

KERN RIVER GROUP

2023 KERN RIVER - ISABELLA RESERVOIR PROJECTED OPERATIONAL ROUTING

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

Based upon May 16, 2023 State DWR Forecast of 1,800,000 AcFt April-July inflow to Lake Isabella (422% of normal)

		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	TOTAL
INFLOW TO ISABELLA		88.6	39.0	338.7	311.9	600.0	604.0	285.0	111.0	50.0	35.0	32.0	31.0	2526.2
LAKE EVAPORATION LOSS		0.6	1.0	1.7	3.5	5.4	9.5	10.5	7.5	7.0	3.5	2.0	1.0	53.2
ISABELLA DAM OUTFLOW		22.3	20.7	127.4	321.0	430.7	452.0	363.4	290.0	162.5	104.0	32.0	31.0	2357.0
DAM RELEASE (mean cfs)		363	373	2072	5395	7005	7596	5910	4716	2731	1691	538	504	
ISABELLA RESERVOIR STORAGE (End of Month)	51.0	116.7	134.0	343.6	331.0	494.9	637.4	548.5	362.0	242.5	170.0	168.0	167.0	

NOTES:
DWR 30 year average 1991-2021; 427,000 AcFt
A-J = 1,800,972 (includes actuals for April)

NOVEMBER 1ST UNIT STORAGE PROJECTIONS

Isabella Reservoir Total Storage	=	170.0
Kern County Recreation Pool	=	30.0
Total Irrigation Storage	=	140.0
Buena Vista WSD	=	45.0
Hacienda WD	=	28.0
First Point Group	=	67.0
North Kern WSD	=	33.5
City of Bakersfield	=	33.5

PEAK SNOWMELT INFLOW ESTIMATE

May 24 @ 15,569 CFS

PEAK STORAGE ESTIMATE

June 28 @ 644,767 Acft

Kern River Watermaster 5-18-2023

ISABELLA DAM & RESERVOIR Snowmelt Operations Forecast 2023

Based upon May 16, 2023 State DWR Forecast of 1,800,000 AcFt April-July inflow to Lake Isabella (422% of normal)

Date	MARCH				APRIL				MAY				JUNE				JULY				AUGUST				Date
	Inflow	Outflow	Loss	Storage	Inflow	Outflow	Loss	Storage	Inflow	Outflow	Loss	Storage	Inflow	Outflow	Loss	Storage	Inflow	Outflow	Loss	Storage	Inflow	Outflow	Loss	Storage	
1	889	414	9	135004	2483	4514	43	339507	10970	6489	58	339865	12242	7750	133	503635	6966	7650	145	635810	2538	5100	161	543153	1
2	824	413	16	135787	2679	4603	48	335596	9391	6577	59	345329	12544	7650	133	513078	6614	7450	155	633844	2426	5106	151	537538	2
3	952	413	21	136814	2769	4604	35	331887	8154	6593	62	348302	12894	7350	126	523824	6322	7000	165	632172	2394	5122	155	531820	3
4	931	414	18	137804	2635	4631	42	327845	7155	6462	54	349569	12011	7475	122	532579	6141	6800	165	630538	2341	5164	133	525957	4
5	881	339	15	138849	2667	4734	44	323658	6131	6267	47	349206	11718	7650	141	540368	6018	6700	165	628858	2225	5184	125	519840	5
6	823	301	18	139849	1961	5002	56	317515	5669	5850	47	348754	11955	7650	145	548619	6029	6500	165	627597	2193	5252	128	513519	6
7	856	330	19	140855	2454	5125	51	312116	5473	5904	70	347760	11849	7650	161	556628	5684	6500	165	625651	2087	5359	127	506777	7
8	843	397	18	141704	3071	5251	48	307697	5749	6406	70	346318	11247	7650	141	563483	5239	6500	165	622823	1997	5310	125	499958	8
9	892	439	23	142557	4093	5227	59	305331	5814	6429	65	344969	11916	7550	148	571849	5139	6500	165	619796	1960	5283	139	493091	9
10	21550	434	7	184426	3917	5204	71	302637	5908	6568	65	343531	11853	7250	151	580679	5010	6500	165	616513	1976	5121	121	486613	10
11	21560	495	21	226166	4579	5203	52	301296	6009	6656	75	342099	11997	7375	161	589527	4971	6500	170	613143	1859	5173	130	479782	11
12	11479	526	32	247827	5206	5333	42	300961	6581	6676	85	341742	11828	7650	151	597514	4883	6500	170	609599	1859	5190	115	472947	12
13	8069	757	37	262257	5411	5369	42	300961	7290	6289	98	343533	12003	7650	163	605825	4774	6320	175	606185	1865	5086	116	466328	13
14	9282	1038	9	278591	5216	5417	52	300459	8209	6388	98	346951	11514	7650	151	613190	4671	6321	175	602565	1764	4992	128	459671	14
15	18354	1081	26	312800	5147	5380	62	299874	8686	6996	96	350113	10932	7650	178	619347	4624	5845	175	599796	1775	4955	131	453104	15
16	9814	1350	37	329515	5345	5330	56	299793	8991	7162	89	353564	10518	7550	165	624907	4484	5400	175	597632	1753	4902	144	446572	16
17	7579	2317	42	339869	5474	5422	52	299793	9493	7238	92	357854	10333	7250	164	630697	4353	5400	175	595208	1706	4920	125	439949	17
18	6860	2962	53	347495	5597	5557	40	299793	9654	7260	96	362412	10471	7375	213	636415	4235	5400	175	592550	1690	4924	115	433306	18
19	4048	2980	20	349574	5330	5697	54	298958	10888	7265	100	369400	9842	7750	168	640231	4232	5400	175	589886	1632	4919	117	426554	19
20	7108	3217	38	357216	5088	5789	54	297460	11689	7365	101	377776	8722	7750	165	641832	4209	5400	180	587167	1610	4981	121	419628	20
21	3704	3732	18	357125	5329	5892	66	296212	12587	7425	98	387820	8379	7750	161	642760	4231	5400	180	584491	1595	4800	123	413027	21
22	4718	3633	23	359231	6021	5871	66	296379	13554	7700	97	399239	8343	7750	151	643637	4173	5300	180	581899	1536	4530	120	406850	22
23	4163	3622	31	360243	6724	5906	64	297875	14364	7725	98	412213	7975	7650	165	643954	3891	5128	180	579088	1563	4444	120	400898	23
24	3404	3739	36	359507	7308	6147	68	300043	15569	7725	99	427575	7888	7350	163	644698	3702	5100	175	575968	1504	4260	118	395198	24
25	3355	3876	34	358406	7846	6162	78	303228	14135	7750	98	440045	7680	7475	170	644767	3698	5100	175	572840	1536	4080	119	389916	25
26	3171	3966	36	356758	8094	6246	64	306767	13666	7650	100	451779	7485	7750	189	643867	3624	5100	175	569565	1441	3938	106	384753	26
27	3239	4111	49	354931	8129	3797	82	315197	13254	7425	115	463113	7315	7750	182	642643	3447	5100	175	565939	1442	3822	100	379834	27
28	2729	4141	56	352019	9524	6179	85	321663	12398	7655	120	472283	7218	7750	175	641241	3284	5100	175	561990	1414	3728	98	375050	28
29	4178	4237	33	351837	9161	6128	91	327498	11905	7750	121	480284	7004	7750	175	639414	3300	5100	170	558083	1420	3627	97	370480	29
30	1978	4272	33	347221	8028	6134	82	331092	11316	7750	125	487109	6841	7650	179	637454	2955	5100	170	553491	1436	3537	85	366144	30
31	2538	4310	43	343621					11848	7750	125	494989					2785	5100	174	548554	1426	3399	88	362055	31
CFS	170771	64256	871		157286	161854	1749		302500	217145	2723		304517	227900	4790		143688	183214	5294		55963	146208	3781		CFS
AcFt	338719	127450	1728		311972	321033	3469		600000	430700	5400		604000	452032	9500		285000	363400	10500		111000	290000	7500		AcFt

Kern River Inflow to Lake Isabella

Based upon May 16, 2023 State DWR Forecast of 1,800,000 AcFt April-July inflow to Lake Isabella (422% of normal)

YEAR: 2023

DISCHARGE IN C.F.S

Preliminary data, subject to change.

5/18/2023

DATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1,595	663	889	2,483	10,970	12,242	6,966	2,538	1,321	711	500	526
2	1,008	647	824	2,679	9,391	12,544	6,614	2,426	1,074	684	516	500
3	779	625	952	2,769	8,154	12,894	6,322	2,394	984	652	512	483
4	663	643	931	2,635	7,155	12,011	6,141	2,341	929	600	512	474
5	766	774	881	2,667	6,131	11,718	6,018	2,225	888	584	526	488
6	956	790	823	1,961	5,669	11,955	6,029	2,193	876	529	510	501
7	655	702	856	2,454	5,473	11,849	5,684	2,087	864	554	510	495
8	670	679	843	3,071	5,749	11,247	5,239	1,997	851	556	518	488
9	3,783	708	892	4,093	5,814	11,916	5,139	1,960	836	554	528	480
10	7,871	668	21,550	3,917	5,908	11,853	5,010	1,976	856	551	535	477
11	3,117	730	21,560	4,579	6,009	11,997	4,971	1,859	871	549	535	482
12	1,927	757	11,479	5,206	6,581	11,828	4,883	1,859	864	546	528	479
13	1,560	643	8,069	5,411	7,290	12,003	4,774	1,865	855	564	528	508
14	1,945	711	9,282	5,216	8,209	11,514	4,671	1,764	798	556	551	500
15	2,278	683	18,354	5,147	8,686	10,932	4,624	1,775	788	554	539	509
16	1,734	634	9,814	5,345	8,991	10,518	4,484	1,753	802	564	537	516
17	1,674	666	7,579	5,474	9,493	10,333	4,353	1,706	804	564	541	517
18	1,102	586	6,860	5,597	9,654	10,471	4,235	1,690	814	571	543	498
19	1,187	635	4,048	5,330	10,888	9,842	4,232	1,632	767	575	559	488
20	1,007	612	7,108	5,088	11,689	8,722	4,209	1,610	756	577	549	492
21	890	487	3,704	5,329	12,587	8,379	4,231	1,595	739	574	543	491
22	881	866	4,718	6,021	13,554	8,343	4,173	1,536	744	566	537	487
23	819	729	4,163	6,724	14,364	7,975	3,891	1,563	749	579	563	502
24	776	854	3,404	7,308	15,569	7,888	3,702	1,504	776	574	559	515
25	752	780	3,355	7,846	14,135	7,680	3,698	1,536	795	576	565	522
26	733	710	3,171	8,094	13,666	7,485	3,624	1,441	764	579	565	514
27	664	862	3,239	8,129	13,254	7,315	3,447	1,442	794	569	551	529
28	778	858	2,729	9,524	12,398	7,218	3,284	1,414	764	533	545	532
29	731	-	4,178	9,161	11,905	7,004	3,300	1,420	750	522	565	532
30	711	-	1,978	8,028	11,316	6,841	2,955	1,436	735	489	563	548
31	666	-	2,538	-	11,848	-	2,785	1,426	-	490	-	556
TOTAL	44,678	19,702	170,771	157,286	302,500	304,517	143,688	55,963	25,208	17,646	16,133	15,629
MAXIMUM DAY	7,871	866	21,560	9,524	15,569	12,894	6,966	2,538	1,321	711	565	556
MINIMUM DAY	655	487	823	1,961	5,473	6,841	2,785	1,414	735	489	500	474
MEAN	1,441	704	5,509	5,243	9,758	10,151	4,635	1,805	840	569	538	504
TOTAL AC. FT.	88,618	39,079	338,719	311,972	600,000	604,000	285,002	111,000	50,000	35,000	32,000	31,000
WHOLE YEAR:-	TOTAL,	1,273,721	MAX.,	21,560	MIN.,	474	MEAN,	3,490	TOTAL AC.FT.,	2,526,390		