



— BUREAU OF —  
RECLAMATION

# Lower Colorado River System Consumptive Uses and Losses Report

Recalculated 1971-2005

Interior Region 8: Lower Colorado Basin



## Mission Statements

The U.S. Department of the Interior protects and manages the Nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated Island Communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

# **Lower Colorado River System Consumptive Uses and Losses Report**

**Recalculated 1971-2005**

**Interior Region 8: Lower Colorado Basin**

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# Abbreviations and Acronyms

CAP	Central Arizona Project
CUL	Consumptive Uses and Losses
CRSS	Colorado River Simulation System
EIA	Energy Information Administration
ET	Evapotranspiration
GIS	Geographic Information Systems
HUC	Hydrologic Unit Code
LCRAS	Lower Colorado River Annual Summary of Evapotranspiration and Evaporation
M&I	Municipal and Industrial
NASS	National Agricultural Statistics Service
NDVI	Normalized Difference Vegetation Index
NID	National Inventory of Dams
NOAA	National Oceanic and Atmospheric Administration
NRCS	Natural Resources Conservation Service
PRISM	Parameter-elevation Regressions on Independent Slopes Model
Reclamation	Bureau of Reclamation
SSEBop	Operational Simplified Surface-Energy Balance
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USGS	United States Geological Survey
Water Accounting Report	<i>Colorado River Accounting and Water Use Report: Arizona, California, and Nevada</i>

# Definitions

**Colorado River Basin:** Defined in the Colorado River Compact of 1922 as all the drainage area of the Colorado River System and all other territory within the United States of America to which waters of the Colorado River System shall be beneficially applied.

**Colorado River System:** Defined in the Colorado River Compact of 1922 as that portion of the Colorado River and its tributaries within the United States.

**Colorado River Tributaries:** Major rivers and associated watersheds that naturally drain into the Colorado River. For the purpose of this report “tributary water” is water that is sourced from the lower Colorado River System but not diverted from the mainstream of the Colorado River.

**Consumptive Uses and Losses:** A use or depletion of water due to human-caused activity, including interbasin transfers.

**Effective Precipitation:** Precipitation occurring during the growing season that is available to meet evapotranspiration (ET) requirements of crops.

**Fullness Factor:** A coefficient used to adjust a maximum reservoir surface area to an average annual reservoir surface area.

**Incidental Use:** Consumptive uses and losses resulting from phreatophyte growth in and along canals and laterals, evaporation from the canals and laterals, as well as other losses due to a canal’s imperfect conveyance efficiency and losses during the irrigation of crops.

**Lower Colorado River Basin:** Defined in the Colorado River Compact of 1922 as those parts of the States of Arizona, California, Nevada, New Mexico, and Utah within and from which waters naturally drain into the Colorado River System below Lee Ferry, and also all parts of said States located without the drainage area of the Colorado River System which are now or shall hereafter be beneficially served by waters diverted from the System below Lee Ferry.

**Lower Colorado River System:** Those parts of the States of Arizona, California, Nevada, New Mexico, and Utah within and from which waters naturally drain into the Colorado River System below Lee Ferry.

**Mainstream:** The main channel of the Colorado River downstream of Lee Ferry within the United States, including the reservoirs behind dams on the main channel, and Senator Wash Reservoir off the main channel.

**Return Flow:** Mainstream water that has been diverted and which flows back to the Colorado River or the Colorado River Aquifer as measured or unmeasured flow and is available for use in the United States or in satisfaction of the 1944 Water Treaty<sup>1</sup> obligation.

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<sup>1</sup> Referring to the *Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande Treaty between the United States of America and Mexico*, signed on February 3, 1944.





# CONSUMPTIVE USES AND LOSSES REPORT

## Lower Colorado River System Reporting Areas

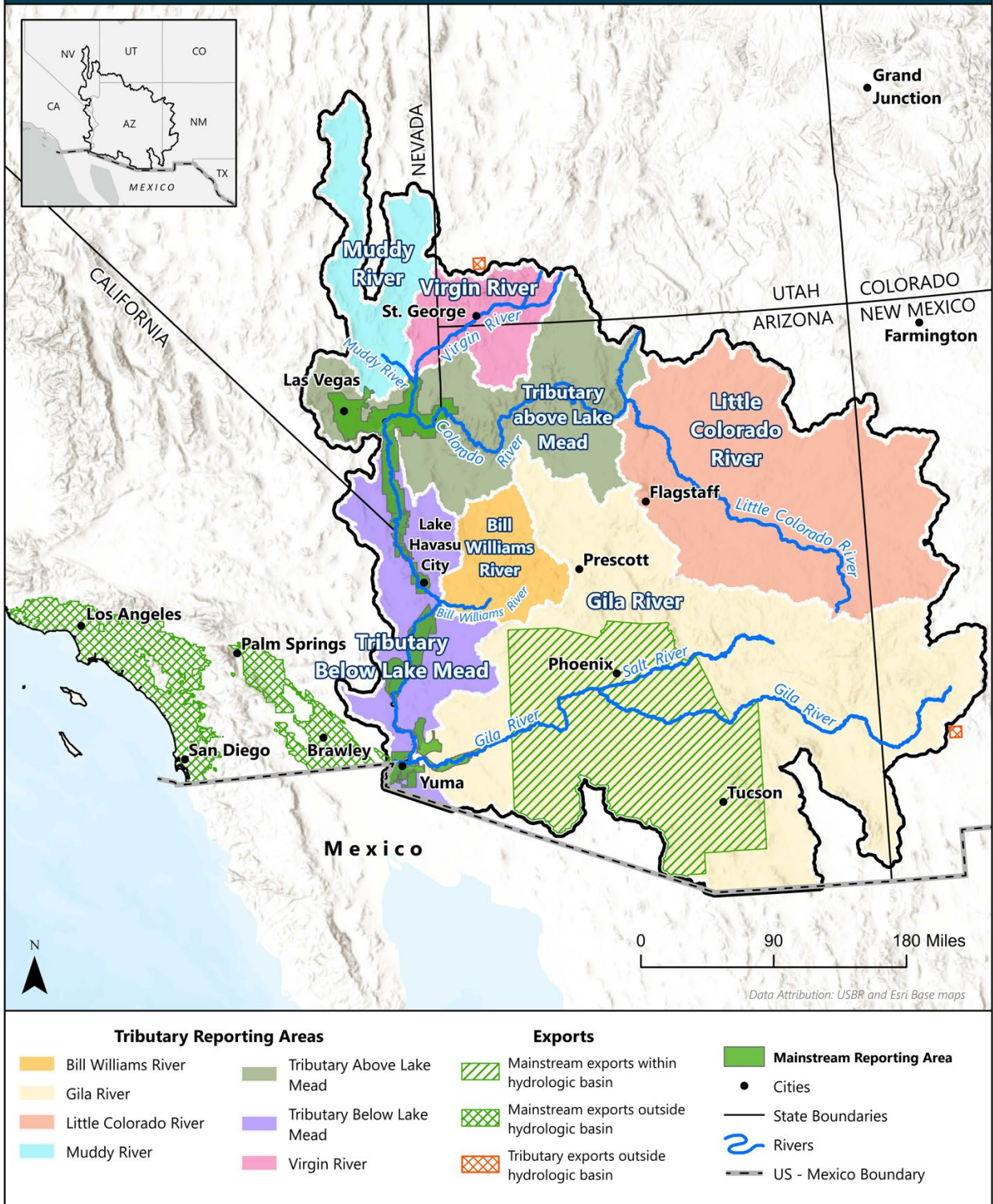


Figure 1: Lower Colorado River System Reporting Areas

# Summary

The Colorado River Basin Project Act (Public Law 90-537) directs the Secretary of the Interior to report on the annual consumptive uses and losses of water from the Colorado River System after each successive five-year period starting on October 1, 1970.

In the lower Colorado River Basin, the Bureau of Reclamation produced reports on consumptive uses and losses data from 1971 – 2005. These previously published reports were found to have several methodological and data inconsistencies in the *2012 Colorado River Basin Water Supply and Demand Study*. As a result, the Bureau of Reclamation committed to recalculating the data to improve the methodological and data consistency for that period.

This report presents the recalculated estimates of anthropogenic consumptive uses and losses from the lower Colorado River System for each calendar year from 1971 through 2005. Consumptive uses and losses data from the mainstream of the Colorado River are reported at the state scale (Arizona, California, and Nevada) and are further divided by major type of use (exports, irrigated agriculture, municipal and industrial other, or thermal electric power). Tributary data are reported at the state scale (Arizona, California, Nevada, New Mexico, Utah) and reporting area scale (Tributary Area Above Lake Mead, Tributary Area Below Lake Mead, Little Colorado River, Virgin River, Muddy River, Bill Williams River, and the Gila River) and are further divided by major type of use (reservoir evaporation, exports, irrigated agriculture, stockpond evaporation & livestock, municipal and industrial other, thermal electric power, and mineral resources). The report also includes data on evaporative losses from mainstream reservoirs, water delivered to Mexico and other water flowing to Mexico, irrigated acreage and population estimates.

The recalculated data in the tables of this report, as summarized in the **Data Summary** table, represent the Bureau of Reclamation's best efforts to create a consistent consumptive uses and losses record from 1971 – 2005 for the lower Colorado River System and supersedes the data contained in previously published reports.

**Data Summary**  
**Lower Colorado River System: Estimated Consumptive Uses and Losses<sup>1</sup>**  
**(1,000 acre-feet)**

Calendar Year	ARIZONA			CALIFORNIA			NEVADA			NEW MEXICO	UTAH	LOWER COLORADO RIVER SYSTEM				MEXICO			TOTAL <sup>5</sup>
	Colorado River Mainstream	Lower Basin Tributaries	Arizona Total	Colorado River Mainstream	Lower Basin Tributaries	California Total	Colorado River Mainstream	Lower Basin Tributaries	Nevada Total	Lower Basin Tributaries	Lower Basin Tributaries	Colorado River Mainstream	Lower Basin Tributaries	Mainstream Reservoir Evaporation	Total Lower Colorado River System	Deliveries to Mexico in Satisfaction of Treaty <sup>2,3</sup>	Water Bypassed Pursuant to Minute 242 <sup>4</sup>	To Mexico in Excess of Treaty	Lower Colorado River System and Mexico
1971	1,184	2,914	4,098	5,133	0	5,133	51	103	153	28	41	6,367	3,085	973	10,426	1,500	55	6	11,981
1972	1,089	3,164	4,253	5,150	0	5,150	81	90	171	31	45	6,320	3,329	982	10,631	1,500	86	26	12,217
1973	1,142	3,339	4,481	5,231	0	5,231	93	86	179	33	50	6,466	3,507	1,072	11,045	1,500	119	5	12,664
1974	1,199	3,439	4,638	5,329	0	5,329	95	109	204	35	56	6,623	3,638	1,042	11,303	1,500	159	6	12,962
1975	1,230	3,689	4,919	4,894	0	4,894	101	139	240	33	61	6,225	3,923	1,075	11,223	1,500	215	12	12,938
1976	1,125	3,453	4,578	4,616	0	4,616	73	134	207	34	54	5,814	3,675	1,045	10,534	1,500	205	69	12,239
1977	1,105	3,474	4,580	5,011	0	5,011	73	154	227	32	70	6,190	3,730	1,069	10,989	1,500	207	71	12,696
1978	1,115	3,297	4,412	4,419	0	4,420	71	137	208	34	75	5,606	3,542	995	10,143	1,500	182	44	11,825
1979	1,021	3,714	4,736	4,703	0	4,703	89	143	231	28	68	5,813	3,952	1,107	10,871	1,700	178	1,467	12,749
1980	1,077	3,840	4,918	4,642	0	4,642	92	170	262	33	96	5,812	4,139	1,098	11,049	1,700	155	5,341	12,903
1981	1,263	3,891	5,153	4,689	0	4,690	110	163	273	34	80	6,062	4,168	1,119	11,349	1,700	148	343	13,198
1982	1,101	3,388	4,488	4,211	0	4,211	102	129	231	31	67	5,414	3,614	1,114	10,142	1,500	150	49	11,792
1983	941	3,650	4,591	4,170	0	4,170	87	172	259	30	86	5,197	3,938	1,139	10,273	1,700	170	12,460	12,143
1984	1,032	3,317	4,349	4,583	0	4,583	101	170	271	30	78	5,717	3,595	1,109	10,421	1,700	126	13,843	12,246
1985	1,107	3,742	4,849	4,698	0	4,698	102	177	279	36	110	5,907	4,064	1,204	11,176	1,700	130	10,111	13,005
1986	1,227	3,598	4,826	4,725	0	4,725	112	205	317	33	120	6,064	3,957	1,173	11,193	1,700	110	9,114	13,003
1987	1,553	3,136	4,689	4,799	0	4,799	109	178	287	32	105	6,460	3,451	1,152	11,063	1,700	98	2,947	12,861
1988	1,729	3,052	4,781	4,940	0	4,940	129	182	311	29	95	6,798	3,358	1,159	11,314	1,700	128	631	13,143
1989	2,020	2,724	4,744	5,041	0	5,041	153	179	331	33	86	7,214	3,022	1,158	11,393	1,500	139	90	13,032
1990	2,096	2,618	4,714	5,127	0	5,127	167	182	350	31	85	7,391	2,916	1,073	11,380	1,500	134	42	13,014
1991	1,700	3,075	4,775	4,912	0	4,912	164	172	336	30	87	6,776	3,365	1,032	11,173	1,500	141	21	12,814
1992	1,740	3,292	5,032	4,461	0	4,461	161	190	351	27	111	6,362	3,620	965	10,947	1,500	101	81	12,548
1993	2,078	3,004	5,083	4,753	0	4,754	180	189	369	29	108	7,012	3,330	1,061	11,402	1,500	61	3,693	12,963
1994	2,077	3,196	5,274	5,147	0	5,147	206	181	387	28	107	7,430	3,513	1,089	12,032	1,500	124	26	13,656
1995	2,042	3,669	5,711	4,837	0	4,837	201	185	386	32	116	7,080	4,003	1,081	12,163	1,500	126	212	13,789
1996	2,544	2,994	5,538	5,226	0	5,226	237	185	422	31	96	8,007	3,306	1,153	12,466	1,500	112	5	14,078
1997	2,699	2,394	5,094	5,162	0	5,162	223	187	410	31	116	8,085	2,728	1,164	11,977	1,700	89	1,173	13,766
1998	2,420	2,740	5,160	4,953	0	4,953	217	197	414	34	116	7,590	3,086	1,144	11,820	1,700	114	3,018	13,634
1999	2,578	2,344	4,922	5,107	0	5,107	257	186	443	32	107	7,942	2,668	1,200	11,811	1,700	79	1,194	13,589
2000	2,641	2,132	4,773	5,269	0	5,269	290	187	477	33	99	8,200	2,451	1,185	11,836	1,700	107	337	13,643
2001	2,688	2,251	4,939	5,169	0	5,169	293	191	484	29	111	8,149	2,583	1,085	11,817	1,500	104	201	13,421
2002	2,802	2,022	4,824	5,276	0	5,276	325	191	516	31	99	8,402	2,343	1,045	11,790	1,500	122	123	13,412
2003	2,829	2,006	4,835	4,409	0	4,409	271	194	465	33	107	7,508	2,340	926	10,774	1,500	115	62	12,389
2004	2,783	1,971	4,755	4,316	0	4,316	267	191	458	31	104	7,366	2,298	840	10,504	1,500	101	93	12,105
2005	2,427	2,593	5,020	4,329	0	4,329	277	191	468	31	123	7,033	2,938	866	10,837	1,500	108	116	12,446

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Referring to Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande Treaty between the United States of America and Mexico, signed on February 3, 1944.

<sup>3</sup> Water delivered to Mexico pursuant to their approved monthly schedule. May increase or decrease from the Treaty allotment of 1,500,000 acre-feet due to surplus or shortage conditions, and the creation and delivery of water deferred by Mexico and stored in Lake Mead.

<sup>4</sup> Referring to water bypassed pursuant to *Minute Number 242, Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River* (Minute 242), signed on August 30, 1973. Prior to implementation of Minute No. 242, bypassed volumes were made pursuant to *Minute No. 218 Recommendations on the Colorado River Salinity Problem* signed on March 22, 1965 in 1971 and 1972, and pursuant to *Minute No. 241 Recommendations to Improve Immediately the Quality of Colorado River Waters Going to Mexico*, signed on July 14, 1972 in 1973 and 1974. Starting in 1975 volumes were bypassed pursuant to Minute 242.

<sup>5</sup> Does not include volumes in column "To Mexico in Excess of Treaty".

# Introduction

The Colorado River System includes portions of seven states: Arizona, California, Colorado, Nevada, New Mexico, Utah, and Wyoming. It represents about one-fifteenth of the total area of the United States.

The Colorado River Basin Project Act (Public Law 90-537) requires reports on the annual consumptive uses and losses (CUL) of water from the Colorado River System after each successive five-year period starting on October 1970. This report recalculates estimates of annual anthropogenic CUL of water from the lower Colorado River System for the years 1971 through 2005. CUL data for the same period pertaining to the upper Colorado River System can be found in separate reports.<sup>2</sup> The values presented in this report are recalculated from previously published reports and were produced because of the following three commitments made by the Bureau of Reclamation (Reclamation) in Appendix C11 of the *Colorado River Basin Water Supply and Demand Study* (Reclamation, 2012):<sup>3</sup>

- 1) To resolve and correct the methodological and data inconsistencies in Reclamation's CUL Reports pertaining to all of the Lower Basin tributaries, in collaboration with the Colorado River Basin States.
- 2) To develop natural flows for the Little Colorado, Virgin, and Bill Williams rivers and to modify the Colorado River Simulation System (CRSS) to use natural flows for those tributaries.
- 3) To explore the feasibility and necessity of computing natural flows for the Gila River Basin and adding that tributary to CRSS.

For computation of natural flows, as necessitated by commitments 2 and 3 above, CUL data are required at a United States Geological Survey (USGS) defined eight-digit hydrologic unit code (HUC8) spatial scale and a monthly temporal scale. However, consistent with past reports, only the annual values are reported at the state scale and a Reclamation-defined reporting area scale within the tables of this report.<sup>4</sup>

To facilitate development of the recalculated dataset, previously published reports and data were reviewed to identify where improvements could be made. During this process methodological inconsistencies and errors in the computation of historical CUL data were addressed. **Table 1: Summary of Recalculation Methods** identifies, at a simplified level, the type of use category, source data used in the recalculation effort, and highlights the changes in methodologies used in the recalculated report compared to previously published reports. The recalculated data in this report represent a complete revision of the previously published CUL data.

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<sup>2</sup> Available at: <https://www.usbr.gov/uc/envdocs/plans.html> and <https://www.usbr.gov/uc/DocLibrary/reports.html>.

<sup>3</sup> Available at: <https://www.usbr.gov/lc/region/programs/crbstudy.html>.

<sup>4</sup> Information on hydrologic units is available at: <https://water.usgs.gov/GIS/huc.html>. Data at the HUC8 scale as well as the Lower Colorado River System 1971-2015 Consumptive Uses and Losses Methods Manual (1971-2015 LC CUL Methods Manual) are available at <https://www.usbr.gov/lc/region/g4000/wtracct.html>.

Consumptive Uses and Losses Report  
Lower Colorado River System - Recalculated 1971-2005

The Consumptive Uses and Losses Report is distinct from the annual *Colorado River Accounting and Water Use Report: Arizona, California, and Nevada* (Water Accounting Report).<sup>5</sup> The Water Accounting Report contains the official record of diversions of water from the mainstream, return flow of such water to the stream as is available for consumptive use in the United States or in satisfaction of the 1944 Water Treaty obligation, and consumptive use of such water for each year since 1964. The Water Accounting Report is mandated by Article V of the Consolidated Decree of the United States Supreme Court in *Arizona v. California et al.* 547 U.S. 150 (2006). Historical data contained within the Water Accounting Report were incorporated into the CUL dataset, with slight revisions, where applicable. It is important to note that the two reports have different legal authorities and serve different purposes. The Water Accounting Report is concerned with diversions and consumptive uses from the mainstream, and the CUL Report is concerned with all anthropogenic uses and losses of water in the entire Colorado River System, which includes both mainstream and tributary areas.

Nothing in this report is intended to interpret the provisions of the Colorado River Compact (45 Stat. 1057), the Upper Colorado River Basin Compact (63 Stat. 31), the 1944 Mexican Water Treaty (Treaty Series 994; 59 Stat. 1219), the decree entered by the Supreme Court of the United States in *Arizona v. California, et al.* (376 U.S. 340), as consolidated, (547 U.S. 150) the Boulder Canyon Project Act (45 Stat. 1057), the Boulder Canyon Project Adjustment Act (54 Stat. 774; 43 U.S.C. 618a), the Colorado River Storage Project Act, (70 Stat. 105; 43 U.S.C. 620), or the Colorado River Basin Project Act (82 Stat. 885; 43 U.S.C.1501).

Methodologies for producing recalculated CUL data are introduced below and additional details regarding methodologies are included in the 1971-2015 LC CUL Methods Manual. Recalculated CUL data are reported as either mainstream or tributary water use, which are combined for total annual lower Colorado River System water use. These annual totals and mainstream data in the lower Colorado River System are reported by state and water use category. Tributary CUL data are reported by state, reporting area, and water use category. In addition to mainstream and tributary consumptive uses and losses data, data on water delivered to Mexico and other water flowing to Mexico, estimated lower Colorado River System population data, and tributary area irrigated acreage data are contained within the tables of this report.

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<sup>5</sup> Available at: <https://www.usbr.gov/lc/region/g4000/wtracct.html>.

**Table 1: Summary of Recalculation Methods**

Category	Source Data	Recalculation Methods	Change from Previous Methods
Mainstream Consumptive Use (All use categories)	Water accounting data from annual Reclamation Water Accounting Reports	Historical data adapted to fit CUL reporting requirements and for temporal consistency	Unmeasured returns applied at the user level for the period 1971-2002. Injected and pumped groundwater considered
Mainstream and Tributary Reservoir Evaporation	Reservoir data from various federal and state agencies, precipitation data from PRISM Climate Group, pan evaporation rates from NOAA	Varied depending on reservoir. All reservoirs reported as net evaporation (gross evaporation – precipitation).	Updated reservoir and precipitation data and applied methodology consistently
Tributary Exports	Diversion data from the USGS	Historical data adapted to fit CUL reporting requirements	Corrected errors and applied methodology consistently
Tributary Stockpond Evaporation	Surface area estimates from Reclamation CUL Reports and USDA NRCS data, precipitation data from PRISM Climate Group, pan evaporation rates from NOAA	Surface area multiplied by pan evaporation rates less precipitation to estimate CUL. Data adapted to fit CUL reporting requirements	Updated precipitation data, fit data to CUL reporting scale, and applied methodology consistently
Tributary Livestock	Livestock numbers from USDA NASS Agricultural Census and Agricultural Statistics Bulletins, water use coefficients from Reclamation CUL Reports and USGS	Data on animal totals multiplied by water use rates to estimate CUL	Improved county disaggregation, added horses, ponies, mules, burros, donkeys, goats and dairy cattle, revised water use coefficients, added a seasonality adjustment
Tributary Thermal Electric Power	Powerplant generation data from EIA reports, water use coefficients from USGS reports	Power generation data multiplied by water use coefficient to estimate CUL	EIA data and USGS coefficients used throughout. Corrected errors and applied methodology consistently across entire timeframe
Tributary Mineral Resources	Water use data for mining activities from USGS Report and values from previous CUL Reports	Data used as reported by the USGS or from previous CUL Reports	Updated values for 1985-2005 using USGS Report
Tributary Municipal and Industrial Other	Population data from U.S. Census data, per capita water use coefficients estimated from USGS data	Population multiplied by a per capita water use coefficient for specific areas to estimate CUL	Updated population and per capita use rate with recent data and applied methodology consistently
Tributary Irrigated Agriculture and Irrigated Acreage	NDVI and SSEBop imagery from the USGS	Determined field status, aggregated ET for all irrigated fields using the SSEBop method to estimate CUL	Independent annual acreage calculations and irrigation status determination. SSEBop method used for CUL calculations

## Mainstream Reporting Area

Consumptive use of water from the main channel of the Colorado River below Lee Ferry, AZ within the United States, also referred to as the mainstream, is reported separately from tributary consumptive use. Mainstream consumptive use is reported at the state level, and mainstream reservoir evaporation is reported at the system level and not assigned a specific state user. The extent of the mainstream reporting area is based on contract service areas and is included in **Figure 1: Lower Colorado River System Reporting Areas**. The extent changes slightly depending on if the water is being used for agricultural purposes or municipal and industrial purposes. For example, specific areas around Yuma, AZ use mainstream water for irrigated agriculture and tributary water for municipal and industrial purposes. However, generally the boundary is consistent across water use categories.

In addition to mainstream use, data on water delivered to Mexico and other water flowing to Mexico are included in the mainstream tables. These data are sourced directly from the Water Accounting Report for each year and are not assigned a use category.

## Mainstream Consumptive Use

Consumptive use values for the mainstream were estimated from Reclamation's Water Accounting Report for each year of the recalculation effort (Reclamation, 1971 - 2005). The Water Accounting Report contains data on the consumptive use<sup>6</sup> by each water user but does not describe type of use. Type of use (export outside system, export within system, irrigated agriculture, municipal and industrial (M&I) other, or thermal electric power) was assigned for each water user within the Water Accounting Report based on their predominate type of use. Unmeasured returns, or mainstream water that was diverted but returned to the Colorado River, were not reported for individual water users until the 2003 Water Accounting Report. To create a consistent record, unmeasured return flows were retroactively applied to the 1971-2002 data in the Water Accounting Report. Corrections to the Water Accounting Report data were incorporated into the CUL dataset, and the data were checked to confirm compliance with the CUL Report's definition of consumptive uses and losses. In all, the incorporation of unmeasured return flow estimates for 1971-2002, the incorporation of corrected data, and the differing definitions of consumptive use, result in slight differences in values between the CUL Report and the Water Accounting Reports.

## Mainstream Reservoir Evaporation

Mainstream reservoir evaporation is reported separately from mainstream consumptive use and is not assigned a specific state user. Mainstream reservoirs include Lake Mead, Lake Mohave, Lake Havasu, Senator Wash, and several smaller diversion dams located on the mainstream (Headgate Rock, Palo Verde, Imperial, Laguna, and Morelos). Net evaporation from the open

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<sup>6</sup> As defined in the Water Accounting Report.

water surface areas of reservoirs is considered a consumptive use in the CUL Report due to the increased surface area subject to evaporative losses created by impounding water behind a dam.

$$\text{Net Evaporation} = (\text{Evaporation} - \text{Precipitation}) * \text{Surface Area}$$

Data sources to determine net evaporation varied depending on the reservoir. Large mainstream reservoirs (Mead, Mohave, and Havasu) have monthly evaporation coefficients and surface area measurements based on area-capacity tables provided by Reclamation's Lower Colorado River Operations Group. Evaporation estimates for the open water areas behind diversion dams used static surface area values under the assumption that their surface areas were relatively constant throughout the year. Therefore, for the diversion dams, surface area measurements were used alongside a pan evaporation model (Farnsworth et al., 1982) to estimate evaporation. Use of the Farnsworth et al. pan evaporation model is consistent with past CUL reporting methodologies. Monthly precipitation values were sourced from the Parameter-elevation Regressions on Independent Slopes Model (PRISM) model published by Oregon State University (Oregon State University, various dates). Where required, missing data were estimated using averages, nearest values, or straight-line interpolations.

## Tributary Reporting Areas

Consistent with past CUL Reports, mainstream and tributary water uses are reported separately, however, they are combined when reporting total lower Colorado River System water use. While mainstream water use is reported at the state level, tributary water use is reported at the reporting area and state level. In addition to the mainstream, the lower Colorado River System was divided into seven reporting areas based on major tributaries of the Colorado River; and when applicable the reporting areas were divided by state.<sup>7</sup> For the purpose of this report, the Wilcox Playa HUC8 (15050201), a closed basin in Arizona, and the Animas Valley HUC8 (15040003), a closed basin mostly in New Mexico, were not included as part of the lower Colorado River System. The CUL Report Boundary, reporting areas, and state delineations are reflected in **Figure 1**. Reporting areas include: Tributary Area Above Lake Mead, Tributary Area Below Lake Mead, Little Colorado River, Virgin River, Muddy River, Bill Williams River, and the Gila River. Areas that are beneficially served by waters diverted from the lower Colorado River System are also included in the map. The waters delivered to these areas are recorded as exports and are not assigned a more specific water use category.

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<sup>7</sup> Only states with portions in the lower Colorado River Basin are included in this report. Those states include Arizona, California, Nevada, New Mexico, and Utah.



## **Tributary Area Above Lake Mead (Arizona, Nevada, Utah)**

The Colorado River runs through the Grand Canyon in this reporting area before reaching Lake Mead. The rugged terrain and scarce water availability result in limited water use in this area away from the mainstream of the Colorado River. There are limited irrigated acres in the area with most of the irrigated lands around Kanab Creek in Arizona and Utah. Cities in the Las Vegas, NV vicinity are the leading users of tributary water and supplement their mainstream water supply with tributary water sources.

## **Tributary Area Below Lake Mead (Arizona, California, Nevada)**

Similar to the Tributary Area Above Lake Mead, water use away from the Colorado River mainstream is limited by the availability of water and the rugged terrain. Most of the irrigated lands in this area are located east of the Town of Quartzite, around Desert Wells, AZ. Most of the population centers in this reporting area are along the Colorado River, including, Lake Havasu City, AZ, Yuma, AZ, and Blythe, CA; with Kingman, AZ and Quartzite, AZ both located off of the mainstream. Mineral resources have historically been a large water use category in the area. Water use by California in this reporting area is small and reflects the limited rural populations living away from the mainstream.

## **Gila River (Arizona, New Mexico)**

The Gila River is the largest tributary to the Colorado River in the lower Colorado River System. The drainage area extends from the Continental Divide in New Mexico to the river's mouth near Yuma, AZ. Elevations in the basin range from nearly 12,000 feet in the eastern mountains to about 150 feet at the mouth. Nearly three-fourths of the population of the lower Colorado River System reside in the Gila River Basin and the majority of the population is concentrated in the metropolitan areas of Phoenix and Tucson in Arizona. The majority of the agricultural development in the lower Colorado River System is located in the Gila River Basin. This development is concentrated in the central area of Maricopa and Pinal Counties.

## **Little Colorado River (Arizona, New Mexico)**

The Little Colorado River reporting area occupies a large part of northern Arizona and a portion of west-central New Mexico. Agriculture is concentrated along the Little Colorado River in the upper reaches of the River and around Snowflake, AZ. Irrigated acreage in the Little Colorado River System is subject to variation because of frequent water shortages and inadequate storage facilities. Population is predominately rural with principal cities including Flagstaff, Winslow, and Holbrook in Arizona, and Gallup and Zuni Pueblo in New Mexico. In addition to irrigated agriculture and municipal and industrial other, thermal electric power is a large water use category in the area.

## **Bill Williams River (Arizona)**

The Bill Williams River is formed by the confluence of the Big Sandy and Santa Maria Rivers above Alamo Dam in Arizona. The limited development in the basin is dominated by copper mining at the unincorporated town of Bagdad, AZ, and irrigation in the eastern portion of the basin. The basin is sparsely populated.

## **Virgin River (Arizona, Nevada, Utah)**

The Virgin River originates in western Kane County, UT. It flows southwesterly through the southwestern corner of Utah and the northwestern corner of Arizona and empties into the northern extremity of the Overton Arm of Lake Mead in Nevada. The major irrigated areas are located around St. George, UT, Hurricane, UT, and Mesquite, NV, as well as the East Fork of the Virgin River near Glendale, UT. Small, irrigated areas are scattered throughout. Population is predominately rural with St. George, UT, being the principal city in the basin.

## **Muddy River (Nevada)**

The Muddy River originates from natural springs in northern Clark County, NV and flows southeasterly about 30 miles and terminates at the northwestern extremity of the Overton Arm of Lake Mead near Overton, NV. The entire basin is sparsely populated with irrigated lands concentrated within the Pahrangat Valley, along Meadow Valley Wash, and along the Muddy River, all in Nevada.

# **Tributary Consumptive Uses and Losses Categories**

In addition to the categories of use on the mainstream (exports, irrigated agriculture, municipal and industrial other, and thermal electric power) there are additional categories of use defined in the tributaries including: tributary reservoir evaporation; stockpond evaporation & livestock; and mineral resources. The categories are described below as well as a brief introduction to the methodology used to calculate CUL values for each tributary category. A detailed review of the methodologies for producing CUL data is included in the 1971-2015 LC CUL Methods Manual.

## **Reservoir Evaporation**

Tributary reservoir evaporation includes all reservoirs in tributary areas. These reservoirs were calculated as larger measured reservoirs and smaller unmeasured reservoirs, each with a distinct methodology; and then combined and reported as 'reservoir evaporation' in the tributary tables.

## Measured Reservoir Evaporation

Measured reservoirs are reservoirs that have daily, weekly, or monthly evaporation, surface area, or elevation measurements. Measurements were provided by the operator of the dam impounding the reservoir or publicly available data.<sup>8</sup>

The process for calculating net evaporation depended on the available data. If net evaporation data were available from the operator, those data were used. When only gross evaporation data were provided, precipitation values were taken from the PRISM model to calculate net evaporation. When only surface area measurements were provided, evaporation rate values were sourced from the Farnsworth et al. pan evaporation model and precipitation values were sourced from the PRISM model. The location of the dam was used when referencing data from the pan evaporation model and the PRISM model.

## Unmeasured Reservoir Evaporation

Unmeasured reservoirs are tributary reservoirs that do not have daily, weekly, or monthly evaporation, surface area, or elevation measurements. These reservoirs are often much smaller than measured reservoirs. The list of unmeasured reservoirs was gathered using the National Inventory of Dams (NID) published by the U.S. Army Corps of Engineers (USACE) (USACE, 2018). Static reservoir surface areas are included in the NID data for some locations and were used when available. The reported NID surface areas were reduced by a fullness factor depending on the use type assigned by the NID. For example, hydro-electric and water supply reservoirs were assigned a 0.75 fullness factor because those remain full for a larger portion of the year, while flood control and grade stabilization dams were assigned a 0.05 fullness factor because they are more likely to be maintained near empty. When surface area was not reported in the NID, surface area was estimated using the National Hydrologic Database (USGS, 2020) and imagery. The NID provided the construction date of each dam, which was used to determine the applicable dates of inclusion for each reservoir.

Net evaporation for each unmeasured reservoir was calculated by estimating gross evaporation from the Farnsworth et al. pan evaporation model and subtracting precipitation using the PRISM model.

## Exports

The exports category includes within system exports (i.e. water that is moved from one reporting area to another, but remains within the lower Colorado River System) and outside system exports (water that is removed from the lower Colorado River System). Imported water is recorded in the “exports” category, but it is shown as a negative consumptive use in the reporting area it is exported to. As an example, water diverted from the mainstream and delivered via the CAP

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<sup>8</sup> Measurements were sourced from the Army Corps of Engineers (Alamo Dam, Painted Rock Dam), the Central Arizona Project (CAP) (CAP canal surface area, New Waddell Dam), the Salt River Project (Theodore Roosevelt Dam, Horse Mesa Dam, Mormon Flat Dam, Bartlett Dam, Stewart Mountain Dam, Horseshoe Dam), and the USGS (C.C. Cragin (Blue Ridge) Dam, Coolidge Dam).

canal is considered a mainstream export (positive consumptive use) and a tributary import (negative consumptive use) to the Gila River Reporting Area. Tributary exports are primarily small diversions in rural locations, and as such, the records were inconsistent. For example, for a diversion from a tributary to the Santa Clara River in Utah, the USGS gage was removed in 1995, however diversions were ongoing. The continued export volumes had to be estimated. Where data were missing, values were generated using averages, nearest values, or straight-line interpolations.

## Stockpond Evaporation

Evaporation from stockponds is a minor use of water across the lower Colorado River System. Similar to reservoir evaporation, stockpond consumptive use is calculated as net evaporation (gross evaporation – precipitation). The available data for stockponds' surface area were published by the United States Department of Agriculture (USDA) Soil Conservation Service (Soil Conservation Service, 1975). Use of the USDA Soil Conservation Service data is consistent with past CUL reporting methodologies and no additional data sources were identified. The surface area values were distributed from the reporting area scale to the HUC8 scale. Average evaporation for each HUC8 was calculated using values from the Farnsworth et al. pan evaporation model and average precipitation was calculated using data from the PRISM model. Net stockpond evaporation for each HUC8 was calculated using the resultant surface area, evaporation, and precipitation values.

## Livestock

The livestock category includes water used for watering, feedlots, dairy operations, and other on-farm needs. Livestock included in the CUL analysis are beef cattle, dairy cattle, sheep, hogs, horses, ponies, mules, burros, donkeys, and goats. Livestock consumptive use was calculated using a per-animal water use coefficient (gallons of water per day) multiplied by the number of livestock. The number of livestock was derived from the USDA National Agricultural Statistics Service (NASS) Agricultural Census (USDA, 1969-2017). Missing values were interpolated between reported values. Livestock water use coefficients are similar to coefficients used in previous CUL Reports and were slightly updated after review of USGS reports (Lovelace et al., 2005). Adjustments to the coefficients were made for seasonality which reflects increased water use during calving periods and pre-weaning season; and for climate, where hotter climates were assigned a slightly higher coefficient. Coefficients specific to dairy cattle, goats, horses, ponies, mules, burros, and donkeys were added for the recalculation effort.

## Thermal Electric Power

Consumptive uses and losses for the thermal electric power category includes any water consumptively used for electricity generation. This does not include evaporative losses from reservoirs behind hydroelectric dams. Power plant details and generation records were found in documents published by the U.S. Energy Information Administration (EIA) (EIA, 2019). In

In addition to the EIA reports, the USGS publishes coefficients (gallons/kilowatt-hour) that can be used to convert generation values to water use (Diehl et al., 2013 and Harris et al., various years). The coefficients and generation values were used to calculate consumptive use for each power plant in the lower Colorado River System for the full period of record.

## Mineral Resources

Consumptive uses and losses data for mineral resources includes all water used for mining related activities. The USGS published data on water used for mining every five years from 1985 to 2010 at the HUC8 scale (Maupin et al., 2018 and Ivahnenko et al., 2018) and were used as reported. Previously published CUL values were used prior to 1985.

## Municipal and Industrial Other

The M&I Other water use category is the consumptive use of municipal and industrial water exclusive of mineral resources and thermal electric power. M&I Other consumptive use was computed by using a per-capita consumptive water use rate or coefficient developed using USGS data from 1985 - 2010 (Maupin et al., 2018 and Ivahnenko et al., 2018) multiplied by population values from the U.S. Census Bureau (U.S. Census Bureau, 2022 and Manson et al., 2022).<sup>9</sup>

To produce the per-capita water use rate USGS data were categorized as withdrawals, wastewater, and wastewater reuse for public, commercial, and industrial activities. The formula used to derive a per capita consumptive use coefficient was:

$$\frac{\text{withdrawals} - \text{wastewater} + \text{wastewater reuse}}{\text{USGS reported population}} = \text{Per Capita CU Coefficient}$$

The per-capita consumptive use coefficients were calculated at the HUC8 scale. Unique coefficients were calculated for HUC8s around the Phoenix, AZ area, the Tucson, AZ area, and the St. George, UT area. All other HUC8s were considered 'rural' HUC8s and were assigned the 'rural' coefficient. Water use coefficients were interpolated between years and the nearest value was used when outside the date range of available coefficients. U.S. Census population data were compiled at the HUC8 scale for the full period of record. Tributary populations within each HUC8 were multiplied by the coefficients for their given HUC8 (Phoenix, Tucson, St. George, or rural) for each year to estimate tributary M&I Other water use.

While Las Vegas, NV and the surrounding cities are supplied mainstream water, these areas use groundwater (tributary water) in addition to mainstream Colorado River water. These areas were excluded from the tributary M&I Other calculations. Instead, M&I Other tributary water use by

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<sup>9</sup> The per capita consumptive use coefficient was based on available records from the USGS and used the population reported by the USGS to calculate the coefficient. U.S. Census population data were used in the final CUL calculation due to the availability and accuracy of the data over the full period of the report.

the Las Vegas, NV area was estimated using data from the Colorado River Commission of Nevada, the Nevada Division of Water Resources (State of Nevada, 2019), the Las Vegas Valley Water District (Las Vegas Valley Water District, 2021) and reports from the City of North Las Vegas (City of North Las Vegas, 2021). This groundwater use is reported as tributary consumptive use and is in addition to the mainstream consumptive use in the same location.

## **Irrigated Agriculture and Irrigated Acreage**

Estimates of irrigated agriculture consumptive use were made by 1) developing an agricultural field border Geographic Information Systems (GIS) layer, 2) determining the irrigation status of each field for each year, and 3) calculating the ET of each field using Operational Simplified Surface Energy Balance (SSEBop) (Senay et al., 2013) data provided by the USGS.<sup>10</sup> ET values were then summed by HUC8, reporting area, and state for irrigated fields.

A GIS layer of agricultural fields was created for each year using satellite images of maximum monthly and yearly Normalized Difference Vegetation Index (NDVI) data and higher resolution National Agriculture Imagery Program imagery, if available.

Irrigation status of each field was initially determined using a logistic regression equation based on known fallowed fields in the mainstream from 2000-2015 as part of Reclamation's Lower Colorado River Annual Summary of Evapotranspiration and Evaporation program (LCRAS). These equations were then applied to the CUL reporting area for a given year. Equations from 2008-2015 were used as an initial classification for previous years, followed by a manual quality assurance and verification process. During the quality assurance process, each field's NDVI data were checked against the model prediction to verify the field status. Additionally, each irrigated field was classified as being either flood or pivot irrigated based on the shape of the field.

The average ET within each field for each month, as determined from the SSEBop images, was multiplied by the acreage for each field to arrive at a consumptive use for the month.

Incidental use factors, which account for irrigation efficiency, were applied to each field and varied depending on their method of irrigation and year. ET was then summed to the HUC8, reporting area, and state scale.

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<sup>10</sup> ET values provided by the USGS subtracted effective precipitation from the gross ET values.

## New Mexico – Gila River

New Mexico reports consumptive use values for areas that drain to the Gila River within New Mexico.<sup>11</sup> The reported values from New Mexico were used where available and missing data were derived using averages, nearest values, or straight-line interpolations. Because New Mexico's report does not include irrigation using water rights granted in the 1935 Globe Decree, that consumptive use was added separately.<sup>12</sup> Areas located in New Mexico that drain to the Little Colorado River were calculated using the same methodology as the rest of the lower Colorado River System.

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<sup>11</sup> This includes the New Mexico portion of the Upper Gila (15040001), Upper Gila – Mangas (15040002), San Francisco (15040004), and San Simon (15040006) subbasins.

<sup>12</sup> Referring to the *Globe Equity No. 59: In the District Court of the United States, in and for the District of Arizona, the United States of America Vs. Gila Valley Irrigation District, Et Al.* Decree entered June 29, 1935. This data is reflected in the Upper Gila – Mangas HUC8 (15040002).

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## **Data Tables**

**Lower Colorado River System**  
**Colorado River Mainstream Estimated Reservoir Evaporation<sup>1</sup>**  
**1971-2005**

(1,000 acre-feet)

Net Evaporation						
Year	Mead	Mohave	Havasu	Senator Wash	Diversion Dams <sup>2</sup>	TOTAL
<b>1971</b>	669.1	141.3	134.7	2.0	26.3	973.4
<b>1972</b>	686.3	139.3	128.9	1.8	25.6	981.9
<b>1973</b>	777.4	134.4	132.3	1.9	25.9	1,071.9
<b>1974</b>	744.2	136.5	133.3	1.7	26.4	1,042.1
<b>1975</b>	770.8	140.3	135.7	2.1	26.3	1,075.2
<b>1976</b>	756.7	132.4	129.1	2.0	25.1	1,045.3
<b>1977</b>	769.9	138.6	132.6	1.9	25.8	1,068.8
<b>1978</b>	726.8	121.5	119.5	1.9	24.8	994.5
<b>1979</b>	820.2	131.1	127.6	2.2	25.4	1,106.5
<b>1980</b>	820.1	128.7	121.3	2.1	25.9	1,098.1
<b>1981</b>	823.9	136.4	130.6	2.3	26.1	1,119.3
<b>1982</b>	828.3	129.4	128.4	2.3	25.5	1,113.9
<b>1983</b>	863.7	125.3	122.3	2.1	25.2	1,138.6
<b>1984</b>	825.9	129.0	127.6	1.9	24.9	1,109.3
<b>1985</b>	905.1	141.6	129.7	1.9	25.8	1,204.1
<b>1986</b>	883.9	133.9	127.1	2.0	25.7	1,172.6
<b>1987</b>	854.1	135.1	134.6	2.0	25.8	1,151.6
<b>1988</b>	865.4	134.2	131.0	1.8	26.3	1,158.7
<b>1989</b>	847.7	145.2	136.3	2.1	26.4	1,157.7
<b>1990</b>	775.9	136.5	132.5	2.2	26.2	1,073.3
<b>1991</b>	740.7	133.3	129.9	2.2	25.7	1,031.8
<b>1992</b>	694.8	124.7	119.5	1.9	24.2	965.1
<b>1993</b>	783.4	125.1	125.6	1.8	25.1	1,061.0
<b>1994</b>	789.9	139.2	131.7	1.9	25.9	1,088.6
<b>1995</b>	783.4	138.4	130.9	1.8	26.2	1,080.7
<b>1996</b>	840.3	145.9	137.5	2.0	26.9	1,152.6
<b>1997</b>	867.1	139.7	130.3	1.7	25.3	1,164.1
<b>1998</b>	859.0	131.8	125.0	2.0	25.9	1,143.7
<b>1999</b>	893.1	143.2	135.2	2.1	26.4	1,200.0
<b>2000</b>	876.3	143.7	136.3	1.8	26.5	1,184.6
<b>2001</b>	784.6	140.5	132.4	1.8	25.9	1,085.2
<b>2002</b>	731.3	149.1	135.2	2.1	27.0	1,044.7
<b>2003</b>	628.1	139.6	130.5	1.8	26.1	926.1
<b>2004</b>	555.5	133.9	123.3	1.7	25.5	839.9
<b>2005</b>	585.3	131.5	120.8	2.1	25.8	865.5
<b>AVERAGE</b>	783.7	135.7	129.7	2.0	25.8	1,076.9

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes Headgate Rock, Palo Verde, Imperial, Laguna, and Morelos dams.

Lower Colorado River System  
Estimated Total Water Use by States and Types of Use<sup>1</sup>  
1971-1975

		(1,000 acre-feet)										
Year	State	Reservoir Evaporation <sup>2,3</sup>	Agriculture			Municipal and Industrial				Export <sup>5</sup>		TOTAL <sup>2,5</sup>
			Irrigated Agriculture	Stockpond Evaporation & Livestock <sup>3</sup>	Agriculture Subtotal	Mineral Resources <sup>3</sup>	Thermal Electric Power	Other <sup>4</sup>	Municipal and Industrial Other Subtotal	Outside System	Within System	
1971	Arizona	199.2	3,478.7	39.5	3,518.2	65.0	9.3	304.9	379.3	0.0	1.3	4,098.0
	California	0.0	477.6	0.0	477.6	0.0	0.0	4.6	4.6	4,650.6	0.0	5,132.9
	Nevada	4.4	54.9	1.1	56.1	1.5	8.4	84.1	94.0	0.0	(1.3)	153.1
	New Mexico	1.5	11.9	2.7	14.6	4.8	0.0	6.8	11.6	0.5	0.0	28.2
	Utah	1.6	30.8	0.7	31.4	0.0	0.0	6.0	6.0	1.5	0.0	40.5
	<b>TOTAL</b>		206.7	4,054.0	43.9	4,098.0	71.4	17.8	406.4	495.5	4,652.5	0.0
1972	Arizona	176.0	3,627.6	38.9	3,666.6	73.4	10.4	323.8	407.6	0.0	2.6	4,252.8
	California	0.0	456.0	0.0	456.0	0.0	0.0	4.6	4.6	4,689.4	0.0	5,150.0
	Nevada	4.4	60.8	1.2	61.9	1.6	14.3	90.9	106.7	0.0	(2.6)	170.5
	New Mexico	1.4	11.9	2.6	14.5	6.9	0.0	7.0	13.9	0.8	0.0	30.6
	Utah	1.7	34.1	0.7	34.7	0.0	0.0	6.3	6.3	2.2	0.0	44.8
	<b>TOTAL</b>		183.5	4,190.4	43.4	4,233.8	81.9	24.7	432.6	539.2	4,692.3	0.0
1973	Arizona	297.6	3,714.8	39.8	3,754.6	75.3	10.7	340.7	426.7	0.0	2.4	4,481.4
	California	0.0	485.6	0.0	485.6	0.0	0.0	4.8	4.8	4,740.4	0.0	5,230.8
	Nevada	4.3	61.6	1.2	62.8	1.6	15.0	97.4	114.0	0.0	(2.4)	178.6
	New Mexico	1.7	12.4	2.8	15.2	7.6	0.0	7.1	14.7	0.9	0.0	32.5
	Utah	1.5	34.5	0.6	35.2	0.0	0.0	6.7	6.7	6.4	0.0	49.7
	<b>TOTAL</b>		305.2	4,308.9	44.4	4,353.3	84.5	25.7	456.7	566.9	4,747.6	0.0
1974	Arizona	249.1	3,910.0	39.7	3,949.7	70.5	10.0	355.8	436.3	0.0	2.7	4,637.8
	California	0.0	472.0	0.0	472.0	0.0	0.0	4.5	4.5	4,852.6	0.0	5,329.1
	Nevada	4.5	78.7	1.2	79.9	3.1	15.9	102.9	121.9	0.0	(2.7)	203.7
	New Mexico	1.6	14.4	2.9	17.2	7.9	0.0	7.3	15.2	0.9	0.0	34.9
	Utah	1.8	45.3	0.7	45.9	0.0	0.0	7.2	7.2	0.6	0.0	55.5
	<b>TOTAL</b>		257.0	4,520.3	44.5	4,564.8	81.4	25.9	477.7	585.0	4,854.1	0.0
1975	Arizona	224.5	4,219.6	40.3	4,259.8	64.8	7.1	360.3	432.3	0.0	2.4	4,919.0
	California	0.0	469.3	0.0	469.3	0.0	0.0	4.6	4.6	4,420.5	0.0	4,894.4
	Nevada	4.5	84.3	1.2	85.5	3.7	16.7	132.2	152.5	0.0	(2.4)	240.1
	New Mexico	1.4	13.9	2.8	16.7	6.8	0.0	7.6	14.4	0.7	0.0	33.3
	Utah	1.7	48.5	0.7	49.1	0.0	0.0	7.5	7.5	3.1	0.0	61.4
	<b>TOTAL</b>		232.0	4,835.6	44.9	4,880.5	75.3	23.8	512.1	611.2	4,424.2	0.0

<sup>1</sup> Includes mainstream and tributary uses. Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes measured and unmeasured tributary reservoirs. Excludes reservoir evaporation from Colorado River mainstream reservoirs listed in Table LC-1.

<sup>3</sup> Includes only tributary values.

<sup>4</sup> Includes rural, urban, and other industrial uses.

<sup>5</sup> Does not include water delivered to Mexico and other water flowing to Mexico.

Lower Colorado River System  
Estimated Total Water Use by States and Types of Use<sup>1</sup>  
1976-1980

(1,000 acre-feet)												
Year	State	Reservoir Evaporation <sup>2,3</sup>	Agriculture			Municipal and Industrial				Export <sup>5</sup>		TOTAL <sup>2,5</sup>
			Irrigated Agriculture	Stockpond Evaporation & Livestock <sup>3</sup>	Agriculture Subtotal	Mineral Resources <sup>3</sup>	Thermal Electric Power	Other <sup>4</sup>	Municipal and Industrial Other Subtotal	Outside System	Within System	
1976	Arizona	200.9	3,877.9	40.2	3,918.0	79.3	7.1	369.5	455.9	0.0	2.9	4,577.7
	California	0.0	419.3	0.0	419.3	0.0	0.0	4.4	4.4	4,192.6	0.0	4,616.3
	Nevada	4.3	80.7	1.1	81.8	2.6	17.7	103.3	123.6	0.0	(2.9)	206.8
	New Mexico	1.7	15.0	3.0	18.0	5.4	0.0	8.0	13.3	0.8	0.0	33.8
	Utah	1.8	42.5	0.7	43.2	0.0	0.0	7.9	7.9	1.4	0.0	54.3
	<b>TOTAL</b>		208.6	4,435.3	45.0	4,480.3	87.2	24.8	493.1	605.1	4,194.9	0.0
1977	Arizona	164.1	3,908.0	40.6	3,948.5	71.5	8.9	383.7	464.1	0.0	2.8	4,579.6
	California	0.0	449.2	0.0	449.2	0.0	0.0	4.6	4.6	4,557.6	0.0	5,011.4
	Nevada	4.5	98.8	1.1	99.9	3.9	18.3	103.5	125.6	0.0	(2.8)	227.1
	New Mexico	1.6	13.3	2.9	16.2	5.5	0.0	8.2	13.7	0.8	0.0	32.2
	Utah	1.8	58.8	0.7	59.4	0.0	0.0	8.4	8.4	0.3	0.0	69.9
	<b>TOTAL</b>		172.0	4,528.0	45.2	4,573.2	80.9	27.2	508.4	616.4	4,558.7	0.0
1978	Arizona	248.6	3,638.2	37.4	3,675.6	75.0	10.8	399.8	485.6	0.0	2.1	4,411.9
	California	0.0	439.0	0.0	439.0	0.0	0.0	3.9	3.9	3,976.5	0.0	4,419.5
	Nevada	4.1	82.0	1.0	83.0	4.1	12.8	106.2	123.1	0.0	(2.1)	208.2
	New Mexico	1.4	14.8	2.8	17.6	5.5	0.0	8.4	13.9	0.8	0.0	33.6
	Utah	1.2	55.7	0.5	56.2	0.0	0.0	9.0	9.0	8.6	0.0	74.9
	<b>TOTAL</b>		255.2	4,229.7	41.7	4,271.4	84.6	23.6	527.3	635.6	3,985.9	0.0
1979	Arizona	446.6	3,739.5	40.2	3,779.6	79.8	12.1	415.0	507.0	0.0	2.4	4,735.6
	California	0.0	476.9	0.0	476.9	0.0	0.0	2.1	2.1	4,223.7	0.0	4,702.7
	Nevada	4.7	83.6	1.1	84.7	2.9	15.9	125.5	144.3	0.0	(2.4)	231.3
	New Mexico	1.5	8.4	2.9	11.3	5.5	0.0	8.6	14.2	0.8	0.0	27.8
	Utah	1.7	51.1	0.6	51.7	0.0	0.0	9.7	9.7	4.4	0.0	67.5
	<b>TOTAL</b>		454.5	4,359.5	44.8	4,404.3	88.3	28.0	560.9	677.1	4,228.9	0.0
1980	Arizona	408.3	3,960.2	39.2	3,999.5	65.3	13.9	428.4	507.6	0.0	2.5	4,917.9
	California	0.0	444.2	0.0	444.2	0.0	0.0	2.9	2.9	4,194.7	0.0	4,641.8
	Nevada	4.8	113.5	1.1	114.6	2.5	14.0	128.7	145.1	0.0	(2.5)	262.0
	New Mexico	1.7	12.9	3.2	16.1	5.6	0.0	8.8	14.4	0.8	0.0	33.0
	Utah	1.3	78.9	0.6	79.5	0.0	0.0	10.4	10.4	4.8	0.0	95.9
	<b>TOTAL</b>		416.2	4,609.8	44.1	4,653.8	73.3	27.9	579.2	680.4	4,200.3	0.0

<sup>1</sup> Includes mainstream and tributary uses. Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes measured and unmeasured tributary reservoirs. Excludes reservoir evaporation from Colorado River mainstream reservoirs listed in Table LC-1.

<sup>3</sup> Includes only tributary values.

<sup>4</sup> Includes rural, urban, and other industrial uses.

<sup>5</sup> Does not include water delivered to Mexico and other water flowing to Mexico.

Lower Colorado River System  
Estimated Total Water Use by States and Types of Use<sup>1</sup>  
1981-1985

		(1,000 acre-feet)										
Year	State	Reservoir Evaporation <sup>2,3</sup>	Agriculture			Municipal and Industrial				Export <sup>5</sup>		TOTAL <sup>2,5</sup>
			Irrigated Agriculture	Stockpond Evaporation & Livestock <sup>3</sup>	Agriculture Subtotal	Mineral Resources <sup>3</sup>	Thermal Electric Power	Other <sup>4</sup>	Municipal and Industrial Other Subtotal	Outside System	Within System	
1981	Arizona	245.8	4,340.1	39.6	4,379.7	61.1	20.6	443.0	524.8	0.0	2.8	5,153.1
	California	0.0	535.5	0.0	535.5	0.0	0.0	3.2	3.2	4,150.9	0.0	4,689.6
	Nevada	4.9	105.2	1.1	106.3	3.5	17.9	142.6	164.0	0.0	(2.8)	272.5
	New Mexico	1.6	12.8	2.9	15.7	7.2	0.0	8.9	16.1	1.0	0.0	34.3
	Utah	1.6	65.7	0.6	66.4	0.0	0.0	11.1	11.1	1.4	0.0	80.4
	<b>TOTAL</b>		253.9	5,059.3	44.3	5,103.6	71.9	38.5	608.8	719.1	4,153.2	0.0
1982	Arizona	201.6	3,693.6	37.7	3,731.3	78.9	19.9	453.0	551.8	0.0	3.3	4,488.0
	California	0.0	473.9	0.0	473.9	0.0	0.0	3.6	3.6	3,733.4	0.0	4,210.8
	Nevada	4.7	80.3	1.1	81.4	2.4	21.2	124.9	148.5	0.0	(3.3)	231.4
	New Mexico	1.4	12.2	3.3	15.5	4.7	0.0	8.7	13.4	0.8	0.0	31.0
	Utah	1.4	50.4	0.6	51.0	0.0	0.0	11.6	11.6	2.8	0.0	66.8
	<b>TOTAL</b>		209.1	4,310.3	42.7	4,353.0	86.0	41.1	601.8	728.9	3,737.0	0.0
1983	Arizona	294.9	3,718.5	36.8	3,755.3	53.8	16.4	467.5	537.6	0.0	3.1	4,590.9
	California	0.0	345.0	0.0	345.0	0.0	0.0	3.2	3.2	3,821.7	0.0	4,170.0
	Nevada	4.6	100.1	1.1	101.2	2.3	19.0	134.5	155.8	0.0	(3.1)	258.5
	New Mexico	1.3	9.8	3.1	12.9	5.8	0.0	9.0	14.7	0.9	0.0	29.8
	Utah	1.3	61.4	0.6	62.0	0.0	0.0	12.2	12.2	10.2	0.0	85.7
	<b>TOTAL</b>		302.1	4,234.9	41.5	4,276.4	61.9	35.3	626.4	723.6	3,832.8	0.0
1984	Arizona	255.6	3,487.4	38.1	3,525.5	59.6	18.5	487.3	565.4	0.0	2.9	4,349.4
	California	0.0	324.1	0.0	324.1	0.0	0.0	3.2	3.2	4,255.8	0.0	4,583.1
	Nevada	4.8	94.8	1.1	95.9	2.3	21.1	149.9	173.3	0.0	(2.9)	271.1
	New Mexico	1.4	10.2	3.2	13.5	5.2	0.0	9.1	14.3	0.5	0.0	29.6
	Utah	2.8	59.5	0.6	60.2	0.0	0.0	13.0	13.0	2.4	0.0	78.3
	<b>TOTAL</b>		264.6	3,976.1	43.0	4,019.1	67.1	39.6	662.5	769.2	4,258.7	0.0
1985	Arizona	288.8	3,891.8	38.7	3,930.5	95.7	24.3	508.1	628.0	0.0	1.8	4,849.1
	California	0.0	402.8	0.0	402.8	0.0	0.0	3.1	3.1	4,292.4	0.0	4,698.2
	Nevada	5.2	103.4	1.2	104.5	0.3	14.4	156.0	170.7	0.0	(1.8)	278.7
	New Mexico	1.3	8.7	3.1	11.8	12.1	0.0	9.3	21.4	1.0	0.0	35.5
	Utah	2.9	90.2	0.6	90.8	0.0	0.0	14.1	14.1	2.1	0.0	110.0
	<b>TOTAL</b>		298.2	4,496.9	43.6	4,540.5	108.1	38.6	690.6	837.4	4,295.4	0.0

<sup>1</sup> Includes mainstream and tributary uses. Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes measured and unmeasured tributary reservoirs. Excludes reservoir evaporation from Colorado River mainstream reservoirs listed in Table LC-1.

<sup>3</sup> Includes only tributary values.

<sup>4</sup> Includes rural, urban, and other industrial uses.

<sup>5</sup> Does not include water delivered to Mexico and other water flowing to Mexico.

Lower Colorado River System  
Estimated Total Water Use by States and Types of Use<sup>1</sup>  
1986-1990

		(1,000 acre-feet)										
Year	State	Agriculture			Municipal and Industrial				Export <sup>5</sup>		TOTAL <sup>2,5</sup>	
		Reservoir Evaporation <sup>2,3</sup>	Irrigated Agriculture	Stockpond Evaporation & Livestock <sup>3</sup>	Agriculture Subtotal	Mineral Resources <sup>3</sup>	Thermal Electric Power	Other <sup>4</sup>	Municipal and Industrial Other Subtotal	Outside System		Within System
1986	Arizona	223.2	3,885.0	38.8	3,923.7	111.1	38.6	525.8	675.5	0.0	3.1	4,825.6
	California	0.0	404.3	0.0	404.3	0.0	0.0	2.8	2.8	4,317.7	0.0	4,724.9
	Nevada	5.2	135.5	1.1	136.6	0.6	18.4	159.1	178.1	0.0	(3.1)	316.8
	New Mexico	1.2	9.6	3.1	12.7	9.4	0.0	9.3	18.7	0.7	0.0	33.4
	Utah	2.9	98.8	0.6	99.4	0.0	0.0	15.5	15.5	2.3	0.0	120.2
	<b>TOTAL</b>		232.6	4,533.2	43.6	4,576.9	121.1	57.1	712.5	890.6	4,320.8	0.0
1987	Arizona	232.5	3,695.8	38.9	3,734.7	126.7	47.3	544.9	718.9	0.0	2.7	4,688.8
	California	0.0	419.9	0.0	419.9	0.0	0.0	2.9	2.9	4,376.3	0.0	4,799.2
	Nevada	4.6	106.4	1.1	107.5	0.8	19.5	156.9	177.1	0.0	(2.7)	286.6
	New Mexico	1.4	9.0	3.2	12.2	9.4	0.0	9.3	18.8	0.3	0.0	32.6
	Utah	2.6	82.1	0.6	82.7	0.0	0.0	16.6	16.6	3.3	0.0	105.2
	<b>TOTAL</b>		241.2	4,313.2	43.8	4,357.0	136.9	66.8	730.6	934.3	4,379.9	0.0
1988	Arizona	220.1	3,745.1	38.7	3,783.8	142.2	72.0	560.3	774.4	0.0	2.8	4,781.2
	California	0.0	456.9	0.0	456.9	0.0	0.0	3.7	3.7	4,479.6	0.0	4,940.1
	Nevada	5.2	106.0	1.1	107.1	1.0	23.2	176.8	201.0	0.0	(2.8)	310.5
	New Mexico	1.4	7.4	3.0	10.5	8.0	0.0	9.2	17.2	0.3	0.0	29.4
	Utah	3.0	68.7	0.6	69.3	0.1	0.0	17.3	17.4	5.0	0.0	94.6
	<b>TOTAL</b>		229.7	4,384.1	43.5	4,427.6	151.3	95.2	767.2	1,013.6	4,484.9	0.0
1989	Arizona	210.3	3,717.9	40.0	3,757.9	157.7	43.1	572.2	773.1	0.0	2.4	4,743.7
	California	0.0	467.1	0.0	467.1	0.0	0.0	3.8	3.8	4,570.3	0.0	5,041.2
	Nevada	5.4	102.6	1.2	103.8	1.2	21.7	201.5	224.4	0.0	(2.4)	331.3
	New Mexico	1.7	9.6	3.5	13.1	8.1	0.0	9.3	17.4	1.0	0.0	33.2
	Utah	3.4	63.9	0.6	64.6	0.1	0.0	18.0	18.1	0.2	0.0	86.2
	<b>TOTAL</b>		220.8	4,361.2	45.3	4,406.4	167.2	64.9	804.8	1,036.8	4,571.4	0.0
1990	Arizona	131.5	3,720.0	37.0	3,757.0	173.2	68.8	581.5	823.5	0.0	2.4	4,714.4
	California	0.0	486.3	0.0	486.3	0.0	0.0	2.1	2.1	4,638.8	0.0	5,127.3
	Nevada	5.1	114.9	1.1	116.0	1.4	24.0	205.5	230.9	0.0	(2.4)	349.6
	New Mexico	1.4	9.3	3.2	12.5	7.3	0.0	9.4	16.7	0.6	0.0	31.1
	Utah	3.0	61.7	0.6	62.3	0.1	0.0	18.9	19.0	0.2	0.0	84.5
	<b>TOTAL</b>		140.9	4,392.3	41.8	4,434.2	182.1	92.8	817.4	1,092.2	4,639.7	0.0

<sup>1</sup> Includes mainstream and tributary uses. Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes measured and unmeasured tributary reservoirs. Excludes reservoir evaporation from Colorado River mainstream reservoirs listed in Table LC-1.

<sup>3</sup> Includes only tributary values.

<sup>4</sup> Includes rural, urban, and other industrial uses.

<sup>5</sup> Does not include water delivered to Mexico and other water flowing to Mexico.

Lower Colorado River System  
Estimated Total Water Use by States and Types of Use<sup>1</sup>  
1991-1995

		(1,000 acre-feet)										
Year	State	Agriculture				Municipal and Industrial				Export <sup>5</sup>		TOTAL <sup>2,5</sup>
		Reservoir Evaporation <sup>2,3</sup>	Irrigated Agriculture	Stockpond Evaporation & Livestock <sup>3</sup>	Agriculture Subtotal	Mineral Resources <sup>3</sup>	Thermal Electric Power	Other <sup>4</sup>	Municipal and Industrial Other Subtotal	Outside System	Within System	
1991	Arizona	204.5	3,678.0	36.6	3,714.7	173.4	79.2	600.5	853.1	0.0	2.8	4,775.0
	California	0.0	437.9	0.0	437.9	0.0	0.0	5.6	5.6	4,468.9	0.0	4,912.4
	Nevada	6.2	100.5	1.1	101.6	1.4	21.3	208.6	231.3	0.0	(2.8)	336.2
	New Mexico	1.5	9.4	3.1	12.5	6.0	0.0	9.7	15.7	0.5	0.0	30.2
	Utah	3.1	62.4	0.6	62.9	0.1	0.0	20.3	20.5	0.8	0.0	87.3
	<b>TOTAL</b>		215.2	4,288.2	41.4	4,329.6	181.0	100.4	844.7	1,126.1	4,470.2	0.0
1992	Arizona	170.6	3,945.3	34.1	3,979.4	173.7	84.8	621.2	879.7	0.0	2.7	5,032.3
	California	0.0	383.8	0.0	383.8	0.0	0.0	1.5	1.5	4,075.9	0.0	4,461.2
	Nevada	5.8	112.8	1.0	113.8	1.4	19.1	213.1	233.6	0.0	(2.7)	350.6
	New Mexico	1.4	7.8	3.1	10.9	4.3	0.0	10.0	14.2	0.3	0.0	26.8
	Utah	2.6	81.6	0.5	82.1	0.2	0.0	21.7	21.9	4.2	0.0	110.8
	<b>TOTAL</b>		180.4	4,531.3	38.7	4,570.0	179.5	103.9	867.5	1,151.0	4,080.4	0.0
1993	Arizona	356.0	3,783.4	34.7	3,818.0	173.9	79.1	653.2	906.1	0.0	2.6	5,082.7
	California	0.0	452.6	0.0	452.6	0.0	0.0	5.7	5.7	4,295.1	0.0	4,753.5
	Nevada	6.0	111.0	1.1	112.0	1.4	20.8	231.1	253.3	0.0	(2.6)	368.8
	New Mexico	1.4	10.1	3.2	13.2	3.3	0.0	10.1	13.4	0.4	0.0	28.5
	Utah	2.6	74.7	0.5	75.2	0.2	0.0	23.5	23.7	6.2	0.0	107.7
	<b>TOTAL</b>		366.1	4,431.7	39.4	4,471.1	178.8	99.9	923.5	1,202.2	4,301.7	0.0
1994	Arizona	226.4	4,065.4	36.4	4,101.8	174.1	82.4	686.1	942.6	0.0	2.8	5,273.7
	California	0.0	467.9	0.0	467.9	0.0	0.0	4.7	4.7	4,674.4	0.0	5,146.9
	Nevada	6.2	101.5	1.1	102.6	1.4	18.7	260.7	280.8	0.0	(2.8)	386.8
	New Mexico	1.5	8.0	3.1	11.2	4.8	0.0	10.3	15.1	0.6	0.0	28.4
	Utah	2.9	76.8	0.6	77.4	0.2	0.0	25.6	25.8	1.2	0.0	107.3
	<b>TOTAL</b>		237.1	4,719.7	41.2	4,760.9	180.5	101.1	987.4	1,269.0	4,676.2	0.0
1995	Arizona	293.8	4,404.8	37.0	4,441.8	174.3	84.1	714.4	972.8	0.0	3.0	5,711.4
	California	0.0	438.9	0.0	438.9	0.0	0.0	6.2	6.2	4,391.7	0.0	4,836.7
	Nevada	6.0	107.4	1.1	108.4	1.4	17.3	256.1	274.8	0.0	(3.0)	386.3
	New Mexico	1.7	10.0	3.4	13.4	6.2	0.0	10.6	16.8	0.4	0.0	32.4
	Utah	2.7	76.5	0.5	77.1	0.2	0.0	27.7	27.9	8.3	0.0	115.9
	<b>TOTAL</b>		304.2	5,037.6	42.0	5,079.6	182.1	101.4	1,015.1	1,298.6	4,400.4	0.0

<sup>1</sup> Includes mainstream and tributary uses. Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes measured and unmeasured tributary reservoirs. Excludes reservoir evaporation from Colorado River mainstream reservoirs listed in Table LC-1.

<sup>3</sup> Includes only tributary values.

<sup>4</sup> Includes rural, urban, and other industrial uses.

<sup>5</sup> Does not include water delivered to Mexico and other water flowing to Mexico.



Lower Colorado River System  
Estimated Total Water Use by States and Types of Use<sup>1</sup>  
1996-2000

		(1,000 acre-feet)										
Year	State	Reservoir Evaporation <sup>2,3</sup>	Agriculture			Municipal and Industrial				Export <sup>5</sup>		TOTAL <sup>2,5</sup>
			Irrigated Agriculture	Stockpond Evaporation & Livestock <sup>3</sup>	Agriculture Subtotal	Mineral Resources <sup>3</sup>	Thermal Electric Power	Other <sup>4</sup>	Municipal and Industrial Other Subtotal	Outside System	Within System	
1996	Arizona	235.2	4,274.6	38.0	4,312.6	162.8	90.8	734.0	987.7	0.0	2.8	5,538.2
	California	0.0	505.5	0.0	505.5	0.0	0.0	2.0	2.0	4,718.4	0.0	5,225.9
	Nevada	6.5	100.0	1.1	101.1	2.1	17.6	297.4	317.1	0.0	(2.8)	422.0
	New Mexico	1.6	8.7	3.2	11.9	6.0	0.0	10.8	16.8	0.8	0.0	31.0
	Utah	3.0	59.6	0.6	60.2	0.2	0.0	29.5	29.7	3.3	0.0	96.3
	<b>TOTAL</b>		246.3	4,948.4	42.9	4,991.2	171.0	108.4	1,073.8	1,353.2	4,722.5	0.0
1997	Arizona	186.9	3,867.0	36.6	3,903.6	151.4	93.9	755.1	1,000.4	0.0	2.9	5,093.8
	California	0.0	422.7	0.0	422.7	0.0	0.0	3.9	3.9	4,735.2	0.0	5,161.9
	Nevada	6.3	102.8	1.1	103.9	2.7	18.3	281.7	302.7	0.0	(2.9)	410.0
	New Mexico	1.4	10.2	3.1	13.3	4.6	0.0	10.9	15.4	0.9	0.0	31.1
	Utah	2.9	78.0	0.6	78.6	0.1	0.0	30.9	31.0	3.3	0.0	115.9
	<b>TOTAL</b>		197.5	4,480.8	41.3	4,522.1	158.8	112.2	1,082.5	1,353.5	4,739.5	0.0
1998	Arizona	200.3	3,906.4	36.2	3,942.5	139.9	98.0	776.3	1,014.1	0.0	2.8	5,159.8
	California	0.0	433.5	0.0	433.5	0.0	0.0	7.4	7.4	4,512.1	0.0	4,953.0
	Nevada	5.5	113.9	1.0	114.9	3.4	20.4	272.3	296.1	0.0	(2.8)	413.7
	New Mexico	1.5	12.1	3.2	15.2	5.4	0.0	11.0	16.4	0.8	0.0	33.9
	Utah	2.4	77.2	0.5	77.7	0.1	0.0	32.2	32.2	3.3	0.0	115.7
	<b>TOTAL</b>		209.7	4,543.0	40.8	4,583.9	148.7	118.4	1,099.1	1,366.2	4,516.3	0.0
1999	Arizona	211.0	3,642.7	38.1	3,680.8	128.4	101.1	797.8	1,027.4	0.0	2.9	4,922.0
	California	0.0	469.9	0.0	469.9	0.0	0.0	2.3	2.3	4,634.9	0.0	5,107.1
	Nevada	6.6	100.3	1.1	101.4	4.1	19.0	314.8	337.9	0.0	(2.9)	443.0
	New Mexico	1.7	11.6	3.1	14.7	3.2	0.0	11.0	14.2	0.9	0.0	31.5
	Utah	3.2	66.5	0.6	67.1	0.0	0.0	33.2	33.3	3.3	0.0	107.0
	<b>TOTAL</b>		222.5	4,291.1	42.8	4,333.9	135.7	120.2	1,159.1	1,415.0	4,639.1	0.0
2000	Arizona	191.2	3,493.4	37.8	3,531.2	117.0	105.4	824.9	1,047.3	0.0	3.1	4,772.9
	California	0.0	511.1	0.0	511.1	0.0	0.0	2.0	2.0	4,755.7	0.0	5,268.7
	Nevada	6.3	100.7	1.1	101.7	4.7	21.3	346.3	372.3	0.0	(3.1)	477.3
	New Mexico	1.7	12.4	3.0	15.5	3.5	0.0	11.1	14.6	1.0	0.0	32.8
	Utah	2.9	58.3	0.6	58.8	0.0	0.0	34.3	34.3	3.3	0.0	99.4
	<b>TOTAL</b>		202.2	4,175.9	42.4	4,218.3	125.1	126.7	1,218.6	1,470.5	4,760.0	0.0

<sup>1</sup> Includes mainstream and tributary uses. Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes measured and unmeasured tributary reservoirs. Excludes reservoir evaporation from Colorado River mainstream reservoirs listed in Table LC-1.

<sup>3</sup> Includes only tributary values.

<sup>4</sup> Includes rural, urban, and other industrial uses.

<sup>5</sup> Does not include water delivered to Mexico and other water flowing to Mexico.

Lower Colorado River System  
Estimated Total Water Use by States and Types of Use<sup>1</sup>  
2001-2005

		(1,000 acre-feet)										
Year	State	Reservoir Evaporation <sup>2,3</sup>	Agriculture			Municipal and Industrial				Export <sup>5</sup>		TOTAL <sup>2,5</sup>
			Irrigated Agriculture	Stockpond Evaporation & Livestock <sup>3</sup>	Agriculture Subtotal	Mineral Resources <sup>3</sup>	Thermal Electric Power	Other <sup>4</sup>	Municipal and Industrial Other Subtotal	Outside System	Within System	
2001	Arizona	222.1	3,642.7	38.4	3,681.1	112.5	96.6	823.8	1,032.9	0.0	3.1	4,939.2
	California	0.0	499.9	0.0	499.9	0.0	0.0	3.1	3.1	4,665.5	0.0	5,168.5
	Nevada	6.5	102.8	1.1	103.8	4.5	20.1	352.5	377.2	0.0	(3.1)	484.3
	New Mexico	1.5	9.4	3.1	12.5	3.4	0.0	10.9	14.3	0.6	0.0	28.9
	Utah	3.1	69.7	0.6	70.3	0.0	0.0	34.5	34.5	3.3	0.0	111.2
	<b>TOTAL</b>		233.2	4,324.5	43.1	4,367.6	120.5	116.7	1,224.7	1,461.9	4,669.5	0.0
2002	Arizona	214.2	3,531.2	40.0	3,571.2	108.2	97.9	828.8	1,034.9	0.0	3.2	4,823.6
	California	0.0	551.4	0.0	551.4	0.0	0.0	2.0	2.0	4,722.1	0.0	5,275.6
	Nevada	7.1	99.3	1.1	100.4	4.4	20.1	387.2	411.7	0.0	(3.2)	515.9
	New Mexico	1.6	11.6	2.8	14.3	4.0	0.0	10.4	14.4	0.7	0.0	31.1
	Utah	7.3	53.1	0.6	53.7	0.0	0.0	34.7	34.7	3.3	0.0	99.0
	<b>TOTAL</b>		230.2	4,246.6	44.5	4,291.1	116.5	118.1	1,263.2	1,497.7	4,726.2	0.0
2003	Arizona	187.5	3,561.2	39.3	3,600.5	103.8	105.8	834.0	1,043.5	0.0	3.1	4,834.6
	California	0.0	447.0	0.0	447.0	0.0	0.0	3.0	3.0	3,958.8	0.0	4,408.8
	Nevada	6.6	101.8	1.0	102.9	4.2	19.7	334.4	358.2	0.0	(3.1)	464.6
	New Mexico	1.7	13.6	3.6	17.1	3.9	0.0	10.1	14.0	0.5	0.0	33.3
	Utah	6.6	61.3	0.6	61.8	0.0	0.0	34.9	34.9	3.3	0.0	106.7
	<b>TOTAL</b>		202.4	4,184.9	44.4	4,229.3	111.8	125.4	1,216.4	1,453.6	3,962.6	0.0
2004	Arizona	191.1	3,470.0	38.9	3,508.9	99.3	112.9	839.6	1,051.8	0.0	3.0	4,754.8
	California	0.0	475.9	0.0	475.9	0.0	0.0	3.4	3.4	3,836.9	0.0	4,316.3
	Nevada	6.1	100.0	1.0	101.0	4.0	20.1	329.4	353.5	0.0	(3.0)	457.5
	New Mexico	1.5	12.8	3.3	16.1	2.9	0.0	9.9	12.8	0.5	0.0	30.9
	Utah	5.5	59.5	0.5	60.0	0.0	0.0	35.5	35.5	3.3	0.0	104.4
	<b>TOTAL</b>		204.2	4,118.2	43.7	4,161.9	106.3	132.9	1,217.8	1,457.0	3,840.8	0.0
2005	Arizona	293.3	3,631.7	39.5	3,671.2	94.9	112.6	845.1	1,052.6	0.0	3.1	5,020.2
	California	0.0	388.8	0.0	388.8	0.0	0.0	3.7	3.7	3,936.9	0.0	4,329.3
	Nevada	6.1	112.2	1.0	113.2	3.8	20.2	327.6	351.6	0.0	(3.1)	467.8
	New Mexico	1.6	12.9	2.8	15.8	4.0	0.0	9.6	13.6	0.4	0.0	31.3
	Utah	5.4	77.4	0.5	77.9	0.0	0.0	36.4	36.4	3.3	0.0	123.0
	<b>TOTAL</b>		306.3	4,223.0	43.8	4,266.8	102.8	132.8	1,222.4	1,458.0	3,940.6	0.0

<sup>1</sup> Includes mainstream and tributary uses. Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes measured and unmeasured tributary reservoirs. Excludes reservoir evaporation from Colorado River mainstream reservoirs listed in Table LC-1.

<sup>3</sup> Includes only tributary values.

<sup>4</sup> Includes rural, urban, and other industrial uses.

<sup>5</sup> Does not include water delivered to Mexico and other water flowing to Mexico.

**Lower Colorado River System**  
**Colorado River Mainstream Water Use and Exports Within States and to Mexico<sup>1</sup>**  
**1971-1975**

(1,000 acre-feet)

Year	State	Mainstream Consumptive Use <sup>2</sup>					TOTAL <sup>3</sup>	Mexico			Total Colorado River Mainstream and Mexico <sup>8</sup>
		Irrigated Agriculture	Municipal and Industrial Other	Thermal Electric Power	Within System Exports	Outside System Exports		Deliveries to Mexico in Satisfaction of Treaty <sup>4,5</sup>	Water Bypassed Pursuant to Minutes 218, 241 and 242 <sup>6</sup>	To Mexico in Excess of Treaty <sup>7</sup>	
1971	Arizona	1,169.7	14.3	0.0	0.0	0.0	1,184.1	-	-	-	-
	California	477.6	4.5	0.0	0.0	4,650.6	5,132.8	-	-	-	-
	Nevada	0.0	45.1	5.4	0.0	0.0	50.5	-	-	-	-
	<b>TOTAL</b>	<b>1,647.4</b>	<b>64.0</b>	<b>5.4</b>	<b>0.0</b>	<b>4,650.6</b>	<b>6,367.4</b>	<b>1,500.0</b>	<b>55.2</b>	<b>6.4</b>	<b>7,922.6</b>
1972	Arizona	1,072.7	16.5	0.0	0.0	0.0	1,089.2	-	-	-	-
	California	456.0	4.5	0.0	0.0	4,689.4	5,150.0	-	-	-	-
	Nevada	0.0	69.8	11.2	0.0	0.0	81.0	-	-	-	-
	<b>TOTAL</b>	<b>1,528.8</b>	<b>90.8</b>	<b>11.2</b>	<b>0.0</b>	<b>4,689.4</b>	<b>6,320.1</b>	<b>1,500.0</b>	<b>86.3</b>	<b>26.2</b>	<b>7,906.4</b>
1973	Arizona	1,126.2	16.2	0.0	0.0	0.0	1,142.4	-	-	-	-
	California	485.6	4.7	0.0	0.0	4,740.4	5,230.7	-	-	-	-
	Nevada	0.0	80.4	12.2	0.0	0.0	92.6	-	-	-	-
	<b>TOTAL</b>	<b>1,611.8</b>	<b>101.3</b>	<b>12.2</b>	<b>0.0</b>	<b>4,740.4</b>	<b>6,465.7</b>	<b>1,500.0</b>	<b>119.1</b>	<b>5.3</b>	<b>8,084.8</b>
1974	Arizona	1,181.3	17.6	0.0	0.0	0.0	1,198.8	-	-	-	-
	California	472.0	4.4	0.0	0.0	4,852.6	5,329.1	-	-	-	-
	Nevada	0.0	81.4	13.4	0.0	0.0	94.8	-	-	-	-
	<b>TOTAL</b>	<b>1,653.3</b>	<b>103.4</b>	<b>13.4</b>	<b>0.0</b>	<b>4,852.6</b>	<b>6,622.8</b>	<b>1,500.0</b>	<b>159.2</b>	<b>5.5</b>	<b>8,281.9</b>
1975	Arizona	1,217.1	12.7	0.0	0.0	0.0	1,229.8	-	-	-	-
	California	469.3	4.5	0.0	0.0	4,420.5	4,894.3	-	-	-	-
	Nevada	0.0	86.8	14.4	0.0	0.0	101.2	-	-	-	-
	<b>TOTAL</b>	<b>1,686.5</b>	<b>103.9</b>	<b>14.4</b>	<b>0.0</b>	<b>4,420.5</b>	<b>6,225.3</b>	<b>1,500.0</b>	<b>214.7</b>	<b>11.7</b>	<b>7,940.0</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> All water users on the mainstream were categorized into one or more of the following categories: irrigated agriculture, municipal and industrial, thermal electric power, within system export or outside system exports. Of the available categories, the category or categories that most closely represented the user was chosen. Exported water is not assigned a more specific use category.

<sup>3</sup> Does not include evaporation from mainstream reservoirs listed in Table LC-1.

<sup>4</sup> Referring to *Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande Treaty between the United States of America and Mexico*, signed on February 3, 1944.

<sup>5</sup> Water delivered to Mexico pursuant to their approved monthly schedule. May increase or decrease from the Treaty allotment of 1,500,000 acre-feet due to surplus or shortage conditions, and the creation and delivery of water deferred by Mexico and stored in Lake Mead.

<sup>6</sup> Prior to implementation of *Minute No. 242, Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River* (Minute 242), signed on August 30, 1973, bypassed volumes were made pursuant to *Minute No. 218 Recommendations on the Colorado River Salinity Problem* signed on March 22, 1965 in 1971 and 1972, and pursuant to *Minute No. 241 Recommendations to Improve Immediately the Quality of Colorado River Waters Going to Mexico*, signed on July 14, 1972 in 1973 and 1974. Starting in 1975 volumes were bypassed pursuant to Minute 242.

<sup>7</sup> Water passing to Mexico in excess of Mexico's approved monthly schedule.

<sup>8</sup> Does not include volumes in column "To Mexico in Excess of Treaty".

**Lower Colorado River System**  
**Colorado River Mainstream Water Use and Exports Within States and to Mexico<sup>1</sup>**  
**1976-1980**

(1,000 acre-feet)

Year	State	Mainstream Consumptive Use <sup>2</sup>					TOTAL <sup>3</sup>	Mexico			Total Colorado River Mainstream and Mexico <sup>8</sup>
		Irrigated Agriculture	Municipal and Industrial Other	Thermal Electric Power	Within System Exports	Outside System Exports		Deliveries to Mexico in Satisfaction of Treaty <sup>4,5</sup>	Water Bypassed Pursuant to Minute 242 <sup>6</sup>	To Mexico in Excess of Treaty <sup>7</sup>	
1976	Arizona	1,112.5	12.3	0.0	0.0	0.0	1,124.8	-	-	-	-
	California	419.3	4.3	0.0	0.0	4,192.6	4,616.2	-	-	-	-
	Nevada	0.0	58.4	14.7	0.0	0.0	73.1	-	-	-	-
	<b>TOTAL</b>	<b>1,531.8</b>	<b>75.0</b>	<b>14.7</b>	<b>0.0</b>	<b>4,192.6</b>	<b>5,814.2</b>	<b>1,500.0</b>	<b>205.4</b>	<b>68.8</b>	<b>7,519.6</b>
1977	Arizona	1,091.2	14.2	0.0	0.0	0.0	1,105.4	-	-	-	-
	California	449.2	4.6	0.0	0.0	4,557.6	5,011.4	-	-	-	-
	Nevada	0.0	58.8	14.3	0.0	0.0	73.1	-	-	-	-
	<b>TOTAL</b>	<b>1,540.4</b>	<b>77.6</b>	<b>14.3</b>	<b>0.0</b>	<b>4,557.6</b>	<b>6,189.9</b>	<b>1,500.0</b>	<b>206.8</b>	<b>70.6</b>	<b>7,896.7</b>
1978	Arizona	1,099.5	15.5	0.0	0.0	0.0	1,115.1	-	-	-	-
	California	439.0	3.8	0.0	0.0	3,976.5	4,419.4	-	-	-	-
	Nevada	0.0	62.2	9.1	0.0	0.0	71.2	-	-	-	-
	<b>TOTAL</b>	<b>1,538.5</b>	<b>81.5</b>	<b>9.1</b>	<b>0.0</b>	<b>3,976.5</b>	<b>5,605.7</b>	<b>1,500.0</b>	<b>182.0</b>	<b>44.4</b>	<b>7,287.7</b>
1979	Arizona	1,006.7	14.5	0.0	0.0	0.0	1,021.2	-	-	-	-
	California	476.9	2.0	0.0	0.0	4,223.7	4,702.6	-	-	-	-
	Nevada	0.0	76.8	11.9	0.0	0.0	88.8	-	-	-	-
	<b>TOTAL</b>	<b>1,483.6</b>	<b>93.3</b>	<b>11.9</b>	<b>0.0</b>	<b>4,223.7</b>	<b>5,812.5</b>	<b>1,700.0</b>	<b>178.0</b>	<b>1,467.4</b>	<b>7,690.5</b>
1980	Arizona	1,061.9	15.5	0.0	0.0	0.0	1,077.4	-	-	-	-
	California	444.2	2.8	0.0	0.0	4,194.7	4,641.7	-	-	-	-
	Nevada	0.0	82.2	10.2	0.0	0.0	92.4	-	-	-	-
	<b>TOTAL</b>	<b>1,506.1</b>	<b>100.5</b>	<b>10.2</b>	<b>0.0</b>	<b>4,194.7</b>	<b>5,811.5</b>	<b>1,700.0</b>	<b>154.6</b>	<b>5,340.6</b>	<b>7,666.1</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> All water users on the mainstream were categorized into one or more of the following categories: irrigated agriculture, municipal and industrial, thermal electric power, within system export or outside system exports. Of the available categories, the category or categories that most closely represented the user was chosen. Exported water is not assigned a more specific use category.

<sup>3</sup> Does not include evaporation from mainstream reservoirs listed in Table LC-1.

<sup>4</sup> Referring to *Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande Treaty between the United States of America and Mexico*, signed on February 3, 1944.

<sup>5</sup> Water delivered to Mexico pursuant to their approved monthly schedule. May increase or decrease from the Treaty allotment of 1,500,000 acre-feet due to surplus or shortage conditions, and the creation and delivery of water deferred by Mexico and stored in Lake Mead.

<sup>6</sup> Referring to water bypassed pursuant to *Minute Number 242, Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River*, signed on August 30, 1973.

<sup>7</sup> Water passing to Mexico in excess of Mexico's approved monthly schedule.

<sup>8</sup> Does not include volumes in column "To Mexico in Excess of Treaty".

**Lower Colorado River System**  
**Colorado River Mainstream Water Use and Exports Within States and to Mexico<sup>1</sup>**  
**1981-1985**

(1,000 acre-feet)

Year	State	Mainstream Consumptive Use <sup>2</sup>					TOTAL <sup>3</sup>	Mexico			Total Colorado River Mainstream and Mexico <sup>8</sup>
		Irrigated Agriculture	Municipal and Industrial Other	Thermal Electric Power	Within System Exports	Outside System Exports		Deliveries to Mexico in Satisfaction of Treaty <sup>4,5</sup>	Water Bypassed Pursuant to Minute 242 <sup>6</sup>	To Mexico in Excess of Treaty <sup>7</sup>	
1981	Arizona	1,245.9	16.7	0.0	0.0	0.0	1,262.5	-	-	-	-
	California	535.5	3.1	0.0	0.0	4,150.9	4,689.4	-	-	-	-
	Nevada	0.0	96.0	14.0	0.0	0.0	109.9	-	-	-	-
	<b>TOTAL</b>	<b>1,781.3</b>	<b>115.7</b>	<b>14.0</b>	<b>0.0</b>	<b>4,150.9</b>	<b>6,061.9</b>	<b>1,700.0</b>	<b>148.4</b>	<b>342.5</b>	<b>7,910.3</b>
1982	Arizona	1,085.9	14.6	0.0	0.0	0.0	1,100.5	-	-	-	-
	California	473.9	3.5	0.0	0.0	3,733.4	4,210.7	-	-	-	-
	Nevada	0.0	85.0	17.3	0.0	0.0	102.3	-	-	-	-
	<b>TOTAL</b>	<b>1,559.8</b>	<b>103.0</b>	<b>17.3</b>	<b>0.0</b>	<b>3,733.4</b>	<b>5,413.5</b>	<b>1,500.0</b>	<b>149.7</b>	<b>49.3</b>	<b>7,063.2</b>
1983	Arizona	924.6	16.3	0.0	0.0	0.0	940.9	-	-	-	-
	California	345.0	3.1	0.0	0.0	3,821.7	4,169.9	-	-	-	-
	Nevada	0.0	71.8	14.7	0.0	0.0	86.5	-	-	-	-
	<b>TOTAL</b>	<b>1,269.6</b>	<b>91.3</b>	<b>14.7</b>	<b>0.0</b>	<b>3,821.7</b>	<b>5,197.3</b>	<b>1,700.0</b>	<b>169.6</b>	<b>12,459.7</b>	<b>7,066.9</b>
1984	Arizona	1,011.9	20.5	0.0	0.0	0.0	1,032.4	-	-	-	-
	California	324.1	3.1	0.0	0.0	4,255.8	4,583.0	-	-	-	-
	Nevada	0.0	87.2	14.2	0.0	0.0	101.4	-	-	-	-
	<b>TOTAL</b>	<b>1,335.9</b>	<b>110.7</b>	<b>14.2</b>	<b>0.0</b>	<b>4,255.8</b>	<b>5,716.7</b>	<b>1,700.0</b>	<b>125.6</b>	<b>13,843.0</b>	<b>7,542.3</b>
1985	Arizona	1,050.7	23.1	0.0	33.5	0.0	1,107.3	-	-	-	-
	California	402.8	3.0	0.0	0.0	4,292.4	4,698.1	-	-	-	-
	Nevada	0.0	95.4	6.3	0.0	0.0	101.6	-	-	-	-
	<b>TOTAL</b>	<b>1,453.5</b>	<b>121.4</b>	<b>6.3</b>	<b>33.5</b>	<b>4,292.4</b>	<b>5,907.1</b>	<b>1,700.0</b>	<b>129.7</b>	<b>10,111.0</b>	<b>7,736.8</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> All water users on the mainstream were categorized into one or more of the following categories: irrigated agriculture, municipal and industrial, thermal electric power, within system export or outside system exports. Of the available categories, the category or categories that most closely represented the user was chosen. Exported water is not assigned a more specific use category.

<sup>3</sup> Does not include evaporation from mainstream reservoirs listed in Table LC-1.

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<sup>6</sup> Referring to water bypassed pursuant to *Minute Number 242, Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River*, signed on August 30, 1973.

<sup>7</sup> Water passing to Mexico in excess of Mexico's approved monthly schedule.

<sup>8</sup> Does not include volumes in column "To Mexico in Excess of Treaty".

**Lower Colorado River System**  
**Colorado River Mainstream Water Use and Exports Within States and to Mexico<sup>1</sup>**  
**1986-1990**

(1,000 acre-feet)

Year	State	Mainstream Consumptive Use <sup>2</sup>					TOTAL <sup>3</sup>	Mexico			Total Colorado River Mainstream and Mexico <sup>8</sup>
		Irrigated Agriculture	Municipal and Industrial Other	Thermal Electric Power	Within System Exports	Outside System Exports		Deliveries to Mexico in Satisfaction of Treaty <sup>4,5</sup>	Water Bypassed Pursuant to Minute 242 <sup>6</sup>	To Mexico in Excess of Treaty <sup>7</sup>	
1986	Arizona	1,097.9	21.7	0.0	107.6	0.0	1,227.3	-	-	-	-
	California	404.3	2.7	0.0	0.0	4,317.7	4,724.7	-	-	-	-
	Nevada	0.0	98.9	13.3	0.0	0.0	112.1	-	-	-	-
	<b>TOTAL</b>	<b>1,502.3</b>	<b>123.2</b>	<b>13.3</b>	<b>107.6</b>	<b>4,317.7</b>	<b>6,064.1</b>	<b>1,700.0</b>	<b>110.0</b>	<b>9,113.7</b>	<b>7,874.2</b>
1987	Arizona	1,175.6	22.3	0.0	354.6	0.0	1,552.5	-	-	-	-
	California	419.9	2.8	0.0	0.0	4,376.3	4,799.1	-	-	-	-
	Nevada	0.0	95.2	13.7	0.0	0.0	108.8	-	-	-	-
	<b>TOTAL</b>	<b>1,595.6</b>	<b>120.3</b>	<b>13.7</b>	<b>354.6</b>	<b>4,376.3</b>	<b>6,460.4</b>	<b>1,700.0</b>	<b>97.7</b>	<b>2,946.5</b>	<b>8,258.1</b>
1988	Arizona	1,206.5	23.4	0.0	499.3	0.0	1,729.3	-	-	-	-
	California	456.9	3.5	0.0	0.0	4,479.6	4,940.0	-	-	-	-
	Nevada	0.0	112.9	16.0	0.0	0.0	128.9	-	-	-	-
	<b>TOTAL</b>	<b>1,663.4</b>	<b>139.8</b>	<b>16.0</b>	<b>499.3</b>	<b>4,479.6</b>	<b>6,798.2</b>	<b>1,700.0</b>	<b>128.2</b>	<b>630.7</b>	<b>8,626.3</b>
1989	Arizona	1,236.7	24.4	0.0	759.0	0.0	2,020.1	-	-	-	-
	California	467.1	3.7	0.0	0.0	4,570.3	5,041.0	-	-	-	-
	Nevada	0.0	138.2	14.3	0.0	0.0	152.5	-	-	-	-
	<b>TOTAL</b>	<b>1,703.8</b>	<b>166.3</b>	<b>14.3</b>	<b>759.0</b>	<b>4,570.3</b>	<b>7,213.6</b>	<b>1,500.0</b>	<b>138.6</b>	<b>89.6</b>	<b>8,852.3</b>
1990	Arizona	1,292.9	24.4	0.0	779.1	0.0	2,096.3	-	-	-	-
	California	486.3	2.0	0.0	0.0	4,638.8	5,127.1	-	-	-	-
	Nevada	0.0	150.0	17.3	0.0	0.0	167.3	-	-	-	-
	<b>TOTAL</b>	<b>1,779.2</b>	<b>176.5</b>	<b>17.3</b>	<b>779.1</b>	<b>4,638.8</b>	<b>7,390.8</b>	<b>1,500.0</b>	<b>133.7</b>	<b>42.0</b>	<b>9,024.5</b>

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<sup>7</sup> Water passing to Mexico in excess of Mexico's approved monthly schedule.

<sup>8</sup> Does not include volumes in column "To Mexico in Excess of Treaty".

**Lower Colorado River System**  
**Colorado River Mainstream Water Use and Exports Within States and to Mexico<sup>1</sup>**  
**1991-1995**

(1,000 acre-feet)

Year	State	Mainstream Consumptive Use <sup>2</sup>					Mexico			Total Colorado River Mainstream and Mexico <sup>8</sup>	
		Irrigated Agriculture	Municipal and Industrial Other	Thermal Electric Power	Within System Exports	Outside System Exports	TOTAL <sup>3</sup>	Deliveries to Mexico in Satisfaction of Treaty <sup>4,5</sup>	Water Bypassed Pursuant to Minute 242 <sup>6</sup>		To Mexico in Excess of Treaty <sup>7</sup>
1991	Arizona	1,220.8	25.3	0.0	453.8	0.0	1,700.0	-	-	-	-
	California	437.9	5.4	0.0	0.0	4,468.9	4,912.2	-	-	-	-
	Nevada	0.0	149.3	14.8	0.0	0.0	164.2	-	-	-	-
	<b>TOTAL</b>	<b>1,658.8</b>	<b>180.0</b>	<b>14.8</b>	<b>453.8</b>	<b>4,468.9</b>	<b>6,776.3</b>	<b>1,500.0</b>	<b>140.7</b>	<b>20.9</b>	<b>8,417.0</b>
1992	Arizona	1,121.5	26.2	0.0	592.1	0.0	1,739.9	-	-	-	-
	California	383.8	1.4	0.0	0.0	4,075.9	4,461.1	-	-	-	-
	Nevada	0.0	146.6	13.9	0.0	0.0	160.6	-	-	-	-
	<b>TOTAL</b>	<b>1,505.4</b>	<b>174.2</b>	<b>13.9</b>	<b>592.1</b>	<b>4,075.9</b>	<b>6,361.5</b>	<b>1,500.0</b>	<b>101.1</b>	<b>80.7</b>	<b>7,962.6</b>
1993	Arizona	1,019.0	34.5	0.0	1,024.8	0.0	2,078.3	-	-	-	-
	California	452.6	5.6	0.0	0.0	4,295.1	4,753.3	-	-	-	-
	Nevada	0.0	165.0	14.8	0.0	0.0	179.9	-	-	-	-
	<b>TOTAL</b>	<b>1,471.6</b>	<b>205.1</b>	<b>14.8</b>	<b>1,024.8</b>	<b>4,295.1</b>	<b>7,011.5</b>	<b>1,500.0</b>	<b>61.4</b>	<b>3,692.8</b>	<b>8,572.9</b>
1994	Arizona	1,305.9	39.8	0.0	731.6	0.0	2,077.3	-	-	-	-
	California	467.9	4.5	0.0	0.0	4,674.4	5,146.8	-	-	-	-
	Nevada	0.0	191.6	14.0	0.0	0.0	205.6	-	-	-	-
	<b>TOTAL</b>	<b>1,773.8</b>	<b>236.0</b>	<b>14.0</b>	<b>731.6</b>	<b>4,674.4</b>	<b>7,429.7</b>	<b>1,500.0</b>	<b>124.4</b>	<b>25.5</b>	<b>9,054.2</b>
1995	Arizona	1,216.1	40.7	0.0	785.3	0.0	2,042.0	-	-	-	-
	California	438.9	6.1	0.0	0.0	4,391.7	4,836.6	-	-	-	-
	Nevada	0.0	187.9	13.3	0.0	0.0	201.2	-	-	-	-
	<b>TOTAL</b>	<b>1,655.0</b>	<b>234.7</b>	<b>13.3</b>	<b>785.3</b>	<b>4,391.7</b>	<b>7,079.8</b>	<b>1,500.0</b>	<b>125.5</b>	<b>212.3</b>	<b>8,705.3</b>

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<sup>7</sup> Water passing to Mexico in excess of Mexico's approved monthly schedule.

<sup>8</sup> Does not include volumes in column "To Mexico in Excess of Treaty".

**Lower Colorado River System**  
**Colorado River Mainstream Water Use and Exports Within States and to Mexico<sup>1</sup>**  
**1996-2000**

(1,000 acre-feet)

Year	State	Mainstream Consumptive Use <sup>2</sup>					TOTAL <sup>3</sup>	Mexico			Total Colorado River Mainstream and Mexico <sup>8</sup>
		Irrigated Agriculture	Municipal and Industrial Other	Thermal Electric Power	Within System Exports	Outside System Exports		Deliveries to Mexico in Satisfaction of Treaty <sup>4,5</sup>	Water Bypassed Pursuant to Minute 242 <sup>6</sup>	To Mexico in Excess of Treaty <sup>7</sup>	
1996	Arizona	1,311.3	36.8	0.0	1,196.1	0.0	2,544.1	-	-	-	-
	California	505.5	1.9	0.0	0.0	4,718.4	5,225.7	-	-	-	-
	Nevada	0.1	224.1	13.1	0.0	0.0	237.4	-	-	-	-
	<b>TOTAL</b>	<b>1,816.9</b>	<b>262.8</b>	<b>13.1</b>	<b>1,196.1</b>	<b>4,718.4</b>	<b>8,007.2</b>	<b>1,500.0</b>	<b>112.4</b>	<b>5.3</b>	<b>9,619.6</b>
1997	Arizona	1,250.4	35.1	0.0	1,413.9	0.0	2,699.4	-	-	-	-
	California	422.7	3.9	0.0	0.0	4,735.2	5,161.8	-	-	-	-
	Nevada	1.5	208.7	13.1	0.0	0.0	223.4	-	-	-	-
	<b>TOTAL</b>	<b>1,674.6</b>	<b>247.6</b>	<b>13.1</b>	<b>1,413.9</b>	<b>4,735.2</b>	<b>8,084.5</b>	<b>1,700.0</b>	<b>89.2</b>	<b>1,172.5</b>	<b>9,873.6</b>
1998	Arizona	1,157.7	34.0	0.0	1,228.2	0.0	2,419.9	-	-	-	-
	California	433.5	7.3	0.0	0.0	4,512.1	4,952.9	-	-	-	-
	Nevada	1.6	202.5	12.9	0.0	0.0	216.9	-	-	-	-
	<b>TOTAL</b>	<b>1,592.9</b>	<b>243.7</b>	<b>12.9</b>	<b>1,228.2</b>	<b>4,512.1</b>	<b>7,589.8</b>	<b>1,700.0</b>	<b>113.8</b>	<b>3,018.4</b>	<b>9,403.6</b>
1999	Arizona	1,154.6	35.4	0.0	1,388.2	0.0	2,578.2	-	-	-	-
	California	469.9	2.2	0.0	0.0	4,634.9	5,107.0	-	-	-	-
	Nevada	3.3	241.7	12.1	0.0	0.0	257.2	-	-	-	-
	<b>TOTAL</b>	<b>1,627.9</b>	<b>279.4</b>	<b>12.1</b>	<b>1,388.2</b>	<b>4,634.9</b>	<b>7,942.4</b>	<b>1,700.0</b>	<b>78.7</b>	<b>1,194.1</b>	<b>9,721.1</b>
2000	Arizona	1,172.4	44.6	0.0	1,424.2	0.0	2,641.1	-	-	-	-
	California	511.1	1.9	0.0	0.0	4,755.7	5,268.6	-	-	-	-
	Nevada	4.3	272.3	13.4	0.0	0.0	290.1	-	-	-	-
	<b>TOTAL</b>	<b>1,687.8</b>	<b>318.8</b>	<b>13.4</b>	<b>1,424.2</b>	<b>4,755.7</b>	<b>8,199.8</b>	<b>1,700.0</b>	<b>107.4</b>	<b>337.1</b>	<b>10,007.2</b>

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<sup>3</sup> Does not include evaporation from mainstream reservoirs listed in Table LC-1.

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<sup>7</sup> Water passing to Mexico in excess of Mexico's approved monthly schedule.

<sup>8</sup> Does not include volumes in column "To Mexico in Excess of Treaty".



**Lower Colorado River System**  
**Colorado River Mainstream Water Use and Exports Within States and to Mexico<sup>1</sup>**  
**2001-2005**

(1,000 acre-feet)

Year	State	Mainstream Consumptive Use <sup>2</sup>					Mexico			Total Colorado River Mainstream and Mexico <sup>8</sup>	
		Irrigated Agriculture	Municipal and Industrial Other	Thermal Electric Power	Within System Exports	Outside System Exports	TOTAL <sup>3</sup>	Deliveries to Mexico in Satisfaction of Treaty <sup>4,5</sup>	Water Bypassed Pursuant to Minute 242 <sup>6</sup>		To Mexico in Excess of Treaty <sup>7</sup>
2001	Arizona	1,128.0	36.7	0.0	1,523.1	0.0	2,687.8	-	-	-	-
	California	499.9	3.1	0.0	0.0	4,665.5	5,168.5	-	-	-	-
	Nevada	3.1	277.0	13.0	0.0	0.0	293.1	-	-	-	-
	<b>TOTAL</b>	<b>1,630.9</b>	<b>316.8</b>	<b>13.0</b>	<b>1,523.1</b>	<b>4,665.5</b>	<b>8,149.3</b>	<b>1,500.0</b>	<b>103.7</b>	<b>200.6</b>	<b>9,753.1</b>
2002	Arizona	1,181.8	38.3	0.0	1,581.6	0.0	2,801.7	-	-	-	-
	California	551.4	2.0	0.0	0.0	4,722.1	5,275.5	-	-	-	-
	Nevada	3.0	309.9	12.3	0.0	0.0	325.2	-	-	-	-
	<b>TOTAL</b>	<b>1,736.3</b>	<b>350.2</b>	<b>12.3</b>	<b>1,581.6</b>	<b>4,722.1</b>	<b>8,402.4</b>	<b>1,500.0</b>	<b>121.7</b>	<b>123.2</b>	<b>10,024.2</b>
2003	Arizona	1,103.0	40.7	0.0	1,685.2	0.0	2,828.9	-	-	-	-
	California	447.0	2.9	0.0	0.0	3,958.8	4,408.7	-	-	-	-
	Nevada	2.9	256.2	11.6	0.0	0.0	270.7	-	-	-	-
	<b>TOTAL</b>	<b>1,552.9</b>	<b>299.8</b>	<b>11.6</b>	<b>1,685.2</b>	<b>3,958.8</b>	<b>7,508.3</b>	<b>1,500.0</b>	<b>114.7</b>	<b>61.9</b>	<b>9,123.1</b>
2004	Arizona	1,077.0	40.0	0.0	1,666.3	0.0	2,783.3	-	-	-	-
	California	475.9	3.4	0.0	0.0	3,836.9	4,316.2	-	-	-	-
	Nevada	2.6	252.2	12.0	0.0	0.0	266.8	-	-	-	-
	<b>TOTAL</b>	<b>1,555.5</b>	<b>295.6</b>	<b>12.0</b>	<b>1,666.3</b>	<b>3,836.9</b>	<b>7,366.3</b>	<b>1,500.0</b>	<b>100.8</b>	<b>93.1</b>	<b>8,967.1</b>
2005	Arizona	1,072.4	35.2	0.0	1,319.9	0.0	2,427.4	-	-	-	-
	California	388.8	3.6	0.0	0.0	3,936.9	4,329.3	-	-	-	-
	Nevada	3.6	260.5	12.4	0.0	0.0	276.5	-	-	-	-
	<b>TOTAL</b>	<b>1,464.8</b>	<b>299.3</b>	<b>12.4</b>	<b>1,319.9</b>	<b>3,936.9</b>	<b>7,033.2</b>	<b>1,500.0</b>	<b>108.4</b>	<b>116.3</b>	<b>8,641.6</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> All water users on the mainstream were categorized into one or more of the following categories: irrigated agriculture, municipal and industrial, thermal electric power, within system export or outside system exports. Of the available categories, the category or categories that most closely represented the user was chosen. Exported water is not assigned a more specific use category.

<sup>3</sup> Does not include evaporation from mainstream reservoirs listed in Table LC-1.

<sup>4</sup> Referring to *Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande Treaty between the United States of America and Mexico*, signed on February 3, 1944.

<sup>5</sup> Water delivered to Mexico pursuant to their approved monthly schedule. May increase or decrease from the Treaty allotment of 1,500,000 acre-feet due to surplus or shortage conditions, and the creation and delivery of water deferred by Mexico and stored in Lake Mead.

<sup>6</sup> Referring to water bypassed pursuant to *Minute Number 242, Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River*, signed on August 30, 1973.

<sup>7</sup> Water passing to Mexico in excess of Mexico's approved monthly schedule.

<sup>8</sup> Does not include volumes in column "To Mexico in Excess of Treaty".

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1971**

		(1,000 acre-feet)										
State	Tributary	Reservoir Evaporation	Agriculture			Municipal and Industrial				Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.6	0.5	2.4	2.9	0.1	0.0	2.3	2.4	0.0	0.0	5.9
	Tributary Area Below Lake Mead	0.3	12.5	2.4	14.9	6.0	0.0	2.7	8.7	0.0	0.0	23.9
	Gila River	186.3	2,248.7	27.5	2,276.1	56.6	8.0	266.1	330.7	0.0	-11.7	2,781.4
	Little Colorado River	8.7	32.7	5.7	38.4	0.8	1.4	19.0	21.1	0.0	13.0	81.3
	Bill Williams River	3.2	10.5	0.6	11.2	1.5	0.0	0.3	1.8	0.0	0.0	16.2
	Virgin River	0.1	4.2	0.9	5.0	0.0	0.0	0.2	0.2	0.0	0.0	5.3
	<b>TOTAL</b>	<b>199.2</b>	<b>2,309.0</b>	<b>39.5</b>	<b>2,348.5</b>	<b>65.0</b>	<b>9.3</b>	<b>290.6</b>	<b>365.0</b>	<b>0.0</b>	<b>1.3</b>	<b>2,914.0</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	0.2	0.4	0.7	1.1	0.0	0.0	37.8	37.8	0.0	0.0	39.1
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	1.5	0.0	0.1	1.6	0.0	-1.3	0.2
	Virgin River	0.0	9.2	0.0	9.2	0.0	0.0	0.2	0.2	0.0	0.0	9.4
	Muddy River	4.2	45.4	0.4	45.8	0.0	3.0	0.9	3.9	0.0	0.0	53.9
	<b>TOTAL</b>	<b>4.4</b>	<b>54.9</b>	<b>1.1</b>	<b>56.1</b>	<b>1.5</b>	<b>3.0</b>	<b>39.0</b>	<b>43.4</b>	<b>0.0</b>	<b>-1.3</b>	<b>102.6</b>
New Mexico	Gila River	0.6	11.5	1.8	13.3	3.0	0.0	0.1	3.2	0.5	0.0	17.6
	Little Colorado River	1.0	0.4	0.9	1.3	1.8	0.0	6.6	8.4	0.0	0.0	10.7
	<b>TOTAL</b>	<b>1.5</b>	<b>11.9</b>	<b>2.7</b>	<b>14.6</b>	<b>4.8</b>	<b>0.0</b>	<b>6.8</b>	<b>11.6</b>	<b>0.5</b>	<b>0.0</b>	<b>28.2</b>
Utah	Tributary Area Above Lake Mead	0.0	4.8	0.0	4.9	0.0	0.0	0.3	0.3	0.0	0.0	5.3
	Virgin River	1.6	25.9	0.6	26.6	0.0	0.0	5.6	5.6	1.5	0.0	35.2
	<b>TOTAL</b>	<b>1.6</b>	<b>30.8</b>	<b>0.7</b>	<b>31.4</b>	<b>0.0</b>	<b>0.0</b>	<b>6.0</b>	<b>6.0</b>	<b>1.5</b>	<b>0.0</b>	<b>40.5</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.8	5.7	3.1	8.8	0.1	0.0	40.5	40.5	0.0	0.0	50.2
	Tributary Area Below Lake Mead	0.3	12.5	2.4	14.9	7.5	0.0	2.8	10.4	0.0	-1.3	24.2
	Gila River	186.8	2,260.2	29.3	2,289.5	59.7	8.0	266.3	333.9	0.5	-11.7	2,798.9
	Little Colorado River	9.7	33.1	6.6	39.7	2.6	1.4	25.6	29.6	0.0	13.0	92.0
	Bill Williams River	3.2	10.5	0.6	11.2	1.5	0.0	0.3	1.8	0.0	0.0	16.2
	Virgin River	1.7	39.2	1.5	40.7	0.0	0.0	6.0	6.0	1.5	0.0	49.9
	Muddy River	4.2	45.4	0.4	45.8	0.0	3.0	0.9	3.9	0.0	0.0	53.9
	<b>TOTAL</b>	<b>206.7</b>	<b>2,406.7</b>	<b>43.9</b>	<b>2,450.6</b>	<b>71.4</b>	<b>12.3</b>	<b>342.4</b>	<b>426.1</b>	<b>1.9</b>	<b>0.0</b>	<b>3,085.3</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

Lower Colorado River System  
Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>  
1972

		(1,000 acre-feet)										
State	Tributary	Reservoir Evaporation	Agriculture			Municipal and Industrial			Export		TOTAL	
			Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.6	0.5	2.3	2.9	0.1	0.0	2.5	2.6	0.0	0.0	6.0
	Tributary Area Below Lake Mead	0.3	13.8	2.4	16.2	6.7	0.0	2.8	9.5	0.0	0.0	26.0
	Gila River	164.1	2,488.2	27.1	2,515.2	63.0	9.3	281.6	353.9	0.0	-12.9	3,020.4
	Little Colorado River	7.8	36.2	5.6	41.8	2.0	1.1	19.9	23.0	0.0	15.4	88.0
	Bill Williams River	3.1	11.7	0.6	12.3	1.6	0.0	0.4	2.0	0.0	0.0	17.4
	Virgin River	0.1	4.6	0.9	5.5	0.0	0.0	0.2	0.2	0.0	0.0	5.8
	<b>TOTAL</b>		176.0	2,554.9	38.9	2,593.9	73.4	10.4	307.4	391.2	0.0	2.6
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
Nevada	Tributary Area Above Lake Mead	0.2	0.5	0.7	1.1	0.0	0.0	19.9	19.9	0.0	0.0	21.2
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	1.6	0.0	0.1	1.7	0.0	-2.6	-0.9
	Virgin River	0.0	10.1	0.0	10.1	0.0	0.0	0.2	0.2	0.0	0.0	10.3
	Muddy River	4.2	50.2	0.5	50.7	0.0	3.1	0.9	4.0	0.0	0.0	58.9
	<b>TOTAL</b>	4.4	60.8	1.2	61.9	1.6	3.1	21.0	25.8	0.0	-2.6	89.6
New Mexico	Gila River	0.5	11.5	1.8	13.2	4.8	0.0	0.2	5.1	0.8	0.0	19.5
	Little Colorado River	0.9	0.4	0.8	1.3	2.0	0.0	6.8	8.8	0.0	0.0	11.1
	<b>TOTAL</b>	1.4	11.9	2.6	14.5	6.9	0.0	7.0	13.9	0.8	0.0	30.6
Utah	Tributary Area Above Lake Mead	0.0	5.4	0.0	5.4	0.0	0.0	0.4	0.4	0.0	0.0	5.8
	Virgin River	1.6	28.7	0.6	29.3	0.0	0.0	5.9	5.9	2.2	0.0	39.0
	<b>TOTAL</b>	1.7	34.1	0.7	34.7	0.0	0.0	6.3	6.3	2.2	0.0	44.8
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.8	6.3	3.1	9.4	0.1	0.0	22.8	22.8	0.0	0.0	33.0
	Tributary Area Below Lake Mead	0.3	13.8	2.4	16.2	8.3	0.0	3.0	11.3	0.0	-2.6	25.2
	Gila River	164.6	2,499.6	28.8	2,528.5	67.9	9.3	281.8	359.0	0.8	-12.9	3,039.9
	Little Colorado River	8.8	36.6	6.4	43.0	4.0	1.1	26.7	31.9	0.0	15.4	99.1
	Bill Williams River	3.1	11.7	0.6	12.3	1.6	0.0	0.4	2.0	0.0	0.0	17.4
	Virgin River	1.7	43.4	1.5	45.0	0.0	0.0	6.3	6.3	2.2	0.0	55.2
	Muddy River	4.2	50.2	0.5	50.7	0.0	3.1	0.9	4.0	0.0	0.0	58.9
	<b>TOTAL</b>	183.5	2,661.7	43.4	2,705.0	81.9	13.5	341.8	437.2	3.0	0.0	3,328.7

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

Lower Colorado River System  
Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>  
1973

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture			Municipal and Industrial			Export		TOTAL	
			Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.7	0.5	2.3	2.9	0.1	0.0	2.7	2.8	0.0	0.0	6.3
	Tributary Area Below Lake Mead	0.3	14.0	2.4	16.4	7.0	0.0	2.9	9.9	0.0	0.0	26.6
	Gila River	283.7	2,520.9	27.6	2,548.5	64.4	9.3	297.4	371.1	0.0	-18.9	3,184.4
	Little Colorado River	9.5	36.6	5.9	42.5	2.3	1.5	20.8	24.6	0.0	21.4	98.0
	Bill Williams River	3.4	11.8	0.7	12.5	1.5	0.0	0.4	1.9	0.0	0.0	17.8
	Virgin River	0.1	4.7	1.0	5.6	0.0	0.0	0.2	0.2	0.0	0.0	5.9
	<b>TOTAL</b>		297.6	2,588.6	39.8	2,628.4	75.3	10.7	324.5	410.5	0.0	2.4
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
Nevada	Tributary Area Above Lake Mead	0.2	0.5	0.7	1.2	0.0	0.0	15.8	15.8	0.0	0.0	17.1
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	1.6	0.0	0.1	1.7	0.0	-2.4	-0.8
	Virgin River	0.0	10.3	0.0	10.3	0.0	0.0	0.2	0.2	0.0	0.0	10.5
	Muddy River	4.2	50.9	0.5	51.3	0.0	2.8	0.9	3.7	0.0	0.0	59.2
	<b>TOTAL</b>	4.3	61.6	1.2	62.8	1.6	2.8	17.0	21.4	0.0	-2.4	86.1
New Mexico	Gila River	0.7	12.0	1.9	13.9	5.6	0.0	0.2	5.8	0.9	0.0	21.3
	Little Colorado River	1.0	0.4	0.9	1.3	2.0	0.0	6.9	8.9	0.0	0.0	11.2
	<b>TOTAL</b>	1.7	12.4	2.8	15.2	7.6	0.0	7.1	14.7	0.9	0.0	32.5
Utah	Tributary Area Above Lake Mead	0.0	5.4	0.0	5.5	0.0	0.0	0.4	0.4	0.0	0.0	5.9
	Virgin River	1.5	29.1	0.6	29.7	0.0	0.0	6.3	6.3	6.4	0.0	43.8
	<b>TOTAL</b>	1.5	34.5	0.6	35.2	0.0	0.0	6.7	6.7	6.4	0.0	49.7
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.9	6.4	3.1	9.5	0.1	0.0	18.9	19.0	0.0	0.0	29.4
	Tributary Area Below Lake Mead	0.3	14.0	2.4	16.4	8.6	0.0	3.1	11.7	0.0	-2.4	25.9
	Gila River	284.4	2,532.9	29.5	2,562.4	70.0	9.3	297.7	376.9	0.9	-18.9	3,205.7
	Little Colorado River	10.5	37.1	6.8	43.9	4.3	1.5	27.8	33.5	0.0	21.4	109.2
	Bill Williams River	3.4	11.8	0.7	12.5	1.5	0.0	0.4	1.9	0.0	0.0	17.8
	Virgin River	1.6	44.0	1.6	45.6	0.0	0.0	6.7	6.7	6.4	0.0	60.2
	Muddy River	4.2	50.9	0.5	51.3	0.0	2.8	0.9	3.7	0.0	0.0	59.2
	<b>TOTAL</b>	305.2	2,697.1	44.4	2,741.6	84.5	13.5	355.4	453.4	7.2	0.0	3,507.4

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1974**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Subtotal	Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>		Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.7	0.0	2.3	2.3	0.1	0.0	2.9	3.0	0.0	0.0	6.0
	Tributary Area Below Lake Mead	0.3	14.1	2.4	16.5	6.5	0.0	3.0	9.5	0.0	0.0	26.3
	Gila River	235.0	2,643.5	27.3	2,670.9	59.7	8.5	309.9	378.1	0.0	-8.9	3,275.2
	Little Colorado River	9.7	50.1	5.9	56.0	2.7	1.5	21.9	26.0	0.0	11.5	103.2
	Bill Williams River	3.3	16.0	0.7	16.7	1.4	0.0	0.4	1.8	0.0	0.0	21.8
	Virgin River	0.1	5.0	1.0	6.1	0.0	0.0	0.2	0.2	0.0	0.0	6.4
	<b>TOTAL</b>		<u>249.1</u>	<u>2,728.7</u>	<u>39.7</u>	<u>2,768.4</u>	<u>70.5</u>	<u>10.0</u>	<u>338.3</u>	<u>418.7</u>	<u>0.0</u>	<u>2.7</u>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>
Nevada	Tributary Area Above Lake Mead	0.2	1.0	0.7	1.7	0.0	0.0	20.3	20.3	0.0	0.0	22.2
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	1.6	0.0	0.1	1.7	0.0	-2.7	-1.0
	Virgin River	0.0	10.8	0.0	10.8	0.0	0.0	0.2	0.2	0.0	0.0	11.0
	Muddy River	4.4	66.9	0.5	67.4	1.5	2.4	1.0	4.9	0.0	0.0	76.6
	<b>TOTAL</b>	<u>4.5</u>	<u>78.6</u>	<u>1.2</u>	<u>79.8</u>	<u>3.1</u>	<u>2.4</u>	<u>21.6</u>	<u>27.1</u>	<u>0.0</u>	<u>-2.7</u>	<u>108.8</u>
New Mexico	Gila River	0.6	13.9	2.0	15.9	5.7	0.0	0.2	5.9	0.9	0.0	23.3
	Little Colorado River	1.0	0.4	0.9	1.3	2.2	0.0	7.0	9.2	0.0	0.0	11.6
	<b>TOTAL</b>	<u>1.6</u>	<u>14.4</u>	<u>2.9</u>	<u>17.2</u>	<u>7.9</u>	<u>0.0</u>	<u>7.3</u>	<u>15.2</u>	<u>0.9</u>	<u>0.0</u>	<u>34.9</u>
Utah	Tributary Area Above Lake Mead	0.0	5.7	0.0	5.7	0.0	0.0	0.4	0.4	0.0	0.0	6.2
	Virgin River	1.7	39.6	0.7	40.3	0.0	0.0	6.8	6.8	0.6	0.0	49.3
	<b>TOTAL</b>	<u>1.8</u>	<u>45.3</u>	<u>0.7</u>	<u>45.9</u>	<u>0.0</u>	<u>0.0</u>	<u>7.2</u>	<u>7.2</u>	<u>0.6</u>	<u>0.0</u>	<u>55.5</u>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.9	6.6	3.1	9.7	0.1	0.0	23.6	23.7	0.0	0.0	34.4
	Tributary Area Below Lake Mead	0.3	14.1	2.4	16.5	8.1	0.0	3.2	11.3	0.0	-2.7	25.4
	Gila River	235.6	2,657.5	29.3	2,686.8	65.4	8.5	310.1	384.1	0.9	-8.9	3,298.5
	Little Colorado River	10.7	50.5	6.8	57.3	4.9	1.5	28.9	35.3	0.0	11.5	114.8
	Bill Williams River	3.3	16.0	0.7	16.7	1.4	0.0	0.4	1.8	0.0	0.0	21.8
	Virgin River	1.9	55.4	1.7	57.1	0.0	0.0	7.2	7.2	0.6	0.0	66.7
	Muddy River	4.4	66.9	0.5	67.4	1.5	2.4	1.0	4.9	0.0	0.0	76.6
	<b>TOTAL</b>	<u>257.0</u>	<u>2,867.0</u>	<u>44.5</u>	<u>2,911.5</u>	<u>81.4</u>	<u>12.4</u>	<u>374.4</u>	<u>468.2</u>	<u>1.5</u>	<u>0.0</u>	<u>3,638.2</u>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1975**

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.7	1.9	2.3	4.2	0.1	0.0	3.1	3.2	0.0	0.0	8.1
	Tributary Area Below Lake Mead	0.3	21.5	2.5	24.0	6.4	0.0	3.1	9.5	0.0	0.0	33.8
	Gila River	210.2	2,911.3	27.9	2,939.2	54.1	5.9	318.1	378.0	0.0	-20.3	3,507.1
	Little Colorado River	9.3	51.1	5.9	57.0	2.8	1.2	22.8	26.9	0.0	22.7	115.9
	Bill Williams River	3.8	11.9	0.7	12.6	1.4	0.0	0.4	1.8	0.0	0.0	18.2
	Virgin River	0.1	4.8	1.0	5.8	0.0	0.0	0.2	0.2	0.0	0.0	6.1
	<b>TOTAL</b>	<b>224.5</b>	<b>3,002.4</b>	<b>40.3</b>	<b>3,042.7</b>	<b>64.8</b>	<b>7.1</b>	<b>347.7</b>	<b>419.6</b>	<b>0.0</b>	<b>2.4</b>	<b>3,689.2</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	0.2	0.9	0.7	1.6	0.0	0.0	44.0	44.0	0.0	0.0	45.8
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	1.5	0.0	0.1	1.6	0.0	-2.4	-0.8
	Virgin River	0.0	10.8	0.0	10.8	0.0	0.0	0.2	0.2	0.0	0.0	11.0
	Muddy River	4.3	72.7	0.5	73.1	2.2	2.2	1.0	5.5	0.0	0.0	82.9
	<b>TOTAL</b>	<b>4.5</b>	<b>84.3</b>	<b>1.2</b>	<b>85.5</b>	<b>3.7</b>	<b>2.2</b>	<b>45.4</b>	<b>51.3</b>	<b>0.0</b>	<b>-2.4</b>	<b>138.9</b>
New Mexico	Gila River	0.5	13.3	2.0	15.3	4.5	0.0	0.2	4.7	0.7	0.0	21.2
	Little Colorado River	1.0	0.6	0.9	1.4	2.3	0.0	7.4	9.7	0.0	0.0	12.1
	<b>TOTAL</b>	<b>1.4</b>	<b>13.9</b>	<b>2.8</b>	<b>16.7</b>	<b>6.8</b>	<b>0.0</b>	<b>7.6</b>	<b>14.4</b>	<b>0.7</b>	<b>0.0</b>	<b>33.3</b>
Utah	Tributary Area Above Lake Mead	0.0	8.2	0.0	8.2	0.0	0.0	0.4	0.4	0.0	0.0	8.7
	Virgin River	1.7	40.3	0.6	41.0	0.0	0.0	7.0	7.0	3.1	0.0	52.7
	<b>TOTAL</b>	<b>1.7</b>	<b>48.5</b>	<b>0.7</b>	<b>49.1</b>	<b>0.0</b>	<b>0.0</b>	<b>7.5</b>	<b>7.5</b>	<b>3.1</b>	<b>0.0</b>	<b>61.4</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.9	10.9	3.1	14.0	0.1	0.0	47.6	47.7	0.0	0.0	62.6
	Tributary Area Below Lake Mead	0.3	21.5	2.5	24.0	7.9	0.0	3.2	11.2	0.0	-2.4	33.0
	Gila River	210.6	2,924.6	29.8	2,954.4	58.6	5.9	318.2	382.7	0.7	-20.3	3,528.3
	Little Colorado River	10.3	51.6	6.8	58.4	5.1	1.2	30.2	36.6	0.0	22.7	127.9
	Bill Williams River	3.8	11.9	0.7	12.6	1.4	0.0	0.4	1.8	0.0	0.0	18.2
	Virgin River	1.8	55.9	1.6	57.5	0.0	0.0	7.5	7.5	3.1	0.0	69.9
	Muddy River	4.3	72.7	0.5	73.1	2.2	2.2	1.0	5.5	0.0	0.0	82.9
	<b>TOTAL</b>	<b>232.0</b>	<b>3,149.1</b>	<b>44.9</b>	<b>3,194.1</b>	<b>75.3</b>	<b>9.4</b>	<b>408.2</b>	<b>492.9</b>	<b>3.8</b>	<b>0.0</b>	<b>3,922.8</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1976**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Subtotal	Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>		Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.7	1.0	2.4	3.4	0.0	0.0	3.2	3.2	0.0	0.0	7.3
	Tributary Area Below Lake Mead	0.3	18.6	2.4	21.0	1.1	0.0	3.3	4.4	0.0	0.0	25.6
	Gila River	181.1	2,682.2	27.8	2,710.0	74.8	5.8	326.9	407.4	0.0	-20.5	3,278.1
	Little Colorado River	9.6	48.3	6.0	54.4	2.7	1.3	23.1	27.1	0.0	23.4	114.5
	Bill Williams River	9.1	10.3	0.7	10.9	0.7	0.0	0.4	1.2	0.0	0.0	21.1
	Virgin River	0.1	4.9	0.9	5.8	0.0	0.0	0.2	0.2	0.0	0.0	6.2
	<b>TOTAL</b>		200.9	2,765.3	40.2	2,805.5	79.3	7.1	357.1	443.5	0.0	2.9
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
Nevada	Tributary Area Above Lake Mead	0.2	0.4	0.7	1.1	0.0	0.0	43.5	43.5	0.0	0.0	44.8
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	2.1	0.0	0.1	2.2	0.0	-2.9	-0.7
	Virgin River	0.0	11.4	0.0	11.4	0.0	0.0	0.3	0.3	0.0	0.0	11.7
	Muddy River	4.1	68.8	0.4	69.3	0.5	2.9	1.1	4.5	0.0	0.0	77.9
	<b>TOTAL</b>	4.3	80.7	1.1	81.8	2.6	2.9	44.9	50.5	0.0	-2.9	133.7
New Mexico	Gila River	0.6	14.4	2.1	16.5	5.1	0.0	0.2	5.4	0.8	0.0	23.3
	Little Colorado River	1.1	0.6	0.9	1.5	0.2	0.0	7.8	8.0	0.0	0.0	10.5
	<b>TOTAL</b>	1.7	15.0	3.0	18.0	5.4	0.0	8.0	13.3	0.8	0.0	33.8
Utah	Tributary Area Above Lake Mead	0.0	6.0	0.0	6.0	0.0	0.0	0.5	0.5	0.0	0.0	6.5
	Virgin River	1.8	36.5	0.6	37.2	0.0	0.0	7.5	7.5	1.4	0.0	47.8
	<b>TOTAL</b>	1.8	42.5	0.7	43.2	0.0	0.0	7.9	7.9	1.4	0.0	54.3
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.9	7.4	3.1	10.5	0.0	0.0	47.2	47.2	0.0	0.0	58.6
	Tributary Area Below Lake Mead	0.3	18.6	2.4	21.0	3.2	0.0	3.5	6.7	0.0	-2.9	25.0
	Gila River	181.7	2,696.7	29.9	2,726.5	79.9	5.8	327.1	412.8	0.8	-20.5	3,301.3
	Little Colorado River	10.7	48.9	7.0	55.9	2.9	1.3	30.9	35.1	0.0	23.4	125.0
	Bill Williams River	9.1	10.3	0.7	10.9	0.7	0.0	0.4	1.2	0.0	0.0	21.1
	Virgin River	1.9	52.8	1.6	54.4	0.0	0.0	8.0	8.0	1.4	0.0	65.7
	Muddy River	4.1	68.8	0.4	69.3	0.5	2.9	1.1	4.5	0.0	0.0	77.9
	<b>TOTAL</b>	208.6	2,903.5	45.0	2,948.4	87.2	10.1	418.1	515.3	2.2	0.0	3,674.7

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1977**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture			Municipal and Industrial			Export		TOTAL	
			Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.7	3.4	2.4	5.8	0.0	0.0	3.3	3.3	0.0	0.0	9.8
	Tributary Area Below Lake Mead	0.3	31.3	2.5	33.8	1.3	0.0	3.4	4.7	0.0	0.0	38.8
	Gila River	145.7	2,711.9	28.1	2,740.0	66.2	7.7	338.2	412.1	0.0	-3.5	3,294.2
	Little Colorado River	9.5	51.0	6.0	57.0	3.1	1.2	23.8	28.2	0.0	6.4	101.0
	Bill Williams River	7.8	13.5	0.7	14.2	0.9	0.0	0.5	1.4	0.0	0.0	23.4
	Virgin River	0.1	5.7	0.9	6.6	0.0	0.0	0.2	0.2	0.0	0.0	7.0
	<b>TOTAL</b>	<b>164.1</b>	<b>2,816.8</b>	<b>40.6</b>	<b>2,857.4</b>	<b>71.5</b>	<b>8.9</b>	<b>369.5</b>	<b>449.9</b>	<b>0.0</b>	<b>2.8</b>	<b>3,474.2</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	0.2	1.1	0.7	1.8	0.0	0.0	43.2	43.2	0.0	0.0	45.1
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	3.3	0.0	0.1	3.4	0.0	-2.8	0.6
	Virgin River	0.0	12.7	0.0	12.7	0.0	0.0	0.3	0.3	0.0	0.0	13.0
	Muddy River	4.3	85.0	0.4	85.4	0.6	4.0	1.1	5.7	0.0	0.0	95.4
	<b>TOTAL</b>	<b>4.5</b>	<b>98.7</b>	<b>1.1</b>	<b>99.9</b>	<b>3.9</b>	<b>4.0</b>	<b>44.7</b>	<b>52.5</b>	<b>0.0</b>	<b>-2.8</b>	<b>154.0</b>
New Mexico	Gila River	0.6	12.7	2.0	14.7	5.1	0.0	0.3	5.4	0.8	0.0	21.5
	Little Colorado River	1.0	0.6	0.9	1.4	0.4	0.0	7.9	8.3	0.0	0.0	10.7
	<b>TOTAL</b>	<b>1.6</b>	<b>13.3</b>	<b>2.9</b>	<b>16.2</b>	<b>5.5</b>	<b>0.0</b>	<b>8.2</b>	<b>13.7</b>	<b>0.8</b>	<b>0.0</b>	<b>32.2</b>
Utah	Tributary Area Above Lake Mead	0.0	11.5	0.0	11.6	0.0	0.0	0.5	0.5	0.0	0.0	12.1
	Virgin River	1.8	47.2	0.6	47.8	0.0	0.0	7.9	7.9	0.3	0.0	57.9
	<b>TOTAL</b>	<b>1.8</b>	<b>58.8</b>	<b>0.7</b>	<b>59.4</b>	<b>0.0</b>	<b>0.0</b>	<b>8.4</b>	<b>8.4</b>	<b>0.3</b>	<b>0.0</b>	<b>69.9</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.9	16.0	3.1	19.1	0.0	0.0	47.0	47.0	0.0	0.0	67.0
	Tributary Area Below Lake Mead	0.3	31.3	2.5	33.8	4.6	0.0	3.6	8.2	0.0	-2.8	39.5
	Gila River	146.3	2,724.6	30.1	2,754.7	71.3	7.7	338.5	417.4	0.8	-3.5	3,315.7
	Little Colorado River	10.5	51.6	6.8	58.4	3.5	1.2	31.7	36.4	0.0	6.4	111.7
	Bill Williams River	7.8	13.5	0.7	14.2	0.9	0.0	0.5	1.4	0.0	0.0	23.4
	Virgin River	1.9	65.6	1.5	67.2	0.0	0.0	8.4	8.4	0.3	0.0	77.8
	Muddy River	4.3	85.0	0.4	85.4	0.6	4.0	1.1	5.7	0.0	0.0	95.4
	<b>TOTAL</b>	<b>172.0</b>	<b>2,987.6</b>	<b>45.2</b>	<b>3,032.8</b>	<b>80.9</b>	<b>12.8</b>	<b>430.8</b>	<b>524.5</b>	<b>1.1</b>	<b>0.0</b>	<b>3,730.5</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.



**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1978**

		(1,000 acre-feet)										
State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.5	3.9	2.0	6.0	0.0	0.0	3.5	3.5	0.0	0.0	10.0
	Tributary Area Below Lake Mead	0.2	31.8	2.3	34.2	1.2	0.0	3.5	4.7	0.0	0.0	39.2
	Gila River	216.5	2,438.5	26.2	2,464.7	67.9	7.9	351.8	427.6	0.0	-17.1	3,091.6
	Little Colorado River	6.1	46.8	5.4	52.2	3.6	2.9	24.7	31.2	0.0	19.2	108.7
	Bill Williams River	25.1	12.0	0.6	12.6	2.3	0.0	0.5	2.8	0.0	0.0	40.5
	Virgin River	0.1	5.6	0.8	6.4	0.0	0.0	0.3	0.3	0.0	0.0	6.8
	<b>TOTAL</b>		<u>248.6</u>	<u>2,538.7</u>	<u>37.4</u>	<u>2,576.1</u>	<u>75.0</u>	<u>10.8</u>	<u>384.3</u>	<u>470.1</u>	<u>0.0</u>	<u>2.1</u>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>
Nevada	Tributary Area Above Lake Mead	0.2	1.1	0.6	1.7	0.0	0.0	42.5	42.5	0.0	0.0	44.3
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	3.5	0.0	0.1	3.6	0.0	-2.1	1.5
	Virgin River	0.0	11.6	0.0	11.6	0.0	0.0	0.3	0.3	0.0	0.0	11.9
	Muddy River	3.9	69.3	0.4	69.7	0.6	3.8	1.2	5.6	0.0	0.0	79.2
	<b>TOTAL</b>	<u>4.1</u>	<u>82.0</u>	<u>1.0</u>	<u>83.0</u>	<u>4.1</u>	<u>3.8</u>	<u>44.1</u>	<u>51.9</u>	<u>0.0</u>	<u>-2.1</u>	<u>136.9</u>
New Mexico	Gila River	0.5	14.8	1.9	16.7	4.9	0.0	0.3	5.3	0.8	0.0	23.3
	Little Colorado River	0.9	0.0	0.8	0.8	0.6	0.0	8.0	8.6	0.0	0.0	10.4
	<b>TOTAL</b>	<u>1.4</u>	<u>14.8</u>	<u>2.8</u>	<u>17.6</u>	<u>5.5</u>	<u>0.0</u>	<u>8.4</u>	<u>13.9</u>	<u>0.8</u>	<u>0.0</u>	<u>33.6</u>
Utah	Tributary Area Above Lake Mead	0.0	9.6	0.0	9.6	0.0	0.0	0.5	0.5	0.0	0.0	10.2
	Virgin River	1.2	46.1	0.5	46.6	0.0	0.0	8.5	8.5	8.6	0.0	64.8
	<b>TOTAL</b>	<u>1.2</u>	<u>55.7</u>	<u>0.5</u>	<u>56.2</u>	<u>0.0</u>	<u>0.0</u>	<u>9.0</u>	<u>9.0</u>	<u>8.6</u>	<u>0.0</u>	<u>74.9</u>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.7	14.6	2.7	17.3	0.0	0.0	46.5	46.5	0.0	0.0	64.5
	Tributary Area Below Lake Mead	0.2	31.8	2.3	34.2	4.7	0.0	3.7	8.4	0.0	-2.1	40.8
	Gila River	217.0	2,453.3	28.1	2,481.4	72.8	7.9	352.1	432.9	0.8	-17.1	3,114.9
	Little Colorado River	7.0	46.8	6.2	53.1	4.2	2.9	32.7	39.8	0.0	19.2	119.1
	Bill Williams River	25.1	12.0	0.6	12.6	2.3	0.0	0.5	2.8	0.0	0.0	40.5
	Virgin River	1.3	63.3	1.4	64.6	0.0	0.0	9.0	9.0	8.6	0.0	83.5
	Muddy River	3.9	69.3	0.4	69.7	0.6	3.8	1.2	5.6	0.0	0.0	79.2
	<b>TOTAL</b>	<u>255.2</u>	<u>2,691.2</u>	<u>41.7</u>	<u>2,732.9</u>	<u>84.6</u>	<u>14.6</u>	<u>445.8</u>	<u>545.0</u>	<u>9.3</u>	<u>0.0</u>	<u>3,542.4</u>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1979**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Subtotal	Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>		Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.7	3.2	2.3	5.6	0.0	0.0	3.8	3.8	0.0	0.0	10.1
	Tributary Area Below Lake Mead	0.3	44.6	2.5	47.1	2.4	0.0	3.7	6.1	0.0	0.0	53.5
	Gila River	405.6	2,618.0	27.9	2,645.9	71.5	7.7	366.6	445.9	0.0	-15.6	3,481.8
	Little Colorado River	9.7	47.2	6.0	53.2	3.7	4.4	25.6	33.6	0.0	18.0	114.5
	Bill Williams River	30.2	13.4	0.6	14.1	2.2	0.0	0.5	2.7	0.0	0.0	47.0
	Virgin River	0.1	6.3	0.8	7.1	0.0	0.0	0.3	0.3	0.0	0.0	7.6
	<b>TOTAL</b>		<b>446.6</b>	<b>2,732.8</b>	<b>40.2</b>	<b>2,772.9</b>	<b>79.8</b>	<b>12.1</b>	<b>400.5</b>	<b>492.5</b>	<b>0.0</b>	<b>2.4</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	0.2	0.8	0.7	1.5	0.0	0.0	47.0	47.0	0.0	0.0	48.6
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	2.9	0.0	0.1	3.0	0.0	-2.4	0.6
	Virgin River	0.0	11.2	0.0	11.2	0.0	0.0	0.3	0.3	0.0	0.0	11.5
	Muddy River	4.6	71.6	0.4	72.0	0.0	4.0	1.3	5.2	0.0	0.0	81.8
	<b>TOTAL</b>	<b>4.7</b>	<b>83.6</b>	<b>1.1</b>	<b>84.7</b>	<b>2.9</b>	<b>4.0</b>	<b>48.6</b>	<b>55.5</b>	<b>0.0</b>	<b>-2.4</b>	<b>142.5</b>
New Mexico	Gila River	0.6	8.4	2.0	10.4	4.8	0.0	0.3	5.2	0.8	0.0	17.0
	Little Colorado River	0.9	0.0	0.9	0.9	0.7	0.0	8.3	9.0	0.0	0.0	10.8
	<b>TOTAL</b>	<b>1.5</b>	<b>8.4</b>	<b>2.9</b>	<b>11.3</b>	<b>5.5</b>	<b>0.0</b>	<b>8.6</b>	<b>14.2</b>	<b>0.8</b>	<b>0.0</b>	<b>27.8</b>
Utah	Tributary Area Above Lake Mead	0.0	5.5	0.0	5.6	0.0	0.0	0.5	0.5	0.0	0.0	6.1
	Virgin River	1.7	45.6	0.6	46.2	0.0	0.0	9.1	9.1	4.4	0.0	61.3
	<b>TOTAL</b>	<b>1.7</b>	<b>51.1</b>	<b>0.6</b>	<b>51.7</b>	<b>0.0</b>	<b>0.0</b>	<b>9.7</b>	<b>9.7</b>	<b>4.4</b>	<b>0.0</b>	<b>67.5</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.9	9.6	3.0	12.6	0.0	0.0	51.3	51.3	0.0	0.0	64.9
	Tributary Area Below Lake Mead	0.3	44.6	2.5	47.1	5.3	0.0	3.9	9.2	0.0	-2.4	54.1
	Gila River	406.2	2,626.4	29.9	2,656.3	76.4	7.7	366.9	451.0	0.8	-15.6	3,498.7
	Little Colorado River	10.6	47.2	6.9	54.1	4.4	4.4	33.9	42.6	0.0	18.0	125.3
	Bill Williams River	30.2	13.4	0.6	14.1	2.2	0.0	0.5	2.7	0.0	0.0	47.0
	Virgin River	1.8	63.1	1.4	64.5	0.0	0.0	9.7	9.7	4.4	0.0	80.4
	Muddy River	4.6	71.6	0.4	72.0	0.0	4.0	1.3	5.2	0.0	0.0	81.8
	<b>TOTAL</b>	<b>454.5</b>	<b>2,875.9</b>	<b>44.8</b>	<b>2,920.7</b>	<b>88.3</b>	<b>16.1</b>	<b>467.5</b>	<b>571.9</b>	<b>5.2</b>	<b>0.0</b>	<b>3,952.3</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1980**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Export		TOTAL	
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.6	5.1	2.2	7.2	0.0	0.0	4.0	4.0	0.0	0.0	11.8
	Tributary Area Below Lake Mead	0.3	48.1	2.4	50.6	1.9	0.0	4.0	5.8	0.0	0.0	56.7
	Gila River	369.0	2,764.1	27.4	2,791.6	58.3	5.1	378.1	441.5	0.0	-12.4	3,589.6
	Little Colorado River	8.7	58.9	5.8	64.8	3.3	8.8	25.9	38.0	0.0	14.9	126.3
	Bill Williams River	29.7	15.1	0.6	15.7	1.8	0.0	0.6	2.4	0.0	0.0	47.8
	Virgin River	0.1	7.0	0.8	7.8	0.0	0.0	0.3	0.3	0.0	0.0	8.2
	<b>TOTAL</b>	<b>408.3</b>	<b>2,898.4</b>	<b>39.2</b>	<b>2,937.6</b>	<b>65.3</b>	<b>13.9</b>	<b>412.9</b>	<b>492.1</b>	<b>0.0</b>	<b>2.5</b>	<b>3,840.4</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	0.2	1.1	0.7	1.7	0.0	0.0	44.7	44.7	0.0	0.0	46.6
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	2.5	0.0	0.1	2.6	0.0	-2.5	0.1
	Virgin River	0.0	12.6	0.0	12.6	0.0	0.0	0.3	0.3	0.0	0.0	12.9
	Muddy River	4.6	99.8	0.4	100.2	0.0	3.8	1.3	5.1	0.0	0.0	110.0
	<b>TOTAL</b>	<b>4.8</b>	<b>113.5</b>	<b>1.1</b>	<b>114.6</b>	<b>2.5</b>	<b>3.8</b>	<b>46.5</b>	<b>52.8</b>	<b>0.0</b>	<b>-2.5</b>	<b>169.7</b>
New Mexico	Gila River	0.7	12.9	2.3	15.2	4.9	0.0	0.5	5.4	0.8	0.0	22.1
	Little Colorado River	1.0	0.0	0.9	0.9	0.7	0.0	8.4	9.0	0.0	0.0	11.0
	<b>TOTAL</b>	<b>1.7</b>	<b>12.9</b>	<b>3.2</b>	<b>16.1</b>	<b>5.6</b>	<b>0.0</b>	<b>8.8</b>	<b>14.4</b>	<b>0.8</b>	<b>0.0</b>	<b>33.0</b>
Utah	Tributary Area Above Lake Mead	0.0	13.8	0.0	13.8	0.0	0.0	0.5	0.5	0.0	0.0	14.4
	Virgin River	1.3	65.1	0.5	65.6	0.0	0.0	9.8	9.8	4.8	0.0	81.6
	<b>TOTAL</b>	<b>1.3</b>	<b>78.9</b>	<b>0.6</b>	<b>79.5</b>	<b>0.0</b>	<b>0.0</b>	<b>10.4</b>	<b>10.4</b>	<b>4.8</b>	<b>0.0</b>	<b>95.9</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.7	19.9	2.9	22.8	0.0	0.0	49.3	49.3	0.0	0.0	72.8
	Tributary Area Below Lake Mead	0.3	48.1	2.4	50.6	4.4	0.0	4.2	8.5	0.0	-2.5	56.9
	Gila River	369.7	2,777.1	29.7	2,806.8	63.2	5.1	378.6	446.9	0.8	-12.4	3,611.7
	Little Colorado River	9.7	58.9	6.7	65.7	4.0	8.8	34.3	47.0	0.0	14.9	137.3
	Bill Williams River	29.7	15.1	0.6	15.7	1.8	0.0	0.6	2.4	0.0	0.0	47.8
	Virgin River	1.4	84.7	1.3	86.0	0.0	0.0	10.5	10.5	4.8	0.0	102.7
	Muddy River	4.6	99.8	0.4	100.2	0.0	3.8	1.3	5.1	0.0	0.0	110.0
	<b>TOTAL</b>	<b>416.2</b>	<b>3,103.7</b>	<b>44.1</b>	<b>3,147.8</b>	<b>73.3</b>	<b>17.7</b>	<b>478.7</b>	<b>569.7</b>	<b>5.6</b>	<b>0.0</b>	<b>4,139.2</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1981**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Subtotal	Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>		Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.7	4.3	2.3	6.5	0.0	0.0	4.2	4.2	0.0	0.0	11.4
	Tributary Area Below Lake Mead	0.3	62.8	2.5	65.3	1.8	0.0	4.1	5.9	0.0	0.0	71.4
	Gila River	215.3	2,951.1	27.6	2,978.7	54.5	5.6	391.0	451.1	0.0	-6.9	3,638.1
	Little Colorado River	9.4	54.4	5.9	60.3	3.1	15.1	26.1	44.3	0.0	9.7	123.7
	Bill Williams River	20.1	14.5	0.6	15.2	1.7	0.0	0.6	2.3	0.0	0.0	37.6
	Virgin River	0.1	7.1	0.7	7.9	0.0	0.0	0.3	0.3	0.0	0.0	8.3
	<b>TOTAL</b>	<b>245.8</b>	<b>3,094.2</b>	<b>39.6</b>	<b>3,133.8</b>	<b>61.1</b>	<b>20.6</b>	<b>426.4</b>	<b>508.1</b>	<b>0.0</b>	<b>2.8</b>	<b>3,890.5</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	0.2	1.1	0.7	1.8	0.0	0.0	44.8	44.8	0.0	0.0	46.8
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	2.9	0.0	0.1	3.0	0.0	-2.8	0.2
	Virgin River	0.0	11.5	0.0	11.5	0.0	0.0	0.3	0.3	0.0	0.0	11.8
	Muddy River	4.8	92.6	0.4	93.0	0.6	3.9	1.4	5.9	0.0	0.0	103.7
	<b>TOTAL</b>	<b>4.9</b>	<b>105.2</b>	<b>1.1</b>	<b>106.3</b>	<b>3.5</b>	<b>3.9</b>	<b>46.6</b>	<b>54.0</b>	<b>0.0</b>	<b>-2.8</b>	<b>162.5</b>
New Mexico	Gila River	0.6	12.8	2.0	14.8	6.0	0.0	0.6	6.6	1.0	0.0	22.9
	Little Colorado River	1.0	0.0	0.9	0.9	1.2	0.0	8.3	9.5	0.0	0.0	11.4
	<b>TOTAL</b>	<b>1.6</b>	<b>12.8</b>	<b>2.9</b>	<b>15.7</b>	<b>7.2</b>	<b>0.0</b>	<b>8.9</b>	<b>16.1</b>	<b>1.0</b>	<b>0.0</b>	<b>34.3</b>
Utah	Tributary Area Above Lake Mead	0.0	11.2	0.0	11.2	0.0	0.0	0.5	0.5	0.0	0.0	11.8
	Virgin River	1.6	54.6	0.6	55.2	0.0	0.0	10.5	10.5	1.4	0.0	68.7
	<b>TOTAL</b>	<b>1.6</b>	<b>65.7</b>	<b>0.6</b>	<b>66.4</b>	<b>0.0</b>	<b>0.0</b>	<b>11.1</b>	<b>11.1</b>	<b>1.4</b>	<b>0.0</b>	<b>80.4</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.9	16.5	3.0	19.5	0.0	0.0	49.6	49.6	0.0	0.0	70.0
	Tributary Area Below Lake Mead	0.3	62.8	2.5	65.3	4.7	0.0	4.3	9.0	0.0	-2.8	71.8
	Gila River	215.9	2,963.9	29.6	2,993.4	60.6	5.6	391.6	457.7	1.0	-6.9	3,661.1
	Little Colorado River	10.3	54.4	6.8	61.3	4.3	15.1	34.4	53.8	0.0	9.7	135.1
	Bill Williams River	20.1	14.5	0.6	15.2	1.7	0.0	0.6	2.3	0.0	0.0	37.6
	Virgin River	1.7	73.2	1.3	74.6	0.0	0.0	11.2	11.2	1.4	0.0	88.9
	Muddy River	4.8	92.6	0.4	93.0	0.6	3.9	1.4	5.9	0.0	0.0	103.7
	<b>TOTAL</b>	<b>253.9</b>	<b>3,277.9</b>	<b>44.3</b>	<b>3,322.2</b>	<b>71.9</b>	<b>24.5</b>	<b>493.0</b>	<b>589.4</b>	<b>2.4</b>	<b>0.0</b>	<b>4,168.0</b>

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<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1982**

		(1,000 acre-feet)										
State	Tributary	Reservoir Evaporation	Agriculture			Municipal and Industrial				Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.5	3.1	2.2	5.3	0.0	0.0	4.4	4.4	0.0	0.0	10.2
	Tributary Area Below Lake Mead	0.3	47.5	2.4	49.9	2.2	0.0	4.2	6.4	0.0	0.0	56.6
	Gila River	178.5	2,495.5	26.3	2,521.8	72.2	2.9	402.3	477.5	0.0	-14.8	3,163.0
	Little Colorado River	7.1	41.4	5.6	47.0	2.2	17.0	26.5	45.7	0.0	18.1	117.9
	Bill Williams River	15.0	14.2	0.6	14.8	2.3	0.0	0.6	2.9	0.0	0.0	32.7
	Virgin River	0.1	5.9	0.7	6.7	0.0	0.0	0.4	0.4	0.0	0.0	7.1
	<b>TOTAL</b>		<u>201.6</u>	<u>2,607.7</u>	<u>37.7</u>	<u>2,645.4</u>	<u>78.9</u>	<u>19.9</u>	<u>438.4</u>	<u>537.2</u>	<u>0.0</u>	<u>3.3</u>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>
Nevada	Tributary Area Above Lake Mead	0.2	0.4	0.7	1.1	0.0	0.0	38.1	38.1	0.0	0.0	39.4
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	1.8	0.0	0.1	1.9	0.0	-3.3	-1.4
	Virgin River	0.0	9.7	0.0	9.7	0.0	0.0	0.4	0.4	0.0	0.0	10.0
	Muddy River	4.6	70.2	0.4	70.6	0.6	3.9	1.4	5.9	0.0	0.0	81.0
	<b>TOTAL</b>	<u>4.7</u>	<u>80.3</u>	<u>1.1</u>	<u>81.4</u>	<u>2.4</u>	<u>3.9</u>	<u>40.0</u>	<u>46.3</u>	<u>0.0</u>	<u>-3.3</u>	<u>129.1</u>
New Mexico	Gila River	0.5	12.2	2.4	14.5	3.5	0.0	0.3	3.8	0.8	0.0	19.6
	Little Colorado River	0.9	0.1	0.9	1.0	1.2	0.0	8.4	9.6	0.0	0.0	11.4
	<b>TOTAL</b>	<u>1.4</u>	<u>12.2</u>	<u>3.3</u>	<u>15.5</u>	<u>4.7</u>	<u>0.0</u>	<u>8.7</u>	<u>13.4</u>	<u>0.8</u>	<u>0.0</u>	<u>31.0</u>
Utah	Tributary Area Above Lake Mead	0.0	9.3	0.0	9.4	0.0	0.0	0.6	0.6	0.0	0.0	10.0
	Virgin River	1.4	41.1	0.6	41.6	0.0	0.0	11.0	11.0	2.8	0.0	56.8
	<b>TOTAL</b>	<u>1.4</u>	<u>50.4</u>	<u>0.6</u>	<u>51.0</u>	<u>0.0</u>	<u>0.0</u>	<u>11.6</u>	<u>11.6</u>	<u>2.8</u>	<u>0.0</u>	<u>66.8</u>
Lower Basin Tributary Reporting Areas Totals	Tributary Area Above Lake Mead	0.7	12.8	2.9	15.8	0.0	0.0	43.1	43.1	0.0	0.0	59.6
	Tributary Area Below Lake Mead	0.3	47.5	2.4	49.9	4.0	0.0	4.5	8.5	0.0	-3.3	55.3
	Gila River	179.0	2,507.7	28.7	2,536.3	75.7	2.9	402.6	481.2	0.8	-14.8	3,182.6
	Little Colorado River	8.0	41.5	6.4	47.9	3.4	17.0	34.9	55.3	0.0	18.1	129.3
	Bill Williams River	15.0	14.2	0.6	14.8	2.3	0.0	0.6	2.9	0.0	0.0	32.7
	Virgin River	1.5	56.7	1.3	57.9	0.0	0.0	11.8	11.8	2.8	0.0	74.0
	Muddy River	4.6	70.2	0.4	70.6	0.6	3.9	1.4	5.9	0.0	0.0	81.0
	<b>TOTAL</b>	<u>209.1</u>	<u>2,750.6</u>	<u>42.7</u>	<u>2,793.3</u>	<u>86.0</u>	<u>23.8</u>	<u>498.8</u>	<u>608.6</u>	<u>3.6</u>	<u>0.0</u>	<u>3,614.6</u>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1983**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture			Municipal and Industrial			Export		TOTAL	
			Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.5	3.0	2.2	5.2	0.0	0.0	4.5	4.6	0.0	0.0	10.3
	Tributary Area Below Lake Mead	0.2	37.1	2.3	39.4	1.7	0.0	4.4	6.0	0.0	0.0	45.7
	Gila River	268.9	2,677.0	25.3	2,702.3	47.9	1.6	414.2	463.7	0.0	-9.8	3,425.1
	Little Colorado River	6.9	51.2	5.7	56.9	2.7	14.8	27.1	44.5	0.0	12.9	121.2
	Bill Williams River	18.3	19.7	0.6	20.3	1.5	0.0	0.6	2.1	0.0	0.0	40.7
	Virgin River	0.1	5.9	0.7	6.7	0.0	0.0	0.4	0.4	0.0	0.0	7.1
	<b>TOTAL</b>	<b>294.9</b>	<b>2,793.9</b>	<b>36.8</b>	<b>2,830.7</b>	<b>53.8</b>	<b>16.4</b>	<b>451.1</b>	<b>521.3</b>	<b>0.0</b>	<b>3.1</b>	<b>3,650.0</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	0.2	0.7	0.7	1.4	0.0	0.0	60.8	60.8	0.0	0.0	62.3
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	1.7	0.0	0.1	1.8	0.0	-3.1	-1.3
	Virgin River	0.0	11.7	0.0	11.7	0.0	0.0	0.4	0.4	0.0	0.0	12.1
	Muddy River	4.4	87.7	0.4	88.1	0.6	4.3	1.4	6.3	0.0	0.0	98.9
	<b>TOTAL</b>	<b>4.6</b>	<b>100.1</b>	<b>1.1</b>	<b>101.2</b>	<b>2.3</b>	<b>4.3</b>	<b>62.6</b>	<b>69.2</b>	<b>0.0</b>	<b>-3.1</b>	<b>172.0</b>
New Mexico	Gila River	0.5	9.8	2.2	12.0	4.6	0.0	0.5	5.0	0.9	0.0	18.4
	Little Colorado River	0.8	0.1	0.9	0.9	1.2	0.0	8.5	9.7	0.0	0.0	11.5
	<b>TOTAL</b>	<b>1.3</b>	<b>9.8</b>	<b>3.1</b>	<b>12.9</b>	<b>5.8</b>	<b>0.0</b>	<b>9.0</b>	<b>14.7</b>	<b>0.9</b>	<b>0.0</b>	<b>29.8</b>
Utah	Tributary Area Above Lake Mead	0.0	10.4	0.0	10.4	0.0	0.0	0.6	0.6	0.0	0.0	11.0
	Virgin River	1.3	51.0	0.5	51.6	0.0	0.0	11.6	11.6	10.2	0.0	74.7
	<b>TOTAL</b>	<b>1.3</b>	<b>61.4</b>	<b>0.6</b>	<b>62.0</b>	<b>0.0</b>	<b>0.0</b>	<b>12.2</b>	<b>12.2</b>	<b>10.2</b>	<b>0.0</b>	<b>85.7</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.7	14.1	2.9	17.0	0.0	0.0	65.9	65.9	0.0	0.0	83.6
	Tributary Area Below Lake Mead	0.2	37.1	2.3	39.4	3.4	0.0	4.6	8.0	0.0	-3.1	44.5
	Gila River	269.4	2,686.8	27.5	2,714.3	52.5	1.6	414.6	468.7	0.9	-9.8	3,443.4
	Little Colorado River	7.7	51.2	6.6	57.8	3.9	14.8	35.6	54.2	0.0	12.9	132.7
	Bill Williams River	18.3	19.7	0.6	20.3	1.5	0.0	0.6	2.1	0.0	0.0	40.7
	Virgin River	1.4	68.7	1.3	69.9	0.0	0.0	12.4	12.4	10.2	0.0	93.9
	Muddy River	4.4	87.7	0.4	88.1	0.6	4.3	1.4	6.3	0.0	0.0	98.9
	<b>TOTAL</b>	<b>302.1</b>	<b>2,965.3</b>	<b>41.5</b>	<b>3,006.8</b>	<b>61.9</b>	<b>20.7</b>	<b>535.1</b>	<b>617.6</b>	<b>11.1</b>	<b>0.0</b>	<b>3,937.6</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1984**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture			Municipal and Industrial			Export		TOTAL	
			Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.7	2.9	2.4	5.3	0.0	0.0	4.7	4.8	0.0	0.0	10.7
	Tributary Area Below Lake Mead	0.3	20.4	2.4	22.7	1.8	0.0	4.5	6.3	0.0	0.0	29.3
	Gila River	226.6	2,375.1	26.1	2,401.2	53.0	1.8	429.1	484.0	0.0	-17.1	3,094.6
	Little Colorado River	8.5	59.2	5.9	65.0	3.2	16.7	27.4	47.3	0.0	20.0	140.8
	Bill Williams River	19.5	12.8	0.6	13.5	1.6	0.0	0.6	2.3	0.0	0.0	35.2
	Virgin River	0.1	5.2	0.7	5.9	0.0	0.0	0.4	0.4	0.0	0.0	6.4
	<b>TOTAL</b>		<u>255.6</u>	<u>2,475.5</u>	<u>38.1</u>	<u>2,513.6</u>	<u>59.6</u>	<u>18.5</u>	<u>466.8</u>	<u>544.9</u>	<u>0.0</u>	<u>2.9</u>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>
Nevada	Tributary Area Above Lake Mead	0.2	0.1	0.7	0.8	0.0	0.0	60.9	60.9	0.0	0.0	61.9
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	1.7	0.0	0.1	1.8	0.0	-2.9	-1.1
	Virgin River	0.0	11.2	0.0	11.2	0.0	0.0	0.4	0.4	0.0	0.0	11.5
	Muddy River	4.6	83.5	0.4	83.9	0.6	6.9	1.4	8.9	0.0	0.0	97.4
	<b>TOTAL</b>	<u>4.8</u>	<u>94.8</u>	<u>1.1</u>	<u>95.9</u>	<u>2.3</u>	<u>6.9</u>	<u>62.8</u>	<u>72.0</u>	<u>0.0</u>	<u>-2.9</u>	<u>169.8</u>
New Mexico	Gila River	0.5	10.2	2.4	12.6	4.0	0.0	0.4	4.4	0.5	0.0	18.0
	Little Colorado River	0.9	0.0	0.9	0.9	1.2	0.0	8.7	9.9	0.0	0.0	11.6
	<b>TOTAL</b>	<u>1.4</u>	<u>10.2</u>	<u>3.2</u>	<u>13.5</u>	<u>5.2</u>	<u>0.0</u>	<u>9.1</u>	<u>14.3</u>	<u>0.5</u>	<u>0.0</u>	<u>29.6</u>
Utah	Tributary Area Above Lake Mead	0.0	9.4	0.0	9.4	0.0	0.0	0.6	0.6	0.0	0.0	10.0
	Virgin River	2.8	50.2	0.6	50.8	0.0	0.0	12.4	12.4	2.4	0.0	68.3
	<b>TOTAL</b>	<u>2.8</u>	<u>59.5</u>	<u>0.6</u>	<u>60.2</u>	<u>0.0</u>	<u>0.0</u>	<u>13.0</u>	<u>13.0</u>	<u>2.4</u>	<u>0.0</u>	<u>78.3</u>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.9	12.4	3.1	15.5	0.0	0.0	66.2	66.3	0.0	0.0	82.6
	Tributary Area Below Lake Mead	0.3	20.4	2.4	22.7	3.5	0.0	4.7	8.2	0.0	-2.9	28.3
	Gila River	227.1	2,385.3	28.5	2,413.8	57.0	1.8	429.5	488.4	0.5	-17.1	3,112.6
	Little Colorado River	9.4	59.2	6.7	65.9	4.4	16.7	36.1	57.2	0.0	20.0	152.4
	Bill Williams River	19.5	12.8	0.6	13.5	1.6	0.0	0.6	2.3	0.0	0.0	35.2
	Virgin River	2.9	66.5	1.3	67.8	0.0	0.0	13.2	13.2	2.4	0.0	86.3
	Muddy River	4.6	83.5	0.4	83.9	0.6	6.9	1.4	8.9	0.0	0.0	97.4
	<b>TOTAL</b>	<u>264.6</u>	<u>2,640.1</u>	<u>43.0</u>	<u>2,683.2</u>	<u>67.1</u>	<u>25.4</u>	<u>551.8</u>	<u>644.3</u>	<u>2.8</u>	<u>0.0</u>	<u>3,594.9</u>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1985**

		(1,000 acre-feet)										
State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.6	4.2	2.4	6.6	0.0	0.0	4.9	4.9	0.0	0.0	12.2
	Tributary Area Below Lake Mead	0.3	32.2	2.5	34.7	1.0	0.0	4.6	5.6	0.0	0.0	40.6
	Gila River	257.3	2,716.2	26.6	2,742.8	90.4	5.7	446.3	542.3	0.0	-42.8	3,499.6
	Little Colorado River	8.3	58.7	5.9	64.6	1.3	18.6	28.0	47.9	0.0	11.0	131.9
	Bill Williams River	22.1	20.3	0.6	21.0	3.0	0.0	0.7	3.7	0.0	0.0	46.7
	Virgin River	0.1	9.4	0.7	10.1	0.0	0.0	0.4	0.4	0.0	0.0	10.7
	<b>TOTAL</b>		<b>288.8</b>	<b>2,841.1</b>	<b>38.7</b>	<b>2,879.8</b>	<b>95.7</b>	<b>24.3</b>	<b>485.0</b>	<b>604.9</b>	<b>0.0</b>	<b>-31.8</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	0.2	0.6	0.7	1.4	0.0	0.0	58.8	58.8	0.0	0.0	60.3
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	-1.8	-1.6
	Virgin River	0.0	13.1	0.0	13.1	0.0	0.0	0.4	0.4	0.0	0.0	13.5
	Muddy River	5.0	89.6	0.4	90.1	0.3	8.1	1.4	9.8	0.0	0.0	104.9
	<b>TOTAL</b>	<b>5.2</b>	<b>103.4</b>	<b>1.2</b>	<b>104.5</b>	<b>0.3</b>	<b>8.1</b>	<b>60.7</b>	<b>69.1</b>	<b>0.0</b>	<b>-1.8</b>	<b>177.1</b>
New Mexico	Gila River	0.4	8.6	2.2	10.8	6.5	0.0	0.4	6.9	1.0	0.0	19.1
	Little Colorado River	0.9	0.1	0.9	1.0	5.6	0.0	8.9	14.5	0.0	0.0	16.4
	<b>TOTAL</b>	<b>1.3</b>	<b>8.7</b>	<b>3.1</b>	<b>11.8</b>	<b>12.1</b>	<b>0.0</b>	<b>9.3</b>	<b>21.4</b>	<b>1.0</b>	<b>0.0</b>	<b>35.5</b>
Utah	Tributary Area Above Lake Mead	0.0	9.9	0.0	9.9	0.0	0.0	0.6	0.6	0.0	0.0	10.6
	Virgin River	2.9	80.3	0.6	80.9	0.0	0.0	13.5	13.5	2.1	0.0	99.4
	<b>TOTAL</b>	<b>2.9</b>	<b>90.2</b>	<b>0.6</b>	<b>90.8</b>	<b>0.0</b>	<b>0.0</b>	<b>14.1</b>	<b>14.1</b>	<b>2.1</b>	<b>0.0</b>	<b>110.0</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.9	14.7	3.2	17.9	0.0	0.0	64.3	64.3	0.0	0.0	83.1
	Tributary Area Below Lake Mead	0.3	32.2	2.5	34.7	1.0	0.0	4.9	5.9	0.0	-1.8	39.1
	Gila River	257.7	2,724.8	28.8	2,753.6	96.9	5.7	446.8	549.3	1.0	-42.8	3,518.8
	Little Colorado River	9.2	58.8	6.8	65.6	6.9	18.6	36.9	62.4	0.0	11.0	148.3
	Bill Williams River	22.1	20.3	0.6	21.0	3.0	0.0	0.7	3.7	0.0	0.0	46.7
	Virgin River	3.0	102.8	1.3	104.1	0.0	0.0	14.3	14.3	2.1	0.0	123.6
	Muddy River	5.0	89.6	0.4	90.1	0.3	8.1	1.4	9.8	0.0	0.0	104.9
	<b>TOTAL</b>	<b>298.2</b>	<b>3,043.4</b>	<b>43.6</b>	<b>3,087.0</b>	<b>108.1</b>	<b>32.4</b>	<b>569.2</b>	<b>709.8</b>	<b>3.1</b>	<b>-33.5</b>	<b>4,064.5</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.



**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1986**

		(1,000 acre-feet)										
State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.6	6.2	2.4	8.6	0.0	0.0	5.2	5.2	0.0	0.0	14.5
	Tributary Area Below Lake Mead	0.3	46.2	2.4	48.6	1.1	0.0	4.8	5.9	0.0	0.0	54.8
	Gila River	199.4	2,643.1	26.5	2,669.6	105.6	25.1	464.1	594.8	0.0	-122.1	3,341.7
	Little Colorado River	7.9	54.1	6.0	60.1	1.4	13.5	28.9	43.8	0.0	17.6	129.5
	Bill Williams River	14.8	28.2	0.6	28.8	3.0	0.0	0.7	3.7	0.0	0.0	47.3
	Virgin River	0.1	9.3	0.7	10.0	0.0	0.0	0.4	0.4	0.0	0.0	10.6
	<b>TOTAL</b>		<u>223.2</u>	<u>2,787.0</u>	<u>38.8</u>	<u>2,825.8</u>	<u>111.1</u>	<u>38.6</u>	<u>504.1</u>	<u>653.9</u>	<u>0.0</u>	<u>-104.5</u>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>
Nevada	Tributary Area Above Lake Mead	0.2	1.0	0.7	1.7	0.0	0.0	58.3	58.3	0.0	0.0	60.2
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	-3.1	-3.0
	Virgin River	0.0	14.3	0.0	14.3	0.0	0.0	0.4	0.4	0.0	0.0	14.7
	Muddy River	5.1	120.2	0.4	120.6	0.5	5.2	1.4	7.1	0.0	0.0	132.8
	<b>TOTAL</b>	<u>5.2</u>	<u>135.5</u>	<u>1.1</u>	<u>136.6</u>	<u>0.6</u>	<u>5.2</u>	<u>60.2</u>	<u>65.9</u>	<u>0.0</u>	<u>-3.1</u>	<u>204.7</u>
New Mexico	Gila River	0.4	9.4	2.3	11.6	4.8	0.0	0.4	5.2	0.7	0.0	18.0
	Little Colorado River	0.8	0.3	0.8	1.1	4.6	0.0	8.9	13.5	0.0	0.0	15.4
	<b>TOTAL</b>	<u>1.2</u>	<u>9.6</u>	<u>3.1</u>	<u>12.7</u>	<u>9.4</u>	<u>0.0</u>	<u>9.3</u>	<u>18.7</u>	<u>0.7</u>	<u>0.0</u>	<u>33.4</u>
Utah	Tributary Area Above Lake Mead	0.0	14.3	0.0	14.3	0.0	0.0	0.6	0.6	0.0	0.0	15.0
	Virgin River	2.9	84.5	0.6	85.1	0.0	0.0	14.8	14.9	2.3	0.0	105.2
	<b>TOTAL</b>	<u>2.9</u>	<u>98.8</u>	<u>0.6</u>	<u>99.4</u>	<u>0.0</u>	<u>0.0</u>	<u>15.5</u>	<u>15.5</u>	<u>2.3</u>	<u>0.0</u>	<u>120.2</u>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.9	21.5	3.2	24.6	0.0	0.0	64.1	64.1	0.0	0.0	89.6
	Tributary Area Below Lake Mead	0.3	46.2	2.4	48.6	1.1	0.0	5.0	6.2	0.0	-3.1	52.0
	Gila River	199.8	2,652.5	28.8	2,681.3	110.4	25.1	464.5	600.0	0.7	-122.1	3,359.7
	Little Colorado River	8.8	54.3	6.9	61.2	5.9	13.5	37.8	57.3	0.0	17.6	144.9
	Bill Williams River	14.8	28.2	0.6	28.8	3.0	0.0	0.7	3.7	0.0	0.0	47.3
	Virgin River	3.0	108.1	1.3	109.4	0.0	0.0	15.7	15.7	2.3	0.0	130.5
	Muddy River	5.1	120.2	0.4	120.6	0.5	5.2	1.4	7.1	0.0	0.0	132.8
	<b>TOTAL</b>	<u>232.6</u>	<u>3,030.9</u>	<u>43.6</u>	<u>3,074.6</u>	<u>121.1</u>	<u>43.8</u>	<u>589.3</u>	<u>754.1</u>	<u>3.1</u>	<u>-107.6</u>	<u>3,956.7</u>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1987**

		(1,000 acre-feet)										
State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.6	4.7	2.4	7.1	0.0	0.0	5.4	5.4	0.0	0.0	13.1
	Tributary Area Below Lake Mead	0.3	39.1	2.5	41.5	1.3	0.0	4.9	6.2	0.0	0.0	48.0
	Gila River	211.2	2,389.3	26.6	2,416.0	121.0	32.6	481.4	635.0	0.0	-366.3	2,895.8
	Little Colorado River	8.4	57.9	6.1	64.0	1.4	14.7	29.7	45.9	0.0	14.4	132.7
	Bill Williams River	12.0	20.8	0.6	21.5	3.0	0.0	0.8	3.8	0.0	0.0	37.2
	Virgin River	0.1	8.3	0.7	9.0	0.0	0.0	0.4	0.4	0.0	0.0	9.6
	<b>TOTAL</b>		<u>232.5</u>	<u>2,520.2</u>	<u>38.9</u>	<u>2,559.1</u>	<u>126.7</u>	<u>47.3</u>	<u>522.6</u>	<u>696.6</u>	<u>0.0</u>	<u>-351.9</u>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>
Nevada	Tributary Area Above Lake Mead	0.2	0.8	0.7	1.5	0.0	0.0	59.7	59.7	0.0	0.0	61.4
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	-2.7	-2.5
	Virgin River	0.0	12.8	0.0	12.8	0.0	0.0	0.4	0.4	0.0	0.0	13.2
	Muddy River	4.4	92.8	0.4	93.2	0.8	5.8	1.4	8.0	0.0	0.0	105.6
	<b>TOTAL</b>	<u>4.6</u>	<u>106.4</u>	<u>1.1</u>	<u>107.5</u>	<u>0.8</u>	<u>5.8</u>	<u>61.7</u>	<u>68.3</u>	<u>0.0</u>	<u>-2.7</u>	<u>177.8</u>
New Mexico	Gila River	0.5	7.8	2.4	10.2	5.9	0.0	0.5	6.3	0.3	0.0	17.3
	Little Colorado River	0.9	0.1	0.8	0.9	3.5	0.0	8.9	12.4	0.0	0.0	14.2
	<b>TOTAL</b>	<u>1.4</u>	<u>7.9</u>	<u>3.2</u>	<u>11.1</u>	<u>9.4</u>	<u>0.0</u>	<u>9.3</u>	<u>18.8</u>	<u>0.3</u>	<u>0.0</u>	<u>31.5</u>
Utah	Tributary Area Above Lake Mead	0.0	10.3	0.0	10.3	0.0	0.0	0.7	0.7	0.0	0.0	11.0
	Virgin River	2.6	71.7	0.6	72.3	0.0	0.0	15.9	15.9	3.3	0.0	94.1
	<b>TOTAL</b>	<u>2.6</u>	<u>82.1</u>	<u>0.6</u>	<u>82.7</u>	<u>0.0</u>	<u>0.0</u>	<u>16.6</u>	<u>16.6</u>	<u>3.3</u>	<u>0.0</u>	<u>105.2</u>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.8	15.8	3.1	19.0	0.0	0.0	65.8	65.8	0.0	0.0	85.6
	Tributary Area Below Lake Mead	0.3	39.1	2.5	41.5	1.3	0.0	5.2	6.5	0.0	-2.7	45.6
	Gila River	211.7	2,397.2	29.0	2,426.1	126.9	32.6	481.9	641.3	0.3	-366.3	2,913.1
	Little Colorado River	9.3	57.9	7.0	64.9	5.0	14.7	38.6	58.3	0.0	14.4	146.9
	Bill Williams River	12.0	20.8	0.6	21.5	3.0	0.0	0.8	3.8	0.0	0.0	37.2
	Virgin River	2.7	92.9	1.3	94.2	0.1	0.0	16.8	16.8	3.3	0.0	117.0
	Muddy River	4.4	92.8	0.4	93.2	0.8	5.8	1.4	8.0	0.0	0.0	105.6
	<b>TOTAL</b>	<u>241.2</u>	<u>2,716.5</u>	<u>43.8</u>	<u>2,760.3</u>	<u>136.9</u>	<u>53.2</u>	<u>610.4</u>	<u>800.4</u>	<u>3.5</u>	<u>-354.6</u>	<u>3,450.9</u>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1988**

		(1,000 acre-feet)										
State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.7	3.6	2.5	6.1	0.0	0.0	5.7	5.7	0.0	0.0	12.5
	Tributary Area Below Lake Mead	0.3	37.8	2.4	40.2	1.4	0.0	5.1	6.5	0.0	0.0	47.0
	Gila River	198.4	2,417.5	26.3	2,443.8	136.3	55.4	494.4	686.0	0.0	-512.9	2,815.3
	Little Colorado River	9.7	52.9	6.2	59.1	1.5	16.6	30.4	48.5	0.0	16.4	133.7
	Bill Williams River	10.9	19.5	0.6	20.1	3.0	0.0	0.8	3.8	0.0	0.0	34.8
	Virgin River	0.1	7.3	0.7	8.0	0.0	0.0	0.5	0.5	0.0	0.0	8.6
	<b>TOTAL</b>		<u>220.1</u>	<u>2,538.6</u>	<u>38.7</u>	<u>2,577.3</u>	<u>142.2</u>	<u>72.0</u>	<u>536.8</u>	<u>751.0</u>	<u>0.0</u>	<u>-496.5</u>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2
	<b>TOTAL</b>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.2</u>	<u>0.2</u>	<u>0.0</u>	<u>0.0</u>	<u>0.2</u>
Nevada	Tributary Area Above Lake Mead	0.2	0.9	0.7	1.7	0.0	0.0	61.8	61.8	0.0	0.0	63.6
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	-2.8	-2.7
	Virgin River	0.0	7.7	0.0	7.7	0.0	0.0	0.5	0.5	0.0	0.0	8.2
	Muddy River	5.0	97.3	0.4	97.7	1.0	7.2	1.5	9.7	0.0	0.0	112.4
	<b>TOTAL</b>	<u>5.2</u>	<u>105.9</u>	<u>1.1</u>	<u>107.1</u>	<u>1.0</u>	<u>7.2</u>	<u>63.9</u>	<u>72.1</u>	<u>0.0</u>	<u>-2.8</u>	<u>181.6</u>
New Mexico	Gila River	0.5	7.4	2.2	9.6	5.6	0.0	0.5	6.0	0.3	0.0	16.4
	Little Colorado River	0.9	0.0	0.9	0.9	2.5	0.0	8.7	11.2	0.0	0.0	13.0
	<b>TOTAL</b>	<u>1.4</u>	<u>7.4</u>	<u>3.0</u>	<u>10.5</u>	<u>8.0</u>	<u>0.0</u>	<u>9.2</u>	<u>17.2</u>	<u>0.3</u>	<u>0.0</u>	<u>29.4</u>
Utah	Tributary Area Above Lake Mead	0.0	8.4	0.0	8.4	0.0	0.0	0.7	0.7	0.0	0.0	9.1
	Virgin River	2.9	60.3	0.6	60.9	0.1	0.0	16.6	16.7	5.0	0.0	85.5
	<b>TOTAL</b>	<u>3.0</u>	<u>68.7</u>	<u>0.6</u>	<u>69.3</u>	<u>0.1</u>	<u>0.0</u>	<u>17.3</u>	<u>17.4</u>	<u>5.0</u>	<u>0.0</u>	<u>94.6</u>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.9	12.9	3.2	16.2	0.0	0.0	68.1	68.1	0.0	0.0	85.2
	Tributary Area Below Lake Mead	0.3	37.8	2.4	40.2	1.4	0.0	5.4	6.8	0.0	-2.8	44.5
	Gila River	198.8	2,424.9	28.5	2,453.4	141.8	55.4	494.8	692.0	0.3	-512.9	2,831.7
	Little Colorado River	10.6	52.9	7.0	59.9	4.0	16.6	39.1	59.7	0.0	16.4	146.7
	Bill Williams River	10.9	19.5	0.6	20.1	3.0	0.0	0.8	3.8	0.0	0.0	34.8
	Virgin River	3.1	75.3	1.3	76.6	0.1	0.0	17.5	17.6	5.0	0.0	102.3
	Muddy River	5.0	97.3	0.4	97.7	1.0	7.2	1.5	9.7	0.0	0.0	112.4
	<b>TOTAL</b>	<u>229.7</u>	<u>2,720.6</u>	<u>43.5</u>	<u>2,764.1</u>	<u>151.3</u>	<u>79.2</u>	<u>627.3</u>	<u>857.8</u>	<u>5.3</u>	<u>-499.3</u>	<u>3,357.6</u>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1989**

		(1,000 acre-feet)										
State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.8	2.8	2.6	5.4	0.0	0.0	5.9	6.0	0.0	0.0	12.2
	Tributary Area Below Lake Mead	0.3	40.4	2.5	43.0	1.5	0.0	5.4	6.9	0.0	0.0	50.1
	Gila River	183.9	2,368.1	26.9	2,395.0	151.6	22.4	504.1	678.1	0.0	-772.8	2,484.2
	Little Colorado River	12.5	42.7	6.5	49.2	1.6	20.7	31.0	53.3	0.0	16.2	131.1
	Bill Williams River	12.7	18.9	0.7	19.6	3.0	0.0	0.8	3.8	0.0	0.0	36.1
	Virgin River	0.1	8.3	0.7	9.1	0.0	0.0	0.5	0.5	0.0	0.0	9.7
	<b>TOTAL</b>		<b>210.3</b>	<b>2,481.3</b>	<b>40.0</b>	<b>2,521.2</b>	<b>157.7</b>	<b>43.1</b>	<b>547.8</b>	<b>748.6</b>	<b>0.0</b>	<b>-756.6</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>	<b>0.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>
Nevada	Tributary Area Above Lake Mead	0.2	0.6	0.7	1.4	0.0	0.0	61.0	61.0	0.0	0.0	62.6
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	-2.4	-2.2
	Virgin River	0.0	11.9	0.0	11.9	0.0	0.0	0.5	0.5	0.0	0.0	12.4
	Muddy River	5.2	90.1	0.4	90.5	1.2	7.5	1.6	10.2	0.0	0.0	106.0
	<b>TOTAL</b>	<b>5.4</b>	<b>102.6</b>	<b>1.2</b>	<b>103.8</b>	<b>1.2</b>	<b>7.5</b>	<b>63.2</b>	<b>71.9</b>	<b>0.0</b>	<b>-2.4</b>	<b>178.7</b>
New Mexico	Gila River	0.6	9.6	2.6	12.2	6.7	0.0	0.5	7.3	1.0	0.0	21.0
	Little Colorado River	1.1	0.0	0.9	0.9	1.4	0.0	8.7	10.1	0.0	0.0	12.2
	<b>TOTAL</b>	<b>1.7</b>	<b>9.6</b>	<b>3.5</b>	<b>13.1</b>	<b>8.1</b>	<b>0.0</b>	<b>9.3</b>	<b>17.4</b>	<b>1.0</b>	<b>0.0</b>	<b>33.2</b>
Utah	Tributary Area Above Lake Mead	0.0	7.9	0.0	7.9	0.0	0.0	0.7	0.7	0.0	0.0	8.6
	Virgin River	3.3	56.1	0.6	56.7	0.1	0.0	17.3	17.4	0.2	0.0	77.7
	<b>TOTAL</b>	<b>3.4</b>	<b>63.9</b>	<b>0.6</b>	<b>64.6</b>	<b>0.1</b>	<b>0.0</b>	<b>18.0</b>	<b>18.1</b>	<b>0.2</b>	<b>0.0</b>	<b>86.2</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	1.1	11.3	3.4	14.7	0.0	0.0	67.6	67.6	0.0	0.0	83.4
	Tributary Area Below Lake Mead	0.3	40.4	2.5	43.0	1.5	0.0	5.7	7.3	0.0	-2.4	48.1
	Gila River	184.5	2,377.8	29.5	2,407.2	158.3	22.4	504.6	685.3	1.0	-772.8	2,505.2
	Little Colorado River	13.6	42.7	7.5	50.1	3.0	20.7	39.7	63.5	0.0	16.2	143.3
	Bill Williams River	12.7	18.9	0.7	19.6	3.0	0.0	0.8	3.8	0.0	0.0	36.1
	Virgin River	3.5	76.3	1.4	77.6	0.1	0.0	18.3	18.4	0.2	0.0	99.8
	Muddy River	5.2	90.1	0.4	90.5	1.2	7.5	1.6	10.2	0.0	0.0	106.0
	<b>TOTAL</b>	<b>220.8</b>	<b>2,657.4</b>	<b>45.3</b>	<b>2,702.7</b>	<b>167.2</b>	<b>50.6</b>	<b>638.4</b>	<b>856.2</b>	<b>1.2</b>	<b>-759.0</b>	<b>3,021.9</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1990**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture			Municipal and Industrial			Export		TOTAL	
			Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.6	3.6	2.3	5.9	0.0	0.0	6.3	6.4	0.0	0.0	12.8
	Tributary Area Below Lake Mead	0.3	51.4	2.4	53.8	1.6	0.0	5.7	7.3	0.0	0.0	61.4
	Gila River	111.1	2,299.2	24.9	2,324.1	166.8	49.9	512.1	728.8	0.0	-783.0	2,381.0
	Little Colorado River	9.5	44.2	5.9	50.2	1.7	19.0	31.5	52.2	0.0	6.3	118.2
	Bill Williams River	9.9	20.5	0.6	21.1	3.0	0.0	0.9	3.9	0.0	0.0	34.9
	Virgin River	0.1	8.4	0.7	9.1	0.0	0.0	0.6	0.6	0.0	0.0	9.8
	<b>TOTAL</b>		<b>131.5</b>	<b>2,427.2</b>	<b>37.0</b>	<b>2,464.2</b>	<b>173.2</b>	<b>68.8</b>	<b>557.1</b>	<b>799.1</b>	<b>0.0</b>	<b>-776.7</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>	<b>0.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>
Nevada	Tributary Area Above Lake Mead	0.2	1.4	0.7	2.1	0.0	0.0	53.0	53.0	0.0	0.0	55.4
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	-2.4	-2.2
	Virgin River	0.0	8.7	0.0	8.7	0.0	0.0	0.5	0.5	0.0	0.0	9.3
	Muddy River	4.9	104.8	0.4	105.2	1.4	6.7	1.7	9.8	0.0	0.0	119.8
	<b>TOTAL</b>	<b>5.1</b>	<b>114.9</b>	<b>1.1</b>	<b>116.0</b>	<b>1.4</b>	<b>6.7</b>	<b>55.4</b>	<b>63.5</b>	<b>0.0</b>	<b>-2.4</b>	<b>182.3</b>
New Mexico	Gila River	0.5	9.3	2.3	11.7	6.9	0.0	0.4	7.4	0.6	0.0	20.1
	Little Colorado River	0.9	0.0	0.8	0.8	0.4	0.0	8.9	9.3	0.0	0.0	11.0
	<b>TOTAL</b>	<b>1.4</b>	<b>9.3</b>	<b>3.2</b>	<b>12.5</b>	<b>7.3</b>	<b>0.0</b>	<b>9.4</b>	<b>16.7</b>	<b>0.6</b>	<b>0.0</b>	<b>31.1</b>
Utah	Tributary Area Above Lake Mead	0.0	7.4	0.0	7.4	0.0	0.0	0.7	0.7	0.0	0.0	8.1
	Virgin River	2.9	54.3	0.6	54.9	0.1	0.0	18.2	18.3	0.2	0.0	76.4
	<b>TOTAL</b>	<b>3.0</b>	<b>61.7</b>	<b>0.6</b>	<b>62.3</b>	<b>0.1</b>	<b>0.0</b>	<b>18.9</b>	<b>19.0</b>	<b>0.2</b>	<b>0.0</b>	<b>84.5</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	0.8	12.4	3.1	15.5	0.0	0.0	60.0	60.1	0.0	0.0	76.3
	Tributary Area Below Lake Mead	0.3	51.4	2.4	53.8	1.7	0.0	6.0	7.7	0.0	-2.4	59.4
	Gila River	111.5	2,308.5	27.2	2,335.8	173.8	49.9	512.6	736.2	0.6	-783.0	2,401.1
	Little Colorado River	10.4	44.2	6.8	51.0	2.0	19.0	40.4	61.4	0.0	6.3	129.2
	Bill Williams River	9.9	20.5	0.6	21.1	3.0	0.0	0.9	3.9	0.0	0.0	34.9
	Virgin River	3.1	71.4	1.3	72.7	0.1	0.0	19.3	19.4	0.2	0.0	95.4
	Muddy River	4.9	104.8	0.4	105.2	1.4	6.7	1.7	9.8	0.0	0.0	119.8
	<b>TOTAL</b>	<b>140.9</b>	<b>2,613.2</b>	<b>41.8</b>	<b>2,655.0</b>	<b>182.1</b>	<b>75.5</b>	<b>640.9</b>	<b>898.5</b>	<b>0.8</b>	<b>-779.1</b>	<b>2,916.2</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1991**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Export		TOTAL	
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.6	2.0	2.3	4.3	0.0	0.0	6.7	6.8	0.0	0.0	11.7
	Tributary Area Below Lake Mead	0.3	41.7	2.4	44.1	5.7	0.0	6.1	11.8	0.0	0.0	56.2
	Gila River	183.2	2,346.8	24.7	2,371.5	158.2	58.9	528.7	745.8	0.0	-456.7	2,843.8
	Little Colorado River	9.4	41.9	5.9	47.8	1.7	20.3	32.2	54.2	0.0	5.6	117.0
	Bill Williams River	10.8	17.7	0.6	18.3	7.7	0.0	0.9	8.6	0.0	0.0	37.8
	Virgin River	0.1	7.1	0.7	7.8	0.0	0.0	0.6	0.6	0.0	0.0	8.6
	<b>TOTAL</b>		<b>204.5</b>	<b>2,457.2</b>	<b>36.6</b>	<b>2,493.8</b>	<b>173.4</b>	<b>79.2</b>	<b>575.2</b>	<b>827.8</b>	<b>0.0</b>	<b>-451.0</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>	<b>0.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>
Nevada	Tributary Area Above Lake Mead	1.2	0.7	0.7	1.4	0.0	0.0	56.7	56.7	0.0	0.0	59.3
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	-2.8	-2.6
	Virgin River	0.0	9.2	0.0	9.2	0.0	0.0	0.6	0.6	0.0	0.0	9.8
	Muddy River	5.0	90.6	0.4	91.0	1.4	6.4	1.7	9.6	0.0	0.0	105.6
	<b>TOTAL</b>	<b>6.2</b>	<b>100.5</b>	<b>1.1</b>	<b>101.6</b>	<b>1.4</b>	<b>6.4</b>	<b>59.2</b>	<b>67.1</b>	<b>0.0</b>	<b>-2.8</b>	<b>172.1</b>
New Mexico	Gila River	0.5	9.3	2.3	11.5	5.7	0.0	0.4	6.1	0.5	0.0	18.7
	Little Colorado River	0.9	0.1	0.8	1.0	0.3	0.0	9.3	9.6	0.0	0.0	11.5
	<b>TOTAL</b>	<b>1.5</b>	<b>9.4</b>	<b>3.1</b>	<b>12.5</b>	<b>6.0</b>	<b>0.0</b>	<b>9.7</b>	<b>15.7</b>	<b>0.5</b>	<b>0.0</b>	<b>30.2</b>
Utah	Tributary Area Above Lake Mead	0.0	6.0	0.0	6.1	0.0	0.0	0.7	0.7	0.0	0.0	6.8
	Virgin River	3.0	56.3	0.6	56.9	0.1	0.0	19.7	19.8	0.8	0.0	80.5
	<b>TOTAL</b>	<b>3.1</b>	<b>62.4</b>	<b>0.6</b>	<b>62.9</b>	<b>0.1</b>	<b>0.0</b>	<b>20.3</b>	<b>20.5</b>	<b>0.8</b>	<b>0.0</b>	<b>87.3</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	1.8	8.7	3.1	11.8	0.0	0.0	64.1	64.1	0.0	0.0	77.7
	Tributary Area Below Lake Mead	0.3	41.7	2.4	44.1	5.7	0.0	6.4	12.2	0.0	-2.8	53.8
	Gila River	183.7	2,356.1	26.9	2,383.0	163.9	58.9	529.1	752.0	0.5	-456.7	2,862.5
	Little Colorado River	10.4	42.0	6.7	48.8	2.0	20.3	41.5	63.8	0.0	5.6	128.6
	Bill Williams River	10.8	17.7	0.6	18.3	7.7	0.0	0.9	8.6	0.0	0.0	37.8
	Virgin River	3.2	72.6	1.3	73.9	0.1	0.0	20.9	21.1	0.8	0.0	98.9
	Muddy River	5.0	90.6	0.4	91.0	1.4	6.4	1.7	9.6	0.0	0.0	105.6
	<b>TOTAL</b>	<b>215.2</b>	<b>2,629.4</b>	<b>41.4</b>	<b>2,670.9</b>	<b>181.0</b>	<b>85.6</b>	<b>664.7</b>	<b>931.3</b>	<b>1.3</b>	<b>-453.8</b>	<b>3,364.8</b>

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<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1992**

		(1,000 acre-feet)										
State	Tributary	Reservoir Evaporation	Agriculture			Municipal and Industrial				Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.5	7.3	2.1	9.5	0.0	0.0	7.1	7.1	0.0	0.0	17.1
	Tributary Area Below Lake Mead	0.2	35.0	2.3	37.3	9.8	0.0	6.5	16.3	0.0	0.0	53.8
	Gila River	154.0	2,685.1	23.0	2,708.1	149.6	60.8	546.9	757.3	0.0	-592.2	3,027.3
	Little Colorado River	6.8	64.4	5.3	69.7	1.8	24.0	32.9	58.7	0.0	2.8	138.0
	Bill Williams River	8.9	24.3	0.6	24.9	12.4	0.0	0.9	13.4	0.0	0.0	47.1
	Virgin River	0.1	7.7	0.7	8.4	0.0	0.0	0.7	0.7	0.0	0.0	9.2
	<b>TOTAL</b>	<b>170.6</b>	<b>2,823.8</b>	<b>34.1</b>	<b>2,857.8</b>	<b>173.7</b>	<b>84.8</b>	<b>595.0</b>	<b>853.4</b>	<b>0.0</b>	<b>-589.4</b>	<b>3,292.4</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.2
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>	<b>0.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>
Nevada	Tributary Area Above Lake Mead	1.1	1.2	0.7	1.9	0.0	0.0	63.8	63.8	0.0	0.0	66.8
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	-2.7	-2.4
	Virgin River	0.0	9.2	0.0	9.2	0.0	0.0	0.7	0.7	0.0	0.0	9.9
	Muddy River	4.7	102.4	0.4	102.8	1.4	5.2	1.8	8.3	0.0	0.0	115.8
	<b>TOTAL</b>	<b>5.8</b>	<b>112.8</b>	<b>1.0</b>	<b>113.8</b>	<b>1.4</b>	<b>5.2</b>	<b>66.5</b>	<b>73.1</b>	<b>0.0</b>	<b>-2.7</b>	<b>190.1</b>
New Mexico	Gila River	0.5	7.5	2.3	9.8	4.0	0.0	0.4	4.4	0.3	0.0	15.1
	Little Colorado River	0.9	0.2	0.8	1.0	0.2	0.0	9.6	9.8	0.0	0.0	11.7
	<b>TOTAL</b>	<b>1.4</b>	<b>7.8</b>	<b>3.1</b>	<b>10.9</b>	<b>4.3</b>	<b>0.0</b>	<b>10.0</b>	<b>14.2</b>	<b>0.3</b>	<b>0.0</b>	<b>26.8</b>
Utah	Tributary Area Above Lake Mead	0.0	12.2	0.0	12.2	0.0	0.0	0.7	0.7	0.0	0.0	12.9
	Virgin River	2.6	69.4	0.5	69.9	0.2	0.0	21.0	21.2	4.2	0.0	97.9
	<b>TOTAL</b>	<b>2.6</b>	<b>81.6</b>	<b>0.5</b>	<b>82.1</b>	<b>0.2</b>	<b>0.0</b>	<b>21.7</b>	<b>21.9</b>	<b>4.2</b>	<b>0.0</b>	<b>110.8</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	1.6	20.8	2.8	23.6	0.0	0.0	71.5	71.6	0.0	0.0	96.8
	Tributary Area Below Lake Mead	0.2	35.0	2.3	37.3	9.8	0.0	6.8	16.7	0.0	-2.7	51.5
	Gila River	154.6	2,692.6	25.3	2,717.9	153.6	60.8	547.3	761.7	0.3	-592.2	3,042.3
	Little Colorado River	7.7	64.7	6.1	70.8	2.0	24.0	42.5	68.5	0.0	2.8	149.7
	Bill Williams River	8.9	24.3	0.6	24.9	12.4	0.0	0.9	13.4	0.0	0.0	47.1
	Virgin River	2.7	86.2	1.2	87.5	0.2	0.0	22.4	22.6	4.2	0.0	116.9
	Muddy River	4.7	102.4	0.4	102.8	1.4	5.2	1.8	8.3	0.0	0.0	115.8
	<b>TOTAL</b>	<b>180.4</b>	<b>3,025.9</b>	<b>38.7</b>	<b>3,064.6</b>	<b>179.5</b>	<b>90.0</b>	<b>693.3</b>	<b>962.8</b>	<b>4.5</b>	<b>-592.1</b>	<b>3,620.3</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1993**

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.5	6.6	2.1	8.7	0.0	0.0	7.4	7.5	0.0	0.0	16.8
	Tributary Area Below Lake Mead	0.3	34.6	2.3	37.0	13.8	0.0	6.9	20.8	0.0	0.0	58.0
	Gila River	333.3	2,631.6	23.5	2,655.1	141.0	52.9	568.7	762.6	0.0	-1,029.1	2,722.0
	Little Colorado River	8.4	60.9	5.4	66.3	1.8	26.2	33.9	61.9	0.0	6.8	143.5
	Bill Williams River	13.4	23.3	0.5	23.9	17.2	0.0	0.9	18.1	0.0	0.0	55.4
	Virgin River	0.1	7.3	0.7	8.0	0.0	0.0	0.7	0.7	0.0	0.0	8.9
	<b>TOTAL</b>		<b>356.0</b>	<b>2,764.4</b>	<b>34.7</b>	<b>2,799.0</b>	<b>173.9</b>	<b>79.1</b>	<b>618.6</b>	<b>871.6</b>	<b>0.0</b>	<b>-1,022.2</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	1.2	1.2	0.7	1.9	0.0	0.0	63.2	63.2	0.0	0.0	66.3
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	-2.6	-2.3
	Virgin River	0.0	11.1	0.0	11.1	0.0	0.0	0.8	0.8	0.0	0.0	12.0
	Muddy River	4.8	98.6	0.4	99.0	1.4	6.0	1.8	9.2	0.0	0.0	113.0
	<b>TOTAL</b>	<b>6.0</b>	<b>110.9</b>	<b>1.1</b>	<b>112.0</b>	<b>1.4</b>	<b>6.0</b>	<b>66.0</b>	<b>73.4</b>	<b>0.0</b>	<b>-2.6</b>	<b>188.9</b>
New Mexico	Gila River	0.5	9.8	2.3	12.2	3.2	0.0	0.4	3.6	0.4	0.0	16.6
	Little Colorado River	0.9	0.3	0.8	1.1	0.2	0.0	9.7	9.9	0.0	0.0	11.9
	<b>TOTAL</b>	<b>1.4</b>	<b>10.1</b>	<b>3.2</b>	<b>13.2</b>	<b>3.3</b>	<b>0.0</b>	<b>10.1</b>	<b>13.4</b>	<b>0.4</b>	<b>0.0</b>	<b>28.5</b>
Utah	Tributary Area Above Lake Mead	0.0	10.4	0.0	10.4	0.0	0.0	0.7	0.7	0.0	0.0	11.2
	Virgin River	2.6	64.3	0.5	64.8	0.2	0.0	22.8	22.9	6.2	0.0	96.5
	<b>TOTAL</b>	<b>2.6</b>	<b>74.7</b>	<b>0.5</b>	<b>75.2</b>	<b>0.2</b>	<b>0.0</b>	<b>23.5</b>	<b>23.7</b>	<b>6.2</b>	<b>0.0</b>	<b>107.7</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	1.8	18.2	2.8	21.0	0.0	0.0	71.3	71.4	0.0	0.0	94.2
	Tributary Area Below Lake Mead	0.3	34.6	2.3	37.0	13.9	0.0	7.3	21.1	0.0	-2.6	55.8
	Gila River	333.9	2,641.4	25.8	2,667.3	144.2	52.9	569.1	766.2	0.4	-1,029.1	2,738.6
	Little Colorado River	9.3	61.2	6.3	67.4	2.0	26.2	43.6	71.8	0.0	6.8	155.3
	Bill Williams River	13.4	23.3	0.5	23.9	17.2	0.0	0.9	18.1	0.0	0.0	55.4
	Virgin River	2.7	82.8	1.2	84.0	0.2	0.0	24.3	24.5	6.2	0.0	117.3
	Muddy River	4.8	98.6	0.4	99.0	1.4	6.0	1.8	9.2	0.0	0.0	113.0
	<b>TOTAL</b>	<b>366.1</b>	<b>2,960.1</b>	<b>39.4</b>	<b>2,999.5</b>	<b>178.8</b>	<b>85.0</b>	<b>718.4</b>	<b>982.3</b>	<b>6.5</b>	<b>-1,024.8</b>	<b>3,329.6</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.



**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1994**

		(1,000 acre-feet)										
State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.7	4.6	2.3	7.0	0.0	0.0	7.8	7.8	0.0	0.0	15.5
	Tributary Area Below Lake Mead	0.3	31.9	2.5	34.4	17.9	0.0	7.2	25.2	0.0	0.0	59.8
	Gila River	204.0	2,644.9	24.8	2,669.6	132.4	56.2	594.6	783.2	0.0	-746.8	2,910.0
	Little Colorado River	9.9	60.7	5.5	66.3	1.9	26.2	34.8	62.9	0.0	18.0	157.1
	Bill Williams River	11.5	10.5	0.6	11.1	21.9	0.0	1.0	22.9	0.0	0.0	45.5
	Virgin River	0.1	6.8	0.7	7.5	0.0	0.0	0.8	0.8	0.0	0.0	8.5
	<b>TOTAL</b>		<u>226.4</u>	<u>2,759.6</u>	<u>36.4</u>	<u>2,796.0</u>	<u>174.1</u>	<u>82.4</u>	<u>646.3</u>	<u>902.8</u>	<u>0.0</u>	<u>-728.8</u>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>
Nevada	Tributary Area Above Lake Mead	1.3	0.8	0.7	1.5	0.0	0.0	66.0	66.0	0.0	0.0	68.8
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	-2.8	-2.6
	Virgin River	0.0	9.9	0.0	9.9	0.0	0.0	1.0	1.0	0.0	0.0	10.9
	Muddy River	4.9	90.8	0.4	91.2	1.4	4.7	1.9	8.0	0.0	0.0	104.1
	<b>TOTAL</b>	<u>6.2</u>	<u>101.5</u>	<u>1.1</u>	<u>102.6</u>	<u>1.4</u>	<u>4.7</u>	<u>69.1</u>	<u>75.2</u>	<u>0.0</u>	<u>-2.8</u>	<u>181.2</u>
New Mexico	Gila River	0.6	8.0	2.4	10.4	4.7	0.0	0.4	5.1	0.6	0.0	16.6
	Little Colorado River	0.9	0.0	0.8	0.8	0.1	0.0	9.9	10.0	0.0	0.0	11.7
	<b>TOTAL</b>	<u>1.5</u>	<u>8.0</u>	<u>3.1</u>	<u>11.2</u>	<u>4.8</u>	<u>0.0</u>	<u>10.3</u>	<u>15.1</u>	<u>0.6</u>	<u>0.0</u>	<u>28.4</u>
Utah	Tributary Area Above Lake Mead	0.0	9.2	0.0	9.2	0.0	0.0	0.7	0.7	0.0	0.0	10.0
	Virgin River	2.9	67.6	0.5	68.2	0.2	0.0	24.9	25.0	1.2	0.0	97.3
	<b>TOTAL</b>	<u>2.9</u>	<u>76.8</u>	<u>0.6</u>	<u>77.4</u>	<u>0.2</u>	<u>0.0</u>	<u>25.6</u>	<u>25.8</u>	<u>1.2</u>	<u>0.0</u>	<u>107.3</u>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	2.0	14.7	3.1	17.7	0.0	0.0	74.5	74.6	0.0	0.0	94.3
	Tributary Area Below Lake Mead	0.3	31.9	2.5	34.4	18.0	0.0	7.6	25.6	0.0	-2.8	57.4
	Gila River	204.6	2,652.9	27.1	2,680.0	137.0	56.2	595.0	788.3	0.6	-746.8	2,926.7
	Little Colorado River	10.8	60.8	6.3	67.1	2.0	26.2	44.8	73.0	0.0	18.0	168.8
	Bill Williams River	11.5	10.5	0.6	11.1	21.9	0.0	1.0	22.9	0.0	0.0	45.5
	Virgin River	3.0	84.4	1.2	85.6	0.2	0.0	26.6	26.8	1.2	0.0	116.6
	Muddy River	4.9	90.8	0.4	91.2	1.4	4.7	1.9	8.0	0.0	0.0	104.1
	<b>TOTAL</b>	<u>237.1</u>	<u>2,945.9</u>	<u>41.2</u>	<u>2,987.1</u>	<u>180.5</u>	<u>87.2</u>	<u>751.4</u>	<u>1,019.0</u>	<u>1.8</u>	<u>-731.6</u>	<u>3,513.4</u>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1995**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Export		TOTAL	
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.7	3.9	2.2	6.1	0.0	0.0	8.1	8.2	0.0	0.0	15.0
	Tributary Area Below Lake Mead	0.3	35.9	2.5	38.3	22.0	0.0	7.6	29.6	0.0	0.0	68.2
	Gila River	267.8	3,085.7	25.5	3,111.2	123.7	63.9	620.3	808.0	0.0	-797.8	3,389.1
	Little Colorado River	11.0	45.1	5.5	50.7	1.9	20.2	35.8	57.9	0.0	15.6	135.1
	Bill Williams River	13.9	11.6	0.6	12.2	26.6	0.0	1.0	27.6	0.0	0.0	53.8
	Virgin River	0.1	6.6	0.7	7.2	0.0	0.0	0.9	0.9	0.0	0.0	8.2
	<b>TOTAL</b>		<b>293.8</b>	<b>3,188.7</b>	<b>37.0</b>	<b>3,225.7</b>	<b>174.3</b>	<b>84.1</b>	<b>673.7</b>	<b>932.1</b>	<b>0.0</b>	<b>-782.3</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	1.3	0.8	0.7	1.5	0.0	0.0	65.0	65.0	0.0	0.0	67.8
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	-3.0	-2.7
	Virgin River	0.0	8.5	0.0	8.5	0.0	0.0	1.1	1.1	0.0	0.0	9.6
	Muddy River	4.7	98.0	0.4	98.4	1.4	4.0	1.9	7.3	0.0	0.0	110.4
	<b>TOTAL</b>	<b>6.0</b>	<b>107.3</b>	<b>1.1</b>	<b>108.4</b>	<b>1.4</b>	<b>4.0</b>	<b>68.2</b>	<b>73.7</b>	<b>0.0</b>	<b>-3.0</b>	<b>185.1</b>
New Mexico	Gila River	0.7	10.0	2.6	12.6	6.2	0.0	0.5	6.6	0.4	0.0	20.3
	Little Colorado River	1.0	0.0	0.8	0.9	0.0	0.0	10.2	10.2	0.0	0.0	12.1
	<b>TOTAL</b>	<b>1.7</b>	<b>10.0</b>	<b>3.4</b>	<b>13.4</b>	<b>6.2</b>	<b>0.0</b>	<b>10.6</b>	<b>16.8</b>	<b>0.4</b>	<b>0.0</b>	<b>32.4</b>
Utah	Tributary Area Above Lake Mead	0.0	10.8	0.0	10.8	0.0	0.0	0.8	0.8	0.0	0.0	11.6
	Virgin River	2.6	65.8	0.5	66.3	0.2	0.0	26.9	27.1	8.3	0.0	104.4
	<b>TOTAL</b>	<b>2.7</b>	<b>76.5</b>	<b>0.5</b>	<b>77.1</b>	<b>0.2</b>	<b>0.0</b>	<b>27.7</b>	<b>27.9</b>	<b>8.3</b>	<b>0.0</b>	<b>115.9</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	2.0	15.5	2.9	18.4	0.0	0.0	73.8	73.9	0.0	0.0	94.3
	Tributary Area Below Lake Mead	0.3	35.9	2.5	38.3	22.0	0.0	8.0	30.0	0.0	-3.0	65.6
	Gila River	268.5	3,095.6	28.1	3,123.7	129.9	63.9	620.8	814.6	0.4	-797.8	3,409.4
	Little Colorado River	12.0	45.2	6.3	51.5	2.0	20.2	45.9	68.1	0.0	15.6	147.2
	Bill Williams River	13.9	11.6	0.6	12.2	26.6	0.0	1.0	27.6	0.0	0.0	53.8
	Virgin River	2.8	80.8	1.2	82.0	0.2	0.0	28.9	29.1	8.3	0.0	122.2
	Muddy River	4.7	98.0	0.4	98.4	1.4	4.0	1.9	7.3	0.0	0.0	110.4
	<b>TOTAL</b>	<b>304.2</b>	<b>3,382.6</b>	<b>42.0</b>	<b>3,424.6</b>	<b>182.1</b>	<b>88.1</b>	<b>780.4</b>	<b>1,050.6</b>	<b>8.8</b>	<b>-785.3</b>	<b>4,003.0</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

Lower Colorado River System  
Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>  
1996

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Subtotal	Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>		Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.8	3.6	2.4	5.9	0.0	0.0	8.4	8.4	0.0	0.0	15.1
	Tributary Area Below Lake Mead	0.3	34.3	2.6	36.8	17.6	0.0	8.1	25.7	0.0	0.0	62.8
	Gila River	207.6	2,858.6	26.2	2,884.8	117.7	68.5	642.4	828.6	0.0	-1,198.2	2,722.9
	Little Colorado River	11.7	53.2	5.6	58.7	1.8	22.3	36.5	60.6	0.0	4.9	135.9
	Bill Williams River	14.7	9.1	0.6	9.7	25.7	0.0	1.0	26.7	0.0	0.0	51.1
	Virgin River	0.1	4.6	0.6	5.2	0.0	0.0	0.9	0.9	0.0	0.0	6.3
	<b>TOTAL</b>		235.2	2,963.3	38.0	3,001.3	162.8	90.8	697.2	950.9	0.0	-1,193.3
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
Nevada	Tributary Area Above Lake Mead	1.3	0.8	0.7	1.5	0.0	0.0	69.8	69.8	0.0	0.0	72.6
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	-2.8	-2.5
	Virgin River	0.0	7.7	0.0	7.7	0.0	0.0	1.3	1.3	0.0	0.0	9.0
	Muddy River	5.2	91.4	0.4	91.8	2.1	4.4	2.0	8.5	0.0	0.0	105.5
	<b>TOTAL</b>	6.5	99.9	1.1	101.0	2.1	4.4	73.3	79.8	0.0	-2.8	184.6
New Mexico	Gila River	0.6	8.7	2.4	11.1	6.0	0.0	0.5	6.4	0.8	0.0	18.9
	Little Colorado River	1.0	0.0	0.8	0.8	0.0	0.0	10.4	10.4	0.0	0.0	12.1
	<b>TOTAL</b>	1.6	8.7	3.2	11.9	6.0	0.0	10.8	16.8	0.8	0.0	31.0
Utah	Tributary Area Above Lake Mead	0.0	6.9	0.0	6.9	0.0	0.0	0.8	0.8	0.0	0.0	7.7
	Virgin River	3.0	52.7	0.5	53.3	0.2	0.0	28.8	28.9	3.3	0.0	88.5
	<b>TOTAL</b>	3.0	59.6	0.6	60.2	0.2	0.0	29.5	29.7	3.3	0.0	96.3
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	2.1	11.3	3.1	14.3	0.0	0.0	78.9	79.0	0.0	0.0	95.5
	Tributary Area Below Lake Mead	0.3	34.3	2.6	36.8	17.6	0.0	8.4	26.0	0.0	-2.8	60.4
	Gila River	208.2	2,867.3	28.7	2,895.9	123.6	68.5	642.9	835.0	0.8	-1,198.2	2,741.8
	Little Colorado River	12.7	53.2	6.4	59.5	1.8	22.3	46.8	71.0	0.0	4.9	148.0
	Bill Williams River	14.7	9.1	0.6	9.7	25.7	0.0	1.0	26.7	0.0	0.0	51.1
	Virgin River	3.1	65.0	1.2	66.2	0.2	0.0	31.0	31.1	3.3	0.0	103.8
	Muddy River	5.2	91.4	0.4	91.8	2.1	4.4	2.0	8.5	0.0	0.0	105.5
	<b>TOTAL</b>	246.3	3,131.5	42.9	3,174.4	171.0	95.3	811.0	1,077.3	4.2	-1,196.1	3,306.1

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1997**

		(1,000 acre-feet)										
State	Tributary	Agriculture				Municipal and Industrial			Export		TOTAL	
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.7	3.2	2.2	5.5	0.0	0.0	8.6	8.6	0.0	0.0	14.8
	Tributary Area Below Lake Mead	0.3	35.4	2.4	37.8	13.2	0.0	8.5	21.7	0.0	0.0	59.8
	Gila River	165.3	2,507.3	25.8	2,533.1	111.7	70.0	663.9	845.6	0.0	-1,424.4	2,119.5
	Little Colorado River	9.9	56.1	5.0	61.1	1.7	23.9	37.0	62.7	0.0	13.3	147.0
	Bill Williams River	10.7	9.4	0.6	10.0	24.8	0.0	1.0	25.8	0.0	0.0	46.4
	Virgin River	0.1	5.2	0.6	5.8	0.0	0.0	1.0	1.0	0.0	0.0	6.9
	<b>TOTAL</b>		<u>186.9</u>	<u>2,616.6</u>	<u>36.6</u>	<u>2,653.2</u>	<u>151.4</u>	<u>93.9</u>	<u>720.0</u>	<u>965.3</u>	<u>0.0</u>	<u>-1,411.1</u>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>
Nevada	Tributary Area Above Lake Mead	1.4	0.9	0.7	1.6	0.0	0.0	69.2	69.2	0.0	0.0	72.1
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	-2.9	-2.6
	Virgin River	0.0	8.5	0.0	8.5	0.0	0.0	1.5	1.5	0.0	0.0	9.9
	Muddy River	4.9	91.9	0.4	92.3	2.7	5.2	2.1	10.0	0.0	0.0	107.2
	<b>TOTAL</b>	<u>6.3</u>	<u>101.3</u>	<u>1.1</u>	<u>102.4</u>	<u>2.7</u>	<u>5.2</u>	<u>72.9</u>	<u>80.9</u>	<u>0.0</u>	<u>-2.9</u>	<u>186.7</u>
New Mexico	Gila River	0.6	10.2	2.4	12.6	4.5	0.0	0.4	5.0	0.9	0.0	19.0
	Little Colorado River	0.9	0.0	0.7	0.7	0.0	0.0	10.5	10.5	0.0	0.0	12.1
	<b>TOTAL</b>	<u>1.4</u>	<u>10.2</u>	<u>3.1</u>	<u>13.3</u>	<u>4.6</u>	<u>0.0</u>	<u>10.9</u>	<u>15.4</u>	<u>0.9</u>	<u>0.0</u>	<u>31.1</u>
Utah	Tributary Area Above Lake Mead	0.0	11.7	0.0	11.7	0.0	0.0	0.8	0.8	0.0	0.0	12.5
	Virgin River	2.9	66.3	0.5	66.9	0.1	0.0	30.2	30.3	3.3	0.0	103.4
	<b>TOTAL</b>	<u>2.9</u>	<u>78.0</u>	<u>0.6</u>	<u>78.6</u>	<u>0.1</u>	<u>0.0</u>	<u>30.9</u>	<u>31.0</u>	<u>3.3</u>	<u>0.0</u>	<u>115.9</u>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	2.1	15.9	2.9	18.8	0.0	0.0	78.5	78.6	0.0	0.0	99.4
	Tributary Area Below Lake Mead	0.3	35.4	2.4	37.8	13.2	0.0	8.8	22.0	0.0	-2.9	57.3
	Gila River	165.9	2,517.5	28.1	2,545.6	116.2	70.0	664.3	850.5	0.9	-1,424.4	2,138.5
	Little Colorado River	10.8	56.1	5.7	61.8	1.7	23.9	47.5	73.2	0.0	13.3	159.1
	Bill Williams River	10.7	9.4	0.6	10.0	24.8	0.0	1.0	25.8	0.0	0.0	46.4
	Virgin River	3.0	80.0	1.2	81.1	0.1	0.0	32.6	32.7	3.3	0.0	120.2
	Muddy River	4.9	91.9	0.4	92.3	2.7	5.2	2.1	10.0	0.0	0.0	107.2
	<b>TOTAL</b>	<u>197.5</u>	<u>2,806.2</u>	<u>41.3</u>	<u>2,847.5</u>	<u>158.8</u>	<u>99.1</u>	<u>834.9</u>	<u>1,092.8</u>	<u>4.3</u>	<u>-1,413.9</u>	<u>2,728.2</u>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1998**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Export		TOTAL	
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.6	3.6	2.0	5.7	0.0	0.0	8.8	8.8	0.0	0.0	15.0
	Tributary Area Below Lake Mead	0.3	46.1	2.4	48.5	8.8	0.0	8.9	17.7	0.0	0.0	66.5
	Gila River	176.1	2,623.5	25.7	2,649.2	105.6	72.8	685.3	863.7	0.0	-1,243.1	2,445.9
	Little Colorado River	9.6	56.8	5.0	61.7	1.6	25.2	37.3	64.1	0.0	17.6	153.1
	Bill Williams River	13.7	12.8	0.5	13.4	23.8	0.0	1.0	24.9	0.0	0.0	51.9
	Virgin River	0.1	5.8	0.6	6.3	0.0	0.0	1.0	1.0	0.0	0.0	7.4
	<b>TOTAL</b>		200.3	2,748.6	36.2	2,784.8	139.9	98.0	742.3	980.2	0.0	-1,225.4
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
Nevada	Tributary Area Above Lake Mead	1.3	1.2	0.6	1.8	0.0	0.0	65.8	65.8	0.0	0.0	68.9
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	-2.8	-2.5
	Virgin River	0.0	8.0	0.0	8.0	0.0	0.0	1.6	1.6	0.0	0.0	9.7
	Muddy River	4.2	103.1	0.4	103.5	3.4	7.5	2.1	13.0	0.0	0.0	120.7
	<b>TOTAL</b>	5.5	112.3	1.0	113.3	3.4	7.5	69.8	80.8	0.0	-2.8	196.7
New Mexico	Gila River	0.6	12.0	2.5	14.5	5.4	0.0	0.4	5.8	0.8	0.0	21.7
	Little Colorado River	0.9	0.0	0.7	0.8	0.0	0.0	10.6	10.6	0.0	0.0	12.2
	<b>TOTAL</b>	1.5	12.1	3.2	15.2	5.4	0.0	11.0	16.4	0.8	0.0	33.9
Utah	Tributary Area Above Lake Mead	0.0	10.7	0.0	10.7	0.0	0.0	0.8	0.8	0.0	0.0	11.5
	Virgin River	2.4	66.5	0.5	67.0	0.1	0.0	31.4	31.5	3.3	0.0	104.2
	<b>TOTAL</b>	2.4	77.2	0.5	77.7	0.1	0.0	32.2	32.2	3.3	0.0	115.7
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	1.9	15.5	2.7	18.2	0.0	0.0	75.3	75.4	0.0	0.0	95.4
	Tributary Area Below Lake Mead	0.3	46.1	2.4	48.5	8.8	0.0	9.2	18.0	0.0	-2.8	64.0
	Gila River	176.7	2,635.5	28.1	2,663.7	111.0	72.8	685.7	869.5	0.8	-1,243.1	2,467.6
	Little Colorado River	10.5	56.8	5.7	62.5	1.6	25.2	47.9	74.7	0.0	17.6	165.3
	Bill Williams River	13.7	12.8	0.5	13.4	23.8	0.0	1.0	24.9	0.0	0.0	51.9
	Virgin River	2.5	80.3	1.0	81.4	0.1	0.0	34.0	34.1	3.3	0.0	121.3
	Muddy River	4.2	103.1	0.4	103.5	3.4	7.5	2.1	13.0	0.0	0.0	120.7
	<b>TOTAL</b>	209.7	2,950.2	40.8	2,991.0	148.7	105.5	855.3	1,109.6	4.2	-1,228.2	3,086.3

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**1999**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Subtotal	Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>		Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.7	2.0	2.2	4.2	0.0	0.0	9.0	9.0	0.0	0.0	13.9
	Tributary Area Below Lake Mead	0.3	47.9	2.5	50.4	4.4	0.0	9.3	13.7	0.0	0.0	64.4
	Gila River	183.6	2,362.5	27.0	2,389.5	99.6	74.5	704.4	878.5	0.0	-1,393.7	2,057.9
	Little Colorado River	11.1	60.4	5.2	65.6	1.5	26.6	37.6	65.7	0.0	8.5	150.9
	Bill Williams River	15.2	10.2	0.6	10.8	22.9	0.0	1.0	24.0	0.0	0.0	49.9
	Virgin River	0.1	5.1	0.5	5.7	0.0	0.0	1.1	1.1	0.0	0.0	6.9
	<b>TOTAL</b>		211.0	2,488.1	38.1	2,526.1	128.4	101.1	762.4	991.9	0.0	-1,385.2
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
Nevada	Tributary Area Above Lake Mead	1.4	0.9	0.7	1.6	0.0	0.0	68.8	68.8	0.0	0.0	71.8
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	-2.9	-2.6
	Virgin River	0.0	8.0	0.0	8.0	0.0	0.0	1.8	1.8	0.0	0.0	9.9
	Muddy River	5.2	88.0	0.4	88.5	4.0	6.9	2.2	13.1	0.0	0.0	106.8
	<b>TOTAL</b>	6.6	97.0	1.1	98.1	4.1	6.9	73.1	84.0	0.0	-2.9	185.9
New Mexico	Gila River	0.7	11.6	2.3	13.9	3.2	0.0	0.4	3.6	0.9	0.0	19.0
	Little Colorado River	1.0	0.0	0.8	0.8	0.0	0.0	10.6	10.6	0.0	0.0	12.5
	<b>TOTAL</b>	1.7	11.6	3.1	14.7	3.2	0.0	11.0	14.2	0.9	0.0	31.5
Utah	Tributary Area Above Lake Mead	0.0	9.2	0.0	9.2	0.0	0.0	0.8	0.8	0.0	0.0	10.0
	Virgin River	3.2	57.3	0.6	57.9	0.0	0.0	32.5	32.5	3.3	0.0	97.0
	<b>TOTAL</b>	3.2	66.5	0.6	67.1	0.0	0.0	33.2	33.3	3.3	0.0	107.0
Lower Basin Tributary Reporting Areas Totals	Tributary Area Above Lake Mead	2.1	12.1	2.9	15.0	0.0	0.0	78.6	78.6	0.0	0.0	95.7
	Tributary Area Below Lake Mead	0.3	47.9	2.5	50.4	4.4	0.0	9.7	14.1	0.0	-2.9	61.8
	Gila River	184.3	2,374.1	29.4	2,403.4	102.8	74.5	704.8	882.0	0.9	-1,393.7	2,076.9
	Little Colorado River	12.1	60.5	6.0	66.4	1.5	26.6	48.2	76.4	0.0	8.5	163.4
	Bill Williams River	15.2	10.2	0.6	10.8	22.9	0.0	1.0	24.0	0.0	0.0	49.9
	Virgin River	3.4	70.5	1.1	71.6	0.0	0.0	35.4	35.4	3.3	0.0	113.7
	Muddy River	5.2	88.0	0.4	88.5	4.0	6.9	2.2	13.1	0.0	0.0	106.8
	<b>TOTAL</b>	222.5	2,663.2	42.8	2,706.0	135.7	108.0	879.8	1,123.5	4.2	-1,388.2	2,668.2

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**2000**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Subtotal	Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>		Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.7	1.2	2.2	3.4	0.0	0.0	9.2	9.2	0.0	0.0	13.3
	Tributary Area Below Lake Mead	0.3	56.4	2.5	58.9	0.0	0.0	9.7	9.7	0.0	0.0	68.9
	Gila River	165.9	2,209.2	26.9	2,236.1	93.6	77.2	721.4	892.2	0.0	-1,426.2	1,868.0
	Little Colorado River	11.1	41.2	5.1	46.4	1.4	28.2	37.9	67.5	0.0	5.2	130.2
	Bill Williams River	13.2	8.9	0.5	9.5	22.0	0.0	1.1	23.1	0.0	0.0	45.7
	Virgin River	0.1	4.1	0.5	4.6	0.0	0.0	1.1	1.1	0.0	0.0	5.9
	<b>TOTAL</b>	<b>191.2</b>	<b>2,321.1</b>	<b>37.8</b>	<b>2,358.9</b>	<b>117.0</b>	<b>105.4</b>	<b>780.4</b>	<b>1,002.7</b>	<b>0.0</b>	<b>-1,421.0</b>	<b>2,131.8</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	1.5	1.0	0.7	1.7	0.0	0.0	69.5	69.5	0.0	0.0	72.7
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	-3.1	-2.8
	Virgin River	0.0	7.9	0.0	7.9	0.0	0.0	2.0	2.0	0.0	0.0	9.9
	Muddy River	4.9	87.4	0.4	87.8	4.7	7.9	2.2	14.8	0.0	0.0	107.5
	<b>TOTAL</b>	<b>6.3</b>	<b>96.3</b>	<b>1.1</b>	<b>97.4</b>	<b>4.7</b>	<b>7.9</b>	<b>74.0</b>	<b>86.6</b>	<b>0.0</b>	<b>-3.1</b>	<b>187.2</b>
New Mexico	Gila River	0.7	12.4	2.3	14.7	3.5	0.0	0.4	3.9	1.0	0.0	20.2
	Little Colorado River	1.0	0.0	0.8	0.8	0.0	0.0	10.8	10.8	0.0	0.0	12.6
	<b>TOTAL</b>	<b>1.7</b>	<b>12.4</b>	<b>3.0</b>	<b>15.5</b>	<b>3.5</b>	<b>0.0</b>	<b>11.1</b>	<b>14.6</b>	<b>1.0</b>	<b>0.0</b>	<b>32.8</b>
Utah	Tributary Area Above Lake Mead	0.0	7.1	0.0	7.1	0.0	0.0	0.8	0.8	0.0	0.0	7.9
	Virgin River	2.9	51.2	0.5	51.7	0.0	0.0	33.5	33.5	3.3	0.0	91.5
	<b>TOTAL</b>	<b>2.9</b>	<b>58.3</b>	<b>0.6</b>	<b>58.8</b>	<b>0.0</b>	<b>0.0</b>	<b>34.3</b>	<b>34.3</b>	<b>3.3</b>	<b>0.0</b>	<b>99.4</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	2.2	9.3	2.9	12.2	0.0	0.0	79.5	79.5	0.0	0.0	93.8
	Tributary Area Below Lake Mead	0.3	56.4	2.5	58.9	0.0	0.0	10.0	10.0	0.0	-3.1	66.1
	Gila River	166.6	2,221.7	29.1	2,250.8	97.0	77.2	721.8	896.0	1.0	-1,426.2	1,888.2
	Little Colorado River	12.1	41.3	5.9	47.2	1.4	28.2	48.6	78.3	0.0	5.2	142.7
	Bill Williams River	13.2	8.9	0.5	9.5	22.0	0.0	1.1	23.1	0.0	0.0	45.7
	Virgin River	3.1	63.2	1.0	64.3	0.0	0.0	36.6	36.6	3.3	0.0	107.3
	Muddy River	4.9	87.4	0.4	87.8	4.7	7.9	2.2	14.8	0.0	0.0	107.5
	<b>TOTAL</b>	<b>202.2</b>	<b>2,488.1</b>	<b>42.4</b>	<b>2,530.6</b>	<b>125.1</b>	<b>113.3</b>	<b>899.8</b>	<b>1,138.3</b>	<b>4.4</b>	<b>-1,424.2</b>	<b>2,451.3</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**2001**

		(1,000 acre-feet)										
State	Tributary	Reservoir Evaporation	Agriculture			Municipal and Industrial				Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.7	2.9	2.2	5.0	0.0	0.0	9.3	9.3	0.0	0.0	15.1
	Tributary Area Below Lake Mead	0.3	64.5	2.5	67.0	0.0	0.0	9.9	9.9	0.0	0.0	77.2
	Gila River	192.7	2,386.3	27.6	2,413.8	90.0	67.9	728.0	885.8	0.0	-1,530.3	1,962.0
	Little Colorado River	11.5	45.3	5.2	50.5	1.4	28.7	37.6	67.6	0.0	10.4	139.9
	Bill Williams River	16.8	10.7	0.5	11.2	21.2	0.0	1.1	22.3	0.0	0.0	50.2
	Virgin River	0.1	5.2	0.5	5.7	0.0	0.0	1.2	1.2	0.0	0.0	7.0
	<b>TOTAL</b>	<b>222.1</b>	<b>2,514.8</b>	<b>38.4</b>	<b>2,553.1</b>	<b>112.5</b>	<b>96.6</b>	<b>787.1</b>	<b>996.2</b>	<b>0.0</b>	<b>-1,519.9</b>	<b>2,251.4</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	1.5	1.0	0.6	1.7	0.0	0.0	70.9	70.9	0.0	0.0	74.0
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	-3.1	-2.9
	Virgin River	0.0	8.0	0.0	8.0	0.0	0.0	2.1	2.1	0.0	0.0	10.1
	Muddy River	5.0	90.7	0.4	91.1	4.5	7.2	2.2	13.9	0.0	0.0	110.0
	<b>TOTAL</b>	<b>6.5</b>	<b>99.7</b>	<b>1.1</b>	<b>100.8</b>	<b>4.5</b>	<b>7.2</b>	<b>75.4</b>	<b>87.2</b>	<b>0.0</b>	<b>-3.1</b>	<b>191.3</b>
New Mexico	Gila River	0.5	9.4	2.3	11.7	3.3	0.0	0.4	3.7	0.6	0.0	16.5
	Little Colorado River	1.0	0.0	0.8	0.8	0.1	0.0	10.5	10.6	0.0	0.0	12.4
	<b>TOTAL</b>	<b>1.5</b>	<b>9.4</b>	<b>3.1</b>	<b>12.5</b>	<b>3.4</b>	<b>0.0</b>	<b>10.9</b>	<b>14.3</b>	<b>0.6</b>	<b>0.0</b>	<b>28.9</b>
Utah	Tributary Area Above Lake Mead	0.0	10.0	0.0	10.1	0.0	0.0	0.8	0.8	0.0	0.0	10.9
	Virgin River	3.1	59.7	0.5	60.2	0.0	0.0	33.7	33.7	3.3	0.0	100.4
	<b>TOTAL</b>	<b>3.1</b>	<b>69.7</b>	<b>0.6</b>	<b>70.3</b>	<b>0.0</b>	<b>0.0</b>	<b>34.5</b>	<b>34.5</b>	<b>3.3</b>	<b>0.0</b>	<b>111.2</b>
Lower Basin Tributary Reporting Areas Totals	Tributary Area Above Lake Mead	2.2	13.9	2.8	16.8	0.0	0.0	80.9	80.9	0.0	0.0	99.9
	Tributary Area Below Lake Mead	0.3	64.5	2.5	67.0	0.0	0.0	10.3	10.3	0.0	-3.1	74.4
	Gila River	193.2	2,395.7	29.9	2,425.5	93.3	67.9	728.4	889.5	0.6	-1,530.3	1,978.5
	Little Colorado River	12.5	45.3	5.9	51.3	1.5	28.7	48.1	78.2	0.0	10.4	152.3
	Bill Williams River	16.8	10.7	0.5	11.2	21.2	0.0	1.1	22.3	0.0	0.0	50.2
	Virgin River	3.2	72.9	1.0	73.9	0.0	0.0	37.0	37.0	3.3	0.0	117.4
	Muddy River	5.0	90.7	0.4	91.1	4.5	7.2	2.2	13.9	0.0	0.0	110.0
	<b>TOTAL</b>	<b>233.2</b>	<b>2,693.6</b>	<b>43.1</b>	<b>2,736.7</b>	<b>120.5</b>	<b>103.7</b>	<b>907.9</b>	<b>1,132.1</b>	<b>4.0</b>	<b>-1,523.1</b>	<b>2,582.8</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.



**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**2002**

		(1,000 acre-feet)										
State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.8	0.9	2.3	3.2	0.0	0.0	9.5	9.5	0.0	0.0	13.5
	Tributary Area Below Lake Mead	0.3	64.3	2.6	66.9	0.0	0.0	10.2	10.2	0.0	0.0	77.3
	Gila River	184.0	2,228.4	28.9	2,257.3	86.4	72.3	731.0	889.6	0.0	-1,581.8	1,749.1
	Little Colorado River	12.7	46.2	5.3	51.5	1.4	25.7	37.6	64.7	0.0	3.4	132.3
	Bill Williams River	16.2	6.1	0.5	6.6	20.4	0.0	1.1	21.5	0.0	0.0	44.3
	Virgin River	0.2	3.6	0.4	4.0	0.0	0.0	1.2	1.2	0.0	0.0	5.4
	<b>TOTAL</b>		214.2	2,349.4	40.0	2,389.4	108.2	97.9	790.6	996.6	0.0	-1,578.4
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
Nevada	Tributary Area Above Lake Mead	1.5	0.8	0.7	1.4	0.0	0.0	72.6	72.6	0.0	0.0	75.6
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	-3.2	-2.9
	Virgin River	0.0	7.9	0.0	7.9	0.0	0.0	2.2	2.2	0.0	0.0	10.1
	Muddy River	5.5	87.5	0.4	88.0	4.4	7.8	2.2	14.4	0.0	0.0	107.9
	<b>TOTAL</b>	7.1	96.2	1.1	97.3	4.4	7.8	77.3	89.5	0.0	-3.2	190.7
New Mexico	Gila River	0.6	11.5	2.1	13.6	3.8	0.0	0.3	4.1	0.7	0.0	19.0
	Little Colorado River	1.0	0.1	0.7	0.8	0.2	0.0	10.2	10.3	0.0	0.0	12.1
	<b>TOTAL</b>	1.6	11.6	2.8	14.3	4.0	0.0	10.4	14.4	0.7	0.0	31.1
Utah	Tributary Area Above Lake Mead	0.0	6.4	0.0	6.4	0.0	0.0	0.8	0.8	0.0	0.0	7.2
	Virgin River	7.2	46.7	0.6	47.3	0.0	0.0	34.0	34.0	3.3	0.0	91.8
	<b>TOTAL</b>	7.3	53.1	0.6	53.7	0.0	0.0	34.7	34.7	3.3	0.0	99.0
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	2.4	8.1	3.0	11.0	0.0	0.0	82.9	82.9	0.0	0.0	96.3
	Tributary Area Below Lake Mead	0.3	64.3	2.6	66.9	0.0	0.0	10.5	10.5	0.0	-3.2	74.4
	Gila River	184.7	2,239.8	31.0	2,270.8	90.2	72.3	731.3	893.7	0.7	-1,581.8	1,768.1
	Little Colorado River	13.7	46.3	6.0	52.3	1.6	25.7	47.7	75.0	0.0	3.4	144.4
	Bill Williams River	16.2	6.1	0.5	6.6	20.4	0.0	1.1	21.5	0.0	0.0	44.3
	Virgin River	7.4	58.2	1.0	59.2	0.0	0.0	37.4	37.4	3.3	0.0	107.3
	Muddy River	5.5	87.5	0.4	88.0	4.4	7.8	2.2	14.4	0.0	0.0	107.9
	<b>TOTAL</b>	230.2	2,510.3	44.5	2,554.8	116.5	105.8	913.0	1,135.3	4.1	-1,581.6	2,342.7

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**2003**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Subtotal	Export		TOTAL
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>		Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.7	2.1	2.2	4.3	0.0	0.0	9.6	9.6	0.0	0.0	14.6
	Tributary Area Below Lake Mead	0.3	71.0	2.5	73.5	0.0	1.3	10.4	11.7	0.0	0.0	85.5
	Gila River	164.5	2,321.1	28.4	2,349.5	82.8	77.1	733.3	893.2	0.0	-1,685.4	1,721.8
	Little Colorado River	11.2	45.6	5.3	50.9	1.4	27.4	37.5	66.2	0.0	3.3	131.7
	Bill Williams River	10.8	13.8	0.5	14.3	19.5	0.0	1.1	20.6	0.0	0.0	45.7
	Virgin River	0.1	4.6	0.4	5.0	0.0	0.0	1.3	1.3	0.0	0.0	6.4
	<b>TOTAL</b>		<b>187.5</b>	<b>2,458.2</b>	<b>39.3</b>	<b>2,497.5</b>	<b>103.8</b>	<b>105.8</b>	<b>793.2</b>	<b>1,002.8</b>	<b>0.0</b>	<b>-1,682.1</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	1.5	1.0	0.6	1.6	0.0	0.0	73.5	73.5	0.0	0.0	76.6
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	-3.1	-2.8
	Virgin River	0.0	8.4	0.0	8.4	0.0	0.0	2.2	2.2	0.0	0.0	10.6
	Muddy River	5.0	89.5	0.4	89.9	4.2	8.1	2.2	14.5	0.0	0.0	109.5
	<b>TOTAL</b>	<b>6.6</b>	<b>98.9</b>	<b>1.0</b>	<b>99.9</b>	<b>4.2</b>	<b>8.1</b>	<b>78.2</b>	<b>90.5</b>	<b>0.0</b>	<b>-3.1</b>	<b>193.9</b>
New Mexico	Gila River	0.6	13.5	2.8	16.2	3.6	0.0	0.2	3.9	0.5	0.0	21.2
	Little Colorado River	1.1	0.1	0.8	0.9	0.2	0.0	9.9	10.1	0.0	0.0	12.0
	<b>TOTAL</b>	<b>1.7</b>	<b>13.6</b>	<b>3.6</b>	<b>17.1</b>	<b>3.9</b>	<b>0.0</b>	<b>10.1</b>	<b>14.0</b>	<b>0.5</b>	<b>0.0</b>	<b>33.3</b>
Utah	Tributary Area Above Lake Mead	0.0	8.5	0.0	8.5	0.0	0.0	0.7	0.7	0.0	0.0	9.3
	Virgin River	6.5	52.8	0.5	53.4	0.0	0.0	34.2	34.2	3.3	0.0	97.4
	<b>TOTAL</b>	<b>6.6</b>	<b>61.3</b>	<b>0.6</b>	<b>61.8</b>	<b>0.0</b>	<b>0.0</b>	<b>34.9</b>	<b>34.9</b>	<b>3.3</b>	<b>0.0</b>	<b>106.7</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	2.2	11.6	2.8	14.4	0.0	0.0	83.9	83.9	0.0	0.0	100.5
	Tributary Area Below Lake Mead	0.3	71.0	2.5	73.5	0.0	1.3	10.8	12.1	0.0	-3.1	82.8
	Gila River	165.1	2,334.5	31.2	2,365.8	86.4	77.1	733.5	897.1	0.5	-1,685.4	1,743.0
	Little Colorado River	12.3	45.8	6.1	51.8	1.6	27.4	47.3	76.3	0.0	3.3	143.7
	Bill Williams River	10.8	13.8	0.5	14.3	19.5	0.0	1.1	20.6	0.0	0.0	45.7
	Virgin River	6.7	65.7	1.0	66.7	0.0	0.0	37.7	37.7	3.3	0.0	114.5
	Muddy River	5.0	89.5	0.4	89.9	4.2	8.1	2.2	14.5	0.0	0.0	109.5
	<b>TOTAL</b>	<b>202.4</b>	<b>2,632.0</b>	<b>44.4</b>	<b>2,676.4</b>	<b>111.8</b>	<b>113.9</b>	<b>916.5</b>	<b>1,142.2</b>	<b>3.8</b>	<b>-1,685.2</b>	<b>2,339.6</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**2004**

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation	Agriculture		Subtotal	Municipal and Industrial			Export		TOTAL	
			Irrigated Agriculture	Stockpond Evaporation & Livestock		Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System		Within System
Arizona	Tributary Area Above Lake Mead	0.6	2.4	2.0	4.3	0.0	0.0	9.9	9.9	0.0	0.0	14.8
	Tributary Area Below Lake Mead	0.3	61.6	2.4	64.0	0.0	1.2	10.8	12.0	0.0	0.0	76.2
	Gila River	171.0	2,272.2	28.6	2,300.8	79.2	84.0	739.1	902.2	0.0	-1,666.5	1,707.6
	Little Colorado River	10.2	44.4	5.1	49.5	1.4	27.7	37.3	66.4	0.0	3.2	129.4
	Bill Williams River	8.9	9.1	0.5	9.6	18.7	0.0	1.1	19.9	0.0	0.0	38.3
	Virgin River	0.1	3.2	0.4	3.6	0.0	0.0	1.4	1.4	0.0	0.0	5.1
	<b>TOTAL</b>	<b>191.1</b>	<b>2,393.0</b>	<b>38.9</b>	<b>2,431.9</b>	<b>99.3</b>	<b>112.9</b>	<b>799.5</b>	<b>1,011.8</b>	<b>0.0</b>	<b>-1,663.3</b>	<b>1,971.4</b>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.1</b>
Nevada	Tributary Area Above Lake Mead	1.4	1.2	0.6	1.8	0.0	0.0	72.4	72.4	0.0	0.0	75.7
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	-3.0	-2.8
	Virgin River	0.0	7.8	0.0	7.8	0.0	0.0	2.3	2.3	0.0	0.0	10.2
	Muddy River	4.7	88.4	0.4	88.8	4.0	8.0	2.2	14.3	0.0	0.0	107.7
	<b>TOTAL</b>	<b>6.1</b>	<b>97.4</b>	<b>1.0</b>	<b>98.4</b>	<b>4.0</b>	<b>8.0</b>	<b>77.2</b>	<b>89.2</b>	<b>0.0</b>	<b>-3.0</b>	<b>190.7</b>
New Mexico	Gila River	0.4	12.6	2.5	15.1	2.6	0.0	0.2	2.8	0.5	0.0	18.9
	Little Colorado River	1.1	0.2	0.8	1.0	0.3	0.0	9.7	10.0	0.0	0.0	12.0
	<b>TOTAL</b>	<b>1.5</b>	<b>12.8</b>	<b>3.3</b>	<b>16.1</b>	<b>2.9</b>	<b>0.0</b>	<b>9.9</b>	<b>12.8</b>	<b>0.5</b>	<b>0.0</b>	<b>30.9</b>
Utah	Tributary Area Above Lake Mead	0.0	8.6	0.0	8.6	0.0	0.0	0.7	0.7	0.0	0.0	9.4
	Virgin River	5.5	51.0	0.5	51.4	0.0	0.0	34.8	34.8	3.3	0.0	95.1
	<b>TOTAL</b>	<b>5.5</b>	<b>59.5</b>	<b>0.5</b>	<b>60.0</b>	<b>0.0</b>	<b>0.0</b>	<b>35.5</b>	<b>35.5</b>	<b>3.3</b>	<b>0.0</b>	<b>104.4</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	2.1	12.2	2.6	14.8	0.0	0.0	83.0	83.0	0.0	0.0	99.8
	Tributary Area Below Lake Mead	0.3	61.6	2.4	64.0	0.0	1.2	11.1	12.3	0.0	-3.0	73.5
	Gila River	171.4	2,284.9	31.1	2,315.9	81.8	84.0	739.3	905.1	0.5	-1,666.5	1,726.5
	Little Colorado River	11.3	44.6	5.9	50.5	1.7	27.7	47.0	76.4	0.0	3.2	141.4
	Bill Williams River	8.9	9.1	0.5	9.6	18.7	0.0	1.1	19.9	0.0	0.0	38.3
	Virgin River	5.6	62.0	0.9	62.9	0.0	0.0	38.5	38.5	3.3	0.0	110.3
	Muddy River	4.7	88.4	0.4	88.8	4.0	8.0	2.2	14.3	0.0	0.0	107.7
	<b>TOTAL</b>	<b>204.2</b>	<b>2,562.8</b>	<b>43.7</b>	<b>2,606.5</b>	<b>106.3</b>	<b>120.9</b>	<b>922.2</b>	<b>1,149.3</b>	<b>3.9</b>	<b>-1,666.3</b>	<b>2,297.5</b>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System**  
**Estimated Tributary Water Use within States, by Major Tributaries and Types of Use<sup>1</sup>**  
**2005**

		(1,000 acre-feet)										
State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation	Irrigated Agriculture	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other <sup>2</sup>	Subtotal	Outside System	Within System	
Arizona	Tributary Area Above Lake Mead	0.6	4.5	2.1	6.6	0.0	0.0	10.0	10.0	0.0	0.0	17.2
	Tributary Area Below Lake Mead	0.3	60.0	2.4	62.3	0.0	0.8	11.2	12.0	0.0	0.0	74.6
	Gila River	263.6	2,426.7	28.9	2,455.6	75.6	82.5	748.9	907.0	0.0	-1,320.2	2,306.0
	Little Colorado River	10.5	47.8	5.2	53.0	1.4	29.3	37.1	67.8	0.0	3.4	134.8
	Bill Williams River	18.2	16.3	0.5	16.8	17.9	0.0	1.1	19.1	0.0	0.0	54.1
	Virgin River	0.1	4.0	0.4	4.5	0.0	0.0	1.5	1.5	0.0	0.0	6.0
	<b>TOTAL</b>		<u>293.3</u>	<u>2,559.3</u>	<u>39.5</u>	<u>2,598.8</u>	<u>94.9</u>	<u>112.6</u>	<u>809.9</u>	<u>1,017.5</u>	<u>0.0</u>	<u>-1,316.8</u>
California	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.1
	<b>TOTAL</b>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>	<u>0.1</u>	<u>0.0</u>	<u>0.0</u>	<u>0.1</u>
Nevada	Tributary Area Above Lake Mead	1.4	0.9	0.6	1.5	0.0	0.0	62.3	62.3	0.0	0.0	65.3
	Tributary Area Below Lake Mead	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	-3.1	-2.9
	Virgin River	0.0	7.7	0.0	7.7	0.0	0.0	2.4	2.4	0.0	0.0	10.1
	Muddy River	4.6	100.0	0.4	100.4	3.8	7.8	2.3	13.9	0.0	0.0	118.9
	<b>TOTAL</b>	<u>6.1</u>	<u>108.6</u>	<u>1.0</u>	<u>109.6</u>	<u>3.8</u>	<u>7.8</u>	<u>67.2</u>	<u>78.8</u>	<u>0.0</u>	<u>-3.1</u>	<u>191.3</u>
New Mexico	Gila River	0.5	12.3	2.0	14.4	3.6	0.0	0.2	3.8	0.4	0.0	19.1
	Little Colorado River	1.0	0.6	0.8	1.4	0.4	0.0	9.4	9.8	0.0	0.0	12.2
	<b>TOTAL</b>	<u>1.6</u>	<u>12.9</u>	<u>2.8</u>	<u>15.8</u>	<u>4.0</u>	<u>0.0</u>	<u>9.6</u>	<u>13.6</u>	<u>0.4</u>	<u>0.0</u>	<u>31.3</u>
Utah	Tributary Area Above Lake Mead	0.0	10.8	0.0	10.8	0.0	0.0	0.8	0.8	0.0	0.0	11.6
	Virgin River	5.4	66.6	0.5	67.1	0.0	0.0	35.6	35.6	3.3	0.0	111.4
	<b>TOTAL</b>	<u>5.4</u>	<u>77.4</u>	<u>0.5</u>	<u>77.9</u>	<u>0.0</u>	<u>0.0</u>	<u>36.4</u>	<u>36.4</u>	<u>3.3</u>	<u>0.0</u>	<u>123.0</u>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	2.1	16.2	2.7	18.9	0.0	0.0	73.1	73.1	0.0	0.0	94.0
	Tributary Area Below Lake Mead	0.3	60.0	2.4	62.3	0.0	0.8	11.5	12.3	0.0	-3.1	71.8
	Gila River	264.1	2,439.0	31.0	2,470.0	79.2	82.5	749.1	910.9	0.4	-1,320.2	2,325.1
	Little Colorado River	11.5	48.4	6.0	54.4	1.8	29.3	46.6	77.6	0.0	3.4	147.0
	Bill Williams River	18.2	16.3	0.5	16.8	17.9	0.0	1.1	19.1	0.0	0.0	54.1
	Virgin River	5.5	78.3	0.9	79.2	0.0	0.0	39.5	39.5	3.3	0.0	127.5
	Muddy River	4.6	100.0	0.4	100.4	3.8	7.8	2.3	13.9	0.0	0.0	118.9
	<b>TOTAL</b>	<u>306.3</u>	<u>2,758.2</u>	<u>43.8</u>	<u>2,802.0</u>	<u>102.8</u>	<u>120.4</u>	<u>923.1</u>	<u>1,146.3</u>	<u>3.7</u>	<u>-1,319.9</u>	<u>2,938.5</u>

<sup>1</sup> The subtotals and totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acre-feet.

<sup>2</sup> Includes rural, urban, and other industrial uses.

**Lower Colorado River System  
Tributary Irrigated Acreage Estimates<sup>1,2</sup>  
1971-1975**

(1,000 acres)

State	Tributary	Irrigated Acreage				
		1971	1972	1973	1974	1975
Arizona	Tributary Area Above Lake Mead	0.2	0.2	0.2	-	0.5
	Tributary Area Below Lake Mead	3.6	3.6	3.6	3.7	5.6
	Gila River	713.1	713.1	713.1	746.8	823.0
	Little Colorado River	10.6	10.6	10.6	14.1	14.7
	Bill Williams River	3.6	3.6	3.6	4.8	3.6
	Virgin River	1.1	1.1	1.1	1.2	1.1
	<b>TOTAL</b>	<b>732.2</b>	<b>732.2</b>	<b>732.2</b>	<b>770.6</b>	<b>848.6</b>
California	Tributary Area Below Lake Mead	-	-	-	-	-
	<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Nevada	Tributary Area Above Lake Mead	0.1	0.1	0.1	0.2	0.2
	Tributary Area Below Lake Mead	-	-	-	-	-
	Virgin River	1.8	1.8	1.8	1.9	1.9
	Muddy River	11.2	11.2	11.2	15.0	16.5
	<b>TOTAL</b>	<b>13.1</b>	<b>13.1</b>	<b>13.1</b>	<b>17.1</b>	<b>18.6</b>
New Mexico	Gila River	7.8	7.8	7.7	7.7	8.4
	Little Colorado River	0.2	0.2	0.2	0.2	0.2
	<b>TOTAL</b>	<b>7.9</b>	<b>8.0</b>	<b>7.9</b>	<b>7.8</b>	<b>8.6</b>
Utah	Tributary Area Above Lake Mead	1.5	1.5	1.5	1.6	2.3
	Virgin River	8.2	8.2	8.2	11.1	11.3
	<b>TOTAL</b>	<b>9.7</b>	<b>9.7</b>	<b>9.7</b>	<b>12.7</b>	<b>13.6</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	1.8	1.8	1.8	1.8	3.0
	Tributary Area Below Lake Mead	3.6	3.6	3.6	3.7	5.6
	Gila River	720.8	720.9	720.8	754.5	831.4
	Little Colorado River	10.8	10.8	10.8	14.3	14.9
	Bill Williams River	3.6	3.6	3.6	4.8	3.6
	Virgin River	11.1	11.1	11.1	14.2	14.4
	Muddy River	11.2	11.2	11.2	15.0	16.5
	<b>TOTAL</b>	<b>763.0</b>	<b>763.0</b>	<b>762.9</b>	<b>808.2</b>	<b>889.4</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acres.

<sup>2</sup> Irrigated acreage includes all irrigated croplands as well as irrigated pasture. It does not include mainstream irrigated acreage.

**Lower Colorado River System  
Tributary Irrigated Acreage Estimates<sup>1,2</sup>  
1976-1980**

(1,000 acres)

State	Tributary	Irrigated Acreage				
		1976	1977	1978	1979	1980
Arizona	Tributary Area Above Lake Mead	0.3	1.0	1.2	1.0	1.6
	Tributary Area Below Lake Mead	4.8	8.1	8.3	11.5	12.4
	Gila River	757.3	762.9	685.5	738.7	777.0
	Little Colorado River	13.9	14.8	13.2	13.5	17.1
	Bill Williams River	3.1	4.1	3.7	4.1	4.6
	Virgin River	1.1	1.4	1.3	1.5	2.0
	<b>TOTAL</b>		780.6	792.3	713.2	770.4
California	Tributary Area Below Lake Mead	-	-	-	-	-
	<b>TOTAL</b>	-	-	-	-	-
Nevada	Tributary Area Above Lake Mead	0.1	0.2	0.2	0.2	0.2
	Tributary Area Below Lake Mead	-	-	-	-	-
	Virgin River	2.0	2.3	2.1	2.0	2.2
	Muddy River	15.6	19.4	15.6	16.2	23.0
	<b>TOTAL</b>	17.7	21.9	17.9	18.4	25.4
New Mexico	Gila River	8.5	7.5	7.8	4.5	7.2
	Little Colorado River	0.2	0.2	-	-	-
	<b>TOTAL</b>	8.7	7.7	7.8	4.5	7.2
Utah	Tributary Area Above Lake Mead	1.7	3.3	2.7	1.6	3.9
	Virgin River	10.3	13.3	13.0	12.8	18.3
	<b>TOTAL</b>	12.0	16.6	15.7	14.4	22.2
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	2.1	4.5	4.1	2.7	5.6
	Tributary Area Below Lake Mead	4.8	8.1	8.3	11.5	12.4
	Gila River	765.8	770.3	693.3	743.2	784.1
	Little Colorado River	14.1	15.0	13.2	13.5	17.1
	Bill Williams River	3.1	4.1	3.7	4.1	4.6
	Virgin River	13.4	16.9	16.4	16.4	22.6
	Muddy River	15.6	19.4	15.6	16.2	23.0
	<b>TOTAL</b>	819.0	838.4	754.6	807.6	869.4

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acres.

<sup>2</sup> Irrigated acreage includes all irrigated croplands as well as irrigated pasture. It does not include mainstream irrigated acreage.

**Lower Colorado River System**  
**Tributary Irrigated Acreage Estimates<sup>1,2</sup>**  
**1981-1985**

(1,000 acres)

State	Tributary	Irrigated Acreage				
		1981	1982	1983	1984	1985
Arizona	Tributary Area Above Lake Mead	1.3	0.9	0.9	0.9	1.1
	Tributary Area Below Lake Mead	16.1	12.2	9.7	5.3	10.3
	Gila River	830.6	700.5	753.6	666.8	712.4
	Little Colorado River	15.8	11.9	14.7	16.9	16.4
	Bill Williams River	4.4	4.2	5.9	3.8	5.0
	Virgin River	1.9	1.7	1.6	1.4	1.8
	<b>TOTAL</b>		<b>870.1</b>	<b>731.5</b>	<b>786.4</b>	<b>695.1</b>
California	Tributary Area Below Lake Mead	-	-	-	-	-
	<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Nevada	Tributary Area Above Lake Mead	0.2	0.1	0.1	0.0	0.1
	Tributary Area Below Lake Mead	-	-	-	-	-
	Virgin River	2.0	1.7	2.1	2.0	2.0
	Muddy River	21.3	16.1	20.3	19.2	19.7
	<b>TOTAL</b>	<b>23.5</b>	<b>17.9</b>	<b>22.5</b>	<b>21.2</b>	<b>21.8</b>
New Mexico	Gila River	6.9	6.8	6.2	5.7	4.5
	Little Colorado River	-	0.0	0.0	-	0.0
	<b>TOTAL</b>	<b>6.9</b>	<b>6.8</b>	<b>6.2</b>	<b>5.7</b>	<b>4.5</b>
Utah	Tributary Area Above Lake Mead	3.2	2.6	3.0	2.6	3.1
	Virgin River	15.3	11.5	14.4	14.1	16.0
	<b>TOTAL</b>	<b>18.5</b>	<b>14.1</b>	<b>17.3</b>	<b>16.7</b>	<b>19.1</b>
Lower Basin Tributary Reporting Areas Totals	Tributary Area Above Lake Mead	4.6	3.6	4.0	3.5	4.3
	Tributary Area Below Lake Mead	16.1	12.2	9.7	5.3	10.3
	Gila River	837.5	707.3	759.8	672.5	716.9
	Little Colorado River	15.8	11.9	14.7	16.9	16.4
	Bill Williams River	4.4	4.2	5.9	3.8	5.0
	Virgin River	19.3	15.0	18.0	17.5	19.9
	Muddy River	21.3	16.1	20.3	19.2	19.7
	<b>TOTAL</b>	<b>919.0</b>	<b>770.3</b>	<b>832.4</b>	<b>738.8</b>	<b>792.5</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acres.

<sup>2</sup> Irrigated acreage includes all irrigated croplands as well as irrigated pasture. It does not include mainstream irrigated acreage.

**Lower Colorado River System  
Tributary Irrigated Acreage Estimates<sup>1,2</sup>  
1986-1990**

(1,000 acres)

State	Tributary	Irrigated Acreage				
		1986	1987	1988	1989	1990
Arizona	Tributary Area Above Lake Mead	1.5	1.3	1.0	0.7	0.9
	Tributary Area Below Lake Mead	11.8	9.7	9.5	10.5	11.4
	Gila River	747.8	653.8	685.2	677.7	680.6
	Little Colorado River	15.9	15.8	15.6	11.2	13.6
	Bill Williams River	6.1	5.5	5.3	4.2	4.8
	Virgin River	2.2	1.9	1.5	1.6	1.5
	<b>TOTAL</b>		785.2	688.0	718.1	705.9
California	Tributary Area Below Lake Mead	-	-	-	-	-
	<b>TOTAL</b>	-	-	-	-	-
Nevada	Tributary Area Above Lake Mead	0.2	0.1	0.2	0.1	0.2
	Tributary Area Below Lake Mead	-	-	-	-	-
	Virgin River	2.1	1.9	1.3	1.8	1.3
	Muddy River	24.1	21.2	20.0	19.4	20.8
	<b>TOTAL</b>	26.4	23.3	21.4	21.3	22.3
New Mexico	Gila River	5.3	4.3	4.5	4.3	4.4
	Little Colorado River	0.1	0.0	-	-	-
	<b>TOTAL</b>	5.4	4.3	4.5	4.3	4.4
Utah	Tributary Area Above Lake Mead	3.9	3.2	2.7	2.3	2.2
	Virgin River	19.2	15.5	13.4	11.9	11.2
	<b>TOTAL</b>	23.0	18.7	16.2	14.2	13.4
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	5.5	4.6	4.0	3.1	3.3
	Tributary Area Below Lake Mead	11.8	9.7	9.5	10.5	11.4
	Gila River	753.0	658.1	689.6	682.0	685.0
	Little Colorado River	16.1	15.8	15.6	11.2	13.6
	Bill Williams River	6.1	5.5	5.3	4.2	4.8
	Virgin River	23.5	19.3	16.2	15.3	14.0
	Muddy River	24.1	21.2	20.0	19.4	20.8
	<b>TOTAL</b>	840.0	734.3	760.2	745.6	752.8

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acres.

<sup>2</sup> Irrigated acreage includes all irrigated croplands as well as irrigated pasture. It does not include mainstream irrigated acreage.



**Lower Colorado River System  
Tributary Irrigated Acreage Estimates<sup>1,2</sup>  
1991-1995**

(1,000 acres)

State	Tributary	Irrigated Acreage				
		1991	1992	1993	1994	1995
Arizona	Tributary Area Above Lake Mead	0.5	1.5	1.8	1.1	0.9
	Tributary Area Below Lake Mead	10.1	9.5	11.9	9.4	10.2
	Gila River	630.9	728.6	807.1	675.5	714.4
	Little Colorado River	10.6	17.9	16.8	14.9	9.4
	Bill Williams River	3.7	5.4	5.7	3.2	3.0
	Virgin River	1.5	1.9	2.1	1.8	1.6
	<b>TOTAL</b>	<b>657.3</b>	<b>764.8</b>	<b>845.3</b>	<b>705.9</b>	<b>739.5</b>
California	Tributary Area Below Lake Mead	-	-	-	-	-
	<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Nevada	Tributary Area Above Lake Mead	0.1	0.2	0.2	0.2	0.1
	Tributary Area Below Lake Mead	-	-	-	-	-
	Virgin River	1.6	1.3	1.9	1.6	1.3
	Muddy River	19.3	21.8	21.2	19.7	18.1
	<b>TOTAL</b>	<b>21.0</b>	<b>23.3</b>	<b>23.3</b>	<b>21.4</b>	<b>19.6</b>
New Mexico	Gila River	4.8	4.1	5.1	3.6	4.3
	Little Colorado River	0.0	0.1	0.1	0.0	0.0
	<b>TOTAL</b>	<b>4.8</b>	<b>4.1</b>	<b>5.1</b>	<b>3.6</b>	<b>4.3</b>
Utah	Tributary Area Above Lake Mead	1.7	3.5	3.2	2.8	2.8
	Virgin River	11.9	15.0	14.3	14.3	13.0
	<b>TOTAL</b>	<b>13.6</b>	<b>18.5</b>	<b>17.5</b>	<b>17.1</b>	<b>15.7</b>
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	2.3	5.2	5.2	4.0	3.7
	Tributary Area Below Lake Mead	10.1	9.5	11.9	9.4	10.2
	Gila River	635.7	732.7	812.1	679.1	718.6
	Little Colorado River	10.6	17.9	16.9	14.9	9.4
	Bill Williams River	3.7	5.4	5.7	3.2	3.0
	Virgin River	15.0	18.1	18.3	17.7	16.0
	Muddy River	19.3	21.8	21.2	19.7	18.1
	<b>TOTAL</b>	<b>696.8</b>	<b>810.7</b>	<b>891.2</b>	<b>748.1</b>	<b>779.1</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acres.

<sup>2</sup> Irrigated acreage includes all irrigated croplands as well as irrigated pasture. It does not include mainstream irrigated acreage.

**Lower Colorado River System  
 Tributary Irrigated Acreage Estimates<sup>1,2</sup>  
 1996-2000**

(1,000 acres)

State	Tributary	Irrigated Acreage				
		1996	1997	1998	1999	2000
Arizona	Tributary Area Above Lake Mead	1.0	0.9	0.9	0.5	0.3
	Tributary Area Below Lake Mead	10.8	11.8	13.1	13.2	15.0
	Gila River	700.0	677.2	715.7	635.1	615.3
	Little Colorado River	14.2	16.5	14.3	17.3	13.1
	Bill Williams River	2.5	3.0	3.5	2.9	2.7
	Virgin River	1.1	1.2	1.6	1.3	1.0
	<b>TOTAL</b>		<b>729.6</b>	<b>710.7</b>	<b>749.1</b>	<b>670.3</b>
California	Tributary Area Below Lake Mead	-	-	-	-	-
	<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Nevada	Tributary Area Above Lake Mead	0.2	0.2	0.2	0.1	0.2
	Tributary Area Below Lake Mead	-	-	-	-	-
	Virgin River	1.2	1.3	1.3	1.3	1.2
	Muddy River	19.3	20.3	21.9	20.3	19.9
	<b>TOTAL</b>	<b>20.6</b>	<b>21.7</b>	<b>23.3</b>	<b>21.7</b>	<b>21.3</b>
New Mexico	Gila River	4.9	5.4	6.3	5.4	5.5
	Little Colorado River	-	0.0	0.0	0.0	0.0
	<b>TOTAL</b>	<b>4.9</b>	<b>5.4</b>	<b>6.3</b>	<b>5.5</b>	<b>5.5</b>
Utah	Tributary Area Above Lake Mead	2.2	3.6	3.0	2.7	2.2
	Virgin River	12.0	15.1	14.9	12.2	11.6
	<b>TOTAL</b>	<b>14.1</b>	<b>18.7</b>	<b>17.9</b>	<b>14.8</b>	<b>13.8</b>
Lower Basin Tributary Reporting Areas Totals	Tributary Area Above Lake Mead	3.4	4.7	4.1	3.3	2.7
	Tributary Area Below Lake Mead	10.8	11.8	13.1	13.2	15.0
	Gila River	704.9	682.5	722.0	640.5	620.8
	Little Colorado River	14.2	16.5	14.3	17.3	13.2
	Bill Williams River	2.5	3.0	3.5	2.9	2.7
	Virgin River	14.2	17.6	17.7	14.8	13.9
	Muddy River	19.3	20.3	21.9	20.3	19.9
	<b>TOTAL</b>	<b>769.3</b>	<b>756.4</b>	<b>796.6</b>	<b>712.3</b>	<b>688.1</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acres.

<sup>2</sup> Irrigated acreage includes all irrigated croplands as well as irrigated pasture. It does not include mainstream irrigated acreage.

**Lower Colorado River System  
Tributary Irrigated Acreage Estimates<sup>1,2</sup>  
2001-2005**

(1,000 acres)

State	Tributary	Irrigated Acreage				
		2001	2002	2003	2004	2005
Arizona	Tributary Area Above Lake Mead	0.8	0.4	0.8	0.8	1.3
	Tributary Area Below Lake Mead	17.8	17.7	19.0	18.9	20.6
	Gila River	672.6	587.7	606.0	596.9	725.5
	Little Colorado River	14.1	14.1	15.1	13.3	15.3
	Bill Williams River	3.3	1.9	4.6	4.6	5.0
	Virgin River	1.5	0.9	1.0	1.0	1.6
	<b>TOTAL</b>		710.1	622.8	646.6	635.5
California	Tributary Area Below Lake Mead	-	-	-	-	-
	<b>TOTAL</b>	-	-	-	-	-
Nevada	Tributary Area Above Lake Mead	0.2	0.1	0.2	0.2	0.2
	Tributary Area Below Lake Mead	-	-	-	-	-
	Virgin River	1.3	1.3	1.3	1.3	1.2
	Muddy River	20.1	20.2	21.3	21.0	23.2
	<b>TOTAL</b>		21.5	21.7	22.8	22.6
New Mexico	Gila River	5.2	5.5	5.5	5.5	5.9
	Little Colorado River	0.0	0.0	0.0	0.1	0.2
	<b>TOTAL</b>		5.2	5.5	5.5	5.6
Utah	Tributary Area Above Lake Mead	2.9	2.2	2.9	2.9	3.2
	Virgin River	13.8	11.5	13.3	13.7	15.0
	<b>TOTAL</b>		16.7	13.7	16.2	16.6
Lower Basin Reporting Areas Totals	Tributary Area Above Lake Mead	3.9	2.7	3.9	3.9	4.6
	Tributary Area Below Lake Mead	17.8	17.7	19.0	18.9	20.6
	Gila River	677.8	593.2	611.5	602.5	731.4
	Little Colorado River	14.1	14.2	15.1	13.4	15.5
	Bill Williams River	3.3	1.9	4.6	4.6	5.0
	Virgin River	16.6	13.8	15.6	16.0	17.9
	Muddy River	20.1	20.2	21.3	21.0	23.2
	<b>TOTAL</b>		753.5	663.7	691.1	680.3

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000 acres.

<sup>2</sup> Irrigated acreage includes all irrigated croplands as well as irrigated pasture. It does not include mainstream irrigated acreage.

**Lower Colorado River System  
Total Population Estimates<sup>1</sup>  
1971-1975**

(1,000's)

State	Reporting Area	Population				
		1971	1972	1973	1974	1975
Arizona	Tributary Area Above Lake Mead	12.5	13.5	14.6	15.6	16.6
	Tributary Area Below Lake Mead	14.6	15.2	15.8	16.3	16.6
	Gila River	1,670.4	1,766.7	1,866.0	1,944.6	1,997.2
	Little Colorado River	101.7	106.8	111.8	117.3	122.5
	Bill Williams River	1.8	1.9	2.1	2.2	2.2
	Virgin River	0.9	1.0	1.1	1.1	1.2
	Mainstream Areas	69.7	72.7	75.9	78.7	80.8
	<b>TOTAL</b>	<b>1,871.6</b>	<b>1,977.8</b>	<b>2,087.2</b>	<b>2,175.8</b>	<b>2,237.2</b>
California	Tributary Area Below Lake Mead	0.5	0.5	0.5	0.5	0.5
	Mainstream Areas	11.9	12.1	12.3	12.6	12.9
	<b>TOTAL</b>	<b>12.3</b>	<b>12.5</b>	<b>12.8</b>	<b>13.1</b>	<b>13.4</b>
Nevada	Tributary Area Above Lake Mead	0.6	0.7	0.7	0.7	0.8
	Tributary Area Below Lake Mead	0.4	0.4	0.4	0.4	0.4
	Virgin River	1.1	1.1	1.2	1.2	1.3
	Muddy River	4.7	4.7	4.9	5.2	5.5
	Mainstream Areas	286.7	299.4	312.5	328.4	343.4
	<b>TOTAL</b>	<b>293.5</b>	<b>306.4</b>	<b>319.6</b>	<b>336.0</b>	<b>351.4</b>
New Mexico	Gila River	3.2	3.3	3.5	3.5	3.6
	Little Colorado River	35.6	36.7	37.0	37.8	39.6
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>38.7</b>	<b>40.0</b>	<b>40.5</b>	<b>41.3</b>	<b>43.2</b>
Utah	Tributary Area Above Lake Mead	1.8	2.1	2.2	2.3	2.4
	Virgin River	15.4	16.0	17.1	18.4	19.1
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>17.2</b>	<b>18.1</b>	<b>19.3</b>	<b>20.7</b>	<b>21.5</b>
Lower Colorado River System	Tributary Area Above Lake Mead	15.0	16.3	17.5	18.6	19.7
	Tributary Area Below Lake Mead	15.4	16.0	16.6	17.2	17.5
	Gila River	1,673.6	1,770.0	1,869.4	1,948.1	2,000.8
	Little Colorado River	137.3	143.5	148.8	155.1	162.2
	Bill Williams River	1.8	1.9	2.1	2.2	2.2
	Virgin River	17.4	18.1	19.3	20.8	21.6
	Muddy River	4.7	4.7	4.9	5.2	5.5
	<b>TOTAL</b>	<b>2,233.3</b>	<b>2,354.8</b>	<b>2,479.4</b>	<b>2,586.9</b>	<b>2,666.7</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000s of people.

**Lower Colorado River System  
Total Population Estimates<sup>1</sup>  
1976-1980**

(1,000's)

State	Reporting Area	Population				
		1976	1977	1978	1979	1980
Arizona	Tributary Area Above Lake Mead	17.1	17.7	18.8	20.4	21.6
	Tributary Area Below Lake Mead	17.9	18.5	19.1	20.2	21.4
	Gila River	2,052.1	2,122.7	2,208.1	2,301.5	2,374.1
	Little Colorado River	123.9	127.9	132.6	137.1	139.1
	Bill Williams River	2.4	2.6	2.7	2.9	3.0
	Virgin River	1.3	1.3	1.5	1.6	1.7
	Mainstream Areas	86.9	89.8	93.2	99.1	105.0
	<b>TOTAL</b>	<b>2,301.6</b>	<b>2,380.5</b>	<b>2,475.9</b>	<b>2,582.7</b>	<b>2,665.9</b>
California	Tributary Area Below Lake Mead	0.5	0.5	0.5	0.6	0.6
	Mainstream Areas	13.4	14.0	14.7	15.2	15.8
	<b>TOTAL</b>	<b>13.8</b>	<b>14.5</b>	<b>15.2</b>	<b>15.8</b>	<b>16.4</b>
Nevada	Tributary Area Above Lake Mead	0.8	0.9	0.9	1.0	1.0
	Tributary Area Below Lake Mead	0.5	0.5	0.5	0.5	0.6
	Virgin River	1.4	1.5	1.5	1.6	1.7
	Muddy River	5.7	6.0	6.4	6.8	7.1
	Mainstream Areas	361.4	381.7	405.1	430.7	453.9
	<b>TOTAL</b>	<b>369.7</b>	<b>390.4</b>	<b>414.5</b>	<b>440.7</b>	<b>464.3</b>
New Mexico	Gila River	3.7	3.8	3.8	3.8	3.9
	Little Colorado River	41.6	42.2	43.1	44.5	44.8
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>45.4</b>	<b>46.0</b>	<b>47.0</b>	<b>48.4</b>	<b>48.7</b>
Utah	Tributary Area Above Lake Mead	2.5	2.6	2.8	2.9	2.8
	Virgin River	20.3	21.5	23.0	24.8	26.7
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>22.8</b>	<b>24.1</b>	<b>25.8</b>	<b>27.7</b>	<b>29.6</b>
Lower Colorado River System	Tributary Area Above Lake Mead	20.4	21.1	22.5	24.2	25.4
	Tributary Area Below Lake Mead	18.8	19.5	20.1	21.3	22.5
	Gila River	2,055.8	2,126.5	2,211.9	2,305.3	2,378.0
	Little Colorado River	165.5	170.1	175.7	181.6	183.9
	Bill Williams River	2.4	2.6	2.7	2.9	3.0
	Virgin River	23.0	24.3	26.0	28.0	30.2
	Muddy River	5.7	6.0	6.4	6.8	7.1
	<b>TOTAL</b>	<b>2,753.3</b>	<b>2,855.6</b>	<b>2,978.3</b>	<b>3,115.2</b>	<b>3,224.9</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000s of people.

**Lower Colorado River System  
Total Population Estimates<sup>1</sup>  
1981-1985**

(1,000's)

State	Reporting Area	Population				
		1981	1982	1983	1984	1985
Arizona	Tributary Area Above Lake Mead	22.6	23.6	24.3	25.4	26.5
	Tributary Area Below Lake Mead	22.2	22.9	23.6	24.3	25.0
	Gila River	2,455.3	2,526.7	2,601.4	2,694.8	2,802.2
	Little Colorado River	140.2	142.3	145.3	147.2	150.3
	Bill Williams River	3.1	3.2	3.4	3.5	3.6
	Virgin River	1.8	1.9	2.0	2.1	2.2
	Mainstream Areas	109.2	113.1	116.6	120.3	124.4
	<b>TOTAL</b>	<b>2,754.5</b>	<b>2,833.8</b>	<b>2,916.6</b>	<b>3,017.6</b>	<b>3,134.2</b>
California	Tributary Area Below Lake Mead	0.6	0.6	0.6	0.7	0.7
	Mainstream Areas	16.4	17.0	17.5	18.2	19.0
	<b>TOTAL</b>	<b>17.0</b>	<b>17.6</b>	<b>18.2</b>	<b>18.9</b>	<b>19.7</b>
Nevada	Tributary Area Above Lake Mead	1.1	1.1	1.2	1.2	1.2
	Tributary Area Below Lake Mead	0.6	0.6	0.6	0.7	0.7
	Virgin River	1.8	1.9	2.0	2.0	2.1
	Muddy River	7.3	7.4	7.3	7.4	7.4
	Mainstream Areas	480.1	499.7	515.4	530.0	546.4
	<b>TOTAL</b>	<b>491.0</b>	<b>510.7</b>	<b>526.5</b>	<b>541.2</b>	<b>557.9</b>
New Mexico	Gila River	4.0	4.0	4.0	4.0	3.9
	Little Colorado River	44.7	45.1	45.6	46.5	47.6
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>48.6</b>	<b>49.1</b>	<b>49.6</b>	<b>50.5</b>	<b>51.5</b>
Utah	Tributary Area Above Lake Mead	2.9	3.0	3.1	3.2	3.3
	Virgin River	28.6	30.0	31.6	33.7	36.8
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>31.5</b>	<b>33.0</b>	<b>34.7</b>	<b>36.9</b>	<b>40.1</b>
Lower Colorado River System	Tributary Area Above Lake Mead	26.6	27.7	28.6	29.8	31.1
	Tributary Area Below Lake Mead	23.4	24.1	24.9	25.6	26.4
	Gila River	2,459.3	2,530.7	2,605.4	2,698.8	2,806.0
	Little Colorado River	184.9	187.4	190.9	193.7	197.9
	Bill Williams River	3.1	3.2	3.4	3.5	3.6
	Virgin River	32.2	33.9	35.5	37.8	41.0
	Muddy River	7.3	7.4	7.3	7.4	7.4
	<b>TOTAL</b>	<b>3,342.6</b>	<b>3,444.2</b>	<b>3,545.5</b>	<b>3,665.1</b>	<b>3,803.2</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000s of people.

**Lower Colorado River System  
Total Population Estimates<sup>1</sup>  
1986-1990**

(1,000's)

State	Reporting Area	Population				
		1986	1987	1988	1989	1990
Arizona	Tributary Area Above Lake Mead	27.8	28.8	30.4	31.9	33.9
	Tributary Area Below Lake Mead	25.8	26.5	27.8	29.3	30.7
	Gila River	2,913.3	3,021.9	3,103.7	3,164.5	3,214.6
	Little Colorado River	155.1	159.4	163.0	166.4	169.1
	Bill Williams River	3.9	4.1	4.3	4.5	4.7
	Virgin River	2.3	2.4	2.6	2.7	2.9
	Mainstream Areas	128.8	132.8	139.6	147.4	154.9
	<b>TOTAL</b>	<b>3,257.1</b>	<b>3,375.9</b>	<b>3,471.3</b>	<b>3,546.6</b>	<b>3,610.8</b>
California	Tributary Area Below Lake Mead	0.7	0.8	0.8	0.8	0.9
	Mainstream Areas	19.9	21.0	22.4	24.0	25.4
	<b>TOTAL</b>	<b>20.6</b>	<b>21.8</b>	<b>23.2</b>	<b>24.8</b>	<b>26.3</b>
Nevada	Tributary Area Above Lake Mead	1.3	1.3	1.4	1.5	1.6
	Tributary Area Below Lake Mead	0.7	0.8	0.8	0.9	0.9
	Virgin River	2.2	2.3	2.4	2.6	2.9
	Muddy River	7.5	7.8	8.1	8.5	9.0
	Mainstream Areas	568.1	598.7	635.0	678.7	732.8
	<b>TOTAL</b>	<b>579.7</b>	<b>610.8</b>	<b>647.7</b>	<b>692.1</b>	<b>747.2</b>
New Mexico	Gila River	3.9	3.9	3.9	3.9	3.9
	Little Colorado River	47.8	47.7	46.9	46.8	47.9
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>51.6</b>	<b>51.6</b>	<b>50.8</b>	<b>50.7</b>	<b>51.8</b>
Utah	Tributary Area Above Lake Mead	3.5	3.6	3.6	3.6	3.6
	Virgin River	40.3	43.2	45.1	47.1	49.5
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>43.8</b>	<b>46.8</b>	<b>48.8</b>	<b>50.7</b>	<b>53.1</b>
Lower Colorado River System	Tributary Area Above Lake Mead	32.6	33.8	35.4	37.0	39.1
	Tributary Area Below Lake Mead	27.2	28.0	29.4	31.0	32.5
	Gila River	2,917.2	3,025.8	3,107.6	3,168.4	3,218.5
	Little Colorado River	202.9	207.1	209.9	213.2	217.0
	Bill Williams River	3.9	4.1	4.3	4.5	4.7
	Virgin River	44.8	47.9	50.1	52.4	55.3
	Muddy River	7.5	7.8	8.1	8.5	9.0
	<b>TOTAL</b>	<b>3,952.8</b>	<b>4,106.9</b>	<b>4,241.8</b>	<b>4,365.0</b>	<b>4,489.2</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000s of people.

**Lower Colorado River System  
Total Population Estimates<sup>1</sup>  
1991-1995**

(1,000's)

State	Reporting Area	Population				
		1991	1992	1993	1994	1995
Arizona	Tributary Area Above Lake Mead	36.1	37.9	39.9	41.8	43.6
	Tributary Area Below Lake Mead	32.9	35.1	37.3	39.2	41.2
	Gila River	3,316.9	3,430.4	3,566.0	3,727.7	3,887.8
	Little Colorado River	172.7	176.8	182.2	187.0	191.9
	Bill Williams River	4.8	4.9	5.1	5.3	5.4
	Virgin River	3.3	3.6	3.9	4.2	4.6
	Mainstream Areas	164.1	173.2	181.8	189.0	196.7
	<b>TOTAL</b>	<b>3,730.7</b>	<b>3,862.0</b>	<b>4,016.2</b>	<b>4,194.1</b>	<b>4,371.2</b>
California	Tributary Area Below Lake Mead	0.9	0.8	0.8	0.7	0.7
	Mainstream Areas	26.4	26.8	27.0	27.0	26.9
	<b>TOTAL</b>	<b>27.3</b>	<b>27.6</b>	<b>27.8</b>	<b>27.7</b>	<b>27.6</b>
Nevada	Tributary Area Above Lake Mead	1.7	1.8	1.8	1.9	1.9
	Tributary Area Below Lake Mead	1.0	1.0	1.1	1.1	1.2
	Virgin River	3.4	4.0	4.5	5.3	6.0
	Muddy River	9.3	9.4	9.6	10.0	10.4
	Mainstream Areas	796.3	838.9	888.9	954.7	1,017.0
	<b>TOTAL</b>	<b>811.7</b>	<b>855.1</b>	<b>906.0</b>	<b>973.0</b>	<b>1,036.5</b>
New Mexico	Gila River	4.0	4.1	4.2	4.3	4.5
	Little Colorado River	49.9	51.5	52.0	53.2	54.6
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>53.9</b>	<b>55.5</b>	<b>56.2</b>	<b>57.5</b>	<b>59.1</b>
Utah	Tributary Area Above Lake Mead	3.6	3.7	3.9	4.0	4.0
	Virgin River	53.4	57.2	61.9	67.6	73.2
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>57.0</b>	<b>60.8</b>	<b>65.7</b>	<b>71.5</b>	<b>77.3</b>
Lower Colorado River System	Tributary Area Above Lake Mead	41.4	43.3	45.6	47.6	49.6
	Tributary Area Below Lake Mead	34.7	37.0	39.1	41.0	43.0
	Gila River	3,320.9	3,434.5	3,570.2	3,732.0	3,892.2
	Little Colorado River	222.6	228.3	234.2	240.2	246.5
	Bill Williams River	4.8	4.9	5.1	5.3	5.4
	Virgin River	60.1	64.7	70.3	77.1	83.8
	Muddy River	9.3	9.4	9.6	10.0	10.4
	<b>TOTAL</b>	<b>4,680.6</b>	<b>4,861.1</b>	<b>5,071.8</b>	<b>5,323.9</b>	<b>5,571.6</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000s of people.



**Lower Colorado River System  
Total Population Estimates<sup>1</sup>  
1996-2000**

(1,000's)

State	Reporting Area	Population				
		1996	1997	1998	1999	2000
Arizona	Tributary Area Above Lake Mead	45.1	46.1	47.1	48.2	49.3
	Tributary Area Below Lake Mead	43.5	45.8	48.0	50.3	52.3
	Gila River	4,025.6	4,159.8	4,292.9	4,412.7	4,519.4
	Little Colorado River	195.7	198.8	200.3	201.7	203.3
	Bill Williams River	5.5	5.6	5.6	5.6	5.7
	Virgin River	4.9	5.1	5.4	5.7	6.0
	Mainstream Areas	204.9	212.5	219.5	227.0	232.6
	<b>TOTAL</b>	<b>4,525.1</b>	<b>4,673.6</b>	<b>4,818.7</b>	<b>4,951.2</b>	<b>5,068.6</b>
California	Tributary Area Below Lake Mead	0.6	0.5	0.5	0.4	0.4
	Mainstream Areas	26.8	26.8	26.9	27.0	27.1
	<b>TOTAL</b>	<b>27.4</b>	<b>27.3</b>	<b>27.3</b>	<b>27.4</b>	<b>27.4</b>
Nevada	Tributary Area Above Lake Mead	2.0	2.0	2.0	2.1	2.1
	Tributary Area Below Lake Mead	1.2	1.3	1.4	1.4	1.4
	Virgin River	6.9	7.8	8.8	9.8	10.7
	Muddy River	10.7	11.1	11.4	11.6	11.8
	Mainstream Areas	1,082.9	1,157.2	1,228.8	1,293.9	1,355.5
	<b>TOTAL</b>	<b>1,103.7</b>	<b>1,179.4</b>	<b>1,252.4</b>	<b>1,318.7</b>	<b>1,381.5</b>
New Mexico	Gila River	4.6	4.8	4.9	5.0	5.0
	Little Colorado River	55.6	56.2	56.7	57.1	57.7
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>60.2</b>	<b>61.0</b>	<b>61.6</b>	<b>62.1</b>	<b>62.7</b>
Utah	Tributary Area Above Lake Mead	4.1	4.1	4.1	4.1	4.1
	Virgin River	78.2	82.0	85.3	88.3	91.2
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>82.3</b>	<b>86.1</b>	<b>89.5</b>	<b>92.4</b>	<b>95.3</b>
Lower Colorado River System	Tributary Area Above Lake Mead	51.1	52.2	53.3	54.3	55.6
	Tributary Area Below Lake Mead	45.4	47.6	49.8	52.1	54.1
	Gila River	4,030.2	4,164.6	4,297.8	4,417.7	4,524.4
	Little Colorado River	251.2	255.0	257.0	258.8	261.0
	Bill Williams River	5.5	5.6	5.6	5.6	5.7
	Virgin River	89.9	94.9	99.5	103.8	107.8
	Muddy River	10.7	11.1	11.4	11.6	11.8
	<b>TOTAL</b>	<b>5,798.6</b>	<b>6,027.4</b>	<b>6,249.6</b>	<b>6,451.8</b>	<b>6,635.5</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000s of people.

**Lower Colorado River System  
Total Population Estimates<sup>1</sup>  
2001-2005**

(1,000's)

State	Reporting Area	Population				
		2001	2002	2003	2004	2005
Arizona	Tributary Area Above Lake Mead	50.9	52.7	54.7	56.9	59.2
	Tributary Area Below Lake Mead	54.5	56.8	59.5	62.7	66.2
	Gila River	4,645.6	4,754.3	4,861.7	4,996.4	5,163.7
	Little Colorado River	205.3	209.2	212.5	215.7	219.0
	Bill Williams River	5.9	6.1	6.3	6.5	6.8
	Virgin River	6.5	6.9	7.5	8.1	8.7
	Mainstream Areas	236.7	240.9	246.1	253.4	261.3
	<b>TOTAL</b>	<b>5,205.4</b>	<b>5,326.9</b>	<b>5,448.2</b>	<b>5,599.7</b>	<b>5,784.9</b>
California	Tributary Area Below Lake Mead	0.4	0.4	0.4	0.4	0.4
	Mainstream Areas	27.3	27.6	27.9	28.2	28.3
	<b>TOTAL</b>	<b>27.7</b>	<b>27.9</b>	<b>28.3</b>	<b>28.5</b>	<b>28.7</b>
Nevada	Tributary Area Above Lake Mead	2.4	2.7	3.0	3.4	3.7
	Tributary Area Below Lake Mead	1.4	1.4	1.4	1.4	1.3
	Virgin River	11.4	12.0	12.7	13.4	14.1
	Muddy River	12.1	12.4	12.6	13.0	13.3
	Mainstream Areas	1,431.8	1,493.8	1,558.2	1,631.8	1,699.8
	<b>TOTAL</b>	<b>1,459.2</b>	<b>1,522.3</b>	<b>1,588.0</b>	<b>1,662.9</b>	<b>1,732.3</b>
New Mexico	Gila River	4.9	4.8	4.8	4.7	4.7
	Little Colorado River	57.5	56.6	56.0	55.9	55.5
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>62.4</b>	<b>61.4</b>	<b>60.7</b>	<b>60.6</b>	<b>60.3</b>
Utah	Tributary Area Above Lake Mead	4.1	4.2	4.2	4.3	4.4
	Virgin River	95.3	100.1	105.2	111.8	120.2
	Mainstream Areas	-	-	-	-	-
	<b>TOTAL</b>	<b>99.5</b>	<b>104.2</b>	<b>109.4</b>	<b>116.1</b>	<b>124.6</b>
Lower Colorado River System	Tributary Area Above Lake Mead	57.5	59.6	61.9	64.6	67.4
	Tributary Area Below Lake Mead	56.3	58.6	61.2	64.5	67.9
	Gila River	4,650.6	4,759.1	4,866.5	5,001.1	5,168.4
	Little Colorado River	262.8	265.8	268.4	271.6	274.5
	Bill Williams River	5.9	6.1	6.3	6.5	6.8
	Virgin River	113.2	119.0	125.3	133.3	143.0
	Muddy River	12.1	12.4	12.6	13.0	13.3
	<b>TOTAL</b>	<b>6,854.2</b>	<b>7,042.8</b>	<b>7,234.6</b>	<b>7,467.9</b>	<b>7,730.7</b>

<sup>1</sup> Annual totals may differ from the sum of the displayed values due to total being calculated before rounding all values to the nearest 1,000s of people.