

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 2002
STATE OF ARIZONA

05/12/2003

(ACRE-FEET)

AZ		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
AZ	LAKE MEAD NAT'L RECREATION, AZ.													
AZ	DIVERSIONS FROM LAKE MEAD	5	5	7	11	11	14	15	18	14	10	6	4	121
AZ	(TEMPLE BAR)													
AZ	CONSUMPTIVE USE													
AZ	LAKE MEAD NAT'L RECREATION, AZ.													
AZ	DIVERSIONS FROM LAKE MOHAVE	17	15	47	22	36	29	36	41	24	21	20	15	322
AZ	(KATHERINE, WILLOW BEACH)													
AZ	CONSUMPTIVE USE													
AZ	LOWER COLORADO RIVER DAMS PROJECT													
AZ	DIVERSION AT DAVIS DAM	1.2	1.0	1.1	1.2	1.4	1.6	2.5	2.4	2.3	2.5	2.5	2.1	21.8
AZ	RETURNS	1.2	1.0	1.1	1.2	1.4	1.6	2.5	2.4	2.3	2.5	2.5	2.1	21.8
AZ	CONSUMPTIVE USE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AZ	BULLHEAD CITY													
AZ	PUMPED FROM WELLS	546	512	556	692	764	752	981	924	803	746	611	585	8472
AZ	DIV. AT DAVIS DAM, MOHAVE CO. PARKS	4	5	7	8	12	12	13	14	13	6	5	4	103
AZ	RETURNS													
AZ	CONSUMPTIVE USE	550	517	563	700	776	764	994	938	816	752	616	589	8575
AZ	MOHAVE WATER CONSERVATION DIST.													
AZ	PUMPED FROM WELLS	50	42	45	59	64	64	68	74	67	68	44	55	701
AZ	RETURNS													
AZ	CONSUMPTIVE USE													
AZ	BROOKE WATER LLC.													
AZ	PUMPED FROM RIVER	26	24	29	32	39	41	46	45	38	31	28	25	404
AZ	RETURNS													
AZ	CONSUMPTIVE USE													
AZ	MOHAVE VALLEY I.D.D.													
AZ	PUMPED FROM WELLS	1651	1715	2822	3225	3710	4634	4413	4175	4213	2369	1732	1111	35770
AZ	RETURNS													
AZ	CONSUMPTIVE USE													
AZ	FORT MOJAVE INDIAN RESERVATION													
AZ	14 PUMPS AND WELLS IN FLOOD PLAIN	2088	3620	4010	5343	6092	8976	8132	8728	6932	3768	3062	1231	61982
AZ	RETURNS													
AZ	CONSUMPTIVE USE	2088	3620	4010	5343	6092	8976	8132	8728	6932	3768	3062	1231	61982
AZ	GOLDEN SHORES WATER CONSERVATION DIST													
AZ	PUMPED FROM WELLS	29	23	39	42	52	63	68	66	52	43	31	30	538
AZ	RETURNS													
AZ	CONSUMPTIVE USE													
AZ	HAVASU NATIONAL WILDLIFE REFUGE													
AZ	INLET-NW NE NW SEC 33 T9N RSSW G&SRM	1450	4740	5456	3715	4486	6753	6895	5545	3730	1456	720	334	45280
AZ	WELL 8N/23E-15Aa (AEW-36)	15	12	20	22	27	32	35	34	27	22	16	16	278
AZ	RETURNS	0	0	2310	4960	4130	1450	382	0	0	0	0	0	13232
AZ	(TOPOCK MARSH)													
AZ	CONSUMPTIVE USE	1465	4752	3166	-1223	383	5335	6548	5579	3757	1478	736	350	32326

AZ LAKE HAVASU I.D.D. (CITY)															
AZ DISTRICT PUMPED FROM WELLS	DIVERSION	954	943	1143	1270	1480	1702	1678	1475	1715	1393	1089	979	15821	
AZ	RETURNS														
AZ	CONSUMPTIVE USE														
AZ CENTRAL ARIZONA PROJECT															
AZ PUMPED FROM LAKE HAVASU	DIVERSION	156600	172626	196427	186294	186221	160853	87924	88278	70132	40086	107726	128428	1581595	
AZ	RETURNS														
AZ	CONSUMPTIVE USE														
AZ TOWN OF PARKER															
AZ 1 WELL-NW NW NW SEC 7 T9N R19W G&SRM	DIVERSION 10/	56	54	67	76	90	108	115	106	81	70	58	48	929	
AZ	RETURNS	28	24	26	25	25	24	26	26	25	26	25	25	305	
AZ	CONSUMPTIVE USE	29	30	41	51	65	84	88	80	56	44	33	22	624	
AZ COLORADO RIVER INDIAN RESERVATION															
AZ DIVERSION AT HEADGATE ROCK DAM	DIVERSION	26200	37380	48490	61740	71790	72120	78960	72090	46990	40860	26060	21320	604000	
AZ 3 PUMPS & TOWN OF PARKER	DIVERSION 4/	557	446	760	821	1004	1218	1328	1278	1005	842	597	588	10444	
AZ	RETURNS	14336	15626	18337	18642	21542	23814	24229	23814	21390	18939	14250	14665	229584	
AZ	CONSUMPTIVE USE	12421	22200	30913	43919	51252	49524	56059	49554	26605	22763	12407	7243	384860	
AZ EHRENBURG IMPROVEMENT ASSN.															
AZ 1 PUMP SW SEC 3 T3N R22W G&SRM	DIVERSION	26	30	30	36	43	46	49	56	43	40	42	38	479	
AZ	RETURNS														
AZ	CONSUMPTIVE USE														
AZ CIBOLA VALLEY IRRIGATION DISTRICT															
AZ 3 PUMPS SEC'S 20, 21 & 26T1N R23W	DIVERSION	253	2780	1445	2192	3403	3686	4120	3850	2873	769	512	1185	27069	
AZ	RETURNS														
AZ	CONSUMPTIVE USE														
AZ CIBOLA NATIONAL WILDLIFE REFUGE															
AZ 3 PUMPS IN SEC. 2 & 31 T1S, R23W	DIVERSION	635	792	861	1317	1298	1336	1458	1010	808	1678	1115	1032	13339	
AZ	RETURNS														
AZ	CONSUMPTIVE USE														
AZ IMPERIAL NATIONAL WILDLIFE REFUGE															
AZ 2 WELLS SEC 13 T5S R22W G&SRM	DIVERSION	160	128	218	236	288	350	382	367	289	242	172	169	3000	
AZ	RETURNS														
AZ	CONSUMPTIVE USE														
AZ YUMA PROVING GROUND															
AZ DIVERSION AT IMPERIAL DAM	DIVERSION	0	0	0	0	0	6	0	5	0	3	1	0	15	
AZ WELLS W, X, Y, Z	DIVERSION	18	17	21	83	92	88	83	93	80	24	25	28	651	
AZ	RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	
AZ	CONSUMPTIVE USE	18	17	21	83	92	94	83	98	80	27	26	28	666	
AZ GILA MONSTER RANCH															
AZ DIVERSION AT IMPERIAL DAM	DIVERSION *	661	680	949	1190	1181	1716	1515	862	805	869	860	791	12080	
AZ * (use on ASLD leased land has been reported in AZ Supplement)	RETURNS	50	71	-46	44	12	32	104	94	-10	33	115	147	647	
AZ	CONSUMPTIVE USE	611	609	995	1145	1170	1684	1411	769	815	835	745	644	11433	
AZ WELLTON MOHAWK I. & D. D.															
AZ DIVERSION AT IMPERIAL DAM	DIVERSION	23236	27370	38919	43618	47661	44676	47945	41661	39000	33653	29032	22813	439585	
AZ	GGMC RETURN	1696	2842	-1860	1622	462	835	3166	3960	-433	1226	3807	4119	21443	
AZ	DOMESTIC RETURN	1668	1692	3211	1144	799	485	298	298	328	1048	813	1232	13018	
AZ	MOD RETURN 9/	9930	9720	5100	9620	10440	10450	11500	11070	10340	10590	10490	10120	119370	
AZ	RETURNS, TOTAL	13294	14254	6451	12387	11702	11770	14964	15329	10236	12864	15110	15471	153830	
AZ	CONSUMPTIVE USE	9942	13116	32468	31231	35959	32906	32981	26332	28764	20789	13922	7342	285755	
AZ CITY OF YUMA															
AZ DIVERSION AT IMPERIAL DAM (AAC)	DIVERSION	1965	1791	2069	2212	2580	2802	2742	2888	2549	2436	2019	2083	28136	
AZ DIVERSION AT IMPERIAL DAM (GILA)	DIVERSION	32	17	48	50	50	52	62	49	49	50	41	39	539	

AZ		RETURNS	924	753	681	968	942	861	927	934	733	1073	820	1025	10639
AZ		CONSUMPTIVE USE	1073	1055	1437	1294	1688	1993	1877	2003	1865	1413	1241	1097	18036
AZ	MARINE CORPS AIR STATION (YUMA)														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	68	73	117	155	227	304	334	327	251	261	131	59	2307
AZ		RETURNS													
AZ		CONSUMPTIVE USE													
AZ	SOUTHERN PACIFIC COMPANY														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	4	4	4	4	4	4	4	4	4	4	4	4	48
AZ		RETURNS													
AZ		CONSUMPTIVE USE													
AZ	YUMA MESA FRUIT GROWERS ASSN.														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	1	1	1	1	1	1	1	1	1	1	1	1	12
AZ		RETURNS													
AZ		CONSUMPTIVE USE													
AZ	UNIVERSITY OF ARIZONA														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	90	46	46	106	11	96	96	83	77	45	32	27	755
AZ	(WARREN ACT)	RETURNS													
AZ		CONSUMPTIVE USE													
AZ	YUMA UNION HIGH SCHOOL														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	5	9	13	19	20	12	15	5	15	15	9	9	146
AZ		RETURNS													
AZ		CONSUMPTIVE USE													
AZ	CAMILLE, ALEC. JR.														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	1	0	0	16	25	20	20	9	10	0	0	0	101
AZ	(WARREN ACT)	RETURNS													
AZ		CONSUMPTIVE USE													
AZ	DESERT LAWN MEMORIAL														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	18	16	24	29	62	65	65	20	15	9	12	1	336
AZ		RETURNS													
AZ		CONSUMPTIVE USE													
AZ	NORTH GILA VALLEY IRRIGATION DISTRICT														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	2489	3173	4192	5373	5705	5365	4764	2590	3333	4987	3972	2498	48441
AZ		RETURNS	1692	1995	2076	2772	3054	3098	2979	1939	2052	3087	2941	2339	30024
AZ		CONSUMPTIVE USE	797	1178	2116	2601	2651	2267	1785	651	1281	1900	1031	159	18417
AZ	YUMA IRRIGATION DISTRICT														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	3476	3589	5261	7939	8135	5708	5719	4260	5532	7181	5513	4256	66569
AZ	PUMPED FROM PRIVATE WELLS	DIVERSION	72	89	241	234	375	133	96	100	153	153	143	55	1844
AZ		RETURNS	938	1111	565	1643	1381	1082	1479	1313	909	1560	1957	1844	15782
AZ		CONSUMPTIVE USE	2610	2567	4937	6530	7129	4759	4336	3047	4776	5774	3699	2467	52631
AZ	YUMA MESA I. D. D.														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	13867	11740	12990	19984	23756	25450	30227	28447	18304	17568	11983	11216	225532
AZ		RETURNS	5929	5814	2445	5454	5122	5492	7751	7348	3699	4795	5664	6851	66364
AZ		CONSUMPTIVE USE	7938	5926	10545	14530	18634	19958	22476	21099	14605	12773	6319	4365	159168
AZ	UNIT "B" I. D. D.														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	1642	1395	1691	2786	3382	3044	254	2894	2423	2306	1273	1783	24873
AZ		RETURNS	968	933	472	925	893	932	918	1028	665	807	855	1163	10559
AZ		CONSUMPTIVE USE	674	462	1219	1861	2489	2112	-664	1866	1758	1499	418	620	14314
AZ	YUMA COUNTY WATER USERS ASSOCIATION														
AZ	DIVERSION AT IMPERIAL DAM	DIVERSION	22360	24833	35928	42480	42408	25762	27914	23315	29140	44483	32143	20480	371246
AZ	PUMPED FROM WELLS	DIVERSION	110	97	83	124	95	126	89	210	252	98	83	58	1425
AZ		RETURNS	11201	10109	10080	10498	11281	10088	9181	6688	13101	16608	9719	12890	131444
AZ		CONSUMPTIVE USE	11269	14821	25931	32106	31222	15800	18822	16837	16291	27973	22507	7648	241227

AZ COCOPAH INDIAN RESERVATION															
AZ DIVERSION AT IMPERIAL DAM	DIVERSION	286	395	235	266	78	530	395	219	224	132	118	715	3593	
AZ PUMPED FROM WELLS, NORTH COCOPAH	DIVERSION	93	90	108	244	340	321	75	131	187	253	317	140	2296	
AZ PUMPED FROM WELLS, WEST COCOPAH	DIVERSION	543	435	742	801	979	1188	1296	1247	980	821	583	574	10191	
AZ	RETURNS	5	2	1	2	2	7	3	4	6	5	3	34	74	
AZ	CONSUMPTIVE USE	917	918	1084	1309	1395	2033	1763	1593	1385	1201	1015	1394	16006	
AZ YUMA AREA OFFICE, USBR															
AZ DIVERSION FROM WELL NO.8	DIVERSION	96	81	114	119	137	42	44	44	42	44	42	44	850	
AZ	RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	
AZ	CONSUMPTIVE USE	96	81	114	119	137	42	44	44	42	44	42	44	850	
AZ															
AZ PUMPED FROM SOUTH GILA WELLS (DPOC'S)	RETURNS	5/	5783	5840	3638	6449	5935	5664	5184	4763	4370	4002	3681	5045	60354
AZ															
AZ OTHERS PUMPING FROM COLORADO															
AZ RIVER AND WELLS IN FLOOD PLAIN,	DIVERSION	6/	2484	2147	2926	3372	4078	4318	4317	4370	3582	3549	2459	2248	39850
AZ DAVIS DAM TO INTERNATIONAL BOUNDARY	RETURNS														
AZ	CONSUMPTIVE USE														
AZ															
AZ ARIZONA TOTALS															
AZ	DIVERSION		264940	303982	369204	398357	422292	384622	324792	302010	246858	213468	234445	227119	3692089
AZ	RETURNS		55149	56533	47037	64770	66022	64316	68129	63282	57178	63801	55142	61501	722859
AZ	CONSUMPTIVE USE		209791	247449	322167	333587	356269	320306	256663	238728	189680	149667	179303	165618	2969230
AZ															
AZ ARIZONA WATER BANKING AUTHORITY															
AZ Water Diverted to storage for Nevada	DIVERSION		0	0	0	0	0	0	0	0	0	0	0	66000	66000
AZ Water Diverted to storage for California	DIVERSION		0	0	0	0	0	0	0	0	0	0	0	0	0
AZ															

AZ NOTE: The term 'CONSUMPTIVE USE' as used in this tabulation means diversions from the mainstream, including water drawn from the mainstream by under less measured and, for AAC and GGMC users, estimated unmeasured return flow to the river.

- AZ 1/ No surface returns unless shown.
- AZ 2/ Reported annual total only, distributed monthly according to the monthly use patterns of nearby users.
- AZ 3/ Consumptive use provided by the user. Calculated by adding M&I use to the product of the acreage of each crop type times the crop specific ET.
- AZ 4/ Sum of diversions by 2 river pumps, water delivered by Town of Parker and an estimate of municipal diversion. Diversion estimated by multiplying effluent by nearby users diversion:effluent ratio. CRIT portion of WW returns from Joint Venture Treatment plant are combined with agricultural drainage.
- AZ 5/ Pumped from underground and credited as return flow to Yuma Mesa Division but unassigned to districts as returns.
- AZ Includes quantities of drainage from Yuma Mesa, Unit B, as well as from South Gila Valley.
- AZ 6/ Details on Arizona Supplemental Sheets.
- AZ 7/ Summation for the Yuma Mesa Division of the Gila Project; consisting of the North Gila Valley Irrigation District, the Yuma Irrigation District, and the Yuma Mesa Irrigation & Drainage District is as follows:

Item	Annual Totals (Acre-Feet)
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AZ Diversion at Imperial Dam A/	340542
AZ Pumped from wells	1844
AZ Surface returns from South Gila Valley (S.Gila Canal Wasteway)	2190 *
AZ Return flow North Gila Valley (6 drains & wasteways)	10224 *
AZ Return flow South Gila Valley wells (DPOC's)	60353.
AZ Return flow Yuma Mesa Outlet Drain B/	49045 *
AZ Return flow protective and regulatory pumping unit C/	1722 *
AZ Estimated unmeasured groundwater return flow D/	27727
AZ Return flow share of Gila Main Canal loss E/	21260 *

AZ Subtotal return flow F/ 172522 172523 check from above
AZ Consumptive Use (see note above) 169864 169862 check from above
AZ
AZ (A) Total for the North Gila Valley, Yuma and Yuma Mesa irrigation districts.
AZ (B) Estimated at 85 percent of the Yuma Mesa Outlet Drain with balance credited to 'Unit B'.
AZ (C) Estimated at 85 percent of Protective and Regulatory Pumping Unit with balance credited to 'Unit B'.
AZ (D) Estimated at 38 percent of the North Gila Valley Diversion at Imperial Dam plus 14 percent of Yuma Irrigation District diversion at
AZ Imperial Dam. (Based on analysis of the USGS Report 83-4220 entitled 'A Method for Estimating Ground-Water Return Flow to the
AZ Lower Colorado River in the Yuma Area')
AZ (E) Diversion & mileage weighted share of Gila Gravity Main Canal loss, less canal surface evaporation (1397 af/yr) and phreatophyte use (2154
AZ (F) Additional unmeasured return flows from the Yuma Mesa Irrigation and Drainage District, 'Unit B', the Cocopah Indian
AZ Reservation, and the Yuma County Water Users Association (YCWUA) are utilized to meet consumptive uses in the United States and in
AZ partial satisfaction of the Mexican Treaty obligation. Some of these underground flows are recovered by pumping from wells on the
AZ Cocopah Indian Reservation and in the YCWUA area, and by some of the surface drains in the YCWUA area. Efforts will be made to at least
AZ quantify these return flows within broad limits by respective water user entities in future years.
AZ 8/ Diversion adjusted for delivery to Mohave Valley I. D. D. (Chesney).
AZ 9/ Main Outlet Drain return flow credit is measured flow at Station 0+00. During periods of sustained flow in the Gila River this measurement incl
AZ At such times Reclamation will determine how best to differentiate return flows from the two sources.
AZ 10/ Water delivered to CRIT by the Town of Parker has been deducted from this figure.
AZ 11/ Water diverted and banked in Arizona for an entity within Nevada with a current SIRA. This diversion is reported in the Central Arizona Project
AZ 12/ Place holder for water diverted and banked in Arizona for an entity within California with a current SIRA, if in the future a SIRA is developed.
AZ
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DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 2002
STATE OF CALIFORNIA

05/12/2003

(ACRE-FEET)

CA WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
CA FORT MOJAVE INDIAN RESERVATION	DIVERSION	4	5	5	6	6	6	7	5	5	5	2	2	58
CA DELIVERED BY CITY OF NEEDLES	DIVERSION	9/ 405	899	1053	1471	1537	2085	2084	2445	2053	1285	848	271	16436
CA PUMPED FROM RIVER AND WELLS	RETURNS													
CA	CONSUMPTIVE USE	409	904	1058	1477	1543	2091	2091	2450	2058	1290	850	273	16494
CA CITY OF NEEDLES														
CA 4 WELLS NW SW SEC 29 T9N R23E SBM	DIVERSION	136	109	186	201	246	298	326	313	246	206	146	144	2559
CA	RETURNS	60	48	83	89	109	132	144	139	109	91	65	64	1134
CA	CONSUMPTIVE USE	76	61	104	112	137	166	181	174	137	115	82	80	1425
CA CHEMEHUEVI INDIAN RESERVATION														
CA PUMPED FROM RIVER AND WELLS	DIVERSION	7	14	14	10	14	17	5	2	0	5	1	0	89
CA	RETURNS													
CA	CONSUMPTIVE USE													
CA METROPOLITAN WATER DISTRICT														
CA DIVERSION FROM LAKE HAVASU	DIVERSION	107628	98124	109414	105566	109671	106214	108817	111405	106218	58572	109036	110423	1241088
CA	RETURNS	2/ 266	238	270	270	268	253	266	251	234	253	248	277	3094
CA	CONSUMPTIVE USE	107362	97886	109144	105296	109403	105961	108551	111154	105984	58319	108788	110146	1237994
CA PARKER DAM AND GOVERNMENT CAMP														
CA DIVERSION AT PARKER DAM	DIVERSION	9	7	12	13	16	19	21	20	16	13	9	9	165
CA	RETURNS	1	1	1	1	2	2	2	2	2	1	1	1	18
CA	CONSUMPTIVE USE	8	6	11	12	14	17	19	18	14	12	8	8	147
CA COLORADO RIVER INDIAN RESERVATION														
CA PUMPED FROM 4 RIVER PUMPS	DIVERSION	4/ 96	123	119	77	276	260	251	297	163	178	110	120	2068
CA 4 PUMPS BIG RIVER	DIVERSION	84	88	111	130	157	187	216	209	161	133	106	68	1652
CA	RETURNS	10/ 33	35	45	52	63	75	86	84	64	53	43	27	661
CA	CONSUMPTIVE USE	146	175	186	155	370	373	381	422	259	258	173	161	3059
CA CITY OF WINTERHAVEN														
CA 1 WELL SE NE NE SEC 27 T16S R22E SBM	DIVERSION	6/ 7	5	9	10	12	15	16	16	12	10	7	7	128
CA	RETURNS													
CA	CONSUMPTIVE USE													
CA PALO VERDE IRRIGATION DISTRICT														
CA DIVERSION FROM PALO VERDE DAM	DIVERSION	43130	59370	75370	95900	108800	113200	127900	121600	78590	73350	53470	47930	998610
CA	RETURNS	31655	32302	37255	37188	40569	37272	40946	40755	40645	41976	39392	37869	457824
CA	CONSUMPTIVE USE	11475	27068	38115	58712	68231	75928	86954	80845	37945	31374	14078	10061	540786
CA YUMA PROJECT, RES. DIV. INDIAN UNIT														
CA DIVERSION AT IMPERIAL DAM	DIVERSION	3176	3339	4869	6869	5626	2475	2509	2542	2895	5372	4598	2814	47084
CA	RETURNS	47	17	11	49	92	26	17	37	51	158	87	105	697
CA	CONSUMPTIVE USE	3129	3322	4858	6820	5534	2449	2492	2505	2844	5214	4511	2709	46387
CA YUMA PROJECT, RES. DIV. BARD UNIT														
CA DIVERSION AT IMPERIAL DAM	DIVERSION	7/ 2975	2625	4330	5926	5689	4151	5580	3045	2652	4242	3702	2303	47221
CA	RETURNS	25	8	6	26	56	24	22	30	35	85	40	53	410
CA	CONSUMPTIVE USE	2950	2617	4324	5900	5633	4127	5558	3015	2617	4157	3662	2250	46811
CA RETURNS FROM YUMA PROJECT														
CA RESERVATION DIVISION RETURNS	RETURNS	3/ 2673	2619	2970	2414	2759	2442	2625	2848	2658	2912	2282	2601	31803

CA SUM YUMA PROJECTS, RES. DIV. USE	CONSUMPTIVE USE	3406	3320	6212	10306	8408	4134	5425	2672	2803	6459	5891	2358	61395
CA														
CA IMPERIAL IRRIGATION DISTRICT														
CA DIVERSION AT IMPERIAL DAM	DIVERSION	11153082	192723	277049	332514	360734	333917	377089	341232	272637	257724	187775	143876	3230352
CA	RETURNS	3754	1637	1049	4131	10058	5942	4499	8864	9440	12801	5853	9340	77368
CA	CONSUMPTIVE USE	149328	191086	276000	328383	350676	327975	372590	332368	263197	244923	181922	134536	3152984
CA COACHELLA VALLEY WATER DISTRICT														
CA DIVERSION AT IMPERIAL DAM	DIVERSION	11	16434	18656	27241	31512	36452	36788	37262	36109	31499	25721	23576	339506
CA	RETURNS	403	158	103	392	1016	655	445	938	1091	1278	735	1185	8399
CA	CONSUMPTIVE USE	16031	18498	27138	31120	35436	36133	36817	35171	30408	24443	22841	17071	331107
CA OTHERS PUMPING FROM COLORADO														
CA RIVER AND WELLS IN FLOOD PLAIN,	DIVERSION	5/	890	964	1273	1601	2192	2247	2404	2351	2058	1711	1121	20000
CA DAVIS DAM TO INTERNATIONAL BOUNDARY	RETURNS													
CA	CONSUMPTIVE USE													
CA CALIFORNIA TOTALS														
CA	DIVERSION	328063	377051	501056	581807	631428	601879	664486	621592	499205	428527	384508	327413	5947015
CA	RETURNS	38918	37063	41792	44613	54992	46823	49053	53948	54329	59609	48745	51522	581407
CA	CONSUMPTIVE USE	289145	339988	459264	537194	576436	555056	615433	567644	444876	368918	335763	275891	5365609
CA	WATER MANAGEMENT													
CA	ACCT. CREDITS	0	0	0	0	0	0	0	0	0	0	0	0	0
CA	TOTAL USE	289145	339988	459264	537194	576436	555056	615433	567644	444876	368918	335763	275891	5365609
CA														
CA														
CA WATER CONSERVATION PROGRAM														
CA IMPERIAL I. D./METROPOLITAN W. D. CONSERVED WATER		8745	8745	8745	8745	8745	8745	8745	8745	8745	8745	8745	8745	104940
CA														
CA														

CA NOTE: The term 'CONSUMPTIVE USE' as used in this tabulation means diversions from the mainstream, including water drawn from the mainstream by under less measured and, for AAC and GGMC users, estimated unmeasured return flow to the river.

- CA 1/ No surface returns unless shown.
- CA 2/ Estimate based on measured seepage returning from regulatory reservoirs less an estimated amount of phreatophyte use.
- CA 3/ Returns unassigned include drainage from the Indian Unit and the Bard Unit in the Reservation Division but excludes seepage from the All-American Canal.
- CA 4/ Calculated using monthly power records.
- CA 5/ Details on California Supplemental Sheets.
- CA 6/ Reported annual total only, distributed monthly according to the monthly use patterns of nearby users.
- CA 7/ The diversions to Bard, listed here, have been reduced by the amount of water delivered to Ranch 5 lands in California and Arizona. See Supplemente
- CA 8/ IID/MWD Water Conservation Program Phase 1 conserved water made available by IID for diversion in current year by MWD.
- CA 9/ Consumptive use provided by the user. Calculated by adding M&I use to the product of the acreage of each crop type times the crop specific ET.
- CA 10/ 40% of Big River pumpage calculated as returns.
- CA 11/ This record has been adjusted to account for diversions to the East Mesa from the Coachella Canal.

NV		CONSUMPTIVE USE													
NV BIG BEND WATER DISTRICT															
NV DIVERSION SEC 12 T32S R66E MDB&M	DIVERSION	343	331	400	432	456	489	557	552	508	568	510	522	5668	
NV	RETURNS	253	244	286	296	273	285	306	320	274	279	252	245	3313	
NV	CONSUMPTIVE USE	90	87	114	136	183	204	251	232	234	289	258	277	2355	
NV FORT MOJAVE INDIAN RESERVATION (Avi)															
NV 2 WELLS, SECTIONS 27 & 5	DIVERSION	5	183	298	340	410	439	657	534	522	435	298	260	142	4518
NV	RETURNS														
NV	CONSUMPTIVE USE														
NV LAS VEGAS WASH RETURN FLOWS															
NV	RETURNS	2/	15520	14296	13761	12830	12930	13264	15192	14187	12317	12770	12102	15076	164245
NV OTHERS PUMPING FROM COLORADO															
NV RIVER AND WELLS IN FLOOD PLAIN,	DIVERSION	3/	0	0	0	0	0	0	0	0	0	0	0	0	0
NV DAVIS DAM TO CALIFORNIA BOUNDARY	RETURNS														
NV	CONSUMPTIVE USE														
NV NEVADA TOTALS															
NV	DIVERSION		29430	27225	35522	43955	50221	49444	55984	55795	46602	43608	33366	29528	500679
NV	RETURNS		16309	14951	14507	13569	13690	14098	16059	15068	13183	13660	12918	15948	173961
NV	CONSUMPTIVE USE		13121	12274	21014	30386	36531	35346	39925	40727	33419	29948	20448	13580	326718

NV		6/													
NV GROUNDWATER INJECTED STORAGE															
NV LAS VEGAS VALLEY WATER DIST.	INJECTED	10	239	375	58	0	0	0	0	0	0	0	1573	2255	
NV	WITHDRAWN	0	0	0	0	0	0	0	354	335	1294	213	74	2270	
NV CITY OF NORTH LAS VEGAS	INJECTED	0	0	0	0	0	0	0	0	0	0	0	0	0	
NV	WITHDRAWN	0	0	0	0	0	0	0	0	0	0	0	0	0	

NV NOTE: The term 'CONSUMPTIVE USE' as used in this tabulation means diversions from the mainstream, including water drawn from the mainstream by under less measured return flow to the river.

- NV 1/ No surface returns unless shown.
- NV 2/ Estimated return based on historic use method adopted by the task force on unmeasured return flows on August 28, 1984 and as revised.
- NV 3/ Details on Nevada Supplemental Sheets.
- NV 4/ User deliveries adjusted by weighted use to equal total diversion at Lake Mead.
- NV 5/ Consumptive use provided by the user. Calculated by adding M&I use to the product of the acreage of each crop type times the crop specific ET.
- NV 6/ Nevada Injected Storage Balance:

Beginning of Year Cumulative Injected Sto	253045
Plus Current Year Additions	2255
Minus Current Year Withdrawls	2270
End of Year Cumulative Injected Storage	253030

DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY
AND
WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS
CALENDAR YEAR 2002

05/12/2003

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
DELIVERY AT NORTHERLY INT'L BOUNDARY	1/	134707	151375	207181	198402	111988	113969	118596	94716	101749	66707	91304	115178	1505872
DELIVERY AT SOUTHERLY INT'L BOUNDARY		8593	8142	8313	8928	9189	8921	8889	10517	10705	12476	12392	10226	117291
DELIVERY AT TIJUANA	2/	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DELIVERY TO MEXICO	3/	143300	159517	215494	207330	121177	122890	127485	105233	112454	79183	103696	125404	1623163
TO MEXICO AS SCHEDULED		132456	156901	195426	191223	107268	113473	119427	100753	92460	69485	99466	121662	1500000
TO MEXICO IN EXCESS OF SCHEDULE	4/	10844	2616	20068	16107	13909	9417	8058	4480	19994	9698	4230	3742	123163
WATER BYPASSED PURSUANT TO MINUTE 242		13700	9355	2102	8892	9489	9093	10095	9283	9326	13179	14598	12637	121749

1/ Includes wasteway deliveries to the river limitrophe in satisfaction of Treaty.

2/ Temporary emergency delivery of Colorado River entitlement at Tijuana, via the Colorado River Aqueduct, pursuant to Minute 308.

3/ Does not include Water Bypassed Pursuant to Minute 242.

4/ Water that is lost to the United States through releases into the Colorado River above Morelos Dam in excess of Lower Basin delivery orders

and Mexican Treaty requirements. These excess waters exceed water orders in Mexico and are generally not diverted for beneficial use in Mexico.

RELEASES OF WATER THROUGH REGULATORY STRUCTURES
 CONTROLLED BY THE UNITED STATES
 CALENDAR YEAR 2002

		05/12/2003											(THOUSAND ACRE-FEET)	
ST	STRUCTURE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ST	GLEN CANYON DAM 1/	805	604	611	616	605	762	917	909	492	503	480	609	7912.6
ST	HOOVER DAM	702	785	1146	1112	1170	1036	1007	945	664	525	625	731	10447.2
ST	DAVIS DAM	703	836	1109	1175	1149	1084	1061	967	826	666	642	602	10819.8
ST	PARKER DAM	398	499	697	810	789	816	888	745	620	539	419	345	7565.4
ST	HEADGATE ROCK DAM 2/	372	461	648	748	717	744	809	673	573	498	393	324	6961.4
ST	PALO VERDE DAM	313	405	610	682	620	595	655	555	505	444	360	293	6034.5
ST	IMPERIAL DAM 3/	19	21	72	42	60	32	29	30	41	33	21	42	441.3
ST	DIVERSION TO MITTRY LAKE FROM GILA MAIN CANAL	1	1	1	1	1	1	1	1	1	1	1	1	9.8
ST	SUM IMPERIAL DAM + DIVERSION TO MITTRY LAKE	20	21	73	43	61	32	29	30	42	34	22	43	451.1
ST	LAGUNA DAM	20	21	82	52	74	34	31	34	46	36	26	47	503.3

ST 1/ Glen Canyon Dam lies within the Upper Basin, hence is not covered by the Decree. We report releases for comparison purposes only.

ST 2/ Computed as Parker Dam release less diversion at Headgate Rock Dam.

ST 3/ These values are the flow in the river below Imperial Dam. They do not include the diversions through AAC and GGMC

		S U M M A R Y													
		CONSUMPTIVE USE BY STATE, UNMEASURED RETURNS ESTIMATE, AND RESERVOIR CONTENTS													
		CALENDAR YEAR 2002													
		(THOUSAND ACRE-FEET)													
05/12/2003															
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	
SU LOWER BASIN STATES WATER USE SUMMARY:															
SU ARIZONA		209.8	247.4	322.2	333.6	356.3	320.3	256.7	238.7	189.7	149.7	179.3	165.6	2969.2	
SU CALIFORNIA		289.1	340.0	459.3	537.2	576.4	555.1	615.4	567.6	444.9	368.9	335.8	275.9	5365.6	
SU NEVADA		13.1	12.3	21.0	30.4	36.5	35.3	39.9	40.7	33.4	29.9	20.4	13.6	326.7	
SU SUBTOTAL		512.1	599.7	802.4	901.2	969.2	910.7	912.0	847.1	668.0	548.5	535.5	455.1	8661.6	
SU UNMEASURED RETURNS 1/		13.6	10.9	18.5	20.0	24.5	29.7	32.4	31.2	24.5	20.5	14.6	14.4	254.7	
SU TOTAL CONSUMPTIVE USE, LOWER BASIN STATES 2/		498.5	588.8	783.9	881.1	944.8	881.0	879.6	815.9	643.5	528.0	520.9	440.7	8406.8	
SU TOTAL DELIVERIES TO MEXICO															
		143.3	159.5	215.5	207.3	121.2	122.9	127.5	105.2	112.5	79.2	103.7	125.4	1623.2	
SU WATER BYPASSED PURSUANT TO MINUTE 242															
		13.7	9.4	2.1	8.9	9.5	9.1	10.1	9.3	9.3	13.2	14.6	12.6	121.7	
SU TOTAL CONSUMPTIVE USE, LOWER BASIN STATES & MEXICO 2/															
		655.5	757.7	1001.5	1097.4	1075.4	1013.0	1017.2	930.5	765.3	620.4	639.2	578.8	10151.7	
SU END OF MONTH ACTIVE CONTENTS:															
		DEC 02												CY CHANGE	
SU LAKE POWELL		17996	17507	17201	16927	16705	16536	16111	15333	14569	14468	14270	14111	13774	-4222
SU LAKE MEAD		19795	19870	19682	19112	18539	17915	17533	17343	17209	17093	17032	16850	16718	-3077
SU LAKE MOHAVE		1655	1674	1643	1709	1682	1736	1720	1695	1698	1577	1486	1516	1679	24
SU LAKE HAVASU		552	550	561	590	584	595	583	561	560	565	584	559	547	-5
SU TOTAL LOWER BASIN STORAGE		22002	22093	21886	21411	20805	20246	19836	19600	19467	19234	19102	18925	18944	-3059
SU CONSUMPTIVE USE ABOVE HOOVER DAM:															
SU ARIZONA		0.006	0.006	0.008	0.014	0.014	0.018	0.018	0.021	0.017	0.012	0.008	0.006	0.15	
SU NEVADA		11.774	10.946	19.779	29.273	34.780	33.186	37.753	38.566	31.562	28.339	19.044	12.235	307.24	
SU TOTAL CONSUMPTIVE USE ABOVE HOOVER DAM		11.781	10.951	19.788	29.287	34.794	33.203	37.771	38.587	31.579	28.352	19.052	12.241	307.38	
SU CONSUMPTIVE USE BELOW PARKER DAM:															
SU ARIZONA		46.2	63.1	113.7	137.7	157.2	137.7	146.5	129.1	101.8	99.5	64.1	32.7	1229.3	
SU CALIFORNIA		181.3	241.1	348.9	430.3	465.3	446.8	504.6	453.9	336.7	309.2	226.0	165.4	4109.7	
SU MEXICO 4/		157.0	168.9	217.6	216.2	130.7	132.0	137.6	114.5	121.8	92.4	118.3	138.0	1744.9	
SU TOTAL CONSUMPTIVE USE BELOW PARKER DAM		384.5	473.1	680.3	784.2	753.3	716.5	788.7	697.5	560.2	501.1	408.4	336.1	7083.9	
SU 1/ Estimated total unmeasured return of 254,737 acre-feet reduces States use. Estimated unmeasured return by state is:															
SU 163,244 af in Arizona, 90,002 af in California, and 1,491 af in Nevada.															
SU 2/ The term 'CONSUMPTIVE USE' as used here means diversions from the mainstream, including water drawn from the mainstream by underground pumping, less measured and estimated unmeasured return flow to the river.															
SU 3/ Sum of Total Consumptive Use, Lower Division States, deliveries to Mexico in Satisfaction of Treaty and Bypass Pursuant to Min. 242.															
SU 4/ Includes water delivered in satisfaction of the the treaty with Mexico and water bypassed pursuant to Minute 242.															
SU Note to Reader: Each section of this report, and the data for each State within each section has its own sequence of footnotes.															

SS SUPPLEMENTAL SUMMARY - STORAGE AND INTERSTATE RELEASE AGEEMENT
 SS COLORADO RIVER WATER STORED IN ARIZONA BY THE ARIZONA WATER BANKING AUTHORITY (ABWA) UNDER 43 CFR PART 414
 SS WATER STORED FOR THE BENEFIT OF SPECIFIC ENTITIES WITH A VALID SIRA
 SS CALENDAR YEAR 2002

SS 05/12/2003

SS (THOUSAND ACRE-FEET)

SS		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	02 ALTSC
SS	INTERSTATE BANKING SUMMARY													8/
SS	NEVADA Verified BOY ALTSC 1/	50												
SS	Water stored for Accrued LTSC in (2/	0	0	0	0	0	0	0	0	0	0	0	66	66
SS	Benefit of SNWA Recovered LTSC i 3/	0	0	0	0	0	0	0	0	0	0	0	0	0
SS	Total 02 ALTSC 4/	50	50	50	50	50	50	50	50	50	50	50	116	116
SS	CALIFORNIA ** Verified BOY ALTSC 1/													
SS	Accrued LTSC in (2/													
SS	Recovered LTSC i 3/													
SS	Total 02 ALTSC 4/													
SS	STATES TOTAL Verified BOY ALTSC 1/	50												
SS	Accrued LTSC in (2/	0	0	0	0	0	0	0	0	0	0	0	66	66
SS	Recovered LTSC i 3/	0	0	0	0	0	0	0	0	0	0	0	0	0
SS	Total 02 ALTSC 4/	50	0	0	0	0	0	0	0	0	0	0	116	116

SS ** At present there is not a Storage and Interstate Release Agreement between AWBA and a California entity, data from any future agreement will be presented here.

SS Footnotes:

- SS 1/ Accumulated Long-Term Storage Credits (ALTSC) verified by AWBA at the beginning of the reporting year (BOY) to be available for recovery by a specific entity with a valid SIRA.
- SS Requested Intentionally Created Unused Apportionment (ICUA) cannot exceed verified ALTSC.
- SS 2/ Provisional LTSC accrued during the reporting year for the benefit of a specific consuming entity in Nevada or California with valid SIRA.
- SS Provisional LTSC have not been verified by AWBA and are not eligible for certification and recovery.
- SS Accruals of LTSC for the benefit of consuming entities in Nevada and California shall be limited to 200 KAF annually.
- SS 3/ ALTSC recovered by AWBA during the reporting year, represented by ICUA that AWBA certified to be available and the Secretary has released to a specific entity with a valid SIRA during the same year. The ALTSC is certified by AWBA when ICUA is requested prior to release by the Secretary.
- SS Total recovery of ALTSC shall not exceed 100 KAF annually.
- SS 4/ Monthly sum of provisional and verified ALTSCs.