27%	1944	74,315	132,087	139,222	53,555	398,989	86%
1888	42,248	45,213	32,061	18,013	137,535	28%	1979	80,278	150,109	115,862	59,197	405,391	87%
1988	39,594	58,350	43,140	20,969	162,045	33%	1973	91,369	164,935	106,114	46,733	419,859	90%
1960	46,272	58,336	47,181	16,683	168,472	36%	1985	136,211	158,793	99,858	41,395	424,233	91%
1964	42,946	61,521	54,658	16,324	175,459	36%	1920	80,916	158,004	97,840	50,699	430,613	92%
1994	46,489	67,224	56,223	21,068	180,784	39%	1915	80,943	124,906	172,924	77,496	455,242	98%
1928	37,757	76,885	18,716	163,702	196,898	42%	1965	68,412	137,859	145,903	105,384	476,579	102%
1900	28,102	68,295	76,966	24,125	196,898	42%	1940	116,175	195,665	145,503	50,474	510,614	109%
1949	50,517	84,508	57,685	17,201	209,911	45%	1962	147,463	184,971	151,253	75,481	521,717	112%
1987	55,236	75,108	56,146	24,918	211,408	45%	1942	102,862	159,056	178,754	99,529	522,905	112%
1899	53,133	51,353	60,738	34,929	213,710	45%	1956	117,553	159,683	168,876	94,013	538,629	113%
2002	58,838	69,991	63,775	22,703	215,307	46%	1932	111,213	183,733	166,404	69,580	530,166	115%
1929	39,074	82,336	45,431	23,347	219,532	47%	1917	126,039	165,062	187,639	81,275	560,304	120%
1966	66,079	66,535	86,660	31,014	232,782	50%	1974	144,909	219,290	142,958	71,919	577,476	122%
1955	67,957	69,544	82,624	28,401	232,582	49%	1906	157,900	219,404	137,028	67,902	591,624	125%
1930	53,506	67,851	82,624	28,401	232,782	50%	1903	133,983	200,864	162,420	87,414	594,691	125%
1926	66,079	66,535	86,660	31,014	232,782	50%	1845	131,248	200,864	162,420	91,593	597,350	128%
1969	91,380	71,849	49,530	16,575	230,332	51%	1996	147,659	225,987	202,385	88,649	599,331	128%
1948	43,976	66,108	82,707	42,472	244,475	52%	1973	173,393	242,259	202,385	61,837	617,710	132%
1968	65,594	87,991	64,054	30,690	248,319	53%	1897	81,407	281,638	183,935	67,083	654,262	140%
1947	60,353	110,325	43,033	24,953	249,572	53%	1907	197,720	198,950	183,935	128,338	694,726	145%
2001	58,249	124,417	100,925	33,170	252,627	54%	1895	162,071	268,635	172,890	88,011	694,726	145%
1999	55,843	95,199	68,733	32,852	252,627	54%	1943	136,113	164,461	222,076	156,438	697,182	149%
1908	79,320	91,914	65,817	25,630	262,681	54%	1911	138,113	164,461	222,076	156,438	697,182	149%
1951	48,914	85,039	88,990	38,941	262,681	54%	1973	110,892	288,652	230,390	53,634	723,758	155%
1899	52,136	92,253	95,400	28,460	268,269	57%	1982	212,963	234,965	130,866	130,098	796,784	171%
1991	58,092	79,763	100,423	38,265	276,543	59%	1958	168,105	316,974	230,866	115,724	831,659	178%
1894	88,974	79,355	132,359	41,988	292,346	63%	1937	183,605	352,506	225,395	91,097	852,047	186%
1953	57,265	60,026	84,564	43,061	295,406	63%	1986	208,147	283,535	311,053	121,388	865,674	190%
1950	76,155	98,483	90,367	34,901	299,906	64%	1967	99,509	269,631	311,053	243,802	924,005	199%
2000	56,408	129,406	81,396	28,306	306,496	65%	1938	223,928	255,046	231,680	237,802	929,221	199%
1970	63,513	110,057	103,904	39,725	316,646	65%	1988	211,608	287,825	291,680	130,917	961,769	206%
1921	51,723	100,096	120,387	319,408	319,408	68%	1941	124,615	368,666	309,960	174,416	995,857	213%
2003	56,146	113,472	118,383	37,075	325,076	70%	1978	161,700	363,157	302,557	194,693	1,094,375	235%
1953	70,790	86,019	69,657	329,570	329,570	71%	1952	222,633	308,440	302,557	159,856	1,119,815	240%
1923	73,355	120,849	82,528	55,800	332,532	71%	1909	247,402	382,617	394,086	257,435	1,137,373	244%
1918	78,722	136,753	44,828	34,816	334,816	72%	1983	173,143	360,234	458,418	389,641	1,391,656	286%
1919	86,574	140,215	81,844	34,364	342,997	74%	1983	206,473	478,625	571,846	288,966	1,545,810	331%
1935	71,042	103,787	133,634	42,184	350,647	75%	1969	481,749	472,994	391,700	225,154	1,571,597	337%
							1989	378,933	617,968	496,796	254,777	1,747,874	375%
								461,749	617,968	571,846	399,841	1,747,874	
								23,391	25,630	14,069	8,225	87,374	
								99,206	156,052	139,034	72,342	466,634	

**REPORT OF THE KERN RIVER WATERMASTER**

AUGUST 2003

Quantities in S.F.D. except where noted

PAGE 1 of 5

DAY	ISABELLA RESERVOIR		LOSS	FIRST POINT REGULATED FLOW	FLOW ABOVE 1ST PT.	CHANGE IN STORAGE-LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (90,184 ACFT)	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT		FRIANT-KERN INFLOW DAY
	ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET S.F.D.				+1ST POINT	+FLOW ABOVE 1ST POINT					KERN RIVER	FRIANT-KERN	
Previous Day	2572.19	249,632	125,856	1,305	20	668	668	668	125,856	8	37	23	0	0
1	2572.08	248,802	125,438	1,226	21	935	857	857	125,360	8	43	27	0	0
2	2571.95	247,825	124,945	1,111	21	701	724	724	124,890	4	56	39	0	0
3	2571.79	246,624	124,340	1,056	21	534	594	594	124,345	5	61	46	0	0
4	2571.61	245,278	123,661	1,084	22	547	518	518	123,637	9	72	55	0	0
5	2571.42	243,862	122,947	1,058	20	474	488	488	122,937	8	61	44	0	0
6	2571.23	242,450	122,235	1,027	18	442	431	431	122,214	8	40	24	0	0
7	2571.03	240,968	121,488	993	18	376	388	388	121,479	8	36	20	0	0
8	2570.84	239,566	120,781	953	21	346	365	365	120,791	6	40	39	0	0
9	2570.67	238,316	120,151	853	20	374	331	331	120,118	10	37	37	0	0
10	2570.47	236,850	119,412	884	20	273	301	301	119,407	8	41	41	0	0
11	2570.21	234,952	118,455	1,065	24	257	282	282	118,475	10	40	40	0	0
12	2569.92	232,845	117,393	1,241	34	315	302	302	117,400	8	38	26	0	0
13	2569.63	230,748	116,336	1,258	34	334	319	319	116,328	8	41	26	0	0
14	2569.32	228,520	115,212	1,290	35	309	341	341	115,236	9	88	71	0	0
15	2569.00	226,234	114,060	1,351	33	379	326	326	114,031	12	81	64	0	0
16	2568.72	224,244	113,056	1,145	32	290	326	326	113,063	10	35	17	0	0
17	2568.42	222,124	111,988	1,212	30	310	320	320	112,005	11	36	19	0	0
18	2568.11	219,945	110,889	1,312	28	361	337	337	110,882	10	38	21	0	0
19	2567.81	217,848	109,832	1,252	25	340	372	372	109,857	10	32	15	0	0
20	2567.53	215,902	108,851	1,304	30	415	375	375	108,836	5	31	15	0	0
21	2567.21	213,692	107,736	1,413	32	370	407	407	107,758	4	57	40	0	0
22	2566.92	211,700	106,732	1,334	29	437	414	414	106,731	7	43	43	0	0
23	2566.69	210,129	105,940	1,102	28	434	399	399	105,904	9	0	0	0	0
24	2566.44	208,428	105,083	1,057	29	327	371	371	105,091	9	0	0	0	0
25	2566.21	206,871	104,298	1,036	29	352	376	376	104,330	7	0	0	0	0
26	2566.03	205,656	103,685	996	25	450	391	391	103,658	4	0	0	0	0
27	2565.82	204,246	102,974	964	23	370	386	386	102,963	9	0	0	0	0
28	2565.62	202,908	102,300	883	23	337	340	340	102,292	10	0	0	0	0
29	2565.44	201,709	101,695	775	25	314	306	306	101,679	11	0	0	0	0
30	2565.28	200,646	101,159	716	23	267	283	283	101,159	6	0	0	0	0
31	2565.12	199,587	100,625	685	24	270	270	270	100,625	9	0	0	0	0
<b>TOTAL SECOND FOOT DAYS</b>										252	1,047	769	0	0
<b>TOTAL ACRE-FEET</b>										500	2,077	1,525	0	0

By: *APD* Date: September 15, 2003

**REPORT OF THE KERN RIVER WATERMASTER**

AUGUST 2003

Quantities in S.F.D. except where noted

PAGE 2 of 5

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

DAY	FLOW ABOVE 1ST POINT		RESERVOIR		ENT'L AT 2ND POINT		STATE EXCH.		MWD WATER EXCH.		VIA KOWD		VIA CWD		AT 2ND POINT		RESERVOIR		ENTITLEMENT		FLOW ABOVE 1ST POINT		RESERVOIR LOSS STORAGE	DAY
	ENT'L AT 1ST POINT	FLOW ABOVE 1ST POINT	LOSS	STORAGE	POINT	AT 2ND POINT	EXCH.	STATE EXCH.	EXCH.	WATER EXCH.	EXCH.	CVC	STATE EXCH.	EXCH.	POINT	INC.	La	RESERVOIR LOSS STORAGE	NKWS	BYWSD	FLOW ABOVE 1ST POINT	RESERVOIR LOSS STORAGE		
Previous Day	551	1,128	18	62	64,113	117	51	35	0	68	23	2	43	46,525										0
1	680	1,029	18	63	63,683	177	43	59	0	68	27	3	43	46,459										0
2	589	919	19	37	63,297	135	33	52	0	68	39	2	25	46,375										0
3	500	890	18	37	62,852	94	9	43	0	68	46	3	25	46,275										0
4	449	908	20	71	62,302	69	13	40	0	68	55	2	49	46,117										0
5	428	897	17	65	61,751	60	6	43	0	68	44	3	45	45,968										0
6	389	879	16	64	61,181	42	18	38	0	68	24	2	45	45,815										0
7	360	844	16	65	60,616	28	23	38	0	68	20	2	47	45,645										0
8	344	782	18	46	60,114	21	13	51	0	68	39	3	33	45,459										0
9	321	662	18	76	59,679	10	13	73	0	68	37	2	55	45,221										0
10	301	694	17	63	59,206	0	17	64	0	68	41	3	45	44,983										0
11	282	861	22	73	58,532	0	31	65	0	68	40	2	52	44,725										0
12	301	1,030	32	59	57,712	1	29	88	0	68	26	2	43	44,470										0
13	313	1,007	31	57	56,930	6	22	139	0	64	26	3	42	44,180										0
14	328	1,001	33	62	56,162	13	19	135	0	64	71	2	46	43,856										0
15	318	1,067	30	85	55,298	8	26	130	0	64	64	3	62	43,515										0
16	318	910	30	67	54,609	8	12	142	0	64	17	2	50	43,236										0
17	314	967	28	78	53,850	6	26	136	0	64	19	2	58	42,937										0
18	325	1,065	25	69	53,016	12	15	148	0	63	21	3	51	42,648										0
19	349	982	23	68	52,282	23	25	156	0	64	15	2	52	42,357										0
20	351	1,001	27	35	51,570	24	23	202	0	63	15	3	27	42,048										0
21	373	1,035	30	23	50,855	34	37	237	0	64	40	2	17	41,685										0
22	378	972	27	44	50,190	36	31	225	0	63	43	2	34	41,323										0
23	368	896	26	54	49,582	31	34	172	0	0	0	2	42	41,104										0
24	348	846	27	55	49,002	23	31	180	0	0	0	2	43	40,871										0
25	352	806	26	41	48,481	24	46	184	0	0	0	3	31	40,631										0
26	362	721	23	24	48,075	29	62	180	33	0	0	2	18	40,365										0
27	359	633	21	53	47,727	27	50	181	100	0	0	2	41	40,018										0
28	327	567	20	59	47,408	13	49	175	92	0	0	3	46	39,666										0
29	304	490	23	67	47,132	2	50	145	90	0	0	2	52	39,329										0
30	283	482	21	36	46,896	0	44	124	86	0	0	2	28	39,045										0
31	270	448	22	54	46,642	0	37	115	85	0	0	2	41	38,765										0
S.F.D.	11,284	26,281	724	1,750	46,642	956	887	3,760	486	1,453	769	73	1,288	38,765										0
AC.F.T.	22,382	52,127	1,437	3,471	92,514	1,896	1,760	7,458	964	2,882	1,525	144	2,555	76,899										0

TOTAL ACRE-FOOT STORAGE DAYS      3,365,219      TOTAL ACRE-FOOT STORAGE DAYS      2,648,113      TOTAL ACRE-FOOT STORAGE DAYS      0

**REPORT OF THE KERN RIVER WATERMASTER**

AUGUST 2003  
 WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

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

**2003 APRIL-JULY UNIMPAIRED RUNOFF**  
 Central Valley Streams

Watershed	(1) 50-Year Average	Median Forecast as of				(2) 2003 Actual	% of Average
		Feb. 1	Mar. 1	Apr. 1	May 1		
Sacramento River above Bend Bridge	2,521	2,320	2,060	2,000	3,120	3,249	129%
Feather River at Oroville Reservoir	1,870	1,650	1,320	1,270	1,820	1,952	104%
Yuba River at Smartville	1,044	900	720	620	1,040	1,104	106%
American River at Folsom Reservoir	1,282	1,020	810	680	1,250	1,357	106%
Cosumnes River at Michigan Bar	130	75	55	42	145	155	119%
Mokelumne River at Pardee Reservoir	469	400	330	290	450	455	97%
Stanislaus River at Melones Reservoir	716	620	510	450	700	684	96%
Tuolumne River at Don Pedro Reservoir	1,230	1,090	900	800	1,150	1,166	95%
Merced River at Lake McClure	633	540	430	380	550	585	92%
San Joaquin River at Millerton Lake	1,262	1,030	880	760	1,020	1,058	84%
Kings River at Pine Flat Reservoir	1,234	1,000	860	790	980	1,031	84%
Kaweah River at Terminus Reservoir	290	220	180	185	225	268	92%
Tule River at Success Reservoir	65	36	28	24	44	61	94%
<b>KERN RIVER AT ISABELLA RESERVOIR</b>	<b>470</b>	<b>340</b>	<b>310</b>	<b>280</b>	<b>310</b>	<b>322</b>	<b>69%</b>

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

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

Quantities in S.F.D. except where noted

REPORT OF THE KERN RIVER WATERMASTER

SEPTEMBER 2003

DAY	ISABELLA RESERVOIR		LOSS	FLOW AT FIRST POINT	FLOW ABOVE 1ST POINT	FIRST POINT REGULATED FLOW	CHANGE IN STORAGE+LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN TOTAL RECREATION Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)	STORAGE IRRIGATION	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW		FRIANT-KERN INFLOW	DAY
	ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET					S.F.D.	1ST POINT REGULATED FLOW						+1ST POINT REGULATED FLOW	RIVER		
Previous Day	2565.12	199,587	100,625	95	685	24	709	270	270	100,625	85,407	9	0	0	0	0	0
1	2564.96	198,532	100,093	112	722	23	745	325	328	100,096	84,878	11	0	0	0	0	1
2	2564.81	197,544	99,595	92	715	25	740	334	358	99,622	84,404	9	0	0	0	0	2
3	2564.70	196,823	99,232	3	754	22	776	416	390	99,233	84,015	0	0	0	0	0	3
4	2564.57	195,972	98,803	43	783	23	806	420	417	98,801	83,583	4	0	0	0	0	4
5	2564.42	194,993	98,309	110	774	24	798	414	374	98,267	83,049	11	0	0	0	0	5
6	2564.26	193,952	97,784	110	679	25	704	289	314	97,767	82,549	11	0	0	0	0	6
7	2564.09	192,850	97,229	105	665	24	689	239	250	97,223	82,005	11	0	0	0	0	7
8	2563.92	191,752	96,675	76	673	26	699	221	230	96,678	81,460	8	0	0	0	0	8
9	2563.76	190,721	96,155	90	640	21	661	231	227	96,154	80,936	9	0	0	0	0	9
10	2563.60	189,695	95,638	85	637	25	662	230	247	95,654	80,436	9	0	0	0	0	10
11	2563.46	188,800	95,187	85	623	23	646	280	257	95,180	79,962	9	0	0	0	0	11
12	2563.32	187,906	94,736	99	589	23	612	260	259	94,728	79,510	10	0	0	0	0	12
13	2563.20	187,144	94,352	63	536	22	558	237	234	94,341	79,123	7	0	0	0	0	13
14	2563.07	186,318	93,935	77	521	25	546	206	212	93,930	78,712	8	0	0	0	0	14
15	2562.92	185,370	93,457	91	557	22	579	192	198	93,458	78,240	10	0	0	0	0	15
16	2562.76	184,360	92,948	104	582	20	602	197	203	92,955	77,737	11	0	0	0	0	16
17	2562.60	183,355	92,442	115	594	17	611	220	220	92,449	77,231	12	0	0	0	0	17
18	2562.46	182,479	92,000	104	562	18	580	242	225	91,990	76,772	11	0	0	0	0	18
19	2562.32	181,604	91,559	83	553	17	570	212	232	91,569	76,351	9	0	0	0	0	19
20	2562.20	180,857	91,182	80	522	17	539	242	218	91,168	75,950	9	0	0	0	0	20
21	2562.07	180,049	90,775	80	511	17	528	201	218	90,778	75,560	9	0	0	0	0	21
22	2561.92	179,121	90,307	80	580	18	598	210	202	90,302	75,084	9	0	0	0	0	22
23	2561.76	178,133	89,809	77	597	18	615	194	197	89,807	74,589	9	0	0	0	0	23
24	2561.59	177,088	89,282	84	613	18	631	188	193	89,285	74,067	9	0	0	0	0	24
25	2561.43	176,108	88,788	81	590	21	611	198	194	88,787	73,569	9	0	0	0	0	25
26	2561.28	175,191	88,326	72	568	18	586	196	193	88,322	73,104	8	0	0	0	0	26
27	2561.14	174,340	87,896	70	527	17	544	184	186	87,894	72,676	8	0	0	0	0	27
28	2561.01	173,550	87,498	65	494	17	511	178	183	87,501	72,283	7	0	0	0	0	28
29	2560.88	172,764	87,102	80	486	18	504	188	185	87,102	71,884	9	0	0	0	0	29
30	2560.76	172,039	86,736	60	484	16	500	194	194	86,736	71,518	7	0	0	0	0	30
TOTAL SECOND FOOT DAYS			2,476	18,131	620	18,751	7,338	7,338	7,338	86,736	71,518	263	0	0	0	0	0
TOTAL ACRE-FEET			4,911	35,962	1,230	37,192	14,555	14,555	14,555	172,039	141,855	522	0	0	0	0	0

By:  Date: October 21, 2003

REPORT OF THE KERN RIVER WATERMASTER

Quantities in S.F.D. except where noted

SEPTEMBER 2003

HACIENDA WATER DISTRICT

BUENA VISTA WATER STORAGE DISTRICT

NORTH KERN WATER STORAGE DISTRICT

DAY	ENTL		FLOW ABOVE		RESERVOIR		ENTL		FLOW		RESERVOIR		ENTL		FLOW ABOVE		RESERVOIR		
	AT 1ST POINT	AT 1ST POINT	1ST POINT	1ST POINT	LOSS	STORAGE	AT 1ST POINT	AT 1ST POINT	VIA STATE EXCH.	MWD WATER	AT 2ND POINT	INC.	LOSS	STORAGE	NKWS	BWSD	1ST POINT	LOSS	STORAGE
Previous Day	270	448	22	54	46,642	0	37	115	85	0	2	41	38,765	0	0	0	0	0	0
1	328	543	21	63	46,343	0	33	65	81	0	2	49	38,535	0	0	0	0	0	0
2	358	543	23	52	46,083	0	27	62	83	0	2	40	38,321	0	0	0	0	0	0
3	390	580	20	2	45,871	0	58	46	70	0	2	1	38,144	0	0	0	0	0	0
4	417	600	22	24	45,642	0	66	45	72	0	1	19	37,941	0	0	0	0	0	0
5	374	572	22	62	45,360	0	69	60	73	0	2	48	37,689	0	0	0	0	0	0
6	314	467	23	62	45,122	0	66	58	88	0	2	48	37,427	0	0	0	0	0	0
7	250	463	22	60	44,827	0	70	44	88	0	2	45	37,178	0	0	0	0	0	0
8	230	459	24	43	44,531	0	70	56	88	0	2	33	36,929	0	0	0	0	0	0
9	227	453	19	51	44,235	0	63	59	65	0	2	39	36,701	0	0	0	0	0	0
10	247	443	23	48	43,968	0	68	55	71	0	2	37	36,468	0	0	0	0	0	0
11	257	425	21	48	43,731	0	68	58	72	0	2	37	36,231	0	0	0	0	0	0
12	259	433	22	56	43,479	0	64	44	48	0	1	43	36,031	0	0	0	0	0	0
13	234	400	20	36	43,257	0	49	45	42	0	2	27	35,866	0	0	0	0	0	0
14	212	381	23	44	43,021	0	50	45	45	0	2	33	35,691	0	0	0	0	0	0
15	198	405	20	52	44,143	0	52	49	51	0	2	39	34,097	0	0	0	0	0	0
16	203	418	19	61	43,848	0	49	43	72	0	1	43	33,889	0	0	0	0	0	0
17	220	423	15	67	43,563	0	49	49	73	0	2	48	33,668	0	0	0	0	0	0
18	225	384	16	61	43,327	0	57	54	67	0	2	43	33,445	0	0	0	0	0	0
19	232	401	15	49	43,094	0	51	57	44	0	2	34	33,257	0	0	0	0	0	0
20	218	386	16	47	42,863	0	49	45	42	0	1	33	33,087	0	0	0	0	0	0
21	218	365	15	47	42,654	0	60	40	46	0	2	33	32,906	0	0	0	0	0	0
22	202	444	16	47	42,349	0	61	34	41	0	2	33	32,735	0	0	0	0	0	0
23	197	450	16	45	42,035	0	75	31	41	0	2	32	32,554	0	0	0	0	0	0
24	193	445	17	49	41,717	0	75	51	42	0	1	35	32,350	0	0	0	0	0	0
25	194	449	19	47	41,396	0	71	47	23	0	2	34	32,173	0	0	0	0	0	0
26	193	432	16	42	41,099	0	49	64	23	0	2	30	32,005	0	0	0	0	0	0
27	186	404	15	41	40,825	0	45	54	24	0	2	29	31,851	0	0	0	0	0	0
28	183	374	16	38	40,580	0	40	53	27	0	1	27	31,703	0	0	0	0	0	0
29	185	382	16	47	40,320	0	32	49	23	0	2	33	31,564	0	0	0	0	0	0
30	194	313	14	35	40,152	0	34	42	95	0	2	25	31,366	0	0	0	0	0	0
S.F.D.	7,338	13,237	566	1,426	40,152	0	1,670	1,504	1,720	0	54	1,050	31,366	0	0	0	0	0	0
AC.F.T.	14,555	26,254	1,124	2,828	79,641	0	3,313	2,983	3,412	0	106	2,083	62,214	0	0	0	0	0	0

TOTAL ACRE-FOOT STORAGE DAYS 2,577,390

TOTAL ACRE-FOOT STORAGE DAYS 2,066,383

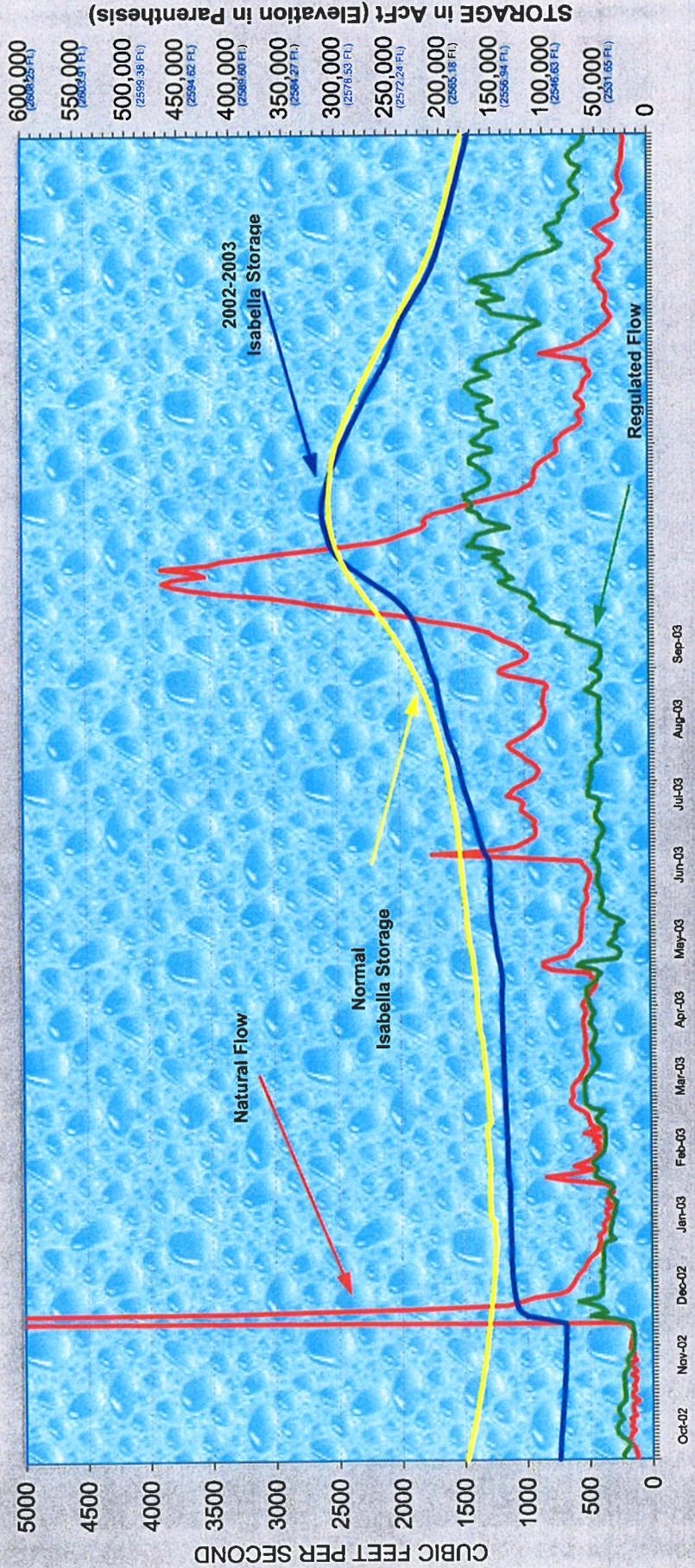
TOTAL ACRE-FOOT STORAGE DAYS 0

SEPTEMBER 2003  
 WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
September	1	1	FLOW AT FIRST POINT	Reflects the measured flow at First Point gaging station.
September	1	1	FIRST POINT REGULATED FLOW	Reflects the sum of Flow at First Point and Flow Above 1st Point.
September	15	2	BVWSD RESERVOIR STORAGE NKWSD RESERVOIR STORAGE	Reflects transfer of 2,779 acre-feet (1,401 s.f.d.) from BUENA VISTA WATER STORAGE DISTRICT to NORTH KERN WATER STORAGE DISTRICT as per terms of BVWSD/Cawelo Water District letter agreement dated October 1, 2003.

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

2002 - 2003 WATER YEAR



**REPORT OF THE KERN RIVER WATERMASTER**

OCTOBER 2003

PAGE 1 of 5

Quantities in S.F.D. except where noted

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	FIRST POINT REGULATED FLOW	CHANGE IN STORAGE+LOSS +1ST POINT		COMPUTED 1ST POINT NATURAL FLOW	MEAN TOTAL RECREATION POOL + DEAD STORAGE = 15,218 S.F.D. (30,184 ACFT)	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT		FRONT-KERN INFLOW	DAY	
		MIDNIGHT STORAGE ACRE-FEET	S.F.D.				REGULATED FLOW	IRREGULATED FLOW					KERN RIVER	FRONT-KERN			
Previous Day	2560.76	172,039	86,736	60	484	194	194	194	194	86,736	71,518	7	0	0	0	0	
1	2560.63	171,258	86,343	81	495	199	199	182	182	86,326	71,108	10	0	0	0	0	1
2	2560.48	170,358	85,889	92	494	147	147	174	174	85,899	70,681	11	0	0	0	0	2
3	2560.37	169,700	85,557	42	451	177	177	166	166	85,556	70,338	5	0	0	0	0	3
4	2560.27	169,102	85,256	56	403	174	174	178	178	85,259	70,041	7	0	0	0	0	4
5	2560.17	168,508	84,956	56	413	184	184	172	172	84,947	69,729	7	0	0	0	0	5
6	2560.05	167,794	84,596	63	438	157	157	167	167	84,597	69,379	8	0	0	0	0	6
7	2559.93	167,084	84,238	49	453	160	160	155	155	84,234	69,016	6	0	0	0	0	7
8	2559.80	166,315	83,851	44	474	147	147	154	154	83,854	68,636	5	0	0	0	0	8
9	2559.61	165,197	83,287	65	640	155	155	159	159	83,294	68,076	8	0	0	0	0	9
10	2559.42	164,084	82,726	78	643	175	175	169	169	82,727	67,509	10	0	0	0	0	10
11	2559.26	163,149	82,254	55	591	178	178	173	173	82,250	67,032	7	0	0	0	0	11
12	2559.14	162,452	81,903	78	427	166	166	179	179	81,912	66,694	10	0	0	0	0	12
13	2559.03	161,813	81,581	57	442	192	192	177	177	81,575	66,357	7	0	0	0	0	13
14	2558.90	161,061	81,202	66	472	174	174	176	176	81,198	65,980	8	0	0	0	0	14
15	2558.77	160,310	80,823	68	456	161	161	183	183	80,841	65,623	9	0	0	0	0	15
16	2558.67	159,736	80,534	64	426	215	215	197	197	80,534	65,316	8	0	0	0	0	16
17	2558.58	159,219	80,273	43	416	214	214	205	205	80,264	65,046	6	0	0	0	0	17
18	2558.49	158,704	80,013	45	385	185	185	197	197	80,016	64,798	6	0	0	0	0	18
19	2558.41	158,246	79,782	40	369	193	193	191	191	79,783	64,565	5	0	0	0	0	19
20	2558.32	157,732	79,523	49	401	194	194	186	186	79,516	64,298	6	0	0	0	0	20
21	2558.20	157,049	79,179	51	460	171	171	184	184	79,185	63,967	7	0	0	0	0	21
22	2558.08	156,367	78,835	56	470	187	187	181	181	78,835	63,617	7	0	0	0	0	22
23	2557.95	155,632	78,485	49	502	186	186	189	189	78,468	63,250	6	0	0	0	0	23
24	2557.83	154,954	78,123	53	478	193	193	181	181	78,114	62,896	7	0	0	0	0	24
25	2557.71	154,279	77,782	38	463	165	165	173	173	77,781	62,563	5	0	0	0	0	25
26	2557.58	153,549	77,414	36	489	162	162	169	169	77,420	62,202	5	0	0	0	0	26
27	2557.46	152,878	77,076	50	453	181	181	167	167	77,068	61,850	7	0	0	0	0	27
28	2557.32	152,097	76,682	48	486	159	159	167	167	76,682	61,464	7	0	0	0	0	28
29	2557.18	151,319	76,290	48	491	161	161	164	164	76,293	61,075	7	0	0	0	0	29
30	2557.06	150,653	75,954	39	449	171	171	168	168	75,954	60,736	5	0	0	0	0	30
31	2556.97	150,156	75,704	13	385	161	161	161	161	75,704	60,486	2	0	0	0	0	31
<b>TOTAL SECOND FOOT DAYS</b>				1,672	14,405	399	5,444	5,444	5,444	75,704	60,486	214	0	0	0	0	0
<b>TOTAL ACRE-FEET</b>				3,316	28,572	792	10,798	10,798	10,798	150,156	119,972	424	0	0	0	0	0

By: *[Signature]*

Date: November 25, 2003



**REPORT OF THE KERN RIVER WATERMASTER**

OCTOBER 2003  
 WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN

MONTH	DAY(S)	PAGE NO.	TITLE OF COLUMN	COMMENT
October	8-11	2	BVWSD FLOW - FOR KCWA	Delivered as per terms of BUENA VISTA WATER STORAGE DISTRICT/Kern County Water Agency letter agreement dated June 12, 2003.

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

2003 WATER YEAR

Quantities in acre-feet

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
+ Kern River Natural Flow	8,939	73,894	28,189	33,402	31,428	48,924	56,146	113,472	118,383	37,075	24,278	14,555	588,685
- Isabella Reservoir Evaporation	2,081	1,488	813	1,018	833	1,714	1,932	3,848	6,732	7,922	6,026	4,911	39,318
- Into Isabella Storage	0	52,241	3,682	3,800	9,629	22,321	28,666	67,672	33,499	0	0	0	221,510
+ From Isabella Storage	6,777	0	0	0	0	0	0	0	0	54,183	50,045	27,548	138,553
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	13,635	20,165	23,694	28,584	20,966	24,889	25,548	41,952	78,152	83,336	68,297	37,192	466,410
Accumulative Absorption within Kern River Service Area	13,635	33,800	57,494	86,078	107,044	131,933	157,481	199,433	277,585	360,921	429,218	466,410	466,410

**REPORT OF THE KERN RIVER WATERMASTER**

NOVEMBER 2003

Quantities in S.F.D. except where noted

PAGE 1 of 5

DAY	ELEVATION (FEET)	ISABELLA RESERVOIR		LOSS	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	FIRST POINT REGULATED FLOW	CHANGE IN STORAGE-H-LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN TOTAL RECREATION POOL + DEAD STORAGE = 15,218 S.F.D. (30,184 ACFT)	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW AT 2ND POINT		FRIANT-KERN INFLOW DAY								
		ACRE-FEET	S.F.D.					+1ST POINT REGULATED FLOW	-1ST POINT NATURAL FLOW					KERN RIVER	FRIANT-KERN									
Previous Day	2556.97	150,156	75,704	13	385	13	398	161	161	161	75,704	2	0	0	0	0								
1	2556.93	149,935	75,592	25	263	11	274	187	184	184	75,589	3	0	0	0	1								
2	2556.91	149,825	75,537	20	202	10	212	177	179	179	75,536	3	0	0	0	2								
3	2556.89	149,715	75,481	16	201	11	212	172	174	174	75,482	2	0	0	0	3								
4	2556.87	149,604	75,425	16	199	15	214	174	188	188	75,440	2	0	0	0	4								
5	2556.87	149,604	75,425	18	188	12	200	218	205	205	75,427	2	0	0	0	5								
6	2556.87	149,604	75,425	20	192	11	203	223	214	214	75,418	3	0	0	0	6								
7	2556.86	149,549	75,398	24	193	12	205	202	225	225	75,414	3	0	0	0	7								
8	2556.87	149,604	75,425	20	191	12	203	250	252	252	75,443	3	0	0	0	8								
9	2556.90	149,770	75,509	18	193	10	203	305	274	274	75,496	2	0	0	0	9								
10	2556.91	149,825	75,537	18	209	13	222	268	278	278	75,534	2	0	0	0	10								
11	2556.91	149,825	75,537	18	228	16	244	262	257	257	75,529	2	0	0	0	11								
12	2556.90	149,770	75,509	27	223	19	242	241	242	242	75,502	4	0	0	0	12								
13	2556.89	149,715	75,481	7	227	18	245	224	225	225	75,475	1	0	0	0	13								
14	2556.87	149,604	75,425	22	224	21	245	211	207	207	75,415	3	0	0	0	14								
15	2556.84	149,439	75,342	22	229	19	248	187	208	208	75,353	3	0	0	0	15								
16	2556.83	149,384	75,314	29	202	23	225	226	222	222	75,321	4	0	0	0	16								
17	2556.84	149,439	75,342	22	180	21	201	251	231	231	75,329	3	0	0	0	17								
18	2556.84	149,439	75,342	13	178	25	203	216	220	220	75,333	2	0	0	0	18								
19	2556.83	149,384	75,314	16	175	30	205	193	199	199	75,311	2	0	0	0	19								
20	2556.81	149,274	75,259	22	188	33	221	188	198	198	75,266	3	0	0	0	20								
21	2556.80	149,219	75,231	22	188	32	220	214	211	211	75,235	3	0	0	0	21								
22	2556.80	149,219	75,231	27	171	33	204	231	218	218	75,222	4	0	0	0	22								
23	2556.79	149,164	75,204	31	172	32	204	208	215	215	75,202	4	0	0	0	23								
24	2556.78	149,109	75,176	27	172	34	206	205	209	209	75,178	4	0	0	0	24								
25	2556.77	149,054	75,148	44	173	24	197	213	214	214	75,151	6	0	0	0	25								
26	2556.77	149,054	75,148	22	181	20	201	223	224	224	75,152	3	0	0	0	26								
27	2556.77	149,054	75,148	40	177	20	197	237	220	220	75,135	6	0	0	0	27								
28	2556.76	148,999	75,120	29	179	20	199	200	218	218	75,125	4	0	0	0	28								
29	2556.76	148,999	75,120	16	180	20	200	216	211	211	75,120	2	0	0	0	29								
30	2556.76	148,999	75,120	22	169	22	191	213	213	213	75,120	3	0	0	0	30								
<b>TOTAL SECOND FOOT DAYS</b>													673	5,847	599	6,446	6,535	6,535	75,120	91	0	0	0	0
<b>TOTAL ACRE-FEET</b>													1,335	11,597	1,188	12,785	12,962	12,962	148,999	180	0	0	0	0

By:  Date: December 19, 2003

NOVEMBER 2003

NORTH KERN WATER STORAGE DISTRICT

BUENA VISTA WATER STORAGE DISTRICT

HACIENDA WATER DISTRICT

DAY	ENT'L AT 1ST		FLOW ABOVE 1ST		RESERVOIR STORAGE		ENT'L AT 1ST		FLOW ABOVE 1ST		RESERVOIR STORAGE		ENTITLEMENT Contributed by:		FLOW ABOVE 1ST		RESERVOIR STORAGE		
	POINT	POINT	POINT	POINT	LOSS	STORAGE	POINT	POINT	POINT	POINT	LOSS	STORAGE	NKWS	BYWSD	POINT	POINT	LOSS	STORAGE	
Previous Day	161	257	8	35,491	0	34	94	0	1	5	24,995	0	0	0	0	0	0	0	
1	184	177	10	35,473	0	39	47	0	1	10	24,898	0	0	0	0	0	0	0	
2	179	128	9	35,503	0	26	48	0	1	8	24,815	0	0	0	0	0	0	0	
3	174	133	11	35,523	0	21	47	0	0	6	24,741	0	0	0	0	0	0	0	
4	188	135	14	35,552	0	16	48	0	1	6	24,670	0	0	0	0	0	0	0	
5	205	139	11	35,596	0	20	29	0	1	7	24,613	0	0	0	0	0	0	0	
6	214	147	11	35,640	0	16	29	0	0	8	24,560	0	0	0	0	0	0	0	
7	225	142	11	35,697	0	12	39	0	1	9	24,499	0	0	0	0	0	0	0	
8	252	132	11	35,794	0	21	38	0	1	8	24,431	0	0	0	0	0	0	0	
9	274	142	10	35,905	0	21	30	0	0	7	24,373	0	0	0	0	0	0	0	
10	278	150	12	36,010	0	30	29	0	1	7	24,306	0	0	0	0	0	0	0	
11	257	165	16	36,075	0	30	33	0	0	7	24,236	0	0	0	0	0	0	0	
12	242	158	18	36,124	0	28	37	0	1	10	24,160	0	0	0	0	0	0	0	
13	225	166	18	36,161	0	29	32	0	0	3	24,096	0	0	0	0	0	0	0	
14	207	161	20	36,173	0	25	38	0	1	8	24,024	0	0	0	0	0	0	0	
15	208	191	19	36,157	0	19	19	0	0	8	23,978	0	0	0	0	0	0	0	
16	222	185	22	36,154	0	17	0	0	1	11	23,949	0	0	0	0	0	0	0	
17	231	162	21	36,188	0	18	0	0	0	8	23,923	0	0	0	0	0	0	0	
18	220	157	24	36,219	0	21	0	0	1	5	23,896	0	0	0	0	0	0	0	
19	199	151	30	36,227	0	24	0	0	0	6	23,866	0	0	0	0	0	0	0	
20	198	160	32	36,219	0	28	0	0	1	8	23,829	0	0	0	0	0	0	0	
21	211	162	32	36,222	0	26	0	0	0	8	23,795	0	0	0	0	0	0	0	
22	218	143	32	36,248	0	28	0	0	1	10	23,756	0	0	0	0	0	0	0	
23	215	143	32	36,269	0	29	0	0	0	12	23,715	0	0	0	0	0	0	0	
24	209	144	33	36,284	0	28	0	0	1	10	23,676	0	0	0	0	0	0	0	
25	214	140	24	36,307	0	33	0	0	0	17	23,626	0	0	0	0	0	0	0	
26	224	150	19	36,348	0	31	0	0	1	8	23,586	0	0	0	0	0	0	0	
27	220	153	20	36,370	0	24	0	0	0	15	23,547	0	0	0	0	0	0	0	
28	218	151	19	36,400	0	28	0	0	1	11	23,507	0	0	0	0	0	0	0	
29	211	157	20	36,424	0	23	0	0	0	6	23,478	0	0	0	0	0	0	0	
30	213	147	21	36,455	0	22	0	0	1	8	23,447	0	0	0	0	0	0	0	
S.F.D.	6,535	4,571	582	36,455	0	733	543	0	17	255	23,447	0	0	0	0	0	0	0	
AC.FT.	12,962	9,066	1,155	72,309	0	1,454	1,077	0	33	506	46,506	0	0	0	0	0	0	0	
TOTAL ACRE-FOOT STORAGE DAYS																	2,145,554	1,432,057	0

TOTAL ACRE-FOOT STORAGE DAYS

TOTAL ACRE-FOOT STORAGE DAYS

TOTAL ACRE-FOOT STORAGE DAYS

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

November                                                                                                          None

**HISTORY OF GREAT FLOODS ON KERN RIVER**

<u>DATE</u>	<u>FLOW RATE/ COMMENTS</u>	<u>DATE</u>	<u>FLOW RATE/ COMMENTS</u>
December 1861	Unknown (Earliest known flood to occur)	December 23, 1955	12,711 cfs
January 1862	Unknown	February 1, 1963	15,584 cfs
<b>December 1867</b>	Magnitude of 6Dec 1966 (100,000 cfs)	<b>December 6, 1966</b>	80,029 cfs (9,289 cfs peak @ First Point) - Maximum Instantaneous Infow to Lake Isabella of approximately 120,000 cfs
January 1890	Unknown	<b>January 25, 1969</b>	24,216 cfs (3,188 cfs peak @ First Point)
February 1893	Unknown	January 16, 1970	6,298 cfs
<b><u>Measurements of Flow at First Point were begun on September 29, 1893</u></b>		<b>February 9, 1978</b>	10,901 cfs (8,280 cfs peak @ First Point)
January 14, 1909	8,779 cfs (11,870 cfs peak instantaneous)	March 5, 1978	7,683 cfs
January 26, 1914	15,478 cfs (18,287 cfs peak instantaneous)	January 14, 1980	13,550 cfs
January 18, 1916	16,125 cfs (17,962 cfs peak instantaneous)	February 18, 1980	14,171 cfs
<b>February 7, 1937</b>	14,675 cfs (20,000 cfs peak instantaneous)	April 11, 1982	9,075 cfs
December 12, 1937	4,227 cfs (6,859 cfs peak instantaneous)	November 30, 1982	5,409 cfs
March 3, 1938	11,461 cfs (14,582 cfs peak instantaneous)	<b>May 29, 1983</b>	14,038 cfs (Greatest snowmelt flow on record)
January 23, 1943	11,654 cfs (15,100 cfs peak instantaneous)	February 19, 1986	8,296 cfs
<b>March 9, 1943</b>	11,921 (21,701 cfs peak instantaneous)	March 5, 1991	5,025 cfs
March 10, 1943	11,891 cfs	March 11, 1995	5,409 cfs (2,117 cfs peak at First Point)
March 18, 1943	11,228 cfs	February 20, 1996	9,024 cfs (1,955 cfs peak at First Point)
<b>November 19, 1950</b>	15,400 cfs (37,000 cfs peak instantaneous)	December 11, 1996	5,841 cfs
May 1952	Snowmelt (Flows ranging from 5,250 cfs to 8,358 cfs)	<b>January 3, 1997</b>	19,794 cfs (32,250 cfs peak on North Fork at Kernville - 3rd Highest Flow of the 20th Century)
		February 23, 1998	8,477 cfs (4,802 cfs peak at First Point)
		<b>November 9, 2002</b>	10,627 cfs (26,504 cfs peak on North Fork at Kernville)

**REPORT OF THE KERN RIVER WATERMASTER**

DECEMBER 2003

Quantities in S.F.D. except where noted

PAGE 1 of 5

DAY	ISABELLA RESERVOIR		LOSS	FLOW AT 1ST POINT	FLOW ABOVE 1ST POINT	FIRST POINT REGULATED FLOW	CHANGE IN STORAGE-LOSS		COMPUTED 1ST POINT NATURAL FLOW	MEAN TOTAL IRRIGATION	STORAGE Recreation Pool + Dead Storage = 15,218 S.F.D. (30,184 ACFT)	KERN COUNTY RECREATION POOL LOSS	TOTAL FLOW AT SECOND POINT	SECOND POINT GROUP FLOW		FRIANT-KERN INFLOW DAY
	ELEVATION (FEET)	MIDNIGHT STORAGE ACRE-FEET					RESERVOIR S.F.D.	+1ST POINT REGULATED FLOW						-1ST POINT REGULATED FLOW	KERN RIVER	
Previous Day	2556.76	148,999	75,120	22	169	191	213	213	213	75,120	59,902	3	0	0	0	0
1	2556.75	148,945	75,093	30	203	225	228	224	224	75,089	59,871	4	0	0	0	1
2	2556.71	148,725	74,982	19	285	307	215	213	213	74,976	59,758	3	0	0	0	2
3	2556.67	148,505	74,871	11	288	296	196	202	202	74,871	59,653	2	0	0	0	3
4	2556.63	148,286	74,761	17	264	289	196	195	195	74,760	59,542	2	0	0	0	4
5	2556.59	148,067	74,650	23	254	280	192	204	204	74,661	59,443	3	0	0	0	5
6	2556.56	147,903	74,588	30	249	276	224	215	215	74,570	59,352	4	0	0	0	6
7	2556.54	147,793	74,512	19	242	265	228	262	262	74,548	59,330	3	0	0	0	7
8	2556.54	147,793	74,512	21	295	314	335	281	281	74,494	59,276	3	0	0	0	8
9	2556.51	147,629	74,430	19	321	343	280	270	270	74,402	59,184	3	0	0	0	9
10	2556.45	147,303	74,285	17	322	344	196	244	244	74,285	59,067	2	0	0	0	10
11	2556.43	147,193	74,210	15	275	296	256	242	242	74,216	59,998	2	0	0	0	11
12	2556.43	147,193	74,210	13	242	260	244	258	258	74,201	58,983	2	0	0	0	12
13	2556.42	147,139	74,183	11	243	260	244	255	255	74,185	58,967	2	0	0	0	13
14	2556.40	147,030	74,128	13	269	291	249	267	267	74,148	58,930	2	0	0	0	14
15	2556.40	147,030	74,128	13	275	296	309	284	284	74,123	58,905	2	0	0	0	15
16	2556.40	147,030	74,128	32	261	261	293	274	274	74,104	58,886	5	0	0	0	16
17	2556.38	146,921	74,073	30	245	246	221	264	264	74,092	58,874	4	0	0	0	17
18	2556.38	146,921	74,073	32	241	245	277	247	247	74,062	58,844	5	0	0	0	18
19	2556.37	146,866	74,045	19	235	252	243	254	254	74,045	58,827	3	0	0	0	19
20	2556.36	146,812	74,018	17	236	252	242	259	259	74,035	58,817	2	0	0	0	20
21	2556.37	146,866	74,045	17	239	250	294	271	271	74,039	58,821	2	0	0	0	21
22	2556.37	146,866	74,045	17	240	259	276	280	280	74,043	58,825	2	0	0	0	22
23	2556.37	146,866	74,045	19	229	251	270	272	272	74,045	58,827	3	0	0	0	23
24	2556.38	146,921	74,073	11	242	262	301	301	301	74,073	58,855	2	0	0	0	24
25	2556.58	148,012	74,623	7	269	284	841	841	841	74,623	59,405	1	0	0	0	25
26	2556.68	148,560	74,899	19	266	281	576	576	576	74,899	59,681	3	0	0	0	26
27	2556.70	148,670	74,954	15	294	308	378	378	378	74,954	59,736	2	0	0	0	27
28	2556.67	148,505	74,871	11	344	360	288	322	322	74,905	59,687	2	0	0	0	28
29	2556.68	148,560	74,899	1	346	362	391	350	350	74,892	59,674	0	0	0	0	29
30	2556.68	148,560	74,899	13	340	358	371	378	378	74,899	59,681	2	0	0	0	30
31	2556.67	148,505	74,871	9	345	363	344	344	344	74,871	59,653	1	0	0	0	31
<b>TOTAL SECOND FOOT DAYS</b>				540	8,379	557	8,936	9,227	9,227	74,871	59,653	78	0	0	0	0
<b>TOTAL ACRE-FEET</b>				1,071	16,619	1,105	17,724	18,301	18,301	148,505	118,321	155	0	0	0	0

By:  Date: January 21, 2004

**REPORT OF THE KERN RIVER WATERMASTER**

Quantities in S.F.D. except where noted

DECEMBER 2003

NORTH KERN WATER STORAGE DISTRICT										BUENA VISTA WATER STORAGE DISTRICT										HACIENDA WATER DISTRICT									
DAY	ENT'L AT 1ST			FLOW ABOVE			RESERVOIR STORAGE			ENT'L AT 1ST			FLOW ABOVE			RESERVOIR STORAGE			ENTITLED BY:			FLOW ABOVE			RESERVOIR STORAGE			DAY	
	POINT	POINT	POINT	1ST	POINT	POINT	LOSS	STORAGE	POINT	AT 1ST	POINT	VIA	AT 2ND	POINT	INC.	LOSS	STORAGE	POINT	CONTRIBUTED BY:	POINT	1ST	POINT	LOSS	STORAGE					
Previous Day	213	147	21	14	36,455	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1	224	178	21	19	36,461	0	25	0	1	1	23,410	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
2	213	262	22	12	36,378	0	23	0	0	0	23,380	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
3	202	253	27	7	36,293	0	15	0	1	1	23,360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
4	196	245	25	11	36,207	0	19	0	0	0	23,335	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
5	204	237	25	14	36,135	0	17	0	1	1	23,308	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
6	215	236	27	19	36,068	0	13	0	0	0	23,284	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6			
7	262	221	22	12	36,075	0	21	0	1	1	23,255	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7			
8	281	275	19	13	36,049	0	20	0	0	0	23,227	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8			
9	270	287	21	12	35,999	0	34	0	1	1	23,185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9			
10	244	283	22	11	35,927	0	39	0	0	0	23,140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10			
11	242	239	20	9	35,901	0	36	0	1	1	23,097	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11			
12	258	219	18	8	35,914	0	23	0	0	0	23,069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12			
13	255	221	16	7	35,925	0	22	0	1	1	23,042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13			
14	267	244	22	8	35,918	0	25	0	0	0	23,012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14			
15	284	246	20	8	35,928	0	29	0	1	1	22,977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15			
16	274	234	0	20	35,948	0	27	0	0	0	22,938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16			
17	264	216	1	19	35,976	0	29	0	0	0	22,898	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17			
18	247	209	3	20	35,991	0	32	0	1	1	22,853	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18			
19	254	208	17	12	36,008	0	27	0	0	0	22,819	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19			
20	259	219	16	11	36,021	0	17	0	0	0	22,796	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20			
21	271	211	10	11	36,060	0	28	0	1	1	22,761	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21			
22	280	207	19	11	36,103	0	33	0	0	0	22,722	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22			
23	272	202	22	12	36,139	0	27	0	0	0	22,688	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23			
24	301	242	19	7	36,172	0	0	0	1	1	22,683	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24			
25	841	269	15	4	36,725	0	0	0	0	0	22,680	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25			
26	576	266	15	12	37,008	0	0	0	0	0	22,673	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26			
27	378	294	13	10	37,069	0	0	0	1	1	22,667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27			
28	322	344	16	7	37,024	0	0	0	0	0	22,663	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28			
29	350	346	16	1	37,011	0	0	0	0	0	22,663	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29			
30	378	340	17	8	37,024	0	0	0	1	1	22,657	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30			
31	344	345	18	6	37,004	0	0	0	0	0	22,649	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31			
S.F.D.	9,227	7,798	544	341	37,004	0	581	0	13	199	22,649	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S.F.D.			
AC.FT.	18,301	15,488	1,079	676	73,397	0	1,153	0	26	395	44,924	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	AC.FT.		
TOTAL ACRE-FOOT STORAGE DAYS										TOTAL ACRE-FOOT STORAGE DAYS										TOTAL ACRE-FOOT STORAGE DAYS									
2,230,335										2,230,335										1,412,014									
0										0										0									

**REPORT OF THE KERN RIVER WATERMASTER**

**DECEMBER 2003**  
**WATERMASTER NOTES \*\*\* KERN RIVER BULLETIN**

<u>MONTH</u>	<u>DAY(S)</u>	<u>PAGE NO.</u>	<u>TITLE OF COLUMN</u>	<u>COMMENT</u>
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 2003 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)



**Bellevue River Weir**  
**December 2003**



*Carrier Canal near Oak Street  
October 30, 2003*







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

Date: April 2003 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....  
LESS NON-CONTRIBUTING CANALS.....  
FOR OTHERS AND FIRST POINT CANALS.....  
TO BE CONTRIBUTED BY OTHER CANALS.....  
TO BE CONTRIBUTED BY OTHER CANALS.....  
EACH OTHER CANAL TO RECEIVE.....

56146  
17851  
30295  
30783  
7512  
N/A

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%)..... 581  
B.V.W.S.D. ENTITLEMENT..... 12182  
SEEPAGE LOSS..... 655  
KERN RIVER CONDUIT ENTITLEMENT..... 17365  
HACIENDA W.D. ENTITLEMENT AT FIRST POINT..... 0  
TOTAL..... 30783

RIVER STAGE	DIVERSION RIGHT		GROSS DIV'R	GROSS ENT'L	RELEASES		ENTITLEMENT LESS RELEASES OR PLUS DISTRIBUTED RELEASES		EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS			WATER TRANS. LOSS		ISABELLA RESERVOIR							
	AMT.	NAME OF CANAL			To River	Distribution	Direct	Pro	NKWS	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWS	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS
300.0	300	K.C.L. Co. ENT'L @ 2ND PT. KERN ISLAND (1-ST) EASTSIDE	9998 1396	581 17365			581		12607			194	95	9804	1301		2		1500	6573	87	0	7986
320.0	20	CASTRO		60	238		17365												0	0	0	0	0
330.5	10.5	KCC&W Co.		166	726		1190												7680	25613	374	0	32919
410.5	80	SOUTH FORK	32	115	49	22													56	812	56	0	868
530.5	120	BUENA VISTA (1-ST)	906	887	38	811	4618	1660	88					906			28		726	4185	56	0	4855
550.5	20	JAMES (1-ST)		1337	3281		446																
550.5	20	ANDERSON (1-ST)		226	220		446																
700.5	150	STINE		1668	292			1376															
730.5	30	MEACHAM		337	262		599																
880.5	150	FARMERS	56	1559	204			1355						56					1376	3666	54	0	4988
920.5	40	PLUNKET		300	202		502												1299	2289	38	0	3550
960.5	40	JOYCE		262	65		327																
1000.5	40	JOHNSON		220			220																
1130.5	130	PIONEER (1-ST)		371			371																
1130.5	60	BEARDSLEY (1-ST)	970	4				4		4124				4000	2777	970			7836	2652	28	966	1858
1200.5	10	ANDERSON (2-ND)	6777																				
1240.5	40	JAMES & DIXON																					
1250.5	10	WILSON																					
1276.5	26	McCAFFREY																					
1376.5	100	McCORD																					
2226.5	850	CALLOWAY	2174											2174									
2426.5	200	RAILROAD																					
2516.5	90	BUENA VISTA (2-ND)																					
2696.5	180	JAMES (2-ND)																					
2886.5	170	PIONEER (2-ND)																					
3106.5	240	BEARDSLEY (3-RD)																					
3162.5	56	KERN ISLAND (2-ND)																					
		ROSEDALE REWSD																					
		TRUXTUN LAKES	20																				
		LAKE MING																					
		KERN VALLEY GOLF COURSE																					
		CALIFORNIA WATER SERVICE CO.																					
		OLCESE WD																					
		BYWSD VIA KDWD																					
TOTALS			197	25329	43309	5827	5827	0	7664	18555	16998	92	4413	4413	4000	5168	12067	1002	20473	103342	1381	1014	121420
FLOW AT FIRST POINT		LOSS		2268	655																		
			197	24597	43964																		

TOTAL CHANGE IN STORAGE = 18078

NOTES:  
Kern Island Exch. Less: from BYWSD= 194  
Eastside Exch. Less: from BYWSD= 95

Leerdo (NKWS): City to CWD (Basic)= 2496  
Leerdo Exch Plus: City to CWD (Basic)= 107  
Leerdo Exch Plus: City to NKWS (B/P)= 4017  
Leerdo (NKWS): City to HKWS (B/P)= 281  
  
Cally: (Central): City to K-TWD (Basic)= 1891  
Cally: (Central): City to RGWD (Basic)= 283  
River Loss: City to K-TWD (Basic)= 734  
River Loss: City to RGWD (Basic)= 109  
Truxtun Lake: City to K-TWD (Basic)= 16  
Truxtun Lake: City to RGWD (Basic)= 4







# CITY OF BAKERSFIELD

## KERN RIVER FIRST POINT FLOW AND DIVERSION RECORD

Date: August 2003 Recap

COMPUTED NATURAL FLOW AT FIRST POINT.....  
 LESS NON-CONTRIBUTING CANALS.....  
 FOR OTHERS AND FIRST POINT CANALS.....  
 TO BE CONTRIBUTED BY OTHER CANALS.....  
 TO BE USED BY OTHER CANALS.....  
 EACH OTHER CANAL TO RECEIVE.....

24278  
 18198  
 6080  
 5927  
 153  
 N/A

QUANTITIES IN: ACRE-FEET

K.C.L. CO. ENTITLEMENT AT SECOND POINT (4.563%)..... 85  
 B.V.W.S.D. ENTITLEMENT..... 1896  
 SEEPAGE LOSS..... 676  
 KERN RIVER CONDUIT ENTITLEMENT..... 3270  
 HACIENDA W.D. ENTITLEMENT AT FIRST POINT..... 0  
 TOTAL..... 5927

% OF IT'S DIVERSION RIGHT

RIVER STAGE	DIVERSION RIGHT		GROSS DIV'R	GROSS ENT'L	RELEASES		ENTITLEMENT LESS RELEASES ... OR PLUS DISTRIBUTED RELEASES		EXCHANGES, SALES OR PURCHASES		NET DIVERSIONS		WATER TRANS. LOSS		ISABELLA RESERVOIR								
	AMT.	NAME OF CANAL			To River	Direct	Pro	NKWS	KCC&W Co.	KDWD	OTHER	PLUS	LESS	NKWS	KCC&W Co.	KDWD	OTHER	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	CUT
300.0	300	K.C.L. Co. ENT'L @ 2ND PT.	20756	18198	85		18198											1109	4282	98		3276	2017
		KERN ISLAND (1-ST)	1882																				
		EASTSIDE																					
320.0	20	CASTRO		3270			3270																
		KCC&W Co.																					
330.5	10.5	SOUTH FORK	26	4		6																	
410.5	80	BUENA VISTA (1-ST)	2678	22		22																	
530.5	120	JAMES (1-ST)		34		34																	
550.5	20	ANDERSON (1-ST)		6		6																	
700.5	150	STINE	4061	41		41																	
730.5	30	MEACHAM		8		8																	
860.5	150	FARMERS	2524	34		34																	
920.5	40	PLUNKET																					
960.5	40	JOYCE																					
1000.5	40	JOHNSON																					
1130.5	130	PIONEER (1-ST)																					
1190.5	60	BEARDSLEY (1-ST)	760																				
1200.5	10	ANDERSON (2-ND)	25386																				
1240.5	40	JAMES & DIXON																					
1260.5	10	WILSON																					
1276.5	26	McCAFFREY																					
1376.5	100	McCORD																					
2226.5	850	CALLOWAY																					
2426.5	200	RAILROAD																					
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)	16																				
		ROSEDALE RWISD																					
		TRUXTUN LAKES																					
		LAKE MING																					
		KERN VALLEY GOLF COURSE																					
		CALIFORNIA WATER SERVICE CO.																					
		OLCESE WD																					
		BERRENDA MESA PIPELINE (ID-4)																					
		BIWSD VIA KDWD																					
		BIWSD VIA KOWD (MWD WATER)																					
		BIWSD VIA CWD (STATE EXCHANGE)																					
		BIWSD VIA CWD (CVC EXCHANGE)																					
		BIWSD FOR LA HACIENDA, INC.																					
		NKWS FOR CWD																					
TOTALS			58089	21706	0	133	3276	18295	2	18242	14689	8270	22683	786				5620	127167	3471	36802	92514	
FLOW AT FIRST POINT			7102	676																			
		LOSS	65191	22382																			

TOTAL CHANGE IN STORAGE = -34653

NOTES:  
 Kern Island Exch. Less: from BIWSD= 1248  
 Kern Island Exch. Less: BIWSD (MWD)= 87  
 Eastside Exch. Less: from BIWSD= 254  
 Buena Vista Exch. Less: from BIWSD (MWD)= 684  
 Buena Vista Exch. Less: BIWSD (MWD)= 2204  
 Stine Exch. Less: from BIWSD= 258  
 Stine Exch. Less: from BIWSD (MWD)= 2837  
 Farmers Exch. Less: from BIWSD (MWD)= 1652  
 Lerdo Exch. Less: BIWSD via CWD= 3846  
 Lerdo (NKWS): City to CWD (Basic)= 5653  
 Lerdo Exch. Plus: City to NKWS (Basic)= 5000  
 Lerdo Exch. Less: NKWS for CWD= 34  
 River Loss: City to K-TWD (Basic)= 5096  
 River Loss: City to RGWD (Basic)= 765  
 Berrenda Mesa: City to K-TWD (Basic)= 14  
 Berrenda Mesa: City to RGWD (Basic)= 2  
 Lerdo: ID4 to CWD: City to K-TWD (Basic)= 1013  
 Lerdo: ID4 to CWD: City to RGWD (Basic)= 151

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

Date: September 2003 Recap

COMPUTED NATURAL FLOW AT FIRST POINT..... 14555  
 LESS NON-CONTRIBUTING CANALS..... 13275  
 FOR OTHERS AND FIRST POINT CANALS..... 1260  
 TO BE CONTRIBUTED BY OTHER CANALS..... 655  
 TO BE USED BY OTHER CANALS..... 625  
 EACH OTHER CANAL TO RECEIVE..... N/A

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

% OF ITS DIVERSION RIGHT  
 14555  
 13275  
 1260  
 655  
 625  
 N/A

RIVER STAGE	DIVERSION RIGHT		GROSS DIV/R ENT/L	GROSS RIVER	RELEASES		ENTITLEMENT LESS RELEASES OR PLUS DISTRIBUTED RELEASES			EXCHANGES, SALES OR PURCHASES			NET DIVERSIONS			WATER TRANS. LOSS		ISABELLA RESERVOIR				
	AMT.	NAME OF CANAL			To River	Distribution Direct	Pro	Other	Other	Other	Plus	Less	NKWS	KCC&W Co.	KDWD	Other	DIR	PRO	IN	PREVIOUS BALANCE	LOSS	OUT
300.0	300	K.C.L. Co. ENT/L @ 2ND PT. KERN ISLAND (1-ST)	10271	13275	3658			9417			1470			8601			52	564	2017	81	0	2500
		EASTSIDE KERN RIVER CONDUIT	1067								1067											
320.0	20	CASTRO		46		244																
		KCC&W Co.		121		742		1153														
330.5	10.5	SOUTH FORK	20	83		477		560														
410.5	80	BUENA VISTA (1-ST)	2592	363		2163		2526			349			2243								
530.5	120	JAMES (1-ST)		12		232		244														
550.5	20	ANDERSON (1-ST)																				
700.5	150	STINE	2138																			
730.5	30	MEACHAM																				
860.5	150	FARMERS	1515																			
920.5	40	PLUNKET																				
960.5	40	JOYCE																				
1000.5	40	JOHNSON																				
1130.5	130	PIONEER (1-ST)	793																			
1190.5	60	BEARDSLEY (1-ST)	15996																			
1200.5	10	ANDERSON (2-ND)																				
1240.5	40	JAMES & DIXON																				
1250.5	10	WILSON																				
1276.5	26	McCAFFREY																				
1376.5	100	McCORD																				
2226.5	850	CALLOWAY																				
2426.5	200	RAILROAD																				
2516.5	90	BUENA VISTA (2-ND)																				
2696.5	180	JAMES (2-ND)																				
2866.5	170	PIONEER (2-ND)																				
3106.5	240	BEARDSLEY (3-ND)																				
3162.5	56	KERN ISLAND (2-ND)																				
		ROSEDALE BWSD																				
		TRUXTUN LAKES																				
		LAKE MING																				
		KERN VALLEY GOLF COURSE																				
		CALIFORNIA WATER SERVICE CO.																				
		OLCESE WD																				
		BWSD VIA KDWD																				
		BWSD VIA KDWD (MWD WATER)																				
		BWSD VIA CWD																				
		BWSD FOR LA HACIENDA, INC.																				
		BWSD TRANSFER TO 1ST PT. GRP.																				
		ARVIN-EDISON TURNOUT	54																			
TOTALS			1230	34446	13900	3858	0	244	1153	11943	560	12593	8243	5465	11341	813	5	857				
		LOSS																				
		FLOW AT FIRST POINT	1230	35962	14555																	

TOTAL CHANGE IN STORAGE = -12873

NOTES:  
 Kern Island Exch. Less: from BVWSD= 1145  
 Kern Island Exch. Less: BVWSD (MWD)= 325  
 Eastside Exch. Less: from BVWSD= 295  
 Eastside Exch. Less: from BWSD (MWD)= 772  
 Buena Vista Exch. Less: BVWSD (MWD)= 349  
 Slime Exch. Less: from BVWSD= 1819  
 Slime Exch. Less: from BVWSD (MWD)= 319  
 Slime via A-E Turnout: from BVWSD= 54  
 Farmers Exch. Less: from BWSD (MWD)= 1218  
 Lerdo Exch. Less: BVWSD via CWD= 3412  
 Lerdo (NKWS): City to K-TWD (Basic)= 3776  
 Lerdo (NKWS): City to RGWD (Basic)= 565  
 Lerdo Exch. Plus: BVWSD transfer to NKWS on behalf of Camelo WD= 2779  
 (See BVWSD/CWD letter agreement dated 10-01-03)







# ISABELLA RESERVOIR KERN RIVER BASIN, CALIFORNIA

## MIDNIGHT STORAGE

Units in acre-feet

**JANUARY**

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	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318																																																																																																																																																																																	
1955	9659	9705	9751	9797	9843	9889	9935	9981	10027	10073	10119	10165	10211	10257	10303	10349	10395	10441	10487	10533	10579	10625	10671	10717	10763	10809	10855	10901	10947	10993	11039																																																																																																																																																																																	
1956	7923	8016	8110	8204	8298	8392	8486	8580	8674	8768	8862	8956	9050	9144	9238	9332	9426	9520	9614	9708	9802	9896	9990	10084	10178	10272	10366	10460	10554	10648	10742	10836																																																																																																																																																																																
1957	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063	13063																																																																																																																																																																																
1958	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413	10413																																																																																																																																																																																
1959	19607	19791	19975	20159	20343	20527	20711	20895	21079	21263	21447	21631	21815	22000	22184	22368	22552	22736	22920	23104	23288	23472	23656	23840	24024	24208	24392	24576	24760	24944	25128	25312																																																																																																																																																																																
1960	71575	71542	71509	71476	71443	71410	71377	71344	71311	71278	71245	71212	71179	71146	71113	71080	71047	71014	70981	70948	70915	70882	70849	70816	70783	70750	70717	70684	70651	70618	70585	70552																																																																																																																																																																																
1961	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101	29101																																																																																																																																																																																
1962	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324	17324																																																																																																																																																																																
1963	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949	62949																																																																																																																																																																															
1964	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903	169903																																																																																																																																																																														
1965	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883	116883																																																																																																																																																																														
1966	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193	171193																																																																																																																																																																														
1967	306662	306326	305990	305654	305318	304982	304646	304310	303974	303638	303302	302966	302630	302294	301958	301622	301286	300950	300614	300278	299942	299606	299270	298934	298598	298262	297926	297590	297254	296918	296582	296246	295910	295574																																																																																																																																																																														
1968	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671	194671																																																																																																																																																																														
1969	124431	124381	124331	124281	124231	124181	124131	124081	124031	123981	123931	123881	123831	123781	123731	123681	123631	123581	123531	123481	123431	123381	123331	123281	123231	123181	123131	123081	123031	122981	122931	122881	122831	122781	122731																																																																																																																																																																													
1970	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336	235336																																																																																																																																																																													
1971	172219	172202	172185	172168	172151	172134	172117	172100	172083	172066	172049	172032	172015	171998	171981	171964	171947	171930	171913	171896	171879	171862	171845	171828	171811	171794	171777	171760	171743	171726	171709	171692	171675	171658	171641																																																																																																																																																																													
1972	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069	122069																																																																																																																																																																												
1973	55645	55617	55589	55561	55533	55505	55477	55449	55421	55393	55365	55337	55309	55281	55253	55225	55197	55169	55141	55113	55085	55057	55029	54999	54971	54943	54915	54887	54859	54831	54803	54775	54747	54719	54691	54663																																																																																																																																																																												
1974	206281	206347	206413	206479	206545	206611	206677	206743	206809	206875	206941	207007	207073	207139	207205	207271	207337	207403	207469	207535	207601	207667	207733	207799	207865	207931	207997	208063	208129	208195	208261	208327	208393	208459	208525	208591	208657																																																																																																																																																																											
1975	223930	224000	224070	224140	224210	224280	224350	224420	224490	224560	224630	224700	224770	224840	224910	224980	225050	225120	225190	225260	225330	225400	225470	225540	225610	225680	225750	225820	225890	225960	226030	226100	226170	226240	226310	226380	226450	226520																																																																																																																																																																										
1976	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131	170131																																																																																																																																																																											
1977	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698	67698																																																																																																																																																																											
1978	44060	44028	43996	43964	43932	43900	43868	43836	43804	43772	43740	43708	43676	43644	43612	43580	43548	43516	43484	43452	43420	43388	43356	43324	43292	43260	43228	43196	43164	43132	43100	43068	43036	43004	42972	42940	42908	42876																																																																																																																																																																										
1979	24755	24445	24135	23825	23515	23205	22895	22585	22275	21965	21655	21345	21035	20725	20415	20105	19795	19485	19175	18865	18555	18245	17935	17625	17315	17005	16695	16385	16075	15765	15455	15145	14835	14525	14215	13905	13595	13285	12975	12665																																																																																																																																																																								
1980	208570	208700	208830	208960	209090	209220	209350	209480	209610	209740	209870	209999	210129	210259	210389	210519	210649	210779	210909	211039	211169	211299	211429	211559	211689	211819	211949	212079	212209	212339	212469	212599	212729	212859	212989	213119	213249	213379	213509	213639	213769	213899	214029	214159	214289	214419	214549	214679	214809	214939	215069	215199	215329	215459	215589	215719	215849	215979	216109	216239	216369	216499	216629	216759	216889	217019	217149	217279	217409	217539	217669	217799	217929	218059	218189	218319	218449	218579	218709	218839	218969	219099	219229	219359	219489	219619	219749	219879	219999	220129	220259	220389	220519	220649	220779	220909	221039	221169	221299	221429	221559	221689	221819	221949	222079	222209	222339	222469	222599	222729	222859	222989	223119	223249	223379	223509	223639	223769	223899	224029	224159	224289	224419	224549	224679	224809	224939	225069	225199	225329	225459	225589	225719	225849	225979	226109	226239	226369	226499	226629	226759	226889	227019	227149	227279	227409	227539	227669	227799	227929	228059	228189	228319	228449	228579	228709	228839	228969	229099	229229	229359	229489	229619	229749	229879	229999	230129	230259	230389	230519	230649	230779	230909	231039	231169	231299	231429	231559	231689	231819	231949	232079	232209	232339	232469	232599	232729	232859	232989	233119	233249	233379	233509	233639	233769	233899	234029	234159	234289	234419	234549	234679	234809	234939	235069	235199	235329	235459



# ISABELLA RESERVOIR KERN RIVER BASIN, CALIFORNIA

## MIDNIGHT STORAGE

### Units in acre-feet

### MARCH

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	174764	175128	175481	175834	176187	176540	176893	177246	177599	177952	178305	178658	179011	179364	179717	180070	180423	180776	181129	181482	181835	182188	182541	182894	183247	183600	183953	184306	184659	185012	185365	185718	186071	186424	186777	187130	187483	187836	188189	188542	188895	189248	189601	189954	190307	190660	191013	191366	191719	192072	192425	192778	193131	193484	193837	194190	194543	194896	195249	195602	195955	196308	196661	197014	197367	197720	198073	198426	198779	199132	199485	199838	200191	200544	200897	201250	201603	201956	202309	202662	203015	203368	203721	204074	204427	204780	205133	205486	205839	206192	206545	206898	207251	207604	207957	208310	208663	209016	209369	209722	210075	210428	210781	211134	211487	211840	212193	212546	212899	213252	213605	213958	214311	214664	215017	215370	215723	216076	216429	216782	217135	217488	217841	218194	218547	218900	219253	219606	219959	220312	220665	221018	221371	221724	222077	222430	222783	223136	223489	223842	224195	224548	224901	225254	225607	225960	226313	226666	227019	227372	227725	228078	228431	228784	229137	229490	229843	230196	230549	230902	231255	231608	231961	232314	232667	233020	233373	233726	234079	234432	234785	235138	235491	235844	236197	236550	236903	237256	237609	237962	238315	238668	239021	239374	239727	240080	240433	240786	241139	241492	241845	242198	242551	242904	243257	243610	243963	244316	244669	245022	245375	245728	246081	246434	246787	247140	247493	247846	248199	248552	248905	249258	249611	249964	250317	250670	251023	251376	251729	252082	252435	252788	253141	253494	253847	254200	254553	254906	255259	255612	255965	256318	256671	257024	257377	257730	258083	258436	258789	259142	259495	259848	260201	260554	260907	261260	261613	261966	262319	262672	263025	263378	263731	264084	264437	264790	265143	265496	265849	266202	266555	266908	267261	267614	267967	268320	268673	269026	269379	269732	270085	270438	270791	271144	271497	271850	272203	272556	272909	273262	273615	273968	274321	274674	275027	275380	275733	276086	276439	276792	277145	277498	277851	278204	278557	278910	279263	279616	279969	280322	280675	281028	281381	281734	282087	282440	282793	283146	283499	283852	284205	284558	284911	285264	285617	285970	286323	286676	287029	287382	287735	288088	288441	288794	289147	289500	289853	290206	290559	290912	291265	291618	291971	292324	292677	293030	293383	293736	294089	294442	294795	295148	295501	295854	296207	296560	296913	297266	297619	297972	298325	298678	299031	299384	299737	300090	300443	300796	301149	301502	301855	302208	302561	302914	303267	303620	303973	304326	304679	305032	305385	305738	306091	306444	306797	307150	307503	307856	308209	308562	308915	309268	309621	309974	310327	310680	311033	311386	311739	312092	312445	312798	313151	313504	313857	314210	314563	314916	315269	315622	315975	316328	316681	317034	317387	317740	318093	318446	318799	319152	319505	319858	320211	320564	320917	321270	321623	321976	322329	322682	323035	323388	323741	324094	324447	324800	325153	325506	325859	326212	326565	326918	327271	327624	327977	328330	328683	329036	329389	329742	330095	330448	330801	331154	331507	331860	332213	332566	332919	333272	333625	333978	334331	334684	335037	335390	335743	336096	336449	336802	337155	337508	337861	338214	338567	338920	339273	339626	339979	340332	340685	341038	341391	341744	342097	342450	342803	343156	343509	343862	344215	344568	344921	345274	345627	345980	346333	346686	347039	347392	347745	348098	348451	348804	349157	349510	349863	350216	350569	350922	351275	351628	351981	352334	352687	353040	353393	353746	354099	354452	354805	355158	355511	355864	356217	356570	356923	357276	357629	357982	358335	358688	359041	359394	359747	360100	360453	360806	361159	361512	361865	362218	362571	362924	363277	363630	363983	364336	364689	365042	365395	365748	366101	366454	366807	367160	367513	367866	368219	368572	368925	369278	369631	369984	370337	370690	371043	371396	371749	372102	372455	372808	373161	373514	373867	374220	374573	374926	375279	375632	375985	376338	376691	377044	377397	377750	378103	378456	378809	379162	379515	379868	380221	380574	380927	381280	381633	381986	382339	382692	383045	383398	383751	384104	384457	384810	385163	385516	385869	386222	386575	386928	387281	387634	387987	388340	388693	389046	389399	389752	390105	390458	390811	391164	391517	391870	392223	392576	392929	393282	393635	393988	394341	394694	395047	395400	395753	396106	396459	396812	397165	397518	397871	398224	398577	398930	399283	399636	399989	400342	400695	401048	401401	401754	402107	402460	402813	403166	403519	403872	404225	404578	404931	405284	405637	405990	406343	406696	407049	407402	407755	408108	408461	408814	409167	409520	409873	410226	410579	410932	411285	411638	411991	412344	412697	413050	413403	413756	414109	414462	414815	415168	415521	415874	416227	416580	416933	417286	417639	417992	418345	418698	419051	419404	419757	420110	420463	420816	421169	421522	421875	422228	422581	422934	423287	423640	423993	424346	424699	425052	425405	425758	426111	4264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# ISABELLA RESERVOIR KERN RIVER BASIN, CALIFORNIA

## MIDNIGHT STORAGE

Units in acre-feet

MAY

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	2185	2487	2500	2700	2875	3078	3006	3562	3638	4010	4254	4413	4608	4850	5040	5285	5480	5684	6004	6308	6594	6854	7043	7232	7385	7510	7594	7712	7808	7970	8074		
1955	6209	6400	6550	6705	6862	7110	7453	7957	8381	8904	9383	10186	11090	11911	12411	12846	13233	13590	13841	14835	15525	16171	17940	19230	19982	20443	21132	22283	23816	25552	28056		
1956	174522	175522	178444	179003	181102	183035	184859	186355	187688	188895	189894	190816	191620	192396	193056	193777	194401	195404	197004	198568	200327	203221	206878	211114	216677	221500	224912	228153	231671	236080	242000		
1957	123556	125063	124819	124917	124917	125307	125946	126347	126690	126950	127150	127301	127403	127454	127464	127474	127484	127494	127504	127514	127524	127534	127544	127554	127564	127574	127584	127594	127604	127614	127624		
1958	229327	231600	234441	237364	240442	243795	247376	251260	255463	260000	265891	273286	282345	293257	306159	340591	340591	340591	340591	340591	340591	340591	340591	340591	340591	340591	340591	340591	340591	340591	340591		
1959	199219	199656	200327	200738	201638	202791	204138	205689	207436	209387	211543	213910	216493	219296	223321	228684	235493	243859	253900	265659	279286	294941	312707	333659	357994	385824	417249	452384	491329	533084	579659		
1960	11742	112572	113356	114262	114765	115430	116122	116832	117638	118533	119510	120577	121734	122981	124328	125775	127322	128969	130716	132563	134500	136527	138644	140851	143158	145565	148072	150679	153386	156193	159000		
1961	35204	35497	35930	36185	36435	36727	36980	37240	37499	37768	38027	38286	38545	38804	39063	39322	39581	39840	40099	40358	40617	40876	41135	41394	41653	41912	42171	42430	42689	42948	43207		
1962	88320	90455	92814	95414	98242	101897	106708	111513	116318	121123	125928	130733	135538	140343	145148	150000	154852	159704	164556	169408	174260	179112	183964	188816	193668	198520	203372	208224	213076	217928	222780		
1963	172733	214150	216203	218125	220322	222468	224772	226867	228759	230748	232736	234724	236712	238700	240688	242676	244664	246652	248640	250628	252616	254604	256592	258580	260568	262556	264544	266532	268520	270508	272496		
1964	172644	173009	173312	173554	173838	174163	174520	174915	175340	175795	176280	176795	177340	177915	178520	179165	179840	180545	181280	182045	182840	183665	184520	185405	186320	187265	188240	189245	190280	191345	192430	193535	
1965	15911	163490	165705	167804	169688	171508	173192	174762	176236	177614	178906	180112	181234	182272	183226	184096	184881	185581	186196	186726	187171	187531	187806	188096	188301	188421	188556	188696	188841	188991	189146	189306	
1966	177594	179818	180000	181657	183161	184671	186191	187726	189276	190841	192421	194016	195626	197251	198891	200546	202216	203901	205601	207316	209046	210791	212551	214326	216116	217921	219741	221576	223426	225291	227176	229081	
1967	253689	259491	259676	264468	268261	270768	280558	285419	288316	290823	292929	294636	295943	296850	297357	297564	297471	297078	296385	295292	293799	291906	289613	286920	283827	280334	276441	272148	267455	262362	256869		
1968	294480	225535	228516	227358	228343	229330	230317	231296	232275	233254	234233	235212	236191	237170	238149	239128	240107	241086	242065	243044	244023	245002	245981	246960	247939	248918	249897	250876	251855	252834	253813	254792	
1969	177030	181603	183888	185845	187402	188559	189316	189673	189730	189487	188944	188101	186958	185515	183772	181429	178486	174943	170800	166157	161014	155371	149228	142585	135442	127799	119656	110913	101570	91627	81204	70281	
1970	263325	267706	264088	264488	263888	262269	259651	256033	251415	245797	239179	231561	222943	213325	202707	190089	175471	158853	140235	120617	99099	75081	48063	18045	-12073	-32151	-52529	-72907	-93285	-113663	-134041	-154419	
1971	194981	185547	185525	186596	186992	187278	188011	189709	189472	193065	191260	187553	182046	174830	166214	156298	145182	132966	120750	108534	96318	84102	71886	59670	47454	35238	23022	10806	-11410	-23624	-36238	-48852	
1972	113265	116771	114273	115485	115485	115688	116496	118258	119552	119792	118400	115640	111636	106383	99820	92202	82686	71470	58654	45238	30322	13906	-4100	-13616	-27232	-40848	-54464	-68080	-81696	-95312	-108928	-122544	
1973	137068	138625	143002	146917	150863	153957	157089	160665	163921	166856	169471	171773	173760	175428	176772	177791	178491	178870	178927	178662	178085	177206	176027	174568	172829	170810	168512	165935	163078	160041	156824	153437	
1974	282168	294274	297286	300888	301183	305750	308578	312263	317129	323155	329181	335207	341233	347259	353285	359311	365337	371363	377389	383415	389441	395467	401493	407519	413545	419571	425597	431623	437649	443675	449701	455727	
1975	216243	218177	217228	218051	218776	219633	220323	221596	222300	222976	223512	223907	224164	224291	224291	224164	223907	223512	222976	222300	221596	220323	219633	218776	218051	217228	216243	215258	214273	213288	212303	211318	
1976	155200	158551	157103	157103	157489	157982	158406	158864	159356	159881	160439	161030	161654	162311	162999	163718	164468	165239	166031	166844	167678	168542	169436	170360	171314	172298	173312	174356	175429	176532	177665	178828	
1977	60147	68572	65901	66489	66565	66727	66956	67213	67570	67927	68284	68641	69000	69359	69718	70077	70436	70795	71154	71513	71872	72231	72590	72949	73308	73667	74026	74385	74744	75103	75462	75821	
1978	284041	283882	283723	284280	286669	288588	289987	290854	291204	291045	290388	289231	287574	285417	282760	279603	275946	271789	267132	262075	256618	250761	244504	237847	230790	223333	215476	207219	198562	189495	180028	170461	160894
1979	333206	335307	337904	340519	343263	346056	348900	351804	354768	357792	360876	364020	367234	370518	373872	377296	380780	384324	387928	391592	395316	399090	402914	406788	410712	414686	418710	422784	426908	431082	435306	439580	443904
1980	388386	390203	389711	391181	392812	394505	396260	398076	399952	401889	403887	405945	408063	410241	412479	414777	417135	419553	422031	424569	427167	429825	432543	435321	438159	441057	443915	446833	449811	452849	455947	459105	462323
1981	267637	270471	273083	276491	279586	277705	276388	276181	280759	281987	283182	284347	285472	286557	287592	288587	289542	290457	291332	292167	292962	293717	294442	295137	295802	296437	297042	297617	298162	298677	299162	299617	299942
1982	370511	377158	383883	389587	395281	401224	407061	412941	418872	424859	430892	436971	443096	449267	455484	461747	468056	474411	480812	487259	493752	500291	506876	513507	520184	526907	533676	540491	547352	554259	561212	568211	575256
1983	388383	377346	374398	370324	367162	364476	361885	360421	359861	359300	358739	358178	357617	357056	356495	355934	355373	354812	354251	353690	353129	352568	352007	351446	350885	350324	349763	349202	348641	348080	347519	346958	346397
1984	314251	316278	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396	316396
1985	309901	312456	314935	318116	320881	323830	326795	329760	332735	335710	338685	341660	344635	347610	350585	353560	356535	359510	362485	365460	368435	371410	374385	377360	380335	383310	386285	389260	392235	395210	398185	401160	404135
1986	455548	458447	461652	464636	468314	468314	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523	468523
1987	246924	247259	247449	247975	24																												

# ISABELLA RESERVOIR KERN RIVER BASIN, CALIFORNIA

## MIDNIGHT STORAGE

Units in acre-feet

JUNE

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	82932	83764	84544	85000	85190	85304	85390	85504	85734	85974	86234	86514	86814	87134	87474	87834	88214	88614	89034	89474	89934	90414	90914	91434	91974	92534	93114	93714	94334	
1955	27556	28176	28656	29224	29804	30414	31054	31724	32424	33154	33914	34704	35524	36374	37254	38164	39104	40074	41074	42104	43164	44254	45374	46524	47704	48914	50154	51424	52724	54054	55414	
1956	238106	241126	243620	246340	249280	252440	255820	259420	263240	267280	271540	276020	280720	285640	290780	296140	301720	307540	313620	319960	326560	333420	340540	347920	355560	363460	371620	380040	388720	397660	406860	
1957	151805	154695	158517	163204	168804	175352	182884	191432	200024	209684	220440	232320	245360	259584	275024	291704	309664	328924	349504	371440	394760	419584	445924	473804	503244	534264	566884	601124	637004	674564	713824	
1958	413405	417985	422129	426983	432563	438883	445957	453791	462395	471775	481937	492889	504639	517195	530565	544757	559781	575647	592387	609999	628483	647849	668097	689237	711269	734193	758009	782727	808347	834869	862293	
1959	207443	206480	204880	202363	200032	197892	195924	194132	192412	190772	189320	188064	186992	186112	185432	184952	184672	184492	184412	184432	184552	184772	185092	185512	186032	186652	187372	188192	189112	190132	191252	192472
1960	118730	118825	118873	118925	118988	119054	119132	119220	119318	119436	119564	119702	119850	119998	120156	120324	120502	120690	120888	121096	121314	121542	121780	122028	122286	122554	122832	123120	123418	123726	124044	
1961	47316	47567	47743	47963	48344	48831	49404	49951	50468	51049	51694	52404	53179	54019	54914	55864	56869	57930	59047	60220	61449	62734	64074	65469	66919	68424	69984	71604	73284	75024	76824	
1962	133755	135508	137877	140877	145448	151704	159632	169264	180720	194128	209632	227376	247504	270176	295440	323424	354208	388640	426784	468688	514496	564256	618016	675824	737728	803776	873920	948208	1026704	1108176	1193448	
1963	294844	298760	303112	307902	313144	318856	325048	331732	338916	346608	354812	363536	372784	382568	392896	403776	415208	427192	439728	452816	466456	480648	495392	510688	526536	542936	559888	577392	595448	614056	633312	
1964	201838	202104	202326	202504	202632	202712	202744	202728	202664	202552	202392	202184	201928	201624	201272	200876	200432	199940	199400	198812	198176	197492	196760	195980	195152	194176	193052	191780	190360	188792	187072	
1965	227495	229006	230020	232522	236525	241937	248865	257317	267291	278811	291885	306513	322705	340471	359825	380777	403329	427481	453233	480585	509537	540089	572241	605993	641355	678327	716909	757091	798873	842255	887237	
1966	217505	216458	215792	215520	215648	216184	217224	218768	220816	223368	226424	230084	234348	239216	244688	250764	257444	264728	272608	281084	290156	299824	310088	320948	332404	344456	357004	370148	383884	398208	413128	
1967	374290	376739	378778	380318	382577	384433	386397	388473	390661	392961	395373	397897	400533	403281	406141	409113	412197	415393	418691	422091	425593	429197	432903	436711	440621	444633	448747	452963	457281	461701	466223	
1968	258433	257119	256896	256511	256065	255565	255019	254427	253791	253111	252389	251625	250819	249971	249081	248149	247175	246159	245101	244001	242859	241675	240449	239171	237841	236459	235025	233539	232001	230411	228769	
1969	467616	468772	469272	469728	470136	470496	470808	471072	471288	471456	471576	471648	471672	471648	471576	471456	471288	471072	470808	470496	470136	469728	469272	468772	468228	467684	467140	466596	466052	465508	464964	464420
1970	317214	320176	323200	326360	330624	336000	342584	350376	359384	369616	381176	394064	408296	423872	440704	459792	481136	504744	530528	558480	588600	620880	655320	691920	730680	771600	814680	859920	907320	955920	1005720	
1971	216854	217776	218601	219427	220253	221079	221905	222731	223557	224383	225209	226035	226861	227687	228513	229339	230165	230991	231817	232643	233469	234295	235121	235947	236773	237599	238425	239251	240077	240903	241729	
1972	123783	124138	124392	124646	124900	125154	125408	125662	125916	126170	126424	126678	126932	127186	127440	127694	127948	128202	128456	128710	128964	129218	129472	129726	129980	130234	130488	130742	130996	131250	131504	
1973	328716	333635	339502	346336	354144	363024	372976	384000	396096	409264	423504	438816	455200	472656	491184	510784	531456	553192	576000	600880	627832	656856	687960	720144	753408	787752	823176	859680	897264	935928	975672	
1974	414585	418827	422819	426572	430184	433656	436988	440179	443221	446123	448885	451507	453979	456301	458473	460495	462367	464089	465661	467083	468355	469477	470449	471271	471943	472465	472837	473059	473131	473053	472825	
1975	306710	310747	315275	320320	326000	333360	342528	353544	366448	381264	398016	416736	437440	460048	484560	511072	539584	569992	602304	636512	672624	710640	750560	792384	836112	881744	929272	978704	1029040	1080160	1132176	
1976	169381	168865	168652	168565	168597	168741	168896	169061	169236	169421	169616	169821	169996	170131	170226	170281	170296	170271	170206	170101	169956	169771	169546	169281	168976	168641	168276	167881	167446	166971	166456	
1977	72984	73826	74685	75479	76217	76901	77531	78104	78632	79108	79532	79904	80224	80492	80708	80872	80984	81044	81052	81008	80912	80764	80572	80336	80056	79732	79364	78952	78496	78004	77576	
1978	304295	308377	313519	319783	327187	335751	345495	356439	368693	382267	397171	413435	431079	449913	469847	490891	512945	535909	559783	585467	612971	642305	673469	706453	741257	777981	816525	856889	898973	942797	988371	
1979	429420	431627	434349	437583	441337	445611	450405	455719	461553	467907	474781	482195	489999	498193	506777	515651	524815	534269	544013	554047	564371	574985	585889	597073	608527	620251	632145	644209	656443	668847	681421	
1980	504240	508277	512931	518103	523793	530001	536725	543965	551721	559993	568781	578085	587905	598241	608093	618461	629345	640759	652693	665147	678121	691615	705629	720163	735217	750801	767415	784049	800703	818377	837071	
1981	308510	307510	306450	305330	304150	302910	301610	300260	298860	297410	295910	294360	292760	291110	289360	287610	285760	283810	281760	279610	277260	274810	272260	269610	266860	264010	261060	258010	254860	251610	248260	244810
1982	529333	530133	531234	532631	534324	536311	538594	541173	544051	547229	550707	554485	558563	562941	567619	572597	577875	583453	589331	595509	601987	608765	615843	623221	630909	638907	647215	655833	664751	673969	683487	
1983	407333	405966	404356	402501	400411	398085	395523	392725	389691	386421	382925	379203	375245	371051	366721	362255	357653	352915	348041	343031	337885	332607	327197	321655	315981	310175	304237	298167	291955	285601	279115	
1984	427736	434428	442296	451340	461572	472992	485600	499304	514112	530024	547040	565160	584392	604736	626192	648760	672440	697136	722848	749576	777312	806056	835808	866560	898312	931064	964816	999568	1035320	1072072	1109824	
1985	378405	377346	376593	376045	375601	375261	374925	374593	374265	373941	373621	373305	372993	372685	372381	372081	371785	371493	371205	370921	370641	370365	370093	369825	369561	369301	369045	368793	368545	368301	368059	
1986	539781	543817	547750	551536	555224	558764	562104	565296	568288	571128	573764	576144	578316	580328	582180	583872	585416	586812	588060	589160	590112	590916	591572	592080	592540	592952	593316	593632	593892	594104	594268	
1987	273876	274831	275707	276506	277228	277874	278444	278938	279356	279699	279967	280151	280261	280297	280261	280151	280001	279811	279581	279311	278991	27862										

# ISABELLA RESERVOIR KERN RIVER BASIN, CALIFORNIA

## MIDNIGHT STORAGE

### Units in acre-feet

### JULY

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	6850	6709	6624	6532	6439	6347	6256	6210	6120	6030	5950	5883	5817	5740	5667	5591	5492	5422	5342	5242	5142	5052	4952	4878	4820	4678	4785	4704	4638	4566			
1955	3972	3886	3873	3795	3783	3690	3619	3530	3448	3417	3355	3293	3230	3173	3120	3062	3047	3028	2970	2970	2930	2890	2850	2803	2748	2752	2708	2650	2628	2594			
1956	28274	28271	28207	28120	28071	27938	27824	27632	27463	27385	27420	27261	27106	26923	26730	26536	26372	26217	26043	25904	25804	25690	25562	25401	25253	25142	25056	24911	24741	24571			
1957	19670	17930	17921	17821	17623	17423	17352	17283	17203	17123	17043	16963	16883	16803	16723	16643	16563	16483	16403	16323	16243	16163	16083	16003	15923	15843	15763	15683	15603	15523	15443		
1958	44700	44782	44636	44524	44429	44375	44269	44169	44074	43981	43891	43803	43716	43631	43547	43464	43382	43301	43221	43142	43064	42987	42911	42836	42762	42689	42617	42546	42476	42407	42339		
1959	13737	13461	13195	12939	12696	12464	12244	12036	11840	11656	11483	11321	11170	11030	10899	10779	10662	10548	10436	10326	10218	10111	10006	9902	9800	9698	9597	9497	9398	9300	9203		
1960	8014	7949	7813	7679	7538	7398	7259	7121	6984	6848	6713	6579	6446	6314	6183	6053	5924	5795	5667	5540	5414	5289	5165	5042	4920	4800	4681	4564	4449	4336	4224		
1961	4919	4846	4683	4757	4690	4649	4585	4527	4467	4404	4340	4274	4207	4140	4073	4006	3939	3872	3805	3738	3671	3604	3537	3470	3403	3336	3269	3202	3135	3068	3001		
1962	17370	17404	17167	17025	17009	17046	16880	16914	16833	16855	16865	16863	16851	16838	16824	16809	16794	16779	16764	16749	16734	16719	16704	16689	16674	16659	16644	16629	16614	16599	16584		
1963	38910	38910	38887	38805	38840	38794	38719	38647	38575	38503	38431	38360	38289	38218	38147	38076	38005	37934	37863	37792	37721	37650	37579	37508	37437	37366	37295	37224	37153	37082	37011		
1964	17454	17165	17025	16846	16683	16512	16342	16172	16002	15832	15662	15492	15322	15152	14982	14812	14642	14472	14302	14132	13962	13792	13622	13452	13282	13112	12942	12772	12602	12432	12262	12092	
1965	28312	28390	28507	28500	28670	28747	28815	28884	28952	29020	29088	29156	29224	29292	29360	29428	29496	29564	29632	29700	29768	29836	29904	29972	30040	30108	30176	30244	30312	30380	30448	30516	
1966	18845	18751	18579	18416	18276	18167	18088	18029	17980	17941	17902	17863	17824	17785	17746	17707	17668	17629	17590	17551	17512	17473	17434	17395	17356	17317	17278	17239	17200	17161	17122	17083	
1967	48181	48526	49435	50221	50824	51258	51595	51935	52130	52283	52401	52502	52589	52664	52729	52784	52830	52867	52895	52914	52924	52925	52918	52903	52879	52846	52804	52754	52700	52642	52580	52512	
1968	23271	23146	22978	22827	22694	22584	22498	22434	22381	22338	22304	22279	22262	22253	22250	22252	22257	22264	22272	22281	22291	22301	22311	22321	22331	22341	22351	22361	22371	22381	22391	22401	
1969	57098	57382	57532	57618	57638	57684	57704	57728	57748	57768	57788	57808	57828	57848	57868	57888	57908	57928	57948	57968	57988	58008	58028	58048	58068	58088	58108	58128	58148	58168	58188	58208	
1970	31584	31502	31408	31300	31197	31096	30997	30897	30797	30697	30597	30497	30397	30297	30197	30097	29997	29897	29797	29697	29597	29497	29397	29297	29197	29097	28997	28897	28797	28697	28597	28497	
1971	23494	23401	23320	23276	23138	23007	22875	22743	22611	22479	22347	22215	22083	21951	21819	21687	21555	21423	21291	21159	21027	20895	20763	20631	20499	20367	20235	20103	19971	19839	19707	19575	
1972	11259	11186	11083	10952	10794	10657	10530	10420	10328	10254	10189	10133	10086	10048	10019	10000	9980	9960	9940	9920	9900	9880	9860	9840	9820	9800	9780	9760	9740	9720	9700	9680	
1973	39874	39733	39516	39195	38733	38133	37408	36564	35604	34536	33368	32100	30832	29564	28300	27048	25808	24580	23364	22160	21000	19884	18812	17796	16840	15944	15108	14332	13616	12960	12364	11828	11352
1974	47091	47019	46910	46850	46828	46833	46859	46902	46959	47028	47108	47198	47298	47408	47528	47658	47798	47948	48108	48278	48458	48648	48848	49058	49278	49508	49748	49998	50258	50528	50808	51098	
1975	33726	33664	33522	33461	33379	33329	33299	33284	33282	33292	33304	33316	33328	33340	33352	33364	33376	33388	33400	33412	33424	33436	33448	33460	33472	33484	33496	33508	33520	33532	33544	33556	33568
1976	13095	12936	12650	12350	12040	11710	11370	11020	10660	10290	9910	9520	9130	8740	8350	7960	7570	7180	6790	6400	6010	5620	5230	4840	4450	4060	3670	3280	2890	2500	2110	1720	1330
1977	7823	7751	7678	7613	7532	7461	7395	7333	7270	7208	7153	7094	7040	6989	6940	6894	6851	6810	6770	6731	6694	6658	6624	6591	6559	6528	6498	6469	6441	6414	6388	6362	6336
1978	48036	48574	48804	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824	48824
1979	41663	40948	40725	40451	40024	39463	38777	37967	37042	36022	34902	33682	32362	31042	29722	28402	27082	25762	24442	23122	21802	20482	19162	17842	16522	15202	13882	12562	11242	9922	8602	7282	5962
1980	53370	53624	53811	54011	54224	54450	54698	54968	55258	55568	55898	56248	56618	57008	57418	57848	58298	58768	59258	59768	60298	60848	61418	62008	62618	63248	63898	64568	65258	65968	66698	67448	68218
1981	28164	27872	27810	27628	27328	26918	26388	25654	24724	23604	22304	20844	19244	17544	15764	13844	11824	9724	7504	5184	2804	244	104	104	104	104	104	104	104	104	104	104	104
1982	59516	59061	58492	57710	56730	55567	54324	53024	51684	50314	48814	47284	45724	44134	42484	40874	39294	37744	36224	34734	33284	31874	30504	29174	27884	26634	25424	24254	23124	22034	20984	19974	18994
1983	62776	62786	62859	62913	63006	63141	63316	63531	63786	64081	64416	64791	65206	65661	66156	66691	67266	67881	68546	69261	69926	70641	71406	72221	73086	74001	74966	75981	77046	78161	79326	80541	81816
1984	35041	34637	33972	33023	31871	30436	28821	27046	25136	23096	20946	18696	16346	13896	11346	8696	5946	3096	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146
1985	36397	36341	36142	35942	35742	35542	35342	35142	34942	34742	34542	34342	34142	33942	33742	33542	33342	33142	32942	32742	32542	32342	32142	31942	31742	31542	31342	31142	30942	30742	30542	30342	30142
1986	55124	55003	54875	54808	54742	54694	54654	54624	54598	54578	54562	54550	54542	54538	54538	54542	54548	54554	54560	54566	54572	54578	54584	54590	54596	54602	54608	54614	54620	54626	54632	54638	54644
1987	25051	25061	24902	24734	24591	24424	24259	24074	23859	23619	23364	23094	22819	22539	22254	21964	21669	21369	21064	20754	20439	20119	19794	19464	19129	18789	18444	18094	17739	17379	16919	16459	15999
1988	17108	17077	16879	16684	16491	16298	16105	15912	15719	15526	15333	15140	14947	14754	14561	14368	14175	13982	13789	13596	13403	13210	13017	12824	12631	12438	12245	12052	11859	11666	11473	11280	11087
1989	8189	8046	8071	8143	8204	8255	8306	8357	8408	8459	8510	8561	8612	8663	8714	8765	8816	8867	8918	8969	9020	9071	9122	9173	9224	9275	9326	9377	9428	9479	9530	9581	9632
1990	17057	17079	16929	16760	16581	16392	16193	16004	15815	15626																							

# ISABELLA RESERVOIR KERN RIVER BASIN, CALIFORNIA

## MIDNIGHT STORAGE

Units in acre-feet

AUGUST

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	42435	41226	40016	38770	37520	36279	35036	34740	33490	32249	31008	29767	28526	27285	26044	24803	23562	22321	21080	19839	18598	17357	16116	14875	13634	12393	11152	9911	8670	7429			
1955	25023	24983	24943	24903	24863	24823	24783	24743	24703	24663	24623	24583	24543	24503	24463	24423	24383	24343	24303	24263	24223	24183	24143	24103	24063	24023	23983	23943	23903	23863	23823	23783	23743		
1956	25023	24983	24943	24903	24863	24823	24783	24743	24703	24663	24623	24583	24543	24503	24463	24423	24383	24343	24303	24263	24223	24183	24143	24103	24063	24023	23983	23943	23903	23863	23823	23783	23743		
1957	14693	14575	14458	14340	14222	14104	13986	13868	13750	13632	13514	13396	13278	13160	13042	12924	12806	12688	12570	12452	12334	12216	12098	11980	11862	11744	11626	11508	11390	11272	11154	11036	10918		
1958	36743	36383	35923	35273	34523	33773	33023	32273	31523	30773	30023	29273	28523	27773	27023	26273	25523	24773	24023	23273	22523	21773	21023	20273	19523	18773	18023	17273	16523	15773	15023	14273	13523	12773	
1959	9334	9254	9174	9094	9014	8934	8854	8774	8694	8614	8534	8454	8374	8294	8214	8134	8054	7974	7894	7814	7734	7654	7574	7494	7414	7334	7254	7174	7094	7014	6934	6854	6774	6694	
1960	5001	5044	5087	5130	5173	5216	5259	5302	5345	5388	5431	5474	5517	5560	5603	5646	5689	5732	5775	5818	5861	5904	5947	5990	6033	6076	6119	6162	6205	6248	6291	6334	6377	6420	
1961	3006	2952	2898	2844	2790	2736	2682	2628	2574	2520	2466	2412	2358	2304	2250	2196	2142	2088	2034	1980	1926	1872	1818	1764	1710	1656	1602	1548	1494	1440	1386	1332	1278	1224	
1962	12913	12870	12827	12784	12741	12698	12655	12612	12569	12526	12483	12440	12397	12354	12311	12268	12225	12182	12139	12096	12053	12010	11967	11924	11881	11838	11795	11752	11709	11666	11623	11580	11537	11494	
1963	33615	33540	33465	33390	33315	33240	33165	33090	33015	32940	32865	32790	32715	32640	32565	32490	32415	32340	32265	32190	32115	32040	31965	31890	31815	31740	31665	31590	31515	31440	31365	31290	31215	31140	
1964	12182	12126	12069	11960	11850	11739	11628	11517	11406	11295	11184	11073	10962	10851	10740	10629	10518	10407	10296	10185	10074	9963	9852	9741	9630	9519	9408	9297	9186	9075	8964	8853	8742	8631	
1965	27543	27485	27427	27369	27311	27253	27195	27137	27079	27021	26963	26905	26847	26789	26731	26673	26615	26557	26499	26441	26383	26325	26267	26209	26151	26093	26035	25977	25919	25861	25803	25745	25687	25629	
1966	13853	13758	13663	13568	13473	13378	13283	13188	13093	12998	12903	12808	12713	12618	12523	12428	12333	12238	12143	12048	11953	11858	11763	11668	11573	11478	11383	11288	11193	11098	11003	10908	10813	10718	
1967	52419	52240	51948	51717	51383	51050	50717	50384	50051	49718	49385	49052	48719	48386	48053	47720	47387	47054	46721	46388	46055	45722	45389	45056	44723	44390	44057	43724	43391	43058	42725	42392	42059	41726	
1968	16474	16437	16308	16171	16035	15900	15765	15630	15495	15360	15225	15090	14955	14820	14685	14550	14415	14280	14145	14010	13875	13740	13605	13470	13335	13200	13065	12930	12795	12660	12525	12390	12255	12120	
1969	55157	54810	54360	53820	53280	52740	52200	51660	51120	50580	50040	49500	48960	48420	47880	47340	46800	46260	45720	45180	44640	44100	43560	43020	42480	41940	41400	40860	40320	39780	39240	38700	38160	37620	37080
1970	26347	26104	25818	25583	25348	25113	24878	24643	24408	24173	23938	23703	23468	23233	22998	22763	22528	22293	22058	21823	21588	21353	21118	20883	20648	20413	20178	19943	19708	19473	19238	19003	18768	18533	18298
1971	107821	105862	103789	101603	99308	96913	94418	91823	89128	86333	83538	80743	77948	75153	72358	69563	66768	63973	61178	58383	55588	52793	50000	47205	44410	41615	38820	36025	33230	30435	27640	24845	22050	19255	16460
1972	74567	74041	73191	72142	70887	69532	68177	66822	65467	64112	62757	61402	60047	58692	57337	55982	54627	53272	51917	50562	49207	47852	46497	45142	43787	42432	41077	39722	38367	37012	35657	34302	32947	31592	30237
1973	318537	317214	314696	312336	309912	307487	305062	302637	300212	297787	295362	292937	290512	288087	285662	283237	280812	278387	275962	273537	271112	268687	266262	263837	261412	258987	256562	254137	251712	249287	246862	244437	242012	239587	237162
1974	409174	407545	404677	402201	399273	395844	392415	388986	385557	382128	378699	375270	371841	368412	364983	361554	358125	354696	351267	347838	344409	340980	337551	334122	330693	327264	323835	320406	316977	313548	310119	306690	303261	299832	296403
1975	27088	26786	26470	26157	25840	25523	25206	24889	24572	24255	23938	23621	23304	22987	22670	22353	22036	21719	21402	21085	20768	20451	20134	19817	19500	19183	18866	18549	18232	17915	17598	17281	16964	16647	16330
1976	8636	8770	8904	9038	9172	9306	9440	9574	9708	9842	9976	10110	10244	10378	10512	10646	10780	10914	11048	11182	11316	11450	11584	11718	11852	11986	12120	12254	12388	12522	12656	12790	12924	13058	13192
1977	5181	5181	5127	5047	4948	4831	4704	4577	4450	4323	4196	4069	3942	3815	3688	3561	3434	3307	3180	3053	2926	2799	2672	2545	2418	2291	2164	2037	1910	1783	1656	1529	1402	1275	1148
1978	46656	46400	46183	45998	45745	45520	45325	45160	45025	44920	44845	44800	44785	44800	44835	44890	44965	45060	45175	45310	45465	45640	45835	46050	46295	46570	46875	47210	47585	48000	48465	48980	49545	50160	50835
1979	32077	31718	31366	30924	30396	29784	29092	28332	27517	26652	25741	24789	23799	22766	21694	20586	19447	18272	17066	15825	14554	13258	11942	10602	9244	7874	6490	5099	3700	2299	904	-497	-1898	-3321	-4254
1980	50775	50476	50145	49788	49408	49008	48592	48154	47708	47258	46808	46358	45908	45458	45008	44558	44108	43658	43208	42758	42308	41858	41408	40958	40508	40058	39608	39158	38708	38258	37808	37358	36908	36458	36008
1981	21743	21626	21502	21370	21232	21089	20942	20791	20636	20479	20319	20156	19990	19821	19650	19476	19300	19121	18939	18754	18566	18375	18181	17984	17784	17581	17375	17166	16954	16739	16521	16300	16076	15850	15621
1982	59249	59062	58840	58582	58290	57958	57590	57190	56762	56310	55838	55348	54842	54314	53766	53200	52618	52024	51418	50794	50154	49500	48834	48156	47468	46770	46064	45352	44636	43916	43192	42466	41738	41008	40276
1983	11616	11513	11406	11295	11180	11061	10939	10814	10686	10555	10422	10287	10150	10011	9871	9729	9586	9442	9297	9151	9004	8856	8707	8557	8406	8254	8101	7947	7792	7637	7481	7324	7166	7008	6849
1984	35184	34928	34586	34158	33646	33052	32388	31656	30856	30000	29090	28128	27116	26056	24950	23800	22608	21376	20106	18798	17454	16076	14666	13226	11756	10256	8726	7166	5576	3966	2336	706	-924	-2394	-3924
1985	265291	262558	260838	258929	256842	254578	252147	249552	246806	243922	240902	237758	234494	231122	227654	224094	220444	216708	212890	208994	205024	200984	196878	192700	188454	184138	179756	175302	170770	166174	161518	156806	152034	147206	142326
1986	46501	46205	45836	45423	45128	44794	44428	44038	43624	43186	42726	42244	41752	41240	40708	40166	39604	39032	38450	37858	37256	36644	36022	35390	34748	34096	33434	32762	32080	31388	30686	29974	29252	28520	27788
1987	19796	19575	19432	19304	19184	19072	18968	18872	18784	18702	18628	18562	18504	18454	18412																				

# ISABELLA RESERVOIR KERN RIVER BASIN, CALIFORNIA

## MIDNIGHT STORAGE

Units in acre-feet

SEPTEMBER

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	21182	22774	22655	21980	21200	21200	20768	20410	19882	19500	19082	18684	18384	18000	17712	17364	17028	16715	16419	16187	15884	15638	15384	15054	14726	14449	14163	13877	13591	13349	
1955	18643	18617	18590	18524	18090	17877	17625	17347	17044	16646	16287	15912	15533	15167	14812	14469	14138	13819	13512	13217	12934	12662	12401	12151	11912	11684	11467	11261	11065	10879	
1956	187562	186494	18550	184482	182419	182119	180835	179621	178448	177337	175886	174704	173454	172222	170881	169680	168612	167626	166800	166036	165332	164686	164107	163594	163136	162732	162382	162085	161841	161649	
1957	120343	119868	119300	118683	118066	117402	116785	116183	115523	114870	114230	113603	112998	112414	111851	111319	110817	110335	109872	109428	109004	108600	108216	107852	107508	107184	106880	106596	106332	106088	
1958	275463	273580	271637	269637	267644	265646	263643	261638	259628	257613	255593	253568	251538	249503	247463	245418	243368	241313	239253	237188	235118	233043	230963	228878	226788	224693	222593	220488	218378	216263	
1959	77616	77524	76912	76527	75959	75499	75058	74636	74234	73851	73487	73143	72809	72486	72174	71872	71580	71298	71026	70764	70512	70270	70038	69816	69604	69402	69210	69028	68856	68694	
1960	36331	35987	35789	35559	35300	34996	34688	34428	34207	34026	33884	33769	33678	33609	33560	33529	33506	33491	33484	33484	33490	33502	33519	33541	33568	33600	33638	33681	33729	33788	
1961	24059	23883	23677	23416	23062	22738	22557	22387	22267	22184	22123	22087	22064	22052	22051	22060	22070	22080	22090	22100	22110	22120	22130	22140	22150	22160	22170	22180	22190	22200	
1962	109466	109403	109382	109361	109340	109319	109298	109277	109256	109235	109214	109193	109172	109151	109130	109109	109088	109067	109046	109025	109004	108983	108962	108941	108920	108900	108879	108858	108837	108816	
1963	258620	257253	255985	253681	252366	251201	250305	249671	249266	249046	248944	248944	248944	248944	248944	248944	248944	248944	248944	248944	248944	248944	248944	248944	248944	248944	248944	248944	248944	248944	
1964	101435	101286	101244	101159	101074	100947	100778	100566	100306	100069	99858	99591	99255	98863	98332	97684	96942	96033	95000	93870	92562	91113	89566	87953	86210	84380	82498	80588	78674	76874	
1965	242154	240853	239552	238251	236950	235649	234348	233047	231746	230445	229144	227843	226542	225241	223940	222639	221338	220037	218736	217435	216134	214833	213532	212231	210930	209629	208328	207027	205726	204425	
1966	369436	364987	361255	357691	354292	351050	347980	345094	342384	339854	337484	335264	333194	331274	329504	327884	326414	325094	323924	322904	322034	321314	320744	320314	320024	319874	319854	319854	319854	319854	
1967	127502	127203	126904	126605	126306	126007	125708	125409	125110	124811	124512	124213	123914	123615	123316	123017	122718	122419	122120	121821	121522	121223	120924	120625	120326	120027	119728	119429	119130	118831	
1968	427910	424932	422072	419332	416718	414233	411878	409648	407544	405566	403714	401996	400412	398964	397652	396478	395442	394546	393790	393174	392688	392332	392096	391970	391954	391948	391942	391936	391930	391924	
1969	193528	192477	191496	190580	189733	188953	188233	187573	187068	186613	186213	185868	185568	185313	185103	184938	184818	184743	184703	184698	184723	184768	184833	184918	185023	185148	185293	185458	185643	185848	
1970	127502	127203	126904	126605	126306	126007	125708	125409	125110	124811	124512	124213	123914	123615	123316	123017	122718	122419	122120	121821	121522	121223	120924	120625	120326	120027	119728	119429	119130	118831	
1971	138862	138068	137261	136443	135615	134777	133929	133071	132203	131325	130437	129539	128631	127713	126785	125847	124900	123953	123006	122059	121112	120165	119218	118271	117324	116377	115430	114483	113536	112589	
1972	52526	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	52528	
1973	232913	231720	230527	229334	228141	226948	225755	224562	223369	222176	220983	219790	218597	217404	216211	215018	213825	212632	211439	210246	209053	207860	206667	205474	204281	203088	201895	200702	199509	198316	
1974	338869	338802	338735	338668	338601	338534	338467	338400	338333	338266	338199	338132	338065	338000	337933	337866	337800	337733	337666	337600	337533	337466	337400	337333	337266	337200	337133	337066	337000	336933	
1975	198675	195443	194280	193184	192265	191442	190722	190105	189592	189184	188781	188383	187990	187602	187219	186841	186468	186100	185737	185379	185026	184678	184335	183997	183664	183336	183013	182695	182382	182074	
1976	68677	67769	67148	66655	66283	65997	65783	65633	65541	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	65500	
1977	36988	36984	36980	36976	36972	36968	36964	36960	36956	36952	36948	36944	36940	36936	36932	36928	36924	36920	36916	36912	36908	36904	36900	36896	36892	36888	36884	36880	36876	36872	
1978	383979	382213	380543	379061	377751	376511	375331	374211	373151	372151	371211	370331	369511	368751	368051	367411	366831	366311	365851	365451	365111	364831	364611	364451	364351	364311	364311	364311	364311	364311	364311
1979	23607	23406	23202	23002	22802	22602	22402	22202	22002	21802	21602	21402	21202	21002	20802	20602	20402	20202	20002	19802	19602	19402	19202	19002	18802	18602	18402	18202	18002	17802	17602
1980	40306	40191	39847	39178	38908	38628	38348	38068	37788	37508	37228	36948	36668	36388	36108	35828	35548	35268	34988	34708	34428	34148	33868	33588	33308	33028	32748	32468	32188	31908	31628
1981	177334	176720	176292	175925	175611	175349	175131	174957	174827	174740	174697	174658	174623	174591	174562	174537	174514	174492	174471	174451	174431	174411	174391	174371	174351	174331	174311	174291	174271	174251	
1982	40396	40390	40384	40378	40372	40366	40360	40354	40348	40342	40336	40330	40324	40318	40312	40306	40300	40294	40288	40282	40276	40270	40264	40258	40252	40246	40240	40234	40228	40222	
1983	469690	464322	461174	458224	455480	452944	450616	448494	446576	444862	443352	442046	440944	440046	439352	438866	438486	438212	438044	437982	437926	437876	437832	437794	437762	437734	437710	437690	437674	437662	
1984	297625	296627	295650	294690	293744	292810	291888	290978	290080	289194	288320	287458	286608	285770	284944	284132	283334	282550	281780	281024	280282	279554	278840	278140	277454	276782	276124	275480	274850	274234	273632
1985	224740	223394	222182	221096	220126	219272	218534	217908	217394	216892	216402	215924	215458	215004	214562	214134	213720	213320	212934	212562	212204	211860	211530	211214	210912	210624	210350	210090	209844	209612	209394
1986	372777	370231	367906	365773	363841	362104	360572	359240	358108	357176	356444	355812	355280	354848	354416	354084	353752	353420	353088	352756	352424	352092	351760	351428	351096	350764	350432	350100	349768	349436	
1987	163383	162743	162104	161465	160826	160187	159548	158909	158270	157631	156992	156353	155714	155075	154436	153797	153158	152519	151880	151241	150602	149963	149324	148685	148046	147407	146768	146129	145490	144851	144212
1988	80296	80089	79982	79874	79766	79658	79550	79442	79334	79226	79118	79010	78902	78794	78686	78578	78470	78362	78254	78146	78038	77930	77822	77714	77606	77498	77390	77282	77174	77066	
1989	102582	102368	102154	101940	101726	101512	101298	101084	100870	100656	100442	100228	100014	997																	

# ISABELLA RESERVOIR KERN RIVER BASIN, CALIFORNIA

## MIDNIGHT STORAGE

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	12800	12674	12465	12243	12000	11777	11512	11317	11122	10943	10790	10710	10584	10478	10384	10294	10207	10124	10044	9966	9891	9818	9747	9678	9611	9546	9483	9421	9360	9300
1955	14614	14329	14134	14000	14137	14284	14454	14624	14784	14954	15124	15294	15464	15634	15804	15974	16144	16314	16484	16654	16824	16994	17164	17334	17504	17674	17844	18014	18184	18354	18524
1956	15291	15183	15075	14967	14859	14751	14643	14535	14427	14319	14211	14103	14000	13892	13784	13676	13568	13460	13352	13244	13136	13028	12920	12812	12704	12596	12488	12380	12272	12164	12056
1957	10684	10556	10428	10300	10172	10044	9916	9788	9660	9532	9404	9276	9148	9020	8892	8764	8636	8508	8380	8252	8124	7996	7868	7740	7612	7484	7356	7228	7100	6972	6844
1958	23713	23502	23291	23080	22869	22658	22447	22236	22025	21814	21603	21392	21181	20970	20759	20548	20337	20126	19915	19704	19493	19282	19071	18860	18649	18438	18227	18016	17805	17594	17383
1959	74245	74177	74109	74041	73973	73905	73837	73769	73701	73633	73565	73497	73429	73361	73293	73225	73157	73089	73021	72953	72885	72817	72749	72681	72613	72545	72477	72409	72341	72273	72205
1960	30543	30432	30321	30210	30099	29988	29877	29766	29655	29544	29433	29322	29211	29100	28989	28878	28767	28656	28545	28434	28323	28212	28101	27990	27879	27768	27657	27546	27435	27324	27213
1961	16394	16364	16334	16304	16274	16244	16214	16184	16154	16124	16094	16064	16034	16004	15974	15944	15914	15884	15854	15824	15794	15764	15734	15704	15674	15644	15614	15584	15554	15524	15494
1962	94856	94723	94590	94457	94324	94191	94058	93925	93792	93659	93526	93393	93260	93127	92994	92861	92728	92595	92462	92329	92196	92063	91930	91797	91664	91531	91398	91265	91132	90999	90866
1963	214556	214226	213896	213566	213236	212906	212576	212246	211916	211586	211256	210926	210596	210266	209936	209606	209276	208946	208616	208286	207956	207626	207296	206966	206636	206306	205976	205646	205316	204986	204656
1964	98384	98343	98302	98261	98220	98179	98138	98097	98056	98015	97974	97933	97892	97851	97810	97769	97728	97687	97646	97605	97564	97523	97482	97441	97400	97359	97318	97277	97236	97195	97154
1965	206776	207210	207644	208078	208512	208946	209380	209814	210248	210682	211116	211550	211984	212418	212852	213286	213720	214154	214588	215022	215456	215890	216324	216758	217192	217626	218060	218494	218928	219362	219796
1966	89746	89838	89930	89997	90064	90131	90198	90265	90332	90399	90466	90533	90600	90667	90734	90801	90868	90935	91002	91069	91136	91203	91270	91337	91404	91471	91538	91605	91672	91739	91806
1967	273662	270475	267155	263706	260257	256708	253159	249610	246061	242512	238963	235414	231865	228316	224767	221218	217669	214120	210571	207022	203473	199924	196375	192826	189277	185728	182179	178630	175081	171532	167983
1968	121992	121895	121798	121657	121516	121375	121234	121093	120952	120811	120670	120529	120388	120247	120106	119965	119824	119683	119542	119401	119260	119119	118978	118837	118696	118555	118414	118273	118132	117991	117850
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1972	50265	50259	50253	50247	50241	50235	50229	50223	50217	50211	50205	50199	50193	50187	50181	50175	50169	50163	50157	50151	50145	50139	50133	50127	50121	50115	50109	50103	50097	50091	50085
1973	222261	223076	223891	224706	225521	226336	227151	227966	228781	229596	230411	231226	232041	232856	233671	234486	235301	236116	236931	237746	238561	239376	240191	241006	241821	242636	243451	244266	245081	245896	246711
1974	277498	275327	273156	270985	268814	266643	264472	262301	260130	257959	255788	253617	251446	249275	247104	244933	242762	240591	238420	236249	234078	231907	229736	227565	225394	223223	221052	218881	216710	214539	212368
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1976	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447	70447
1977	364229	364142	364055	363968	363881	363794	363707	363620	363533	363446	363359	363272	363185	363098	363011	362924	362837	362750	362663	362576	362489	362402	362315	362228	362141	362054	361967	361880	361793	361706	361619
1978	279198	277109	275020	272931	270842	268753	266664	264575	262486	260397	258308	256219	254130	252041	250000	248000	246000	244000	242000	240000	238000	236000	234000	232000	230000	228000	226000	224000	222000	220000	218000
1979	171800	171408	171016	170624	170232	169840	169448	169056	168664	168272	167880	167488	167096	166704	166312	165920	165528	165136	164744	164352	163960	163568	163176	162784	162392	162000	161608	161216	160824	160432	160040
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1981	171800	171408	171016	170624	170232	169840	169448	169056	168664	168272	167880	167488	167096	166704	166312	165920	165528	165136	164744	164352	163960	163568	163176	162784	162392	162000	161608	161216	160824	160432	160040
1982	374716	373779	372842	371905	370968	370031	369094	368157	367220	366283	365346	364409	363472	362535	361598	360661	359724	358787	357850	356913	355976	355039	354102	353165	352228	351291	350354	349417	348480	347543	346606
1983	34752	35227	35702	36177	36652	37127	37602	38077	38552	39027	39502	39977	40452	40927	41402	41877	42352	42827	43302	43777	44252	44727	45202	45677	46152	46627	47102	47577	48052	48527	49002
1984	276746	275879	275012	274145	273278	272411	271544	270677	269810	268943	268076	267209	266342	265475	264608	263741	262874	262007	261140	260273	259406	258539	257672	256805	255938	255071	254204	253337	252470	251603	250736
1985	202942	202174	201406	200638	199870	199102	198334	197566	196798	196030	195262	194494	193726	192958	192190	191422	190654	189886	189118	188350	187582	186814	186046	185278	184510	183742	182974	182206	181438	180670	179902
1986	326445	324440	322435	320430	318425	316420	314415	312410	310405	308400	306395	304390	302385	300380	298375	296370	294365	292360	290355	288350	286345	284340	282335	280330	278325	276320	274315	272310	270305	268300	266295
1987	150076	150212	149715	149218	148721	148224	147727	147230	146733	146236	145739	145242	144745	144248	143751	143254	142757	142260	141763	141266	140769	140272	139775	139278	138781	138284	137787	137290	136793	136296	135799
1988	75041	74972	74903	74834	74765	74696	74627	74558	74489	74420	74351	74282	74213	74144	74075	74006	73937	73868	73799	73730	73661	73592	73523	73454	73385	73316	73247	73178	73109	73040	72971
1989	95																														

# ISABELLA RESERVOIR KERN RIVER BASIN, CALIFORNIA

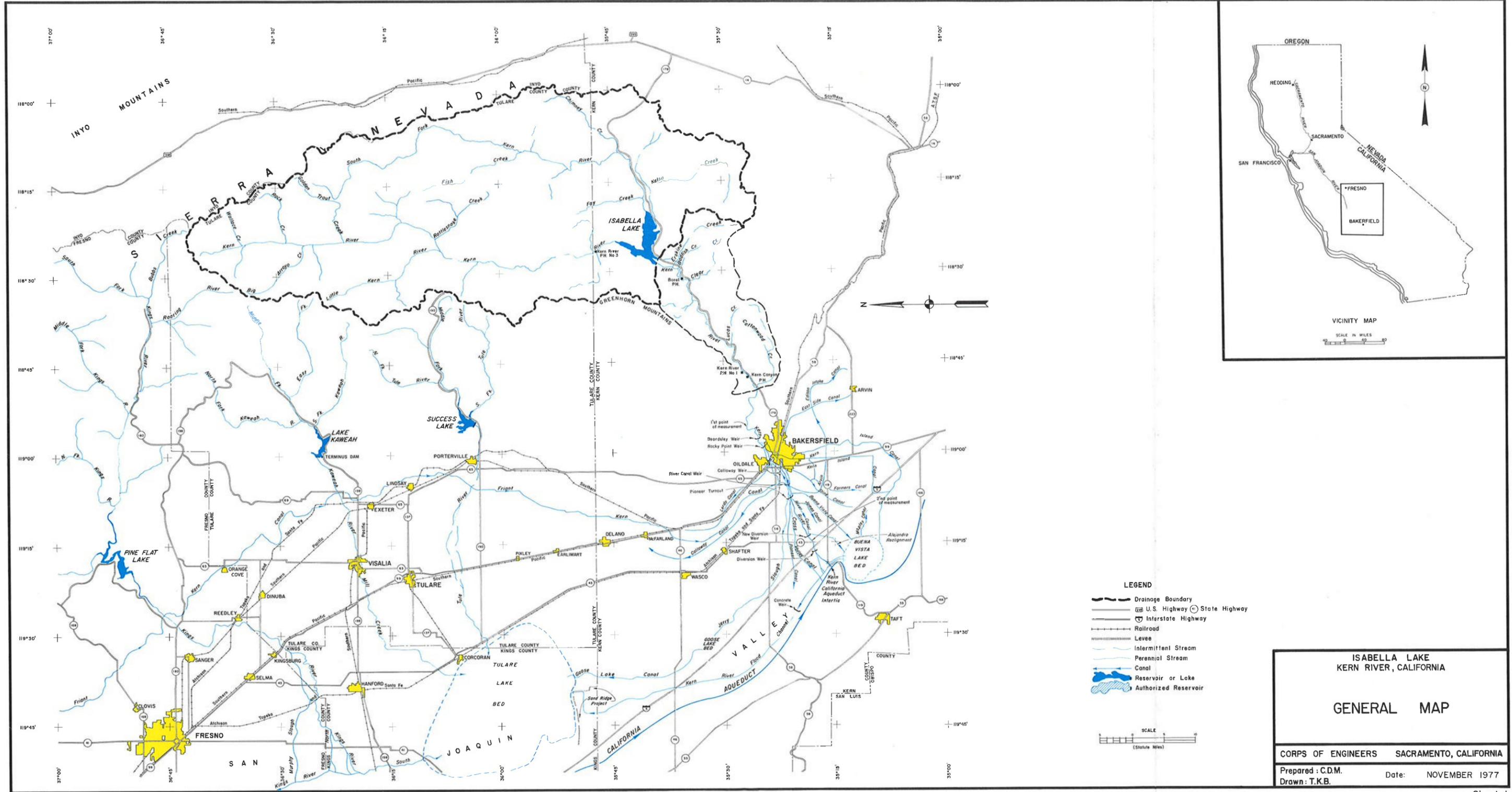
## MIDNIGHT STORAGE

**NOVEMBER**

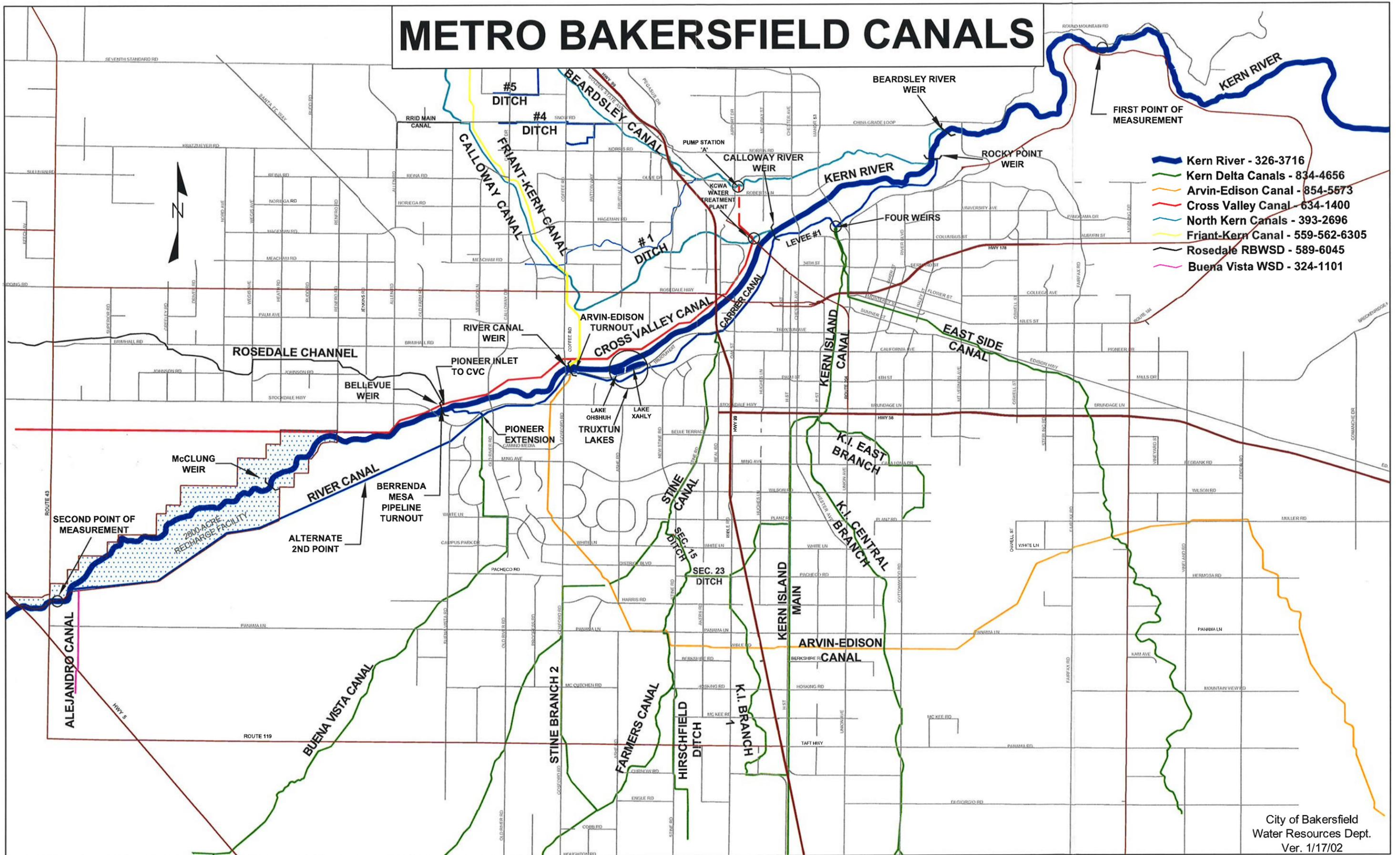
**Units in acre-feet**

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	10500	10500	10500	10500	10500	10582	10582	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	10584	
1955	13852	13831	13810	13799	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	13788	
1956	13272	13272	13272	13272	13272	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	13256	
1957	10213	10201	10204	10184	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	10182	
1958	205420	204756	204159	203496	202859	202269	201671	201041	200391	199724	199052	198375	197694	197009	196320	195627	194930	194229	193524	192815	192102	191385	190664	189939	189210	188477	187740	186999	186254	185505	184752	
1959	72576	72542	72508	72474	72440	72372	72304	72234	72164	72094	72024	71954	71884	71814	71744	71674	71604	71534	71464	71394	71324	71254	71184	71114	71044	70974	70904	70834	70764	70694	70624	
1960	29415	29387	29359	29331	29303	29275	29247	29219	29191	29163	29135	29107	29079	29051	29023	28995	28967	28939	28911	28883	28855	28827	28799	28771	28743	28715	28687	28659	28631	28603	28575	
1961	17688	17676	17663	17650	17637	17624	17610	17597	17584	17571	17558	17545	17532	17519	17506	17493	17480	17467	17454	17441	17428	17415	17402	17389	17376	17363	17350	17337	17324	17311	17298	
1962	84891	84654	84616	84503	84465	84427	84389	84351	84313	84275	84237	84199	84161	84123	84085	84047	84009	83971	83933	83895	83857	83819	83781	83743	83705	83667	83629	83591	83553	83515	83477	
1963	17673	17573	17518	17462	17406	17350	17294	17238	17182	17126	17070	17014	16958	16902	16846	16790	16734	16678	16622	16566	16510	16454	16398	16342	16286	16230	16174	16118	16062	16006	15950	15894
1964	95073	95073	94991	94911	94830	94749	94668	94587	94506	94425	94344	94263	94182	94101	94020	93939	93858	93777	93696	93615	93534	93453	93372	93291	93210	93129	93048	92967	92886	92805	92724	
1965	17349	17483	17378	17373	17368	17268	17240	17178	17148	17102	17070	17038	17006	16974	16942	16910	16878	16846	16814	16782	16750	16718	16686	16654	16622	16590	16558	16526	16494	16462	16430	16398
1966	83196	83046	82959	82874	82790	82706	82622	82538	82454	82370	82286	82202	82118	82034	81950	81866	81782	81698	81614	81530	81446	81362	81278	81194	81110	81026	80942	80858	80774	80690	80606	
1967	223443	222938	221558	220461	219358	218463	217639	216805	216000	215177	214316	213416	212487	211530	210545	209522	208461	207361	206222	205044	203827	202571	201276	199942	198569	197157	195706	194216	192687	191119	189512	
1968	119626	119778	119778	119778	119778	119683	119635	119535	119487	119387	119287	119187	119087	118987	118887	118787	118687	118587	118487	118387	118287	118187	118087	117987	117887	117787	117687	117587	117487	117387	117287	
1969	292712	291443	290019	278127	275028	274396	274393	270330	268542	266540	264318	261953	259372	256587	253602	250427	247062	243507	239762	235827	231702	227387	222872	218167	213172	207887	202312	196447	190292	183837	177092	
1970	157950	157955	157548	157261	157032	156860	156833	156631	156317	155894	155374	154757	154042	153229	152320	151315	150214	149017	147724	146335	144850	143269	141602	139849	138010	136085	134084	131997	129828	127477	124944	
1971	120689	120737	120737	120737	120689	120641	120593	120545	120497	120449	120401	120353	120305	120257	120209	120161	120113	120065	120017	119969	119921	119873	119825	119777	119729	119681	119633	119585	119537	119489	119441	
1972	50397	50370	50344	50328	50312	50296	50280	50264	50248	50232	50216	50200	50184	50168	50152	50136	50120	50104	50088	50072	50056	50040	50024	50008	49992	49976	49960	49944	49928	49912	49896	
1973	208754	208618	207749	207281	206480	205147	203349	201499	199599	197649	195649	193599	191499	189349	187149	184899	182599	180249	177849	175399	172849	170199	167549	164799	161949	158999	155949	152799	149549	146199	142849	139399
1974	243252	242596	242014	241577	241069	240706	240199	239509	238547	237330	235869	234246	232469	230549	228499	226329	224049	221669	219199	216649	214019	211319	208549	205719	202829	199879	196869	193799	190669	187489	184259	
1975	172084	172084	172084	172084	172084	171726	171319	170868	170374	169838	169260	168641	167981	167281	166541	165761	164941	164081	163181	162241	161261	160241	159181	158081	156941	155761	154541	153281	151981	150641	149211	
1976	69612	69612	69612	69612	69612	69446	69279	69113	68947	68781	68615	68449	68283	68117	67951	67785	67619	67453	67287	67121	66955	66789	66623	66457	66291	66125	65959	65793	65627	65461	65295	
1977	35520	35500	35500	35500	35500	35334	35168	34999	34827	34653	34478	34302	34126	33949	33771	33593	33415	33237	33059	32881	32703	32525	32347	32169	31991	31813	31635	31457	31279	31101	30923	
1978	292162	289423	287562	285452	283085	280452	277562	274423	271042	267423	263562	259472	255152	250602	245842	240872	235602	230032	224162	218002	211652	205122	198422	191552	184522	177342	170012	162642	155142	147612	140052	132462
1979	211700	211700	211563	211563	211495	211389	211248	211078	210881	210658	210411	210141	209849	209527	209175	208794	208384	207945	207477	206989	206472	205926	205351	204747	204114	203462	202791	202091	201362	200614	199847	
1980	268162	267480	266825	266190	265578	264989	264423	263879	263356	262854	262372	261910	261468	261036	260624	260232	259860	259508	259176	258864	258572	258300	258048	257816	257604	257412	257240	257088	256956	256834	256722	
1981	163102	162894	162695	162506	162327	162158	161999	161850	161701	161552	161403	161254	161105	160956	160807	160658	160509	160360	160211	160062	159913	159764	159615	159466	159317	159168	159019	158870	158721	158572	158423	
1982	306413	306413	306413	306413	306413	306143	305873	305603	305333	305063	304793	304523	304253	303983	303713	303443	303173	302903	302633	302363	302093	301823	301553	301283	301013	300743	300473	300203	299933	299663	299393	
1983	306270	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	324178	
1984	298161	297340	296555	295823	295145	294520	293946	293422	292948	292524	292150	291826	291552	291278	291004	290730	290456	290182	289908	289634	289360	289086	288812	288538	288264	287990	287716	287442	287168	286894	286620	
1985	191043	190978	190914	190850	190786	190722	190658	190594	190530	190466	190402	190338	190274	190210	190146	190082	190018	189954	189890	189826	189762	189698	189634	189570	189506	189442	189378	189314	189250	189186	189122	
1986	267689	266071	265194	264354	263494	262624	261744	260854	260004	259144	258274	257404	256534	255664	254794	253924	253054	252184	251314	250444	249574	248704	247834	246964	246094	245224	244354	243484	242614	241744	240874	
1987	143677	143731	143785	143839	143893	143852	143800	143748	143696	143644	143592	143540	143488	143436	143384	143332	143280	143228	143176	143124	143072	143020	142968	142916	142864	142812	142760	142708	142656	142604	142552	
1988	73342	73275	73174	73140	73074	73010	72946	72882	72818	72754	72690	72626	72562	72498	72434	72370	72306	72242	72178	72114	72050	71986	71922	71858								





# METRO BAKERSFIELD CANALS



# **DANGER SWIMMERS**

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

**For your own safety,  
we recommend you--**

**Do Not Swim in this river!**

**CHARLES H. DODGE, SHERIFF  
COUNTY OF KERN**