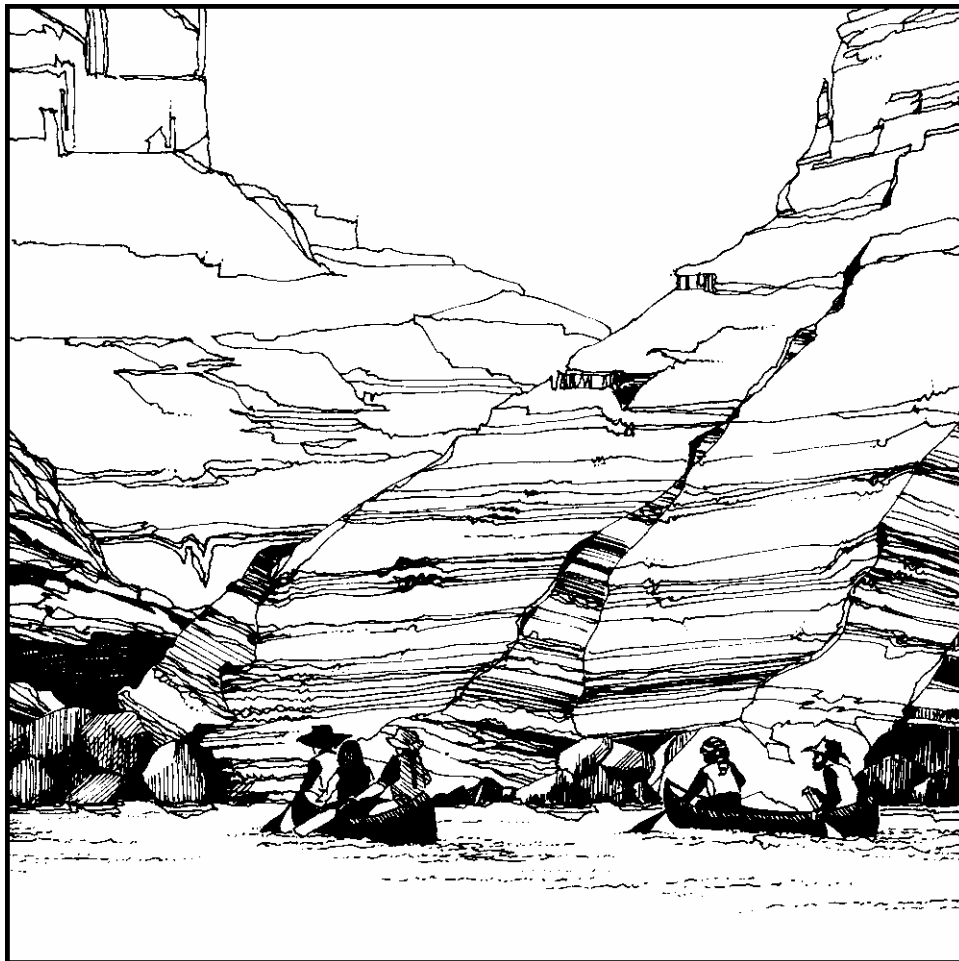


RECLAMATION

Managing Water in the West

Upper Colorado River Basin Consumptive Uses and Losses Report As Revised After Peer Review 1971-1995



**Upper Colorado River Basin
Consumptive Uses and Losses
Report As Revised After Peer
Review
1971-1995**

UPPER COLORADO RIVER BASIN

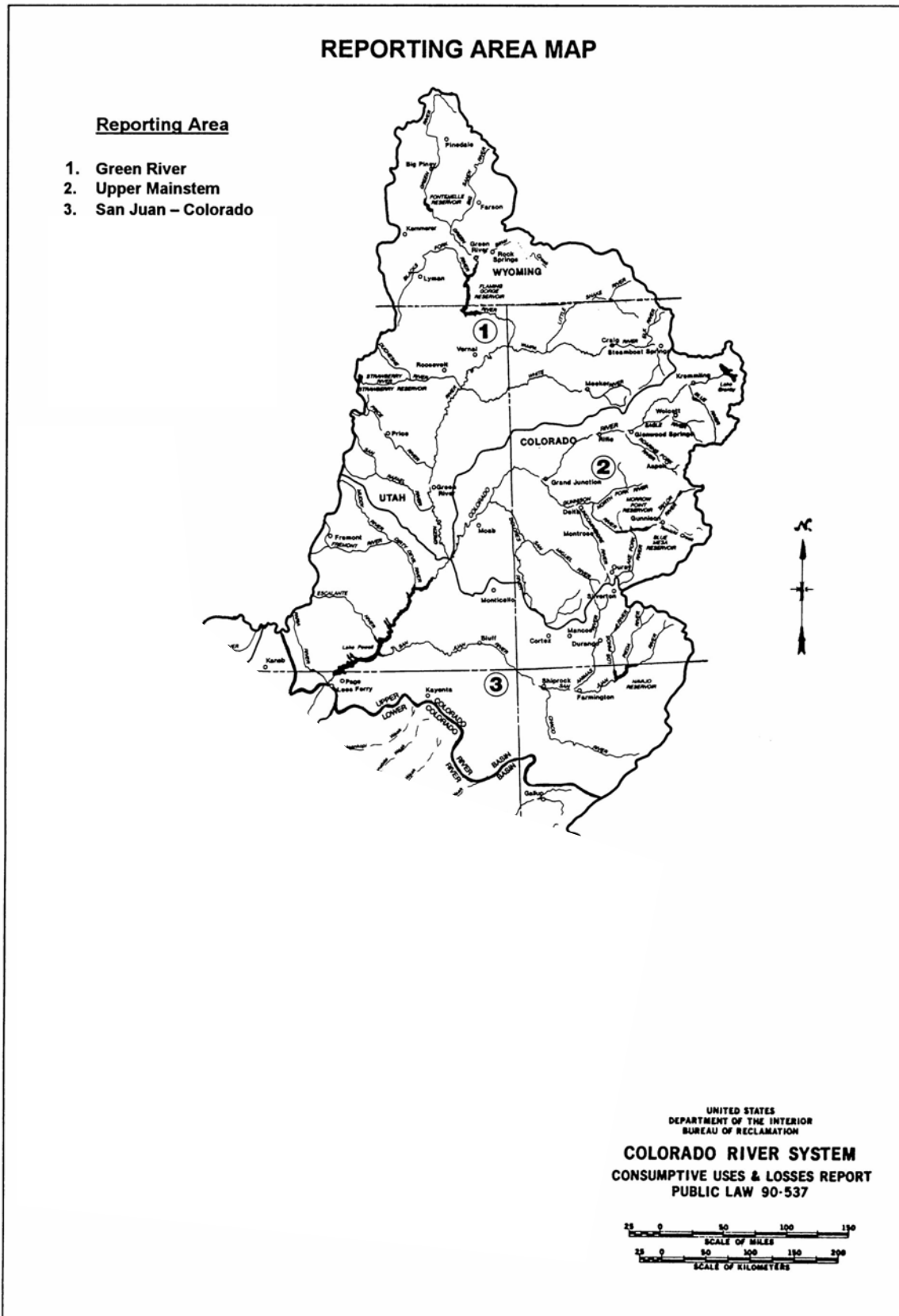
CONSUMPTIVE USES AND LOSSES

AS REVISED AFTER PEER REVIEW

1971-1995

FOREWORD

This report reflects the Department of the Interior's best estimate of actual consumptive uses and losses within the Upper Colorado River Basin. The reliability of the estimate is affected by the availability of data and the current capabilities of data evaluation.



SUMMARY

This report presents the revised estimates of the consumptive uses and losses from the Upper Colorado River Basin for each calendar year from 1971 through 1995. The estimates were revised based on a peer review of the data that supports historic consumptive uses and losses. It includes a breakdown of the beneficial consumptive use by major types of use, by major tributary streams, and, where possible, by individual States.

The Colorado River rises in the Rocky Mountains of Colorado, flows southwesterly about 1,400 miles and terminates in the Gulf of California. Its drainage area of 242,000 square miles in this country represents one fifteenth of the area of the United States. Its water is used for irrigation, municipal and industrial purposes, electric power generation, mineral activities, livestock, fish and wildlife, and recreation. Large amounts are exported from the system to adjoining areas. The following tables summarize annual water use from the system by basins and States. Distribution of water use by types of use from the various reporting areas is contained within the body of the report.

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UPPER COLORADO RIVER BASIN CONSUMPTIVE USES AND LOSSES AS REVISED AFTER PEER REVIEW 1971-1995

INTRODUCTION

The Colorado River System is composed of portions of seven States--Arizona, California, Colorado, Nevada, New Mexico, Utah, and Wyoming. It has a drainage area of about 242,000 square miles and represents about one-fifteenth of the area of the United States.

This report incorporates annual estimates of consumptive uses and losses of water from the system from 1971 through 1995 as revised after peer review. The peer review was initiated to develop consumptive uses and losses values that could be used to compute natural flow in the Upper Colorado Basin. For computation of natural flows consumptive uses and losses data were required at an eight digit hydrologic unit code spatial scale and a monthly temporal scale. Past technical appendices were reviewed and historic data were recollected as needed to facilitate development of the required data set. During this process inconsistencies with methodology in the computation of consumptive uses and losses were addressed and removed. The revised consumptive uses and losses in this report represent Reclamations best efforts to create a consistent consumptive uses and losses record from 1971-1995. Footnotes on the page following each table provide details explaining the reason for each revision.

This report is an initial effort by Reclamation to develop a consistent consumptive uses and losses data set throughout the Upper Colorado River basin. These data were used to recompute natural flows throughout the Upper Colorado River basin from 1971-1995 and this report serves as documentation of the depletions removed from historic gauged streamflows as part of the process for computing natural flow. Reclamation intends to spend the next year working with the Upper Basin States to revise and update both the data and methods used to arrive at the values shown in this report; therefore, moving toward a set of documented procedures and source data for the development of consumptive uses and losses that is agreed upon by all parties. Specific procedures that will be reviewed during this process included methods for computing shortage and accounting for incidental uses.

Wherever available, water use reports prepared in accordance with legal requirements concerning the operation of the Colorado River were utilized. Base data needed to estimate onsite consumptive uses were taken largely from existing reports and studies and from ongoing programs. Where current data were not available, estimated values were developed by various techniques and reasoned judgment. In general, methodology followed the techniques normally used within the system for estimating water use.

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 Water Treaty of 1944 with the United Mexican States (Treaty Series 994; 59 Stat. 1219), the decree entered by the Supreme Court of the United States in *Arizona vs. California, et al.* (376 U.S. 340), 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).

STUDY REPORTING AREAS

The drainage area of the Upper Colorado River Basin in the United States is approximately 110,000 square miles. The river originates in the Rocky Mountains of Colorado and Wyoming, flows southwest about 700 miles crossing into the Lower Colorado River Basin at Lee Ferry, Arizona. The system consists of portions of five states: Arizona, Colorado, New Mexico, Utah, and Wyoming. The drainage area was divided into three subbasins for the purposes of this report.

The Colorado River Compact, signed November 24, 1922, was established because the Upper Basin States were concerned that any storage on the river would be put to use more rapidly by the Lower Basin States, thus allowing them to claim prior appropriative rights. The Upper Basin States wanted provisions for their future development.

The term "Upper Basin States" refers to the States of Colorado, New Mexico, Utah, and Wyoming. "Lower Basin States" refers to the States of Arizona, California, and Nevada. However, the Upper Colorado River Basin refers to the hydrologic boundaries. Lee Ferry is the division point between the Upper Colorado River Basin and the Lower Colorado River Basin. Therefore, the hydrologic boundaries include portions of Arizona in the Upper Colorado River Basins and portions of Utah and New Mexico in the Lower Colorado River Basin. Hydrologic boundaries are shown on the map on page ii.

The major tributary streams selected as reporting areas in the Upper Colorado River Basin are: Green River (Wyoming, Colorado, Utah), Upper Main Stem (Colorado, Utah), and San Juan-Colorado (Colorado, New Mexico, Utah, Arizona).

BENEFICIAL CONSUMPTIVE USES AND LOSSES

Upper Colorado River Tributaries

Summaries of estimated annual consumptive uses and losses in the Upper Colorado River Basin for each of the reporting years, broken down by State, reporting area, and type of use are shown in tables UC-2 through UC-26. The subtotals and totals may not add appropriately because totals were computed before rounding all values to 100 acre-feet. Totals were computed before rounding to ensure values reported, including subtotals and

totals, are representative of the values utilized for computation of natural flow in the Upper Colorado Basin.

Estimated main stem reservoir evaporation is shown in table UC-1. Technically, these are not all main stem reservoirs but are reservoirs that participate in the Colorado River Storage Project (CRSP). The Upper Colorado River Commission designates which reservoirs in the CRSP have evaporation losses charged to the State and which have losses charged to the basin as a whole. Reservoirs listed in table UC-1 are those to be charged to the basin as a whole.

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Table UC-1
Upper Colorado River Basin
Estimated Main Stem Reservoir Evaporation¹
1971-1995

(1,000 acre-feet)

Reservoir	Evaporation				Total
	Flaming Gorge	Blue Mesa	Morrow Point	Lake Powell	
1971	68.5 ²	7.3 ²	0.8 ²	365.3 ²	441.9
1972	79.1 ²	7.2 ²	0.8 ²	362.1 ²	449.2
1973	77.9 ²	8.0 ²	0.8 ²	417.3 ²	504.1
1974	83.5 ²	7.6 ²	0.8 ²	498.7 ²	590.6
1975	83.7 ²	7.4	0.8 ²	521.4 ²	613.3
1976	83.6 ²	8.0	0.8 ²	533.9 ²	626.4
1977	62.9 ²	5.7 ²	0.8 ²	467.6 ²	537.0
1978	66.7 ²	7.9 ²	0.8 ²	443.3 ²	518.8
1979	67.1 ²	8.0	0.8 ²	536.3 ²	612.3
1980	72.3 ²	8.3	0.8 ²	606.7 ²	688.2
1981	74.0 ²	6.8 ²	0.8 ²	566.6 ²	648.2
1982	78.3 ²	7.6 ²	0.8 ²	579.6 ²	666.3
1983	85.7 ²	8.6 ²	0.8 ²	639.0 ²	734.1
1984	84.1 ²	8.3 ²	0.8 ²	621.2 ²	714.4
1985	80.4 ²	8.4 ²	0.8 ²	613.0 ²	702.6
1986	81.2 ²	8.3	0.8	615.4 ²	705.8
1987	81.9 ²	8.3	0.8	613.8 ²	704.8
1988	77.2 ²	7.2 ²	0.8	603.9 ²	689.1
1989	73.5 ²	8.2 ²	0.8	551.9 ²	634.5
1990	75.4 ²	8.4 ²	0.8	464.8 ²	549.4
1991	80.3 ²	9.0 ²	0.8	420.2 ²	510.3
1992	78.5 ²	8.4	0.8 ²	403.4 ²	491.0
1993	80.5 ²	8.5 ²	0.8 ²	483.7 ²	573.5
1994	75.5 ²	8.5 ²	0.8	504.3 ²	589.1
1995	79.3 ²	8.6 ²	0.8	560.1 ²	648.9
AVERAGE	77.2	7.9	0.8	519.7	605.7

¹ Undistributed by States. Evaporation determined using average historical evaporation rates.

² As recorded in calendar year by the Bureau of Reclamation. Previous source uncertain.

Table UC-2
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1971

(1,000 acre-feet)												
State	Tributary	Reservoir Evaporation ¹	Agriculture			Municipal and Industrial				Export		TOTAL
			Irrigation	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other ²	Subtotal	Outside System	Within System	
Arizona	San Juan - Colorado Rivers	4.6 ³	2.5	1.1	3.6	0.0	0.0	2.9	2.9	0.0	0.0	11.1
Colorado	Green River	5.8 ³	130.0	6.1	136.1	4.6	4.9	1.9	11.4	0.0	0.0	153.4
	Upper Main Stem	46.8 ^{3,4}	890.9 ⁵	11.1	902.0	11.2	0.0 ⁶	13.3	24.5	380.1 ⁷	0.0 ⁷	1,353.4
	San Juan - Colorado Rivers	8.8 ³	164.3	5.3	169.6	2.1	0.0	3.0	5.1	2.2	0.0 ⁷	185.7
	TOTAL	61.4	1,185.2	22.5	1,207.7	17.9	4.9	18.2	41.0	382.3	0.0	1,692.5
New Mexico	San Juan - Colorado Rivers	19.5 ³	80.3 ⁵	2.8	83.1	2.4	15.8	3.9	22.1	60.0 ⁷	0.0	184.8
Utah	Green River	41.5 ^{3,4}	500.4	4.2	504.6	7.2	1.9	4.2	13.3	102.7 ⁷	0.0	662.1
	Upper Main Stem	0.1	9.6	0.5	10.1	1.4	0.0	0.8	2.2	0.0	0.0	12.4
	San Juan - Colorado Rivers	15.6 ³	39.2 ⁵	1.9	41.1	1.1	0.0	1.3	2.4	(4.2)	0.0	54.8
	TOTAL	57.2	549.2	6.6	555.8	9.7	1.9	6.3	17.9	98.5	0.0	729.3
Wyoming	Green River	27.4 ³	275.2	5.0	280.2	11.1	5.7	3.3	20.1	6.0	0.0	333.7
Upper Basin	Green River	74.7	905.6	15.3	920.9	22.9	12.5	9.4	44.8	108.7	0.0	1,149.2
	Upper Main Stem	46.9	900.5	11.6	912.1	12.6	0.0	14.1	26.7	380.1	0.0	1,365.8
	San Juan - Colorado Rivers	48.5	286.3	11.1	297.4	5.6	15.8	11.1	32.5	58.0	0.0	436.4
	TOTAL	170.1	2,092.4	38.0	2,130.4	41.2	28.3	34.6	104.1	546.8	0.0	2,951.4

Table UC-2 Comments: 1971

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ These values also include Fish & Wildlife recreation values.

⁴ These values also include Fish & Wildlife recreation values and includes evaporation from export project reservoirs.

⁵ Previously published values not supported in technical appendix.

⁶ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁷ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-3
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1972

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation ¹	Agriculture			Municipal and Industrial				Export		TOTAL
			Irrigation	Livestock	Subtotal	Mineral Resources	Thermal		Subtotal	Outside System	Within System	
							Electric Power	Other ²				
Arizona	San Juan - Colorado Rivers	4.6 ³	2.9	1.1	4.0	0.0	0.0	3.6	3.6	0.0	0.0	12.2
Colorado	Green River	4.4 ³	108.4 ⁵	5.1	113.5	4.6	4.9	2.0	11.5	0.0	0.0	129.4
	Upper Main Stem	45.4 ^{3,4}	891.2 ⁵	12.0	903.2	11.4	0.0 ⁶	13.6	25.0	436.2 ⁸	0.4 ⁸	1,409.4
	San Juan - Colorado Rivers	8.4 ³	187.0	5.6	192.6	2.1	0.0	3.1	5.2	1.5 ⁸	(0.4) ⁸	208.0
	TOTAL	58.2	1,186.6	22.7	1,209.3	18.1	4.9	18.7	41.7	437.7	0.0	1,746.9
New Mexico	San Juan - Colorado Rivers	18.7 ³	92.7 ⁵	2.9	95.6	2.6	17.4 ⁷	4.1	24.1	58.1 ⁸	0.0	196.4
Utah	Green River	42.4 ^{3,4}	504.0	4.3	508.3	7.3	1.7	4.3	13.3	120.9 ⁸	0.0	684.9
	Upper Main Stem	0.1	8.8 ⁵	0.4	9.2	1.4	0.0	0.8	2.2	0.0	0.0	11.5
	San Juan - Colorado Rivers	16.6 ³	34.3 ⁵	2.0	36.3	1.2	0.0	1.4	2.6	(3.4)	0.0	52.0
	TOTAL	59.1	547.1	6.7	553.8	9.9	1.7	6.5	18.1	117.5	0.0	748.4
Wyoming	Green River	31.9 ³	238.2	4.9	243.1	12.0	4.5	3.4	19.9	8.7	0.0	303.5
Upper Basin	Green River	78.7	850.6	14.3	864.9	23.9	11.1	9.7	44.7	129.6	0.0	1,117.8
	Upper Main Stem	45.5	900.0	12.4	912.4	12.8	0.0	14.4	27.2	436.2	0.4	1,420.9
	San Juan - Colorado Rivers	48.3	316.9	11.6	328.5	5.9	17.4	12.2	35.5	56.2	(0.4)	468.6
	TOTAL	172.5	2,067.5	38.3	2,105.8	42.5	28.5	36.3	107.3	621.9	0.0	3,007.4

Table UC-3 Comments: 1972

- ¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.
- ² Includes rural, urban, and other industrial uses.
- ³ These values also include Fish & Wildlife recreation values.
- ⁴ These values also include Fish & Wildlife recreation values and includes evaporation from export project reservoirs.
- ⁵ Previously published values not supported in technical appendix.
- ⁶ Problems with nucla data. Appears it was estimated by the state of Colorado.
- ⁷ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.
- ⁸ Monthly export and import data was collected for each individual export.
Values in blue were rounded in previous reports to achieve correct totals

Table UC-4
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1973

(1,000 acre-feet)

State	Tributary	Reservoir Evaporation ¹	Agriculture			Municipal and Industrial				Export		TOTAL	
			Irrigation	Livestock	Subtotal	Mineral Resources	Thermal		Other ²	Subtotal	Outside System		Within System
							Electric Power						
Arizona	San Juan - Colorado Rivers	3.3 ³	4.0	0.9	4.9	0.0	0.0	3.2	3.2	0.0	0.0	11.4	
Colorado	Green River	4.1 ³	94.7 ⁵	4.9	99.6	4.7	4.9	2.1	11.7	0.0	0.0	115.4	
	Upper Main Stem	44.0 ^{3,4}	731.4 ⁵	12.9	744.3	11.5	0.0 ⁶	13.9	25.4	381.2 ⁸	1.8 ⁸	1,196.2	
	San Juan - Colorado Rivers	6.3 ³	169.1	3.7	172.8	2.2	0.0	3.3	5.5	3.6 ⁸	(1.8) ⁸	186.4	
	TOTAL	54.4	995.2	21.5	1,016.7	18.4	4.9	19.3	42.6	384.8	0.0	1,498.0	
New Mexico	San Juan - Colorado Rivers	27.3 ³	87.2 ⁵	2.3	89.5	2.7	26.1 ⁷	4.3	33.1	153.3 ⁸	0.0	303.2	
Utah	Green River	40.8 ^{3,4}	502.1	3.6	505.7	7.3	1.9	4.3	13.5	97.6 ⁸	0.0	657.7	
	Upper Main Stem	0.1	9.1	0.4	9.5	1.4	0.0	0.9	2.3	0.0	0.0	11.9	
	San Juan - Colorado Rivers	15.3 ³	48.0 ⁵	1.6	49.6	1.2	0.0	1.5	2.7	(6.0)	0.0	61.5	
	TOTAL	56.2	559.2	5.6	564.8	9.9	1.9	6.7	18.5	91.6	0.0	731.2	
Wyoming	Green River	31.0 ³	235.3	4.7	240.0	12.8	7.7	3.5	24.0	8.7	0.0	303.7	
Upper Basin	Green River	75.9	832.1	13.2	845.3	24.8	14.5	9.9	49.2	106.3	0.0	1,076.7	
	Upper Main Stem	44.1	740.5	13.3	753.8	12.9	0.0	14.8	27.7	381.2	1.8	1,208.6	
	San Juan - Colorado Rivers	52.2	308.3	8.5	316.8	6.1	26.1	12.3	44.5	150.9	(1.8)	562.6	
	TOTAL	172.2	1,880.8	34.6	1,915.4	43.7	40.6	37.0	121.3	638.5	0.0	2,847.5	

Table UC-4 Comments: 1973

- ¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.
- ² Includes rural, urban, and other industrial uses.
- ³ These values also include Fish & Wildlife recreation values.
- ⁴ These values also include Fish & Wildlife recreation values and includes evaporation from export project reservoirs.
- ⁵ Previously published values not supported in technical appendix.
- ⁶ Problems with nucla data. Appears it was estimated by the state of Colorado.
- ⁷ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.
- ⁸ Monthly export and import data was collected for each individual export.
Values in blue were rounded in previous reports to achieve correct totals

Table UC-5
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1974

(1,000 acre-feet)													
State	Tributary	Reservoir Evaporation ¹	Agriculture			Municipal and Industrial				Export		TOTAL	
			Irrigation	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other ²	Subtotal	Outside System	Within System		
Arizona	San Juan - Colorado Rivers	4.7 ³	4.3 ⁵	1.2	5.5	0.0	5.3	3.7	9.0	0.0	0.0	19.1	
Colorado	Green River	4.8 ³	111.9 ⁵	5.6	117.5	4.7	2.9	2.2	9.8	0.0	0.0	132.0	
	Upper Main Stem	48.5 ^{3,4}	951.7 ⁵	12.9	964.6	11.6	0.0 ⁶	14.2	25.8	478.4 ⁸	116.0 ⁸	1,633.3	
	San Juan - Colorado Rivers	8.5 ³	191.8	4.9	196.7	2.2	0.0	3.4	5.6	1.2	(116.0) ⁸	96.0	
	TOTAL	61.8	1,255.4	23.4	1,278.8	18.5	2.9	19.8	41.2	479.6	0.0	1,861.3	
New Mexico	San Juan - Colorado Rivers	20.7 ³	96.0 ⁵	3.0	99.0	2.9	23.4 ⁷	4.5	30.8	47.2 ⁸	0.0	197.7	
Utah	Green River	51.5 ^{3,4}	524.5	4.8	529.3	7.4	1.8	4.3	13.5	110.2 ⁸	0.0	704.5	
	Upper Main Stem	0.1	9.8 ⁵	0.5	10.3	1.4	0.0	0.9	2.3	0.0	0.0	12.8	
	San Juan - Colorado Rivers	19.9 ³	40.9 ⁵	2.0	42.9	1.1	0.0	1.6	2.7	(4.1)	0.0	61.4	
	TOTAL	71.5	575.2	7.3	582.5	9.9	1.8	6.8	18.5	106.1	0.0	778.7	
Wyoming	Green River	33.6 ³	288.5	5.2	293.7	13.7	10.1	3.7	27.5	8.7	0.0	363.5	
Upper Basin	Green River	89.9	924.9	15.6	940.5	25.8	14.8	10.2	50.8	118.9	0.0	1,200.1	
	Upper Main Stem	48.6	961.5	13.4	974.9	13.0	0.0	15.1	28.1	478.4	116.0	1,646.0	
	San Juan - Colorado Rivers	53.8	333.0	11.1	344.1	6.2	28.7	13.2	48.1	44.3	(116.0)	374.3	
	TOTAL	192.3	2,219.3	40.1	2,259.4	45.0	43.5	38.5	127.0	641.6	0.0	3,220.2	

Table UC-5 Comments: 1974

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ These values also include Fish & Wildlife recreation values.

⁴ These values also include Fish & Wildlife recreation values and includes evaporation from export project reservoirs.

⁵ Previously published values not supported in technical appendix.

⁶ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁷ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁸ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-6
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1975

(1,000 acre-feet)												
State	Tributary	Reservoir Evaporation ¹	Agriculture			Municipal and Industrial				Export		TOTAL
			Irrigation	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other ²	Subtotal	Outside System	Within System	
Arizona	San Juan - Colorado Rivers	3.9 ³	3.5 ⁵	0.9	4.4	0.0	12.4	2.9	15.3	0.0	0.0	23.7
Colorado	Green River	4.4 ³	99.7 ⁵	5.2	104.9	4.7	3.2	2.2	10.1	0.0	1.8 ⁸	121.2
	Upper Main Stem	44.6 ^{3,4}	825.7 ⁵	10.7	836.4	11.7	0.6 ⁶	14.5	26.8	547.6 ⁸	133.4 ⁸	1,588.7
	San Juan - Colorado Rivers	6.4 ³	196.3	3.8	200.1	2.2	0.0	3.6	5.8	2.4 ⁸	(135.2) ⁸	79.5
	TOTAL	55.4	1,121.7	19.7	1,141.4	18.6	3.8	20.3	42.7	550.0	0.0	1,789.4
New Mexico	San Juan - Colorado Rivers	24.1 ³	88.3 ⁵	2.4	90.7	3.0	25.3 ⁷	4.8	33.1	145.1 ⁸	0.0	293.0
Utah	Green River	42.2 ^{3,4}	393.8	4.5	398.3	7.4	7.0	4.4	18.8	96.9 ⁸	0.0	556.2
	Upper Main Stem	0.1	8.7	0.4	9.1	1.4	0.0	0.9	2.3	0.0	0.0	11.5
	San Juan - Colorado Rivers	13.4 ³	36.8 ⁵	1.7	38.5	1.2	0.0	1.6	2.8	(6.1)	0.0	48.6
	TOTAL	55.7	439.3	6.6	445.9	10.0	7.0	6.9	23.9	90.8	0.0	616.3
Wyoming	Green River	28.3 ³	207.1	4.9	212.0	14.6	12.9	3.8	31.3	6.6	0.0	278.2
Upper Basin	Green River	74.9	700.6	14.6	715.2	26.7	23.1	10.4	60.2	103.5	1.8	955.6
	Upper Main Stem	44.7	834.4	11.1	845.5	13.1	0.6	15.4	29.1	547.6	133.4	1,600.2
	San Juan - Colorado Rivers	47.8	324.9	8.8	333.7	6.4	37.7	12.9	57.0	141.4	(135.2)	444.8
	TOTAL	167.4	1,860.0	34.5	1,894.5	46.2	61.4	38.7	146.3	792.5	0.0	3,000.7

Table UC-6 Comments: 1975

- ¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.
 - ² Includes rural, urban, and other industrial uses.
 - ³ These values also include Fish & Wildlife recreation values.
 - ⁴ These values also include Fish & Wildlife recreation values and includes evaporation from export project reservoirs.
 - ⁵ Previously published values not supported in technical appendix.
 - ⁶ Problems with nucla data. Appears it was estimated by the state of Colorado.
 - ⁷ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.
 - ⁸ Monthly export and import data was collected for each individual export.
- Values in blue were rounded in previous reports to achieve correct totals

Table UC-7
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1976

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Subtotal	Outside System	Within System		
			Irrigation	Livestock		Subtotal	Electric Power				Other ²	
Arizona	San Juan - Colorado Rivers	4.0 ³	2.7	1.0	3.7	0.0	19.9	2.9	22.8	0.0	0.0	30.5
Colorado	Green River	3.9 ³	101.3	3.1	104.4	4.8	4.9	1.5	11.2	0.0	0.6 ⁷	120.0
	Upper Main Stem	29.1 ³	840.0 ⁴	6.9	846.9	11.8	0.6 ⁵	9.8	22.2	508.5 ⁷	133.6 ⁷	1,540.2
	San Juan - Colorado Rivers	3.8 ³	149.2 ⁴	3.8	153.0	2.3	0.0	2.5	4.8	2.8 ⁷	(134.2) ⁷	30.2
	TOTAL	36.8	1,090.5	13.8	1,104.3	18.9	5.5	13.8	38.2	511.3	0.0	1,690.4
New Mexico	San Juan - Colorado Rivers	18.5 ³	141.3 ⁴	1.2	142.5	3.1	28.1 ⁶	5.1	36.3	85.2 ⁷	0.0	282.5
Utah	Green River	31.1 ³	416.7	3.3	420.0	7.4	5.1	3.8	16.3	113.6	0.0	580.9
	Upper Main Stem	0.2 ³	10.5	0.1	10.6	1.4	0.0	0.6	2.0	0.0	0.0	12.9
	San Juan - Colorado Rivers	4.6 ³	38.2	2.6	40.8	1.2	0.0	0.9	2.1	(5.0)	0.0	42.5
	TOTAL	35.9	465.4	6.0	471.4	10.0	5.1	5.3	20.4	108.6	0.0	636.2
Wyoming	Green River	24.0 ³	204.1 ⁴	3.9	208.0	15.5	20.4	3.1	39.0	9.2	0.0	280.2
Upper Basin	Green River	59.0	722.1	10.3	732.4	27.7	30.4	8.4	66.5	122.8	0.6	981.1
	Upper Main Stem	29.3	850.5	7.0	857.5	13.2	0.6	10.4	24.2	508.5	133.6	1,553.1
	San Juan - Colorado Rivers	30.9	331.4	8.6	340.0	6.6	48.0	11.4	66.0	83.0	(134.2)	385.7
	TOTAL	119.1	1,903.9	26.0	1,929.9	47.5	79.0	30.1	156.6	714.3	0.0	2,919.8

Table UC-7 Comments: 1976

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Removed 124 of 1100 reservoirs because they only show up from 1976-1980, predominately Colorado.

⁴ Previously published values not supported in technical appendix.

⁵ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁶ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁷ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-8
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1977

(1,000 acre-feet)

State	Tributary	(1,000 acre-feet)										TOTAL
		Reservoir Evaporation ¹	Agriculture			Municipal and Industrial			Export			
			Irrigation	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other ²	Subtotal	Outside System	Within System	
Arizona	San Juan - Colorado Rivers	4.2	3.8	1.1	4.9	0.0	21.8	3.1	24.9	0.0	0.0	34.0
Colorado	Green River	5.1 ³	89.3	3.3	92.6	4.8	7.1	1.6	13.5	0.0	0.2 ⁸	111.4
	Upper Main Stem	36.6 ³	769.8 ⁴	7.0	776.8	11.9	0.6 ⁵	10.2	22.7	516.0 ⁸	59.1 ⁸	1,411.1
	San Juan - Colorado Rivers	3.5 ³	118.5 ⁴	3.8	122.3	2.3	0.0	2.5	4.8	0.3	(59.3) ⁸	71.6
	TOTAL	45.2	977.6	14.1	991.7	19.0	7.7	14.3	41.0	516.3	0.0	1,594.1
New Mexico	San Juan - Colorado Rivers	17.2 ³	132.0 ⁴	1.1	133.1	3.3	29.6 ⁶	5.3	38.2	19.4	0.0	207.9
Utah	Green River	33.5 ³	228.0	3.3	231.3	7.5	7.3	4.0	18.8	80.2	0.0	363.7
	Upper Main Stem	0.3 ³	4.0	0.1	4.1	1.5	0.0	0.6	2.1	0.0	0.0	6.5
	San Juan - Colorado Rivers	4.8 ³	15.9	2.4	18.3	1.2	0.0	0.9	2.1	(1.0)	0.0	24.2
	TOTAL	38.6	247.9	5.8	253.7	10.2	7.3	5.5	23.0	79.2	0.0	394.4
Wyoming	Green River	25.0 ³	133.0 ⁴	4.2	137.2	16.4	28.5 ⁷	3.4	48.3	5.3	0.0	215.7
Upper Basin	Green River	63.6	450.3	10.8	461.1	28.7	42.9	9.0	80.6	85.5	0.2	690.8
	Upper Main Stem	36.9	773.8	7.1	780.9	13.4	0.6	10.8	24.8	516.0	59.1	1,417.6
	San Juan - Colorado Rivers	29.7	270.2	8.4	278.6	6.8	51.4	11.8	70.0	18.7	(59.3)	337.7
	TOTAL	130.1	1,494.3	26.2	1,520.5	48.9	94.9	31.5	175.3	620.1	0.0	2,446.0

Table UC-8 Comments: 1977

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Removed 124 of 1100 reservoirs because they only show up from 1976-1980, predominately Colorado.

⁴ Previously published values not supported in technical appendix.

⁵ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁶ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁷ Jim Bridger or Naughton monthly values did not add to published annual.

⁸ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

**Table UC-9
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1978**

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Other ²	Subtotal	Outside System	Within System	
			Irrigation	Livestock		Subtotal	Electric Power					
Arizona	San Juan - Colorado Rivers	4.3	4.3	1.1	5.4	0.0	19.4	3.8	23.2	0.0	0.0	32.9
Colorado	Green River	5.4 ³	121.3	3.2	124.5	4.8	8.2	1.7	14.7	0.0	1.8 ⁹	146.4
	Upper Main Stem	44.1 ³	921.2 ⁴	7.0	928.2	12.0	0.6 ⁵	10.6	23.2	651.1 ⁹	116.3 ⁹	1,762.9
	San Juan - Colorado Rivers	5.6 ³	139.9 ⁴	4.3	144.2	2.3	0.0	2.6	4.9	1.9	(118.1) ⁹	38.5
	TOTAL	55.1	1,182.4	14.5	1,196.9	19.1	8.8	14.9	42.8	653.0	0.0	1,947.8
New Mexico	San Juan - Colorado Rivers	23.3 ³	157.1 ⁴	1.3	158.4	3.4	27.5 ⁶	5.5	36.4	104.2 ⁹	0.0	322.2
Utah	Green River	37.6 ³	436.9	3.4	440.3	7.5	13.2 ⁷	4.2	24.9	107.7 ⁹	0.0	610.4
	Upper Main Stem	0.3 ³	12.5	0.1	12.6	1.5	0.0	0.6	2.1	0.0	0.0	15.0
	San Juan - Colorado Rivers	5.8 ³	44.3	2.7	47.0	1.2	0.0 ⁷	0.9	2.1	(4.6)	0.0	50.3
	TOTAL	43.7	493.7	6.2	499.9	10.2	13.2	5.7	29.1	103.1	0.0	675.7
Wyoming	Green River	27.6 ³	244.7 ⁴	3.8	248.5	17.2	25.0 ⁸	3.7	45.9	8.5	0.0	330.5
Upper Basin	Green River	70.6	802.9	10.4	813.3	29.5	46.4	9.6	85.5	116.2	1.8	1,087.3
	Upper Main Stem	44.4	933.7	7.1	940.8	13.5	0.6	11.2	25.3	651.1	116.3	1,777.9
	San Juan - Colorado Rivers	39.0	345.6	9.4	355.0	6.9	46.9	12.8	66.6	101.5	(118.1)	443.9
	TOTAL	153.9	2,082.2	27.0	2,108.9	49.9	93.9	33.6	177.4	868.8	0.0	3,309.1

Table UC-9 Comments: 1978

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Removed 124 of 1100 reservoirs because they only show up from 1976-1980, predominately Colorado.

⁴ Previously published values not supported in technical appendix.

⁵ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁶ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁷ Published report wrongly splits uses in Green River into San-Juan.

⁸ Jim Bridger or Naughton monthly values did not add to published annual.

⁹ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-10
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1979

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Other ²	Subtotal	Outside System	Within System	
			Irrigation	Livestock		Subtotal	Electric Power					
Arizona	San Juan - Colorado Rivers	3.7	5.3	0.9	6.2	0.0	20.4	3.6	24.0	0.0	0.0	33.9
Colorado	Green River	5.4 ³	119.9	3.4	123.3	4.9	6.7	1.8	13.4	0.0	1.8 ⁹	143.9
	Upper Main Stem	41.9 ³	911.8 ⁴	7.0	918.8	12.1	0.6 ⁵	11.1	23.8	449.2 ⁹	128.2 ⁹	1,561.9
	San Juan - Colorado Rivers	3.8 ³	171.3 ⁴	3.8	175.1	2.4	0.0	2.7	5.1	1.9 ⁹	(130.0) ⁹	55.8
	TOTAL	51.1	1,203.0	14.2	1,217.2	19.4	7.3	15.6	42.3	451.1	0.0	1,761.7
New Mexico	San Juan - Colorado Rivers	21.2 ³	174.7 ⁴	1.1	175.8	3.6	33.4 ⁶	5.7	42.7	164.1	0.0	403.8
Utah	Green River	36.3 ³	450.1	3.4	453.5	7.6	16.8 ⁷	4.4	28.8	124.9 ⁹	0.0	643.4
	Upper Main Stem	0.2 ³	13.8	0.1	13.9	1.5	0.0	0.7	2.2	0.0	0.0	16.3
	San Juan - Colorado Rivers	5.4 ³	56.3	2.6	58.9	1.2	0.0 ⁷	0.9	2.1	(5.2)	0.0	61.2
	TOTAL	41.9	520.2	6.1	526.3	10.3	16.8	6.0	33.1	119.7	0.0	721.0
Wyoming	Green River	28.8 ³	253.4 ⁴	4.0	257.4	18.1	27.2 ⁸	3.9	49.2	9.7	0.0	345.1
Upper Basin	Green River	70.5	823.4	10.8	834.2	30.6	50.7	10.1	91.4	134.6	1.8	1,132.4
	Upper Main Stem	42.1	925.6	7.1	932.7	13.6	0.6	11.8	26.0	449.2	128.2	1,578.2
	San Juan - Colorado Rivers	34.1	407.6	8.4	416.0	7.2	53.8	12.9	73.9	160.8	(130.0)	554.7
	TOTAL	146.6	2,156.6	26.3	2,182.9	51.4	105.1	34.7	191.2	744.6	0.0	3,265.4

Table UC-10 Comments: 1979

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Removed 124 of 1100 reservoirs because they only show up from 1976-1980, predominately Colorado.

⁴ Previously published values not supported in technical appendix.

⁵ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁶ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁷ Published report wrongly splits uses in Green River into San-Juan.

⁸ Jim Bridger or Naughton monthly values did not add to published annual.

⁹ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-11
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1980

(1,000 acre-feet)

State	Tributary	(1,000 acre-feet)										
		Reservoir Evaporation ¹	Agriculture			Municipal and Industrial				Export		TOTAL
			Irrigation	Stockpond Evaporation & Livestock	Subtotal	Mineral Resources	Thermal Electric Power	Other ²	Subtotal	Outside System	Within System	
Arizona	San Juan - Colorado Rivers	3.7 ³	6.3	1.0	7.3	0.0	22.3	3.6	25.9	0.0	0.0	36.9
Colorado	Green River	6.1 ³	116.4 ⁴	3.5	119.9	4.9	9.2 ⁵	1.9	16.0	0.0	1.9 ¹⁰	143.8
	Upper Main Stem	54.8 ³	937.2	7.6	944.8	12.2	0.6 ⁶	11.5	24.3	410.6 ¹⁰	130.2 ¹⁰	1,564.7
	San Juan - Colorado Rivers	5.0 ³	160.3 ⁴	4.7	165.0	2.4	0.0	2.8	5.2	2.4	(132.2) ¹⁰	45.4
	TOTAL	65.9	1,213.9	15.8	1,229.7	19.5	9.8	16.2	45.5	413.0	0.0	1,753.9
New Mexico	San Juan - Colorado Rivers	29.8 ³	204.7 ⁴	1.4	206.1	3.7	34.6 ⁷	5.9	44.2	143.6	0.0	423.7
Utah	Green River	37.3 ³	418.6	3.3	421.9	7.6	17.8 ⁸	4.6	30.0	107.8 ¹⁰	0.0	597.0
	Upper Main Stem	0.3 ³	13.1 ⁴	0.1	13.2	1.5	0.0	0.7	2.2	0.0	0.0	15.6
	San Juan - Colorado Rivers	5.7 ³	52.5	2.5	55.0	1.2	0.0 ⁸	1.0	2.2	(5.6)	0.0	57.3
	TOTAL	43.3	484.2	5.9	490.1	10.3	17.8	6.3	34.4	102.2	0.0	669.9
Wyoming	Green River	28.2 ³	239.4 ⁴	3.7	243.1	19.0	31.5 ⁹	4.2	54.7	9.3	0.0	335.3
Upper Basin	Green River	71.6	774.4	10.5	784.9	31.5	58.5	10.7	100.7	117.1	1.9	1,076.2
	Upper Main Stem	55.1	950.3	7.7	958.0	13.7	0.6	12.2	26.5	410.6	130.2	1,580.4
	San Juan - Colorado Rivers	44.2	423.8	9.6	433.4	7.3	56.9	13.3	77.5	140.4	(132.2)	563.3
	TOTAL	170.7	2,148.5	27.8	2,176.3	52.5	116.0	36.2	204.7	668.1	(0.1)	3,219.7

Table UC-11 Comments: 1980

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Removed 124 of 1100 reservoirs because they only show up from 1976-1980, predominately Colorado.

⁴ Previously published values not supported in technical appendix.

⁵ HUC-county (14040106-Moffat) was missing from published values.

⁶ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁷ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁸ Published report wrongly splits uses in Green River into San-Juan.

⁹ Jim Bridger or Naughton monthly values did not add to published annual.

¹⁰ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-12
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1981

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Other ²	Subtotal	Outside System	Within System	
			Irrigation	Livestock		Subtotal	Electric Power					
Arizona	San Juan - Colorado Rivers	5.6	4.6	3.5	8.1	0.0 ⁷	21.1	6.6	27.7	0.0	0.0	41.4
Colorado	Green River	6.5	156.1 ⁵	3.7	159.8	4.0	13.8 ⁸	1.9	19.7	0.0	0.6 ¹²	186.6
	Upper Main Stem	67.5	1,059.4	7.4	1,066.8	9.9	0.6 ⁹	13.1	23.6	565.8 ¹²	126.6 ¹²	1,850.3
	San Juan - Colorado Rivers	8.8	187.3	6.0	193.3	2.0	0.0	3.0	5.0	2.6 ¹²	(127.2) ¹²	82.3
	TOTAL	82.8	1,402.8	17.1	1,419.9	15.9	14.4	18.0	48.3	568.4	0.0	2,119.3
New Mexico	San Juan - Colorado Rivers	35.9 ³	152.2 ⁶	3.9	156.1	4.2	31.5 ¹⁰	9.5	45.2	53.9	0.0	291.1
Utah	Green River	51.3	409.2	4.8	414.0	6.8	20.1	5.6	32.5	103.2 ¹²	0.0	600.9
	Upper Main Stem	0.4	9.1	0.1	9.2	1.6	0.0	0.9	2.5	0.0	0.0	12.1
	San Juan - Colorado Rivers	8.7	42.9	4.3	47.2	1.6	0.0	1.1	2.7	(5.7)	0.0	52.9
	TOTAL	60.4	461.2	9.2	470.4	10.0	20.1	7.6	37.7	97.5	0.0	665.9
Wyoming	Green River	48.7 ⁴	237.1	4.6	241.7	16.4	28.0 ¹¹	5.7	50.1	7.0	0.0	347.5
Upper Basin	Green River	106.5	802.4	13.1	815.5	27.2	61.9	13.2	102.3	110.2	0.6	1,135.1
	Upper Main Stem	67.9	1,068.5	7.5	1,076.0	11.5	0.6	14.0	26.1	565.8	126.6	1,862.4
	San Juan - Colorado Rivers	59.0	387.0	17.7	404.7	7.8	52.6	20.2	80.6	50.8	(127.2)	467.9
	TOTAL	233.3	2,257.9	38.3	2,296.2	46.5	115.1	47.2	208.8	726.8	0.0	3,465.2

Table UC-12 Comments: 1981

- ¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.
- ² Includes rural, urban, and other industrial uses.
- ³ Missing values from state of NM. These supported in technical appendix.
- ⁴ Previously published values not supported in technical appendix.
- ⁵ HUC-county (14040106-Moffat) was missing from published values.
- ⁶ These vary because technical appendix values for NM do not match published values.
- ⁷ AZ reports do not support 400AF.
- ⁸ Craig and Hayden monthly values did not add to published annual values.
- ⁹ Problems with nucla data. Appears it was estimated by the state of Colorado.
- ¹⁰ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.
- ¹¹ Jim Bridger or Naughton monthly values did not add to published annual.
- ¹² Monthly export and import data was collected for each individual export.
Values in blue were rounded in previous reports to achieve correct totals

Table UC-13
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1982

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Other ²	Subtotal	Outside System	Within System	
			Irrigation	Livestock		Subtotal	Electric Power					
Arizona	San Juan - Colorado Rivers	4.3	5.7	3.4	9.1	0.0 ⁷	19.4	6.6	26.0	0.0	0.0	39.3
Colorado	Green River	6.5	142.3 ⁵	3.6	145.9	3.1	11.7 ⁸	1.9	16.7	0.0	3.1 ¹²	172.2
	Upper Main Stem	63.3	1,016.9	7.2	1,024.1	7.7	0.6 ⁹	13.8	22.1	550.0 ¹²	142.9 ¹²	1,802.3
	San Juan - Colorado Rivers	8.7	204.1	5.9	210.0	1.5	0.0	3.1	4.6	3.0	(146.0) ¹²	80.3
	TOTAL	78.5	1,363.3	16.7	1,380.0	12.3	12.3	18.8	43.4	553.0	0.0	2,054.8
New Mexico	San Juan - Colorado Rivers	38.2 ³	196.3 ⁶	4.0	200.3	3.9	41.6 ¹⁰	9.1	54.6	131.0	0.0	424.1
Utah	Green River	46.6	403.5	4.5	408.0	6.0	20.0	6.1	32.1	77.4 ¹²	0.0	564.0
	Upper Main Stem	0.4	7.7	0.1	7.8	1.7	0.0	1.0	2.7	0.0	0.0	10.9
	San Juan - Colorado Rivers	8.1	46.8	4.2	51.0	2.0	0.0	1.2	3.2	(6.0)	0.0	56.3
	TOTAL	55.1	458.0	8.8	466.8	9.7	20.0	8.3	38.0	71.4	0.0	631.2
Wyoming	Green River	47.6 ⁴	224.3	4.4	228.7	13.9	31.1 ¹¹	5.9	50.9	11.1	0.0	338.2
Upper Basin	Green River	100.7	770.1	12.5	782.6	23.0	62.8	13.9	99.7	88.5	3.1	1,074.4
	Upper Main Stem	63.7	1,024.6	7.3	1,031.9	9.4	0.6	14.8	24.8	550.0	142.9	1,813.2
	San Juan - Colorado Rivers	59.3	452.9	17.5	470.4	7.4	61.0	20.0	88.4	128.0	(146.0)	600.0
	TOTAL	223.7	2,247.5	37.3	2,284.8	39.7	124.4	48.7	212.8	766.6	0.0	3,487.7

Table UC-13 Comments: 1982

- ¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.
- ² Includes rural, urban, and other industrial uses.
- ³ Missing values from state of NM. These supported in technical appendix.
- ⁴ Previously published values not supported in technical appendix.
- ⁵ HUC-county (14040106-Moffat) was missing from published values.
- ⁶ These vary because technical appendix values for NM do not match published values.
- ⁷ AZ reports do not support 400AF.
- ⁸ Craig and Hayden monthly values did not add to published annual values.
- ⁹ Problems with nucla data. Appears it was estimated by the state of Colorado.
- ¹⁰ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.
- ¹¹ Jim Bridger or Naughton monthly values did not add to published annual.
- ¹² Monthly export and import data was collected for each individual export.
Values in blue were rounded in previous reports to achieve correct totals

Table UC-14
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1983

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Other ²	Subtotal	Outside System	Within System	
			Irrigation	Livestock		Subtotal	Electric Power					
Arizona	San Juan - Colorado Rivers	4.0	6.5	3.5	10.0	0.0 ⁷	20.2	7.0	27.2	0.0	0.0	41.2
Colorado	Green River	6.5	139.7 ⁵	3.6	143.3	2.2	8.1 ⁸	1.9	12.2	0.0	3.3 ¹²	165.3
	Upper Main Stem	67.2	1,009.5	7.2	1,016.7	5.2	0.5 ⁹	14.6	20.3	422.4 ¹²	125.0 ¹²	1,651.6
	San Juan - Colorado Rivers	8.6	209.3	5.9	215.2	1.1	0.0	3.2	4.3	3.4	(128.3) ¹²	103.1
	TOTAL	82.3	1,358.5	16.7	1,375.2	8.5	8.6	19.7	36.8	425.8	0.0	1,920.1
New Mexico	San Juan - Colorado Rivers	41.1 ³	201.0 ⁶	4.0	205.0	5.4	40.5 ¹⁰	8.5	54.4	130.2	0.0	430.7
Utah	Green River	49.2	407.3	4.5	411.8	5.2	21.4	6.6	33.2	20.5 ¹²	0.0	514.7
	Upper Main Stem	0.4	9.1	0.1	9.2	1.8	0.0	1.1	2.9	0.0	0.0	12.5
	San Juan - Colorado Rivers	8.3	58.8	4.2	63.0	2.4	0.0	1.2	3.6	(5.1)	0.0	69.8
	TOTAL	57.9	475.2	8.8	484.0	9.4	21.4	8.9	39.7	15.4	0.0	596.9
Wyoming	Green River	45.1 ⁴	253.2	4.4	257.6	11.3	26.9 ¹¹	6.2	44.4	6.6	0.0	353.6
Upper Basin	Green River	100.8	800.2	12.5	812.7	18.7	56.4	14.7	89.8	27.1	3.3	1,033.7
	Upper Main Stem	67.6	1,018.6	7.3	1,025.9	7.0	0.5	15.7	23.2	422.4	125.0	1,664.1
	San Juan - Colorado Rivers	62.0	475.6	17.6	493.2	8.9	60.7	19.9	89.5	128.5	(128.3)	644.9
	TOTAL	230.5	2,294.3	37.3	2,331.6	34.5	117.6	50.3	202.4	578.0	0.0	3,342.5

Table UC-14 Comments: 1983

- ¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.
- ² Includes rural, urban, and other industrial uses.
- ³ Missing values from state of NM. These supported in technical appendix.
- ⁴ Previously published values not supported in technical appendix.
- ⁵ HUC-county (14040106-Moffat) was missing from published values.
- ⁶ These vary because technical appendix values for NM do not match published values.
- ⁷ AZ reports do not support 400AF.
- ⁸ Craig and Hayden monthly values did not add to published annual values.
- ⁹ Problems with nucla data. Appears it was estimated by the state of Colorado.
- ¹⁰ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.
- ¹¹ Jim Bridger or Naughton monthly values did not add to published annual.
- ¹² Monthly export and import data was collected for each individual export.
Values in blue were rounded in previous reports to achieve correct totals

Table UC-15
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1984

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Other ²	Subtotal	Outside System	Within System	
			Irrigation	Livestock		Subtotal	Electric Power					
Arizona	San Juan - Colorado Rivers	4.9	5.8	3.3	9.1	0.0 ⁷	22.1	7.5	29.6	0.0	0.0	43.6
Colorado	Green River	6.5	136.2 ⁵	3.6	139.8	1.3	11.2 ⁸	1.9	14.4	0.0	2.3 ¹¹	163.0
	Upper Main Stem	69.1	922.5	7.2	929.7	3.2	0.0	15.4	18.6	442.9 ¹¹	136.8 ¹¹	1,597.1
	San Juan - Colorado Rivers	8.7	224.1	5.9	230.0	0.6	0.0	3.3	3.9	3.7	(139.1) ¹¹	107.3
	TOTAL	84.3	1,282.8	16.7	1,299.5	5.1	11.2	20.6	36.9	446.6	0.0	1,867.4
New Mexico	San Juan - Colorado Rivers	42.7 ³	178.1 ⁶	4.0	182.1	4.2	44.1 ⁹	8.2	56.5	113.6	0.0	394.8
Utah	Green River	50.3	438.7	4.4	443.1	4.4	21.9	7.0	33.3	26.2 ¹¹	0.0	553.0
	Upper Main Stem	0.4	10.1	0.1	10.2	1.8	0.0	1.2	3.0	0.0	0.0	13.7
	San Juan - Colorado Rivers	8.4	60.3	4.3	64.6	2.9	0.0	1.3	4.2	(6.1)	0.0	71.1
	TOTAL	59.1	509.1	8.8	517.9	9.1	21.9	9.5	40.5	20.1	0.0	637.8
Wyoming	Green River	42.9 ⁴	225.2	4.2	229.4	8.7	27.8 ¹⁰	6.4	42.9	4.0	0.0	319.2
Upper Basin	Green River	99.7	800.1	12.2	812.3	14.4	60.9	15.3	90.6	30.2	2.3	1,035.2
	Upper Main Stem	69.5	932.6	7.3	939.9	5.0	0.0	16.6	21.6	442.9	136.8	1,610.8
	San Juan - Colorado Rivers	64.7	468.3	17.5	485.8	7.7	66.2	20.3	94.2	111.2	(139.1)	616.8
	TOTAL	233.9	2,201.0	37.1	2,238.1	27.0	127.1	52.3	206.4	584.4	0.0	3,262.8

Table UC-15 Comments: 1984

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Missing values from state of NM. These supported in technical appendix.

⁴ Previously published values not supported in technical appendix.

⁵ HUC-county (14040106-Moffat) was missing from published values.

⁶ These vary because technical appendix values for NM do not match published values.

⁷ AZ reports do not support 400AF.

⁸ Craig and Hayden monthly values did not add to published annual values.

⁹ New Mexico Interstate Stream Commission recomputed historic depletion resulting from power generation.

¹⁰ Jim Bridger or Naughton monthly values did not add to published annual.

¹¹ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-16
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1985

(1,000 acre-feet)

State	Tributary	Agriculture			Municipal and Industrial				Export		TOTAL	
		Reservoir Evaporation ¹	Stockpond Evaporation & Livestock		Mineral Resources	Thermal		Other ²	Subtotal	Outside System		Within System
			Irrigation	Subtotal		Electric Power	Subtotal					
Arizona	San Juan - Colorado Rivers	4.9	5.8	2.5	8.3	0.0 ⁷	25.3 ⁸	7.2	32.5	0.0	0.0	45.6
Colorado	Green River	6.5	131.4 ⁵	3.5	134.9	0.3	15.6	1.9	17.8	0.0	3.0 ¹²	162.3
	Upper Main Stem	71.2	1,011.3	7.0	1,018.3	0.9	0.0	16.2	17.1	502.3 ¹²	129.4 ¹²	1,738.2
	San Juan - Colorado Rivers	8.7	202.0	5.8	207.8	0.2	0.0	3.4	3.6	4.3	(132.4) ¹²	91.9
	TOTAL	86.4	1,344.7	16.3	1,361.0	1.4	15.6	21.5	38.5	506.6	0.0	1,992.5
New Mexico	San Juan - Colorado Rivers	34.3 ³	206.3 ⁶	4.0	210.3	5.6	43.2 ⁹	7.9	56.7	91.8	0.0	393.0
Utah	Green River	55.3	510.7	4.4	515.1	3.6	26.7 ¹⁰	7.5	37.8	63.2 ¹²	0.0	671.4
	Upper Main Stem	0.4	9.6	0.1	9.7	1.9	0.0	1.3	3.2	0.0	0.0	13.4
	San Juan - Colorado Rivers	8.1	63.5	4.1	67.6	3.3	0.0	1.3	4.6	(6.1)	0.0	74.1
	TOTAL	63.8	583.8	8.6	592.4	8.8	26.7	10.1	45.6	57.1	0.0	758.9
Wyoming	Green River	40.9 ⁴	245.9	4.5	250.4	6.2	35.1 ¹¹	6.7	48.0	11.3	0.0	350.6
Upper Basin	Green River	102.7	888.0	12.4	900.4	10.1	77.4	16.1	103.6	74.5	3.0	1,184.3
	Upper Main Stem	71.6	1,020.9	7.1	1,028.0	2.8	0.0	17.5	20.3	502.3	129.4	1,751.6
	San Juan - Colorado Rivers	56.0	477.6	16.4	494.0	9.1	68.5	19.8	97.4	90.0	(132.4)	604.6
	TOTAL	230.3	2,386.5	35.9	2,422.4	21.9	145.9	53.5	221.3	666.7	0.0	3,540.6

Table UC-16 Comments: 1985

- ¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.
- ² Includes rural, urban, and other industrial uses.
- ³ We do not have supporting data for published numbers from the state of New Mexico. Values shown in 'summary' are supported in the technical appendix.
- ⁴ Previously published values not supported in technical appendix.
- ⁵ HUC-county (14040106-Moffat) was missing from published values.
- ⁶ Removed reservoir evaporation from Fish & Wildlife and added to reservoir regulation category.
- ⁷ AZ reports do not support 400AF.
- ⁸ Navajo monthly values do not add to annual.
- ⁹ New Mexico Interstate Stream Commission recomputed historic depletion resulting from power generation.
- ¹⁰ Hunter monthly do not add up to published annual and Bonanza starts in 1985 per PowerMonthly.xls source. Was wrong in technical appendix.
- ¹¹ Jim Bridger or Naughton monthly values did not add to published annual.
- ¹² Monthly export and import data was collected for each individual export.
Values in blue were rounded in previous reports to achieve correct totals

Table UC-17
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1986

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Subtotal	Outside System	Within System		
			Irrigation	Livestock		Electric Power	Other ²					
Arizona	San Juan - Colorado Rivers	5.3	3.8	2.5	6.3	0.0	18.7 ⁷	6.8	25.5	0.0	0.0	37.1
Colorado	Green River	7.0	120.2	3.7	123.9	3.5	14.6	2.2	20.3	0.0	2.9	154.0
	Upper Main Stem	54.7	836.1	6.7	842.8	1.2	0.0	19.5	20.7	521.6 ⁹	137.0	1,576.9
	San Juan - Colorado Rivers	7.8	196.2	3.9	200.1	0.2	0.0	4.1	4.3	4.8	(140.0)	77.1
	TOTAL	69.5	1,152.5	14.3	1,166.8	4.9	14.6	25.8	45.3	526.4		1,808.0
New Mexico	San Juan - Colorado Rivers	27.4 ³	199.1 ⁵	4.5	203.6	1.8	39.6 ⁸	8.4	49.8	89.2	0.0	370.0
Utah	Green River	62.9 ⁴	473.1	4.2	477.3	3.6	24.6	12.9	41.1	71.0 ⁹	0.0	652.2
	Upper Main Stem	1.3	9.6	0.2	9.8	1.6	0.0	2.1	3.7	0.0	0.0	15.0
	San Juan - Colorado Rivers	6.7	60.3	3.7	64.0	1.2	0.0	3.1	4.3	(5.7)	0.0	69.3
	TOTAL	70.9	543.0	8.1	551.1	6.4	24.6	18.1	49.1	65.3	0.0	736.4
Wyoming	Green River	31.2	380.7	5.0	385.7	7.1 ⁶	29.3	5.8	42.2	13.8	0.0	472.9
Upper Basin	Green River	101.1	974.0	12.9	986.9	14.2	68.5	20.9	103.6	84.8	2.9	1,279.1
	Upper Main Stem	56.0	845.7	6.9	852.6	2.8	0.0	21.6	24.4	521.6	137.0	1,591.9
	San Juan - Colorado Rivers	47.2	459.4	14.6	474.0	3.2	58.3	22.4	83.9	88.3	(140.0)	553.5
	TOTAL	204.4	2,279.1	34.4	2,313.5	20.2	126.8	64.8	211.8	694.7	(0.1)	3,424.4

Table UC-17 Comments: 1986

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Did not include Fish & Wildlife reservoirs.

⁴ Published values missing Moon Lake.

⁵ Removed reservoir evaporation from Fish & Wildlife and added to reservoir regulation category.

⁶ These values have closed basin 14040200 in Wyoming removed. This was not consistent over the years.

⁷ Navajo monthly values did not add to annual.

⁸ New Mexico Interstate Stream Commission recomputed historic depletion resulting from power generation.

⁹ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-18
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1987

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Subtotal	Outside System	Within System		
			Irrigation	Livestock		Subtotal	Electric Power				Other ²	
Arizona	San Juan - Colorado Rivers	5.6	3.4	2.3	5.7	0.0	20.1	6.7	26.8	0.0	0.0	38.2
Colorado	Green River	8.2	138.0	3.8	141.8	2.9	14.8	2.1	19.8	0.0	1.7	171.5
	Upper Main Stem	60.5	964.5	7.9	972.4	1.2	0.0	19.0	20.2	367.2	142.8	1,563.1
	San Juan - Colorado Rivers	10.4	285.1	4.7	289.8	0.2	0.0	4.1	4.3	1.5	(144.5)	161.5
	TOTAL	79.1	1,387.6	16.4	1,404.0	4.3	14.8	25.2	44.3	368.7	0.0	1,896.1
New Mexico	San Juan - Colorado Rivers	31.7 ³	167.2 ⁵	4.5	171.7	1.5	43.3 ⁷	10.2	55.0	83.0	0.0	341.5
Utah	Green River	63.3 ⁴	461.3	4.1	465.4	3.6	30.7	12.4	46.7	115.6 ⁸	0.0	691.0
	Upper Main Stem	1.3	10.2	0.2	10.4	1.5	0.0	2.2	3.7	0.0	0.0	15.5
	San Juan - Colorado Rivers	6.6	54.2	3.7	57.9	0.9	0.0	3.1	4.0	(6.2)	0.0	62.3
	TOTAL	71.2	525.7	8.0	533.7	6.0	30.7	17.7	54.4	109.4	0.0	768.8
Wyoming	Green River	29.1	378.4	5.0	383.4	9.3 ⁶	39.9	5.7	54.9	9.7 ⁸	0.0	477.0
Upper Basin	Green River	100.6	977.7	12.9	990.6	15.8	85.4	20.2	121.4	125.3	1.7	1,339.6
	Upper Main Stem	61.8	974.7	8.1	982.8	2.7	0.0	21.2	23.9	367.2	142.8	1,578.5
	San Juan - Colorado Rivers	54.3	509.9	15.2	525.1	2.6	63.4	24.1	90.1	78.3	(144.5)	603.3
	TOTAL	216.7	2,462.4	36.4	2,498.5	21.1	148.8	65.4	235.4	570.8	0.0	3,521.6

Table UC-18 Comments: 1987

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Did not include Fish & Wildlife reservoirs.

⁴ Published values missing Moon Lake.

⁵ Removed reservoir evaporation from Fish & Wildlife and added to reservoir regulation category.

⁶ These values have closed basin 14040200 in Wyoming removed. This was not consistent over the years.

⁷ New Mexico Interstate Stream Commission recomputed historic depletion resulting from power generation.

⁸ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-19
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1988

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Other ²	Subtotal	Outside System	Within System	
			Irrigation	Livestock		Subtotal	Electric Power					
Arizona	San Juan - Colorado Rivers	5.1	3.3	2.3	5.6	0.0	23.1	7.0	30.1	0.0	0.0	40.7
Colorado	Green River	8.1	185.9	3.7	189.6	2.2	17.4	2.0	21.6	0.0	3.8	223.1
	Upper Main Stem	60.7	1,089.7	7.7	1,097.4	1.2	1.0	18.5	20.7	541.2	144.9	1,864.9
	San Juan - Colorado Rivers	10.5	318.0	5.0	323.0	0.2	0.0	4.0	4.2	2.7	(148.7)	191.6
	TOTAL	79.3	1,593.6	16.4	1,610.0	3.6	18.4	24.5	46.5	543.9	0.0	2,279.6
New Mexico	San Juan - Colorado Rivers	34.0	161.6	4.5	166.1	1.5	42.4	9.2	53.1	63.6	0.0	316.8
Utah	Green River	63.6	440.4	4.2	444.6	3.6	33.8	11.9	49.3	123.3	0.0	680.8
	Upper Main Stem	1.4	9.7	0.2	9.9	1.4	0.0	2.1	3.5	0.0	0.0	14.9
	San Juan - Colorado Rivers	6.7	53.5	3.7	57.2	0.7	0.0	3.1	3.8	(6.1)	0.0	61.5
	TOTAL	71.7	503.6	8.1	511.7	5.7	33.8	17.1	56.6	117.2	0.0	757.2
Wyoming	Green River	26.5	463.7	5.2	468.9	11.5	39.7	5.7	56.9	7.2	0.0	559.4
Upper Basin	Green River	98.2	1,090.0	13.1	1,103.1	17.3	90.9	19.6	127.8	130.5	3.8	1,463.3
	Upper Main Stem	62.1	1,099.4	7.9	1,107.3	2.6	1.0	20.6	24.2	541.2	144.9	1,879.8
	San Juan - Colorado Rivers	56.3	536.4	15.5	551.9	2.4	65.5	23.3	91.2	60.2	(148.7)	610.6
	TOTAL	216.6	2,725.8	36.5	2,762.3	22.3	157.4	63.4	243.2	731.9	0.0	3,953.7

Table UC-19 Comments: 1988

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Did not include Fish & Wildlife reservoirs.

⁴ Published values missing Moon Lake.

⁵ Removed reservoir evaporation from Fish & Wildlife and added to reservoir regulation category.

⁶ These values have closed basin 14040200 in Wyoming removed. This was not consistent over the years.

⁷ Craig and Hayden monthly values did not add to published annual values.

⁸ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁹ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

¹⁰ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-20
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1989

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Subtotal	Outside System	Within System		
			Irrigation	Livestock		Subtotal	Electric Power				Other ²	
Arizona	San Juan - Colorado Rivers	2.8	3.4	2.0	5.4	0.0	23.9	8.1	32.0	0.0	0.0	40.2
Colorado	Green River	8.3	167.1	3.7	170.8	1.5	17.5 ⁷	1.9	20.9	0.0	3.1	203.2
	Upper Main Stem	62.9	1,125.8	7.9	1,133.7	1.2	0.7 ⁸	18.0	19.9	572.4 ¹⁰	157.0	1,945.9
	San Juan - Colorado Rivers	10.9	393.3	6.1	399.4	0.2	0.0	3.9	4.1	1.9	(160.1)	256.1
	TOTAL	82.1	1,686.2	17.7	1,703.9	2.9	18.2	23.8	44.9	574.3	0.0	2,405.2
New Mexico	San Juan - Colorado Rivers	51.8 ³	213.7 ⁵	4.5	218.2	1.4	46.4 ⁹	11.2	59.0	50.1	0.0	379.0
Utah	Green River	41.9 ⁴	421.8	4.3	426.1	3.6	32.2	11.5	47.3	149.0	0.0	664.3
	Upper Main Stem	1.4	9.1	0.2	9.3	1.3	0.0	2.1	3.4	0.0	0.0	14.1
	San Juan - Colorado Rivers	6.7	53.8	3.7	57.5	0.4	0.0	3.1	3.5	(3.7)	0.0	64.0
	TOTAL	50.0	484.7	8.2	492.9	5.3	32.2	16.7	54.2	145.3	0.0	742.4
Wyoming	Green River	33.7	369.1	5.2	374.3	13.8 ⁶	36.0	5.6	55.4	14.1 ¹⁰	0.0	477.5
Upper Basin	Green River	83.9	958.0	13.2	971.2	18.9	85.7	19.0	123.6	163.1	3.1	1,345.0
	Upper Main Stem	64.3	1,134.9	8.1	1,143.0	2.5	0.7	20.1	23.3	572.4	157.0	1,960.0
	San Juan - Colorado Rivers	72.2	664.2	16.3	680.5	2.0	70.3	26.3	98.6	48.3	(160.1)	739.3
	TOTAL	220.2	2,757.0	37.8	2,794.7	23.4	156.7	65.3	245.5	783.9	0.0	4,044.2

Table UC-20 Comments: 1989

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Did not include Fish & Wildlife reservoirs.

⁴ Published values missing Moon Lake.

⁵ Removed reservoir evaporation from Fish & Wildlife and added to reservoir regulation category.

⁶ These values have closed basin 14040200 in Wyoming removed. This was not consistent over the years.

⁷ Craig and Hayden monthly values did not add to published annual values.

⁸ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁹ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

¹⁰ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-21
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1990

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation & Livestock		Mineral Resources	Thermal		Other ²	Subtotal	Outside System	Within System	
			Irrigation	Subtotal		Electric Power	Subtotal					
Arizona	San Juan - Colorado Rivers	2.4	3.6	2.0	5.6	0.0	20.7	7.1	27.8	0.0	0.0	35.8
Colorado	Green River	8.1	169.9	3.7	173.6	0.9	17.9	1.9	20.7	0.0	2.8	205.0
	Upper Main Stem	56.9	1,033.2	7.5	1,040.7	1.2	1.3 ⁷	17.5	20.0	453.0 ⁹	136.7	1,707.3
	San Juan - Colorado Rivers	8.7	309.9	4.4	314.3	0.2	0.0	3.8	4.0	1.8	(139.5)	189.3
	TOTAL	73.7	1,513.0	15.6	1,528.6	2.3	19.2	23.2	44.7	454.8	0.0	2,101.6
New Mexico	San Juan - Colorado Rivers	33.9 ³	194.5 ⁵	4.5	199.0	1.0	41.8 ⁸	10.1	52.9	76.2	0.0	362.1
Utah	Green River	40.1 ⁴	463.4	4.3	467.7	3.6	30.6	11.0	45.2	156.4 ⁹	0.0	709.3
	Upper Main Stem	1.4	10.6	0.2	10.8	1.2	0.0	2.1	3.3	0.0	0.0	15.5
	San Juan - Colorado Rivers	6.7	48.9	3.7	52.6	0.2	0.0	3.0	3.2	(3.3)	0.0	59.2
	TOTAL	48.2	522.9	8.2	531.1	5.0	30.6	16.1	51.7	153.1	0.0	784.0
Wyoming	Green River	37.5	401.1	5.0	406.1	16.0 ⁶	38.6	5.6	60.2	15.7 ⁹	0.0	519.5
Upper Basin	Green River	85.7	1,034.4	13.0	1,047.4	20.5	87.1	18.5	126.1	172.1	2.8	1,433.8
	Upper Main Stem	58.3	1,043.8	7.7	1,051.5	2.4	1.3	19.6	23.3	453.0	136.7	1,722.8
	San Juan - Colorado Rivers	51.7	556.9	14.6	571.5	1.4	62.5	24.0	87.9	74.7	(139.5)	646.4
	TOTAL	195.7	2,635.1	35.3	2,670.4	24.2	150.9	62.1	237.3	699.8	0.0	3,803.0

Table UC-21 Comments: 1990

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Did not include Fish & Wildlife reservoirs.

⁴ Published values missing Moon Lake.

⁵ Removed reservoir evaporation from Fish & Wildlife and added to reservoir regulation category.

⁶ These values have closed basin 14040200 in Wyoming removed. This was not consistent over the years.

⁷ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁸ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁹ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-22
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1991

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Other ²	Subtotal	Outside System	Within System	
			Irrigation	Livestock		Subtotal	Electric Power					
Arizona	San Juan - Colorado Rivers	2.6	4.5	2.0	6.5	0.0	23.9	6.0	29.9	0.0	0.0	39.0
Colorado	Green River	7.5	168.1	3.6	171.7	0.8	16.7 ⁵	2.1	19.6	0.0	3.3	202.1
	Upper Main Stem	63.2	1,079.5	7.6	1,087.1	1.6	1.6 ⁶	18.6	21.8	506.5 ⁸	142.7 ⁸	1,821.2
	San Juan - Colorado Rivers	10.2	269.6	5.0	274.6	0.2	0.0	4.0	4.2	1.7	(146.0) ⁸	144.6
	TOTAL	80.9	1,517.2	16.2	1,533.4	2.6	18.3	24.7	45.6	508.2	0.0	2,176.9
New Mexico	San Juan - Colorado Rivers	44.1	192.8	4.5	197.3	1.1	39.8 ⁷	10.9	51.8	113.4	0.0	406.6
Utah	Green River	39.7 ³	509.2	4.3	513.5	3.4	33.1	11.0	47.5	123.3	0.0	724.0
	Upper Main Stem	1.4	13.8	0.2	14.0	1.2	0.0	2.0	3.2	0.0	0.0	18.5
	San Juan - Colorado Rivers	6.7	68.9	3.7	72.6	0.5	0.0	3.1	3.6	(3.6)	0.0	79.3
	TOTAL	47.8	591.9	8.2	600.1	5.1	33.1	16.1	54.3	119.7	0.0	821.8
Wyoming	Green River	34.9	325.4	4.8	330.2	13.5 ⁴	39.1	5.6	58.2	18.3	0.0	441.4
Upper Basin	Green River	82.1	1,002.7	12.7	1,015.4	17.7	88.9	18.7	125.3	141.6	3.3	1,367.5
	Upper Main Stem	64.6	1,093.3	7.8	1,101.1	2.8	1.6	20.6	25.0	506.5	142.7	1,839.7
	San Juan - Colorado Rivers	63.6	535.8	15.2	551.0	1.8	63.7	24.0	89.5	111.5	(146.0)	669.5
	TOTAL	210.2	2,631.8	35.7	2,667.5	22.2	154.2	63.3	239.8	759.5	0.0	3,876.7

Table UC-22 Comments: 1991

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Published values missing Moon Lake.

⁴ These values have closed basin 14040200 in Wyoming removed. This was not consistent over the years.

⁵ Craig and Hayden monthly values did not add to previously published annual.

⁶ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁷ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁸ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-23
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1992

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Subtotal	Outside System	Within System		
			Irrigation	Livestock		Subtotal	Electric Power				Other ²	
Arizona	San Juan - Colorado Rivers	4.7	3.8	2.2	6.0	0.0	23.6	5.7	29.3	0.0	0.0	39.9
Colorado	Green River	7.9	190.9	3.6	194.5	0.8	16.7 ⁵	2.3	19.8	0.0	2.6	224.8
	Upper Main Stem	63.5	1,104.0	7.1	1,111.1	2.0	1.0 ⁶	19.8	22.8	491.1 ⁸	136.4 ⁸	1,824.8
	San Juan - Colorado Rivers	10.1	273.1	5.0	278.1	0.2	0.0	4.2	4.4	4.1	(139.0) ⁸	157.8
	TOTAL	81.4	1,568.0	15.7	1,583.7	3.0	17.7	26.3	47.0	495.3	0.0	2,207.4
New Mexico	San Juan - Colorado Rivers	45.3	179.3	4.5	183.8	1.6	40.2 ⁷	10.0	51.8	87.1	0.0	368.0
Utah	Green River	39.4 ³	520.4	4.3	524.7	3.2	32.8	11.0	47.0	163.0	0.0	774.0
	Upper Main Stem	1.4	13.5	0.2	13.7	1.1	0.0	1.8	2.9	0.0	0.0	18.0
	San Juan - Colorado Rivers	6.7	68.2	3.7	71.9	0.8	0.0	3.2	4.0	(5.3)	0.0	77.3
	TOTAL	47.4	602.1	8.2	610.3	5.2	32.8	16.0	53.9	157.6	0.0	869.3
Wyoming	Green River	30.6	431.6	4.8	436.4	10.9 ⁴	45.4	5.6	61.9	14.2	0.0	543.0
Upper Basin	Green River	77.9	1,142.9	12.7	1,155.6	14.9	94.9	18.9	128.7	177.2	2.6	1,541.8
	Upper Main Stem	64.9	1,117.5	7.3	1,124.8	3.1	1.0	21.6	25.7	491.1	136.4	1,842.8
	San Juan - Colorado Rivers	66.8	524.4	15.4	539.8	2.6	63.8	23.1	89.5	85.9	(139.0)	643.0
	TOTAL	209.4	2,784.8	35.4	2,820.2	20.6	159.7	63.6	243.9	754.2	0.0	4,027.6

Table UC-23 Comments: 1992

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Published values missing Moon Lake.

⁴ These values have closed basin 14040200 in Wyoming removed. This was not consistent over the years.

⁵ Craig and Hayden monthly values did not add to previously published annual.

⁶ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁷ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁸ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-24
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1993

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation & Livestock		Mineral Resources	Thermal		Other ²	Subtotal	Outside System	Within System	
			Irrigation	Subtotal		Electric Power	Subtotal					
Arizona	San Juan - Colorado Rivers	3.9 ³	4.5	2.2	6.7	0.0	23.4	5.7	29.1	0.0	0.0	39.6
Colorado	Green River	7.4	137.1	3.7	140.8	0.8	16.8 ⁶	2.5	20.1	0.0	3.4	171.6
	Upper Main Stem	59.0	912.6	6.7	919.3	2.4	1.3 ⁷	21.0	24.7	591.6 ⁹	188.8 ⁹	1,783.4
	San Juan - Colorado Rivers	9.5	273.6	5.0	278.6	0.2	0.0	4.5	4.7	0.8	(192.2) ⁹	101.4
	TOTAL	75.9	1,323.4	15.4	1,338.8	3.3	18.1	28.0	49.5	592.5	0.0	2,056.4
New Mexico	San Juan - Colorado Rivers	40.7	193.0	4.4	197.4	1.8	47.8 ⁸	11.2	60.8	98.8	0.0	397.9
Utah	Green River	40.8 ⁴	481.3	4.3	485.6	3.1	34.7	11.0	48.8	154.5	0.0	729.7
	Upper Main Stem	1.3	12.9	0.2	13.1	1.1	0.0	1.7	2.8	0.0	0.0	17.2
	San Juan - Colorado Rivers	6.7	68.6	3.7	72.3	1.1	0.0	3.3	4.4	(6.5)	0.0	76.9
	TOTAL	48.8	562.8	8.2	571.0	5.2	34.7	16.1	56.0	148.0	0.0	823.9
Wyoming	Green River	35.2	295.9	4.9	300.8	8.4 ⁵	43.9	5.5	58.3	25.3	0.0	419.1
Upper Basin	Green River	83.4	914.3	12.9	927.2	12.3	95.4	19.0	126.7	179.8	3.4	1,320.4
	Upper Main Stem	60.3	925.5	6.9	932.4	3.5	1.3	22.7	27.5	591.6	188.8	1,800.6
	San Juan - Colorado Rivers	60.8	539.7	15.3	555.0	3.1	71.2	24.7	99.0	93.1	(192.2)	615.8
	TOTAL	204.5	2,379.6	35.2	2,414.6	18.7	167.9	66.5	253.2	864.6	0.0	3,736.9

Table UC-24 Comments: 1993

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Did not match AZ report.

⁴ Published values missing Moon Lake.

⁵ These values have closed basin 14040200 in Wyoming removed. This was not consistent over the years.

⁶ Craig and Hayden monthly values did not add to previously published annual.

⁷ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁸ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁹ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-25
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1994

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &			Mineral Resources	Thermal			Outside System	Within System	
			Irrigation	Livestock	Subtotal		Electric Power	Other ²	Subtotal			
Arizona	San Juan - Colorado Rivers	3.8	4.9	2.1	7.0	0.0	24.1	5.8	29.9	0.0	0.0	40.7
Colorado	Green River	8.4	151.8	3.7	155.5	0.7	18.0 ⁵	2.7	21.4	0.0	3.2	188.5
	Upper Main Stem	68.1	1,111.3	8.2	1,119.5	2.7	1.9 ⁶	22.2	26.8	543.3 ⁸	151.3 ⁸	1,909.0
	San Juan - Colorado Rivers	10.2	288.1	5.3	293.4	0.2	0.0	4.7	4.9	0.9	(154.5) ⁸	155.0
	TOTAL	86.7	1,551.1	17.3	1,568.4	3.6	19.9	29.6	53.1	544.3	0.0	2,252.6
New Mexico	San Juan - Colorado Rivers	44.2	203.5	4.4	207.9	1.8	47.6 ⁷	11.2	60.6	82.2	0.0	394.9
Utah	Green River	40.7 ³	633.9	4.4	638.3	2.9	35.6	11.0	49.5	124.7	0.0	853.2
	Upper Main Stem	1.4	13.5	0.2	13.7	1.0	0.0	1.6	2.6	0.0	0.0	17.6
	San Juan - Colorado Rivers	6.7	76.9	3.7	80.6	1.4	0.0	3.4	4.8	(4.8)	0.0	87.3
	TOTAL	48.8	724.2	8.3	732.5	5.3	35.6	16.0	56.9	119.9	0.0	958.1
Wyoming	Green River	34.7	489.9	5.0	494.9	5.8 ⁴	46.7	5.5	58.0	16.1	0.0	603.6
Upper Basin	Green River	83.8	1,275.6	13.1	1,288.7	9.4	100.3	19.2	128.9	140.8	3.2	1,645.3
	Upper Main Stem	69.5	1,124.8	8.4	1,133.2	3.7	1.9	23.8	29.4	543.3	151.3	1,926.6
	San Juan - Colorado Rivers	64.9	573.4	15.5	588.9	3.4	71.7	25.1	100.2	78.3	(154.5)	677.9
	TOTAL	218.3	2,973.6	37.2	3,010.8	16.6	173.9	68.2	258.5	762.5	0.0	4,250.0

Table UC-25 Comments: 1994

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Published values missing Moon Lake.

⁴ These values have closed basin 14040200 in Wyoming removed. This was not consistent over the years.

⁵ Craig and Hayden monthly values did not add to previously published annual.

⁶ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁷ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁸ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals

Table UC-26
Upper Colorado River Basin
Estimated Water Use within States, by Major Tributaries and Types of Use
1995

(1,000 acre-feet)

State	Tributary	Agriculture				Municipal and Industrial				Export		TOTAL
		Reservoir Evaporation ¹	Stockpond Evaporation &		Mineral Resources	Thermal		Subtotal	Outside System	Within System		
			Irrigation	Livestock		Electric Power	Other ²					
Arizona	San Juan - Colorado Rivers	3.8	4.3	3.2	7.5	0.0	22.2	6.4	28.6	0.0	0.0	39.8
Colorado	Green River	6.8	107.4	3.6	111.0	0.7	16.7	2.9	20.3	0.0	3.3 ⁷	141.3
	Upper Main Stem	52.5	762.8	6.9	769.7	3.1	1.8 ⁵	23.4	28.3	454.9 ⁷	143.5 ⁷	1,449.0
	San Juan - Colorado Rivers	10.6	244.8	5.5	250.3	0.2	0.0	4.9	5.1	1.0	(146.8) ⁷	120.3
	TOTAL	69.9	1,115.1	15.9	1,131.0	4.0	18.5	31.2	53.7	456.0	0.0	1,710.5
New Mexico	San Juan - Colorado Rivers	39.8	197.8	4.5	202.3	2.2	45.8 ⁶	11.2	59.2	86.2	0.0	387.4
Utah	Green River	42.2 ³	487.5	4.5	492.0	2.7	35.8	11.0	49.5	101.1	0.0	684.8
	Upper Main Stem	1.3	9.6	0.2	9.8	1.0	0.0	1.5	2.5	0.0	0.0	13.5
	San Juan - Colorado Rivers	6.7	85.4	3.7	89.1	1.8	0.0	3.5	5.3	(7.0)	0.0	94.1
	TOTAL	50.2	582.5	8.4	590.9	5.4	35.8	15.9	57.3	94.1	0.0	792.4
Wyoming	Green River	33.2	342.9	4.9	347.8	3.3 ⁴	32.4	5.4	41.1	13.8	0.0	436.1
Upper Basin	Green River	82.2	937.8	13.0	950.8	6.7	84.9	19.3	110.9	114.9	3.3	1,262.2
	Upper Main Stem	53.8	772.4	7.1	779.5	4.1	1.8	24.9	30.8	454.9	143.5	1,462.5
	San Juan - Colorado Rivers	60.9	532.3	16.9	549.2	4.2	68.0	26.0	98.2	80.2	(146.8)	641.6
	TOTAL	196.9	2,242.6	36.9	2,279.5	14.9	154.7	70.1	239.9	650.2	0.0	3,366.3

Table UC-26 Comments: 1995

¹ Excludes reservoir evaporation from Colorado River main stem reservoirs listed in Table UC-1.

² Includes rural, urban, and other industrial uses.

³ Published values missing Moon Lake.

⁴ These values have closed basin 14040200 in Wyoming removed. This was not consistent over the years.

⁵ Problems with nucla data. Appears it was estimated by the state of Colorado.

⁶ New Mexico Interstate Stream Commision recomputed historic depletion resulting from power generation.

⁷ Monthly export and import data was collected for each individual export.

Values in blue were rounded in previous reports to achieve correct totals