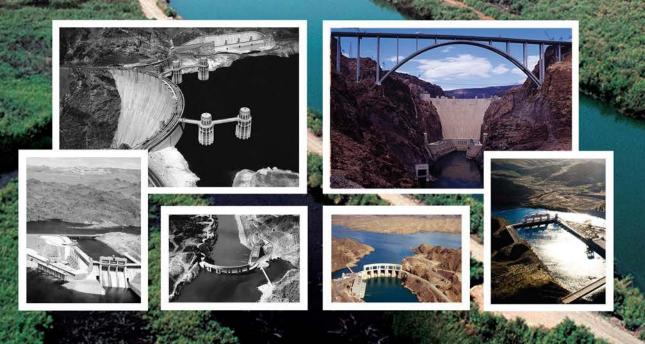
RECLAMATION

Managing Water in the West

Calendar Year 2017

Colorado River Accounting and Water Use Report: Arizona, California, and Nevada



U.S. Department of the Interior Bureau of Reclamation Lower Colorado Region Boulder Canyon Operations Office

Colorado River Accounting and Water Use Report: Arizona, California, and Nevada

Calendar Year 2017



U.S. Department of the Interior Bureau of Reclamation Lower Colorado Region Boulder Canyon Operations Office

Mission Statements

Department of the Interior

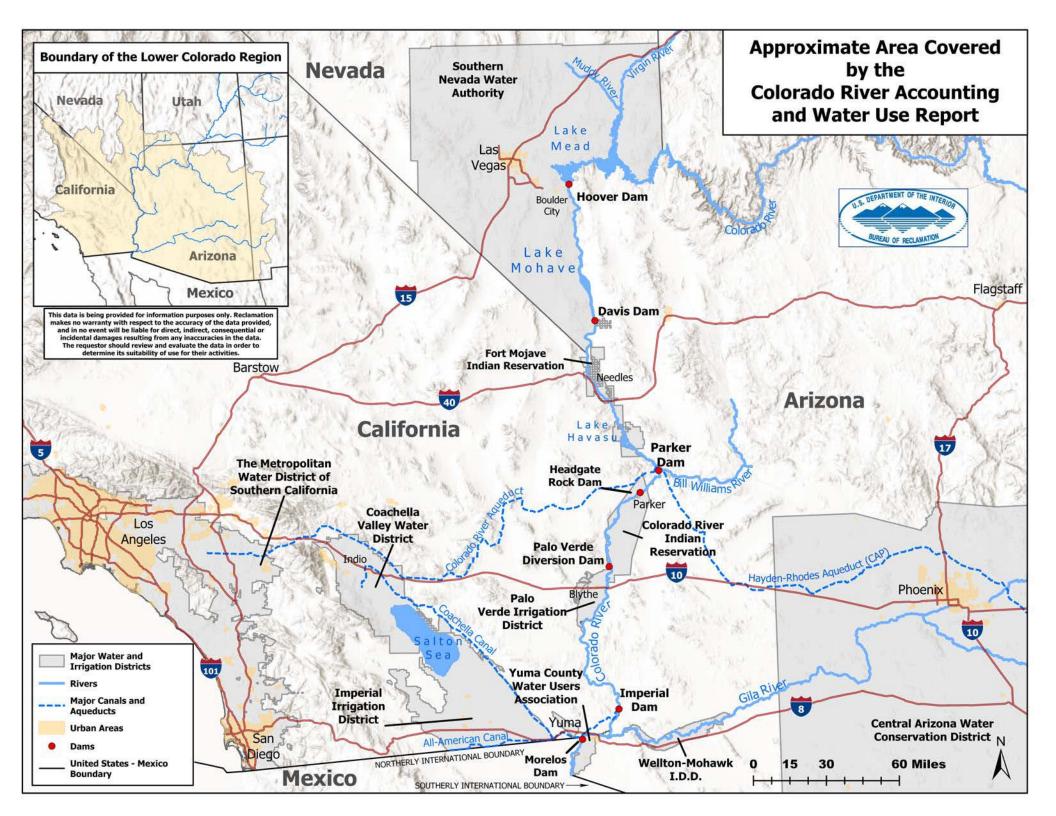
The Department of the Interior protects and manages the Nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated island communities.

Bureau of Reclamation

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.

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Acronyms and Abbreviated Terms

These acronyms and abbreviations are found in the text, footnotes, and headings within this document.

| AAC | All-American Canal | ICUA | Intentionally Created Unused Apportionment |
|-------|--|-------------|--|
| AACLP | All-American Canal Lining Project | I.D.D. | Irrigation and Drainage District |
| ADP | Arizona diesel pump | IBWC | International Boundary and Water Commission |
| ADW | Arizona diesel well | ICS | Intentionally Created Surplus |
| AEP | Arizona electric pump | IID | Imperial Irrigation District |
| AEW | Arizona electric well | IOPP | Inadvertent Overrun and Payback Policy |
| AF | acre-feet | ISG | Colorado River Interim Surplus Guidelines |
| AFY | acre-feet per year | IUS | Interstate Underground Storage credits |
| ALTSC | Accumulated Long Term Storage Credit | KAF | Thousand acre-feet |
| AOP | Annual Operating Plan | LCR | Lower Colorado River |
| ASLD | Arizona State Land Department | | CP Lower Colorado River Multi-Species |
| Assn. | Association | | Conservation Program |
| AWBA | Arizona Water Banking Authority | LCWSP | Lower Colorado Water Supply Project |
| BLM | Bureau of Land Management | LHFO | Lake Havasu Field Office (BLM) |
| BOY | beginning-of-year | LTSC | Long Term Storage Credit |
| CAP | Central Arizona Project | MAF | Million acre-feet |
| CAWCD | Central Arizona Water Conservation District | MSCP | Multi-Species Conservation Program |
| CCLP | Coachella Canal Lining Project | MWD | The Metropolitan Water District of Southern |
| CDP | California diesel pump | | California |
| CDW | California diesel well | MOD | Main Outlet Drain |
| CDEW | California diesel electric well | MODE | Main Outlet Drain Extension |
| CEP | California electric pump | M&I | Municipal and Industrial |
| CEW | California electric well | NWR | National Wildlife Refuge |
| CFR | Code of Federal Regulations | NIB | Northerly International Boundary |
| CFS | Cubic Feet per Second | PSCP | Pilot System Conservation Program |
| CRBC | Colorado River Board of California | PPR | Present Perfected Right |
| CRCN | Colorado River Commission of Nevada | PVER | Palo Verde Ecological Reserve |
| CRIT | Colorado River Indian Tribes | PVID | Palo Verde Irrigation District |
| CRWDA | Colorado River Water Delivery Agreement | QSA | Quantification Settlement Agreement |
| CU | consumptive use | SIB | Southerly International Boundary |
| CVWD | Coachella Valley Water District | SIRA | Storage and Interstate Release Agreement |
| CY | calendar year | SDCWA | San Diego County Water Authority |
| Diff. | difference | SLRSP | San Luis Rey Settlement Parties |
| Dist. | district | SNWA | Southern Nevada Water Authority |
| DPOC | Drainage Pump Outlet Channel | SCIA | System Conservation Implementation Agreement |
| DRA | Drought Response Agreement | TCM | Thousand Cubic Meters |
| ECICS | Extraordinary Conservation Intentionally Created | USGS | United States Geological Survey |
| | Surplus | YAO | Yuma Area Office (Reclamation) |
| ET | evapotranspiration | YDP | Yuma Desalting Plant |
| EOY | end-of-year | YFO | Yuma Field Office (BLM) |
| FEIS | Final Environmental Impact Statement | YID | Yuma Irrigation District |
| FYIR | Fort Yuma Indian Reservation | YMIDD | Yuma Mesa Irrigation and Drainage District |
| GGMC | Gila Gravity Main Canal | YPRD | Yuma Project Reservation Division |

Glossary

Accumulated Long Term Storage Credits (ALTSC): The cumulative amount of Long Term Storage Credits in a storing entity's long-term storage account.

Bypass Drain: The 53-mile-long, concrete-lined drain, which extends from the end of the Main Outlet Drain Extension near Morelos Dam to the Ciénega de Santa Clara (Ciénega) in Mexico. The Bypass Drain, constructed to assist the United States in meeting its obligations under Minute No. 242 of the International Boundary and Water Commission, conveys pumped drainage from the Wellton-Mohawk Irrigation and Drainage District and the Yuma area to the Ciénega.

Colorado River Aquifer: The aquifer underlying the Colorado River mainstream consisting of permeable, partly saturated sediments and sedimentary rocks that are hydraulically connected to the Colorado River so that water can move between the Colorado River and the aquifer in response to withdrawal of water from the aquifer or differences in water-level elevations between the Colorado River and the aquifer.

Colorado River Basin: All of the drainage area of the Colorado River System and all other territory within the United States of America to which the waters of the Colorado River System shall be beneficially applied.

Colorado River System: That portion of the Colorado River and its tributaries within the United States.

Colorado River water: Water in or withdrawn from the mainstream.

Consuming State: The Lower Division State in which Intentionally Created Unused Apportionment will be used.

Consumptive use: Diversions from the mainstream of the Colorado River less such Return Flow thereto as is available for consumptive use in the United States or in satisfaction of the Mexican Treaty Obligation. Consumptive use from the mainstream within a Lower Division state includes water drawn from the mainstream by underground pumping.

Consolidated Decree: The Consolidated Decree of the Supreme Court of the United States in *Arizona* v. *California et al.* 547 U.S. 150 (2006), or as it may be further modified.

Domestic Use: The use of water for household, stock, municipal, mining, milling, industrial, and other like purposes, but excluding the use of water for the generation of electric power.

Drainage Pump Outlet Channel (DPOC): The DPOC drainage system consists of 24 wells which provide groundwater drainage for the agricultural lands of the South Gila Valley. When this drainage water is returned to the Colorado River by DPOC Nos. 1, 2, 3, and 4, it is part of the water delivered to Mexico above Morelos Dam in accordance with the 1944 Mexican Water Treaty.

Drought Response Program Actions: The Bureau of Reclamation's Drought Response Program supports a proactive approach to drought. It provides assistance to water users for drought contingency planning, including consideration of climate change information and to take actions that will build long-term resiliency to drought.

Entitlement: An authorization to beneficially use Colorado River water pursuant to: (1) a right decreed by the Supreme Court, (2) a water delivery contract with the United States through the Secretary of the Interior, or (3) a Secretarial Reservation.

Intentionally Created Unused Apportionment (ICUA): Unused apportionment developed consistent with the laws of the Storing State which exists solely as a result of, and would not exist except for, implementing a Storage and Interstate Release Agreement.

Inadvertent Overrun: Colorado River water diverted, pumped or received by an entitlement holder within the Lower Division States that is in excess of the water user's entitlement or approved water order for that year.

Lee Ferry: The point in the mainstream of the Colorado River one mile below the mouth of the Paria River that divides the upper and lower basins.

Live Storage: That part of the total reservoir capacity from which water can be withdrawn by gravity. This capacity is equal to the total capacity less the dead pool capacity. Dead pool is the storage volume in a reservoir that cannot be drained by gravity through a dam's outlet works, spillway, or power plant intake structures and can only be pumped out.

Lower Basin: 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 Division States: The States of Arizona, California, and Nevada.

Long Term Storage Credits (LTSC): Colorado River water that has been stored offstream pursuant to a Storage and Interstate Release Agreement and credited to a storer's long-term storage account for use in future years.

Main Outlet Drain (MOD): A channel that conveys pumped groundwater drainage from the Wellton-Mohawk Valley to the Gila River near the confluence with the Colorado River.

Main Outlet Drain Extension (MODE): A 12-mile-long channel extending from the Main Outlet Drain that conveys drainage from the Wellton-Mohawk Irrigation and Drainage District and Yuma area to points above or below Morelos Dam. Under certain conditions it includes discharge from the DPOCs and YMC.

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

Mexican Treaty Obligation: The United States obligation under the Treaty Between the United States of America and Mexico, "Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande" (1944 Mexican Water Treaty), signed February 3, 1944, including supplements to and obligations associated with Minutes of the International Boundary and Water Commission adopted pursuant to the 1944 Mexican Water Treaty.

Offstream Storage: Storage in a surface reservoir off of the mainstream or in a groundwater aquifer. Offstream storage includes indirect recharge when Colorado River water is exchanged for groundwater that otherwise would have been pumped and consumed.

Pilot System Conservation Program: A pilot program for funding the creation of Colorado River system water through voluntary water conservation and reductions in use.

Protective and Regulatory Pumping Unit – 242 Wellfield: A wellfield and delivery system located within a 5-mile-wide strip of land north of the United States/Mexico boundary in southwestern Arizona. The unit currently consists of 21 wells which intercept part of the groundwater underflow moving southward into Mexico from the Yuma Mesa in the United States. The groundwater recovered by the unit is collected in a conveyance system (the 242 Lateral) and is delivered to Mexico by the United States at the Southerly International Boundary as a portion of the Mexican Treaty Obligation.

Regulatory Structures: Hoover Dam, Davis Dam, Parker Dam, Headgate Rock Dam, Palo Verde Dam, Imperial Dam, Laguna Dam and all other dams and works on the mainstream controlled or operated by the United States regulating the flow of water in the mainstream or the diversion of water from the mainstream.

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 Mexican Treaty Obligation.

Storage and Interstate Release Agreement (SIRA): An agreement consistent with Title 43, CFR, Part 414 between the Secretary and authorized entities in two or more Lower Division States that addresses the details of: (1) Offstream storage of Colorado River water by a storing entity for future use within the Storing State; (2) Subsequent development of ICUA by the storing entity, consistent with the laws of the Storing State; (3) A request by the storing entity to the Secretary to release ICUA to the consuming entity; (4) Release of ICUA by the Secretary to the consuming entity; and (5) The inclusion of other entities that are determined by the Secretary and the storing entity and the consuming entity to be appropriate to the performance and enforcement of the agreement.

Storing State: A Lower Division State in which water is stored off the mainstream in accordance with a Storage and Interstate Release Agreement for future use in that State.

Unused Apportionment: Colorado River water within a Lower Division State's basic or surplus apportionment, or both, which is not otherwise put to beneficial consumptive use during that year within that State.

Upper Basin: Those parts of the States of Arizona, Colorado, New Mexico, Utah, and Wyoming within and from which waters naturally drain into the Colorado River System above 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 above Lee Ferry.

Yuma Mesa Conduit: A 14.6-mile long pipeline which collects water from multiple wellfields that are part of the overall groundwater recovery and river regulation program for the Yuma area. The groundwater recovered from these wellfields is collected into the conduit and discharged either to the Yuma Desalting Plant, the MODE, the Southerly International Boundary with Mexico via the Yuma Main Drain, or the Colorado River via the Yuma Mesa Conduit Outlet, a discharge point approximately 6 miles upstream of Morelos Dam.

DISCLAIMER:

Terms contained within this Glossary are defined to provide general information and are not intended to change, modify, or interpret the laws, rules, decrees, and treaties from which they are originally derived.

Table 1. Summary of Colorado River Water Accounting and Use Data, Calendar Year 2017. (All values are in acre-feet except as noted.)

| Lower Division States Consumptive Use | | | 7 | TOTAL |
|---|-------------|----------------------|--------------|-------------|
| Arizona | | | | 2,509,503 |
| California | | | | 4,026,515 |
| Nevada | | | _ | 243,425 |
| Total Lower Division States Consumptive Use | | | - | 6,779,443 |
| Mexico | | | | |
| Total Deliveries to Mexico in Satisfaction of Treaty Requirements | | | | 1,500,000 |
| Delivery of Mexico's Water Reserve | | | | 0 |
| To Mexico in Excess of Treaty Requirements | | | _ | 16,688 |
| Accountable Deliveries to Mexico | | | _ | 1,516,688 |
| Total Consumptive Use - Lower Division States and Mexico ¹ | | | | 8,296,131 |
| Water Bypassed Pursuant to IBWC Minute No. 242 | | | | 126,701 |
| Reservoir Contents - At Year's End (Thousands of Acre-Feet) | | | | |
| Live Storage in Lake Powell | | | | 14,068 |
| Live Storage in Lake Mead | | | _ | 10,221 |
| Live Storage - Lake Powell plus Lake Mead | | | _ | 24,289 |
| Percentage of Live Storage - Lake Powell | | | | 57.8% |
| Percentage of Live Storage - Lake Mead | | | | 39.1% |
| Percentage of Live Storage - Lake Powell plus Lake Mead | | | | 48.2% |
| Total System Storage ² | | | | 32,017 |
| Percentage of Total System Storage | | | | 53.7% |
| Interstate Water Banking | BOY Balance | Storage ³ | Recovered | EOY Balance |
| Water Stored in Arizona by the AWBA for the Benefit of SNWA, NV | 601,041 | 0 | 0 | 601,041 |
| Water Stored in California by the MWD for the Benefit of SNWA, NV | 330,225 | 0 | 0 | 330,225 |
| Total Water Stored for the Benefit of SNWA, NV | 931,266 | 0 | 0 | 931,266 |
| Lower Colorado Water Supply Project Use ⁴ | | Non-Federal | Federal | Total |
| | | 7,143 | 234 | 7,377 |
| Intentionally Created Surplus ⁵ | BOY Balance | Creation | Reductions | EOY Balance |
| Arizona | 103,050 | 23,750 | 0 | 126,800 |
| California | 187,057 | 385,132 | 19,811 | 552,378 |
| Nevada | 531,607 | 56,185 | 5,479 | 582,313 |
| Total - Lower Division States | 821,714 | 465,067 | 25,290 | 1,261,491 |

Footnotes: See following page.

Table 1 Footnotes:

¹ The sum of Total Lower Division States Consumptive Use and Accountable Deliveries to Mexico.

² Total EOY live system storage. This includes the Upper Basin reservoirs Powell, Navajo, Crystal, Morrow Point, Blue Mesa, Flaming Gorge, Fontenelle, and Lower Basin reservoirs Mead, Mohave, and Havasu. Based on total live system storage capacity of 59,626,000 AF.

³ The net volume of water stored by the storing entity during the reporting year and available for delivery to the storing entity in a future year.

⁴ Pumpage of Lower Colorado Water Supply Project wellfield to offset certain Colorado River water uses in California.

⁵ ICS creation amounts are provisional until verified by Reclamation. Reductions include system assessment, IOPP payback, delivery, and evaporation.

Table 2. Monthly Storage Contents of the Colorado River System Reservoirs, Calendar Year 2017. (Values in thousand acre-feet except as noted.)

| | 2016 EOY Balance | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ост | NOV | DEC | CHANGE |
|--|----------------------------------|---------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------|
| End of Month Live Storage ¹ | | | | | | | | | | | | | | |
| Lake Powell | 11,797 | 11,359 | 11,217 | 11,364 | 12,149 | 13,667 | 15,408 | 15,385 | 14,952 | 14,664 | 14,530 | 14,332 | 14,068 | 2,271 |
| Percentage of Lake Powell Live Storage ² | 48.5% | 46.7% | 46.1% | 46.7% | 50.0% | 56.2% | 63.3% | 63.3% | 61.5% | 60.3% | 59.7% | 58.9% | 57.8% | 9% |
| Lake Mead | 10,079 | 10,521 | 10,838 | 10,707 | 10,420 | 10,141 | 9,971 | 9,931 | 10,131 | 10,182 | 10,202 | 10,090 | 10,221 | 142 |
| Percentage of Lake Mead Live Storage ³ | 38.6% | 40.3% | 41.5% | 41.0% | 39.9% | 38.8% | 38.2% | 38.0% | 38.8% | 39.0% | 39.1% | 38.6% | 39.1% | 1% |
| Total Live Storage - Lake Powell and Lake Mead | 21,876 | 21,880 | 22,055 | 22,071 | 22,569 | 23,808 | 25,379 | 25,316 | 25,083 | 24,846 | 24,732 | 24,422 | 24,289 | 2,413 |
| Total Percent of Live Storage - Lake Powell and Lake Mead | 43.4% | 43.4% | 43.7% | 43.8% | 44.7% | 47.2% | 50.3% | 50.2% | 49.7% | 49.3% | 49.0% | 48.4% | 48.2% | 5% |
| | | | | | | | | | | | | | | |
| Lake Mohave | 1,653 | 1,712 | 1,690 | 1,718 | 1,684 | 1,719 | 1,699 | 1,744 | 1,689 | 1,603 | 1,512 | 1,619 | 1,636 | -17 |
| Lake Mohave Lake Havasu | 1,653 573 | 1,712 567 | 1,690 586 | 1,718 577 | 1,684 594 | 1,719 586 | 1,699 588 | 1,744 592 | 1,689 585 | 1,603 564 | 1,512 548 | 1,619 577 | 1,636 557 | -17 -16 |
| | , | , | , | , - | , | , - | , | , | , | , | , | , | , | |
| Lake Havasu | 573 | 567 | 586 | 577 | 594 | 586 | 588 | 592 | 585 | 564 | 548 | 577 | 557 | -16 |
| Reservoir Storage in the Lower Basin ⁴ Percentage of Live Storage in the Lower Basin ⁵ | 573 12,305 43.1% | 12,800 44.8% | 586 13,114 45.9% | 13,002 45.5% | 12,698 44.5% | 12,446 43.6% | 588 12,258 42.9% | 12,267 43.0% | 12,405 43.5% | 12,349 43.3% | 548 12,262 43.0% | 577 12,286 43.0% | 12,414 43.5% | -16 109 0.4% |
| Reservoir Storage in the Lower Basin ⁴ Percentage of Live Storage in the Lower Basin ⁵ Lower Basin Storage plus Lake Powell ⁶ | 573 12,305 43.1% 24,102 | 12,800 44.8% 24,159 | 586 13,114 | 577 13,002 45.5% 24,366 | 594 12,698 | 586 12,446 | 588 12,258 42.9% 27,666 | 592 12,267 43.0% 27,652 | 585 12,405 | 564 12,349 | 548 12,262 43.0% 26,792 | 577 12,286 43.0% 26,618 | 557 12,414 43.5% 26,482 | -16 109 0.4% 2,380 |
| Reservoir Storage in the Lower Basin ⁴ Percentage of Live Storage in the Lower Basin ⁵ | 573 12,305 43.1% | 12,800 44.8% | 586 13,114 45.9% 24,331 | 13,002 45.5% | 594 12,698 44.5% 24,847 | 586 12,446 43.6% 26,113 | 588 12,258 42.9% | 12,267 43.0% | 585 12,405 43.5% 27,357 | 564 12,349 43.3% 27,013 | 548 12,262 43.0% | 577 12,286 43.0% | 12,414 43.5% | -16 109 0.4% |
| Reservoir Storage in the Lower Basin ⁴ Percentage of Live Storage in the Lower Basin ⁵ Lower Basin Storage plus Lake Powell ⁶ | 573 12,305 43.1% 24,102 | 12,800 44.8% 24,159 | 586 13,114 45.9% 24,331 | 577 13,002 45.5% 24,366 | 594 12,698 44.5% 24,847 | 586 12,446 43.6% 26,113 | 588 12,258 42.9% 27,666 | 592 12,267 43.0% 27,652 | 585 12,405 43.5% 27,357 | 564 12,349 43.3% 27,013 | 548 12,262 43.0% 26,792 | 577 12,286 43.0% 26,618 | 557 12,414 43.5% 26,482 | -16 109 0.4% 2,380 |

Footnotes:

¹ Actual values may differ from the displayed values due to rounding and being displayed to the nearest thousand acre-feet.

² Percentage of total live storage capacity available in Lake Powell. Based on total live storage capacity of 24,322,000 AF.

³ Percentage of total live storage capacity available in Lake Mead. Based on total live storage capacity of 26,120,000 AF.

⁴ The sum of end-of-month storage in reservoirs Mead, Mohave, and Havasu.

⁵ The percentage of available live storage capacity held in the Lower Basin (Lakes Mead, Mohave and Havasu). Based on total live storage capacity of 28,549,000 AF.

⁶ The sum of end-of-month storage in Lake Powell (Upper Basin) and Lakes Mead, Mohave and Havasu (Lower Basin).

⁷ The percentage of available total live storage capacity held in Lake Powell (Upper Basin) and Lakes Mead, Mohave, and Havasu (Lower Basin). Based on total live storage capacity of 52,871,000 AF.

⁸ Total end-of-month system storage; includes Reclamation reservoirs in the Upper and Lower Basins of the Colorado River system.

⁹ The percentage of total end-of-month system storage. This includes the Upper Basin Lakes Powell, Navajo, Crystal, Morrow Point, Blue Mesa, Flaming Gorge, Fontenelle, and Lower Basin Lakes Mead, Mohave, and Havasu. Based on total live system storage capacity of 59,626,000 AF.

COMPILATION OF RECORDS IN ACCORDANCE WITH ARTICLE V OF THE CONSOLIDATED DECREE OF THE UNITED STATES SUPREME COURT IN ARIZONA v. CALIFORNIA, 547 U.S. 150 (2006)

In accordance with Article V of the Consolidated Decree of the United States Supreme Court in Arizona v. California, 547 U.S. 150 (2006) (Consolidated Decree):

"The United States shall prepare and maintain, or provide for the preparation and maintenance of, and shall make available, annually and at such shorter intervals as the Secretary of the Interior shall deem necessary or advisable, for inspection by interested persons at all reasonable times and at a reasonable place or places, complete, detailed and accurate records of:

- (A) Releases of water through regulatory structures controlled by the United States;
- (B) 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 Mexican Treaty obligation, and consumptive use of such water. These quantities shall be stated separately as to each diverter from the mainstream, each point of diversion, and each of the States of Arizona, California and Nevada;

- (C) Releases of mainstream water pursuant to orders therefor but not diverted by the party ordering the same, and the quantity of such water delivered to Mexico in satisfaction of the Mexican Treaty or diverted by others in satisfaction of rights decreed herein. These quantities shall be stated separately as to each diverter from the mainstream, each point of diversion, and each of the States of Arizona, California and Nevada;
- (D) Deliveries to Mexico of water in satisfaction of the obligations of Part III of the Treaty of February 3, 1944, and, separately stated, water passing to Mexico in excess of treaty requirements;
- (E) Diversions of water from the mainstream of the Gila and San Francisco Rivers and the consumptive use of such water, for the benefit of the Gila National Forest."

This Calendar Year 2017 Colorado River Accounting and Water Use Report: Arizona, California, and Nevada presents the records compiled pursuant to the Consolidated Decree for Calendar Year 2017. Copies of this and previous years' reports may be found on the Bureau of Reclamation's (Reclamation) website at: www.usbr.gov/lc/region/g4000/wtracct.html.

ARTICLE V(A): RECORDS OF RELEASES OF WATER THROUGH REGULATORY STRUCTURES CONTROLLED BY THE UNITED STATES

In accordance with Article V(A) of the Consolidated Decree, Table 3 documents records of releases of Colorado River water through Glen Canyon, Hoover, Davis, Parker, Palo Verde, Imperial and Laguna Dams. Records of releases through Glen Canyon and Hoover Dams are provided by Reclamation. Records of releases through Davis, Parker, Palo Verde, Imperial and Laguna Dams are provided by the United States Geological Survey (USGS) and are based upon measurements at or downstream of the dams.

The record of river flow through Headgate Rock Dam is computed using the record of flow at USGS gaging station 09247520

"Colorado River below Parker Dam, Arizona-California," and deducting from it the record of flow at the USGS gaging station 09428500 "Diversions for Colorado River Indian Reservation Main Canal near Parker, Arizona" measured at Headgate Rock Dam.

The record of flow through Imperial Dam is computed as the sum of releases through the Dam, plus water delivered to Mittry Lake and the Laguna Division Conservation Area. Flow through the Dam does not include diversions into the All-American Canal (AAC) and the Gila Gravity Main Canal (GGMC).

Table 3. Releases of Water Through Regulatory Structures Controlled by the United States, Calendar Year 2017. (Values are in acre-feet.)

| STRUCTURE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| Glen Canyon Dam | 880,296 | 710,688 | 722,416 | 622,545 | 652,405 | 749,032 | 850,141 | 900,116 | 663,071 | 640,161 | 630,069 | 739,549 | 8,760,489 |
| Hoover Dam | 499,756 | 487,736 | 911,223 | 960,955 | 916,507 | 864,434 | 884,957 | 683,264 | 599,545 | 596,104 | 731,345 | 594,269 | 8,730,095 |
| Davis Dam | 428,100 | 499,000 | 878,900 | 991,200 | 873,600 | 873,900 | 836,200 | 755,800 | 711,400 | 687,800 | 615,400 | 574,300 | 8,725,600 |
| Parker Dam | 259,600 | 414,900 | 700,900 | 763,100 | 671,600 | 725,600 | 687,200 | 580,300 | 477,400 | 457,300 | 344,200 | 339,100 | 6,421,200 |
| Headgate Rock Dam | 249,657 | 388,240 | 649,910 | 692,320 | 603,310 | 652,150 | 612,680 | 514,750 | 425,380 | 412,850 | 317,780 | 309,291 | 5,828,318 |
| Palo Verde Diversion Dam | 213,800 | 321,300 | 529,000 | 565,300 | 480,300 | 500,100 | 504,300 | 422,200 | 383,900 | 380,500 | 294,400 | 280,900 | 4,876,000 |
| Imperial Dam | 30,190 | 19,500 | 43,280 | 25,119 | 26,170 | 16,450 | 16,170 | 25,720 | 42,120 | 14,320 | 18,470 | 14,010 | 291,519 |
| GGMC Diversion for Mittry Lake | 544 | 557 | 639 | 713 | 680 | 688 | 797 | 687 | 660 | 714 | 603 | 606 | 7,888 |
| GGMC Diversion for Laguna Division Conservation Area | 4,919 | 4,443 | 4,919 | 4,760 | 4,451 | 4,759 | 4,917 | 4,182 | 3,775 | 4,456 | 4,753 | 4,830 | 55,164 |
| Sum of Imperial Dam, Mittry, and Laguna | 35,653 | 24,500 | 48,838 | 30,592 | 31,301 | 21,897 | 21,884 | 30,589 | 46,555 | 19,490 | 23,826 | 19,446 | 354,571 |
| Laguna Dam | 34,700 | 24,430 | 44,370 | 26,200 | 30,230 | 21,130 | 26,770 | 30,840 | 41,250 | 19,690 | 21,960 | 20,060 | 341,630 |

ARTICLE V(B): RECORDS OF DIVERSIONS, RETURN FLOWS AND CONSUMPTIVE USE

In accordance with Article V(B) of the Consolidated Decree, Tables 4 through 6 document the final records of diversions of water from the mainstream of the Colorado River, return flow to the mainstream, and the consumptive use of such water within the Lower Division States of Arizona, California, and Nevada.

The tabulations, based upon records furnished by Reclamation, the United States Geological Survey (USGS), the International Boundary and Water Commission, water users, or other agencies, document quantities of water drawn by surface diversion from the mainstream of the Colorado River, pumped directly from the mainstream, or pumped from wells in the Colorado River aquifer.

There are a number of smaller entities for which diversions are reported annually by either the USGS or by the water user. For those diversions reported by the USGS, the USGS verifies the crops being grown and uses evapotranspiration methodologies to estimate the crop consumptive use; the USGS then applies irrigation efficiency coefficients to derive the estimated diversions.

For each water user, this tabulation reports the user's total diversion, measured return flow, estimated unmeasured return flow, and consumptive use. Unmeasured returns are computed by multiplying a water user's diversion by an unmeasured return flow factor. Reclamation continues to refine estimates of unmeasured returns.

No person or entity is entitled to divert or use Colorado River water without an entitlement. An entitlement is an authorization to beneficially use Colorado River water pursuant to: (1) a right

decreed by the Supreme Court, (2) a contract with the United States through the Secretary of the Interior, or (3) a Secretarial reservation of water. The listing of a use in this report should not be interpreted as an entitlement or an indication that the use is authorized.

For those water users whose diversions are made from the Topock Marsh Inlet Canal, All-American Canal, or the Gila Gravity Main Canal, diversions include each user's proportionate share of the total canal losses, which are added to the delivery taken by each user at its turnout from the canal. The portion of the canal loss which returns to the mainstream is provided to each water user as a measured return flow credit.

For the areas downstream of the Northerly International Boundary (NIB), Reclamation does not consider pumping of wells from the flood plain or the underlying aquifer to be a diversion of Colorado River water. This position is based on the following: the groundwater can reasonably be assumed to be flowing towards Mexico and therefore, not to be flowing toward the Colorado River upstream of Mexico's point of diversion near NIB. As such, this water does not return to the River to be made available for consumptive use in the United States or in satisfaction of the Mexican Treaty Obligation. In accordance with this position, Reclamation discontinued reporting these wells beginning in 2004. If hydrologic conditions change, Reclamation will address the need to report these wells.

¹ Summary Description of Accounting for Water Use in the Yuma Area Beginning with Calendar Year 2003. Available on Reclamation's website at http://www.usbr.gov/lc/region/g4000/4200Rpts/YumaWtrAcct.pdf

Table 4. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|--|--------------------|-------|--------|-------|---------|-------|-------|-------|-------|--------|-------|-------|-------|--------|
| Marble Canyon Company | | | | | | | | | | | | | | |
| Pumped from well | Diversion | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 0 | 16 |
| · | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 6 |
| | Consumptive Use | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 10 |
| Lake Mead National Recreation Area | , | | | | | | | | | | | | | |
| National Park Service | | | | | | | | | | | | | | |
| Pumped from well at Temple Bar | Diversion | 2 | 3 | 2 | 9 | 12 | 12 | 13 | 10 | 5 | 4 | 4 | 1 | 77 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 2 | 3 | 2 | 9 | 12 | 12 | 13 | 10 | 5 | 4 | 4 | 1 | 77 |
| Lake Mead National Recreation Area | · | | | | | | | | | | | | | |
| National Park Service | | | | | | | | | | | | | | |
| Pumped from Lake Mohave - Katherine Landing | Diversion | 8 | 8 | 13 | 15 | 19 | 20 | 20 | 19 | 17 | 15 | 10 | 15 | 179 |
| Pumped from Lake Mohave - Willow Beach | Diversion | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 26 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 10 | 10 | 15 | 17 | 21 | 23 | 23 | 22 | 19 | 17 | 12 | 16 | 205 |
| McAlister Family Trust | | | | | | | | | | | | | | |
| Pumped from river and well | Diversion | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 |
| | Consumptive Use | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 7 |
| Bureau of Reclamation | | | | | | | | | | | | | | |
| Davis Dam Diversion | Diversion | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 7 | 1 | 1 | 15 |
| | Measured Returns | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 1 | 1 | 14 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Bullhead City | | | | | | | | | | | | | | |
| Pumped from wells | Diversion | 598 | 576 | 720 | 810 | 930 | 975 | 1,151 | 1,022 | 950 | 915 | 799 | 748 | 10,194 |
| Mohave County Parks, Lake Mohave diversion | Diversion | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 17 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 11 | 15 | 40 |
| | Unmeasured Returns | 198 | 190 | 238 | 268 | 308 | 322 | 380 | 338 | 314 | 303 | 264 | 247 | 3,370 |
| | Consumptive Use | 401 | 387 | 483 | 543 | 624 | 655 | 773 | 686 | 637 | 600 | 525 | 487 | 6,801 |
| Mohave Water Conservation District | B: . | 70 | | | | 0.5 | | 400 | | 400 | | | | 4 00 4 |
| Pumped from wells | Diversion | 72 | 60 | 79 | 82 | 95 | 98 | 108 | 95 | 102 | 92 | 80 | 71 | 1,034 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 24 | 20 | 26 | 27 | 31 | 33 | 36 | 31 | 34 | 30 | 26 | 23 | 341 |
| EDCOD Motor Arizona Inc | Consumptive Use | 48 | 40 | 53 | 55 | 64 | 65 | 72 | 64 | 68 | 62 | 54 | 48 | 693 |
| EPCOR Water Arizona, Inc. Pumped from wells | Diversion | 43 | 41 | 50 | 49 | 53 | 54 | 70 | 68 | 59 | 59 | 56 | 67 | 669 |
| rumped from wells | Measured Returns | 0 | 0 | 0 | 49 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 009 |
| | Unmeasured Returns | 15 | 14 | 17 | 17 | 19 | 19 | 24 | 24 | 21 | 21 | 20 | 23 | 234 |
| | Consumptive Use | 28 | 27 | 33 | 32 | 34 | 35 | 46 | 44 | 38 | 38 | 36 | 44 | 435 |
| Mohave Valley I.D.D. | Conodinparo Ooo | 20 | 21 | - 00 | 02 | 0-7 | - 00 | 70 | 77 | - 00 | - 00 | - 00 | 77 | 700 |
| Pumped from wells and Topock Marsh Inlet for agriculture use | Diversion | 684 | 903 | 2,340 | 2,791 | 2,906 | 3,235 | 3,894 | 3,557 | 2,163 | 2,716 | 1,481 | 1,023 | 27,693 |
| Pumped from wells for domestic use | Diversion | 340 | 330 | 393 | 473 | 526 | 557 | 548 | 669 | 607 | 566 | 504 | 410 | 5,923 |
| • | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 496 | 619 | 1,394 | 1,565 | 1,620 | 1,872 | 2,118 | 2,037 | 1,287 | 1,599 | 984 | 674 | 16,265 |
| | Consumptive Use | 528 | 614 | 1,339 | 1,699 | 1,812 | 1,920 | 2,324 | 2,189 | 1,483 | 1,683 | 1,001 | 759 | 17,351 |
| Fort Mojave Indian Reservation | | | | | | | · . | | | | | | | |
| Pumped from river for agriculture use | Diversion | 1,046 | 4,572 | 5,379 | 6,711 | 7,906 | 8,802 | 8,521 | 8,760 | 4,294 | 4,758 | 2,335 | 1,763 | 64,847 |
| Pumped from river and wells for domestic use | Diversion | 64 | 4,372 | 135 | 155 | 151 | 293 | 205 | 271 | 144 | 208 | 146 | 1,703 | 1,977 |
| . amps a north thoralis to to to to to to to to to | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 2,143 | 2,536 | 3,158 | 3,706 | 4,184 | 4,014 | 4,154 | 2,042 | 2,284 | | 866 | 30,739 |
| | Unmeasured Returns | 511 | / 14.3 | | | | | 41114 | | / (14/ | / /04 | 1,141 | ann | |

Table 4. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|---|--|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|------------------------|
| Golden Shores Water Conservation District | | | | | | | | | | | | | | |
| Pumped from wells | Diversion Measured Returns Unmeasured Returns Consumptive Use | 23 0 8 15 | 22 0 7 15 | 28 0 9 19 | 29 0 10 19 | 34 0 11 23 | 64 0 21 43 | 41 0 14 27 | 43 0 14 29 | 38 0 12 26 | 41 0 14 27 | 36 0 12 24 | 25 0 8 17 | 424 0 140 284 |
| Havasu National Wildlife Refuge | | | | | | | | | | | | | | |
| Firebreak Inlet Canal | Diversion | 24 | 150 | 3,065 | 5,023 | 3,318 | 3,312 | 2,984 | 1,787 | 1,316 | 1,224 | 427 | 215 | 22,845 |
| Farm Ditch | Diversion ¹ | -7 | 10 | 623 | 1,097 | 708 | 731 | 614 | 311 | 225 | 194 | 30 | 19 | 4,555 |
| Pumped from well | Diversion | 10 | 11 | 15 | 17 | 20 | 25 | 27 | 26 | 20 | 17 | 12 | 12 | 212 |
| | Measured Returns ² | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 24 | 150 | 3,259 | 5,401 | 3,560 | 3,580 | 3,190 | 1,869 | 1,374 | 1,263 | 413 | 216 | 24,299 |
| Country Bossel Water Consequentian District | Consumptive Use | 3 | 21 | 444 | 736 | 486 | 488 | 435 | 255 | 187 | 172 | 56 | 30 | 3,313 |
| Crystal Beach Water Conservation District Pumped from wells | Diversion | 7 | 7 | 8 | 9 | 10 | 11 | 11 | 11 | 10 | 10 | 9 | 8 | 111 |
| rumped nom wens | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 2 | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 40 |
| | Consumptive Use | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 71 |
| Lake Havasu City | | | | | | | | | | | | | | |
| Pumped from wells | Diversion | 734 | 706 | 895 | 942 | 1,039 | 1,170 | 1,329 | 1,251 | 1,189 | 1,158 | 1,132 | 892 | 12,437 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 279 | 268 | 340 | 358 | 395 | 445 | 505 | 475 | 452 | 440 | 430 | 339 | 4,726 |
| Avisana Otata Baulus (Mindaan Baash) | Consumptive Use | 455 | 438 | 555 | 584 | 644 | 725 | 824 | 776 | 737 | 718 | 702 | 553 | 7,711 |
| Arizona State Parks (Windsor Beach) Pumped from wells | Diversion | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 6 |
| rumped nom wells | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 4 |
| Central Arizona Project | | | | | | | | | | | | | | |
| Pumped from Lake Havasu | Diversion | 126,924 | 62,359 | 136,275 | 159,848 | 174,612 | 79,014 | 71,258 | 70,184 | 134,073 | 130,498 | 126,715 | , | 1,415,613 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns Consumptive Use | 0 126,924 | 0 62,359 | 126 275 | 150.949 | 0 174,612 | 0 79,014 | 71 259 | 70.194 | 124.072 | 120 409 | 126 715 | 0 143,853 | 0 1,415,613 |
| Hillcrest Water Company | Consumptive Ose | 120,924 | 02,339 | 130,273 | 159,040 | 174,012 | 79,014 | 11,200 | 70,104 | 134,073 | 130,496 | 120,713 | 143,003 | 1,410,013 |
| Pumped from wells | Diversion | 1 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 28 |
| · | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 |
| | Consumptive Use | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 18 |
| Springs Del Sol Domestic Water Improvement District | Diversion | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 4 |
| Pumped from wells | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| Brooke Water, LLC | | | | | | | | | | | | | | |
| Pumped from river and wells | Diversion | 33 | 33 | 41 | 38 | 43 | 44 | 51 | 49 | 50 | 44 | 41 | 39 | 506 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 11 | 11 | 13 | 13 | 14 | 14 30 | 17 | 16 | 16 | 15 | 14 27 | 13 | 167 |
| Town of Douleau | Consumptive Use | 22 | 22 | 28 | 25 | 29 | 30 | 34 | 33 | 34 | 29 | 21 | 26 | 339 |
| Town of Parker Pumped from wells | Diversion | 50 | 49 | 57 | 69 | 85 | 90 | 97 | 93 | 75 | 73 | 63 | 59 | 860 |
| i unipod nom wens | Measured Returns | 17 | 16 | 17 | 16 | 17 | 15 | 16 | 16 | 16 | 17 | 16 | 17 | 196 |
| | Unmeasured Returns | 14 | 14 | 16 | 20 | 24 | 26 | 28 | 26 | 21 | 21 | 18 | 17 | 245 |
| | Consumptive Use | 19 | 19 | 24 | 33 | 44 | 49 | 53 | 51 | 38 | 35 | 29 | 25 | 419 |

Table 4. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|---|---|---|---|--|--|--|--|--|--|--|--|---|---|--|
| Colorado River Indian Reservation | | | | | | | | | | | | | | |
| Diversion at Headgate Rock Dam Pumped from river and wells | Diversion Diversion Measured Returns Unmeasured Returns Consumptive Use | 9,943 334 15,596 565 -5,884 | 26,660 383 17,880 1,487 7,676 | 50,990 500 20,151 2,832 28,507 | 70,780 556 21,992 3,923 45,421 | 68,290 682 22,319 3,793 42,860 | 73,450 801 24,803 4,084 45,364 | 74,520 871 26,498 4,147 44,746 | 65,550 835 24,969 3,651 37,765 | 52,020 663 25,853 2,898 23,932 | 44,450 579 22,693 2,477 19,859 | 26,420 436 22,026 1,477 3,353 | 29,809 421 22,213 1,663 6,354 | 592,882 7,061 266,993 32,997 299,953 |
| Rayner Ranches Pumped from river (AEP-9) and well (AEW-35) | Diversion Measured Returns Unmeasured Returns Consumptive Use | 0 0 0 | 259 0 91 168 | 342 0 120 222 | 358 0 125 233 | 616 0 216 400 | 617 0 216 401 | 715 0 250 465 | 715 0 250 465 | 441 0 154 287 | 259 0 91 168 | 0 0 0 0 | 0 0 0 0 | 4,322 0 1,513 2,809 |
| Ehrenburg Improvement Association Pumped from river | Diversion Measured Returns Unmeasured Returns Consumptive Use | 17 4 5 8 | 17 2 5 10 | 21 6 6 9 | 24 3 7 14 | 28 5 8 15 | 32 3 9 20 | 38 4 11 23 | 37 3 11 23 | 32 3 9 20 | 29 3 8 18 | 26 2 7 17 | 20 2 6 12 | 321 40 92 189 |
| North Baja Pipeline Pumped from wells | Diversion Measured Returns Unmeasured Returns Consumptive Use | 7 0 2 5 | 18 0 6 12 | 26 0 9 17 | 32 0 11 21 | 29 0 10 19 | 42 0 15 27 | 45 0 16 29 | 27 0 9 18 | 23 0 8 15 | 15 0 5 10 | 8 0 3 5 | 11 0 4 7 | 283 0 98 185 |
| Cibola Valley I.D.D. Pumped from river for agriculture use Pumped from river for domestic use | Diversion Diversion Measured Returns Unmeasured Returns Consumptive Use | 166 25 0 54 137 | 529 25 0 158 396 | 790 25 0 232 583 | 1,309 25 0 381 953 | 864 25 0 253 636 | 1,007 15 0 291 731 | 1,062 15 0 307 770 | 981 15 0 284 712 | 265 15 0 80 200 | 379 15 0 112 282 | 266 15 0 80 201 | 1,297 15 0 374 938 | 8,915 230 0 2,606 6,539 |
| Mohave County Water Authority Pumped from river | Diversion Measured Returns Unmeasured Returns Consumptive Use | 0 0 0 0 | 0 0 0 | 83 0 24 59 | 75 0 21 54 | 81 0 23 58 | 94 0 27 67 | 105 0 30 75 | 136 0 39 97 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 574 0 164 410 |
| Hopi Tribe Pumped from river | Diversion Measured Returns Unmeasured Returns Consumptive Use | 0 0 0 0 | 633 0 180 453 | 235 0 67 168 | 259 0 74 185 | 613 0 175 438 | 700 0 199 501 | 982 0 280 702 | 592 0 169 423 | 560 0 159 401 | 231 0 66 165 | 0 0 0 | 0 0 0 | 4,805 0 1,369 3,436 |
| GSC Farm, LLC Pumped from river | Diversion Measured Returns Unmeasured Returns Consumptive Use | 0 0 0 0 | 159 0 45 114 | 257 0 73 184 | 85 0 24 61 | 325 0 93 232 | 480 0 137 343 | 412 0 117 295 | 299 0 85 214 | 387 0 110 277 | 37 0 11 26 | 0 0 0 | 33 0 10 23 | 2,474 0 705 1,769 |
| Arizona Game and Fish Commission Pumped from river | Diversion Measured Returns Unmeasured Returns Consumptive Use | 0 0 0 0 | 0 0 0 | 353 0 101 252 | 397 0 113 284 | 295 0 83 212 | 420 0 120 300 | 425 0 121 304 | 427 0 122 305 | 0 0 0 | 0 0 0 | 0 0 0 | 0 0 0 | 2,317 0 660 1,657 |
| Cibola Island Pumped from river | Diversion Measured Returns Unmeasured Returns Consumptive Use | 18 0 5 13 | 56 0 16 40 | 84 0 24 60 | 139 0 40 99 | 92 0 26 66 | 107 0 31 76 | 113 0 32 81 | 104 0 30 74 | 28 0 8 20 | 40 0 11 29 | 28 0 8 20 | 138 0 39 99 | 947 0 270 677 |
| Cibola National Wildlife Refuge Pumped from river | Diversion Measured Returns Unmeasured Returns Consumptive Use | 479 0 182 297 | 402 0 153 249 | 631 0 240 391 | 1,396 0 530 866 | 1,488 0 565 923 | 2,000 0 760 1,240 | 1,541 0 586 955 | 2,064 0 784 1,280 | 1,291 0 491 800 | 1,397 0 531 866 | 1,572 0 597 975 | 1,010 0 384 626 | 15,271 0 5,803 9,468 |

Table 4. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|--|-------------------------|--------|--------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Imperial National Wildlife Refuge | | | | | | | | | | | | | | |
| Pumped from river | Diversion | 63 | 242 | 244 | 336 | 288 | 337 | 297 | 381 | 267 | 313 | 288 | 112 | 3,168 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 24 | 92 | 93 | 128 | 109 | 128 | 113 | 145 | 101 | 119 | 109 | 43 | 1,204 |
| | Consumptive Use | 39 | 150 | 151 | 208 | 179 | 209 | 184 | 236 | 166 | 194 | 179 | 69 | 1,964 |
| Bureau of Land Management | Concampare Cos | 00 | | | 200 | | 200 | | 200 | | | | 00 | .,00. |
| Pumped from river and wells (Permitees, LHFO and YFO) | Diversion | 32 | 44 | 68 | 10 | 100 | 84 | 104 | 161 | 105 | 153 | 108 | 95 | 1,064 |
| Pumped from river (ADW-01) (leased by L. Pratt) | Diversion ³ | 7 | 9 | 12 | 13 | 16 | 19 | 21 | 20 | 16 | 13 | 9 | 9 | 164 |
| | | | | | | | | | | | | | | |
| Pumped from river (ADP-1) and well (AEW-14) (leased by M. Lee) | | 8 | 10 | 14 | 15 | 18 | 22 | 24 | 23 | 18 | 16 | 11 | 11 | 190 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 16 | 21 | 33 | 14 | 47 | 44 | 51 | 71 | 49 | 64 | 45 | 40 | 495 |
| Fisher de Leading Material Constitution | Consumptive Use | 31 | 42 | 61 | 24 | 87 | 81 | 98 | 133 | 90 | 118 | 83 | 75 | 923 |
| Fisher's Landing Water and Sewer, LLC | D : | | | , | | • | | | 0 | • | | | 0 | 4.4 |
| Pumped from well | Diversion | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 14 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 3 |
| | Consumptive Use | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11 |
| Shepard Water Company | 5 | | _ | _ | _ | _ | | | | _ | _ | _ | _ | |
| Pumped from well | Diversion | 2 | 2 | 3 | 2 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 37 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 13 |
| | Consumptive Use | 1 | 1 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 24 |
| U.S. Army Yuma Proving Grounds | | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 0 | 1 | 2 | 1 | 1 | 2 | 0 | 4 | 0 | 1 | 0 | 2 | 14 |
| Pumped from wells | Diversion | 16 | 18 | 20 | 35 | 50 | 75 | 75 | 61 | 45 | 50 | 24 | 9 | 478 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 16 | 19 | 22 | 36 | 51 | 77 | 75 | 65 | 45 | 51 | 24 | 11 | 492 |
| JRJ Partners, LLC | | | | | | | | | | | | | | |
| Pumped from river (AEP-1) and well (AEW-3) | Diversion | 48 | 30 | 96 | 122 | 111 | 72 | 115 | 100 | 22 | 110 | 116 | 100 | 1,042 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 17 | 10 | 34 | 43 | 39 | 25 | 40 | 35 | 8 | 38 | 41 | 35 | 365 |
| | Consumptive Use | 31 | 20 | 62 | 79 | 72 | 47 | 75 | 65 | 14 | 72 | 75 | 65 | 677 |
| Cha Cha, LLC | | | | | | | | | | | | | | |
| Pumped from river (AEP-2/3) and wells (AEW-4/5, ADW-3) | Diversion | 40 | 56 | 88 | 82 | 150 | 113 | 157 | 93 | 99 | 172 | 81 | 21 | 1,152 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 14 | 20 | 31 | 29 | 53 | 40 | 55 | 32 | 34 | 60 | 28 | 7 | 403 |
| | Consumptive Use | 26 | 36 | 57 | 53 | 97 | 73 | 102 | 61 | 65 | 112 | 53 | 14 | 749 |
| Beattie Farms Southwest (Russell Youmans) | | | | | | | | | | | | | | |
| Pumped from well (ADW-2) | Diversion | 117 | 41 | 39 | 158 | 4 | 0 | 0 | 0 | 36 | 102 | 93 | 104 | 694 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 41 | 14 | 14 | 55 | 1 | 0 | 0 | 0 | 13 | 36 | 33 | 36 | 243 |
| | Consumptive Use | 76 | 27 | 25 | 103 | 3 | 0 | 0 | 0 | 23 | 66 | 60 | 68 | 451 |
| Gila Monster Farms | | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 441 | 416 | 1,221 | 1,224 | 923 | 418 | 209 | 385 | 256 | 824 | 623 | 416 | 7,356 |
| | Measured Returns | 40 | 26 | 67 | 56 | 33 | 14 | 10 | 17 | 11 | 43 | 28 | 19 | 364 |
| | Unmeasured Returns | 168 | 158 | 464 | 465 | 351 | 159 | 79 | 146 | 97 | 313 | 237 | 158 | 2,795 |
| | Consumptive Use | 233 | 232 | 690 | 703 | 539 | 245 | 120 | 222 | 148 | 468 | 358 | 239 | 4,197 |
| Wellton-Mohawk I.D.D. | , | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 13,945 | 21,725 | 39,713 | 44,921 | 36,885 | 35,317 | 34,148 | 30,990 | 35,696 | 37,037 | 21,295 | 21,025 | 372,697 |
| 5. S. S. S. at Importal Balli | GGMC Return | 1,401 | 1,515 | 2,448 | 2,314 | 1,456 | 1,360 | 1,764 | 1,512 | 1,789 | 2,151 | 1,082 | 1,083 | 19,875 |
| | Dome Return | 492 | 540 | 2,446 545 | 707 | 545 | 366 | 1,704 | 305 | 335 | 379 | 456 | 584 | 5,426 |
| | | | | | | | | | | | | | | |
| | MOD Return ⁴ | 8,333 | 8,684 | 9,431 | 8,220 | 8,836 | 8,592 | 8,495 | 8,428 | 8,777 | 8,674 | 8,174 | 6,420 | 101,064 |
| | Total Returns | 10,226 | 10,739 | 12,424 | 11,241 | 10,837 | 10,318 | 10,431 | 10,245 | 10,901 | 11,204 | 9,712 | 8,087 | 126,365 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 3,719 | 10,986 | 27,289 | 33,680 | 26,048 | 24,999 | 23,717 | 20,745 | 24,795 | 25,833 | 11,583 | 12,938 | 246,332 |

Table 4. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|--|-------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| City of Yuma | | | | | | | | | | | | | | |
| Diversion at Imperial Dam via AAC | Diversion | 1,094 | 966 | 1,168 | 1,237 | 1,378 | 1,566 | 1,554 | 1,656 | 1,383 | 1,417 | 1,184 | 1,129 | 15,732 |
| Diversion at Imperial Dam via GGMC | Diversion | 953 | 821 | 943 | 829 | 691 | 357 | 361 | 402 | 421 | 509 | 1,017 | 976 | 8,280 |
| · | Diversion | 25 | 30 | 25 | 26 | 26 | 25 | 45 | 402 | 38 | 30 | 26 | 34 | 372 |
| Pumped from river for Yuma East Wetlands | Measured Returns | | 807 | | 754 | 753 | | 746 | | | 816 | 886 | 858 | |
| | | 987 | | 859 | | | 698 | | 816 | 815 | | 000 | | 9,795 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | • | 0 | 0 |
| | Consumptive Use | 1,085 | 1,010 | 1,277 | 1,338 | 1,342 | 1,250 | 1,214 | 1,284 | 1,027 | 1,140 | 1,341 | 1,281 | 14,589 |
| U.S. Marine Corps Air Station Yuma | | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 71 | 73 | 113 | 134 | 141 | 134 | 140 | 132 | 117 | 118 | 99 | 88 | 1,360 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 71 | 73 | 113 | 134 | 141 | 134 | 140 | 132 | 117 | 118 | 99 | 88 | 1,360 |
| Union Pacific Railroad | | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 48 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 24 |
| | Consumptive Use | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 24 |
| University of Arizona | | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 31 | 40 | 62 | 76 | 87 | 98 | 102 | 138 | 88 | 95 | 63 | 56 | 936 |
| ' | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 31 | 40 | 62 | 76 | 87 | 98 | 102 | 138 | 88 | 95 | 63 | 56 | 936 |
| Yuma Union High School District | Consumptive ose | 01 | 70 | 02 | 70 | 01 | 30 | 102 | 100 | 00 | 30 | 00 | 00 | 300 |
| Delivery at East Main Canal | Diversion | 6 | 6 | 14 | 18 | 14 | 23 | 25 | 15 | 13 | 17 | 10 | 10 | 171 |
| Delivery at Last Main Canal | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | _ | 4 | | - | | | 4 | 3 | | - |
| | Unmeasured Returns | 2 | 2 | 4 | 5 | • | 6 | 6 | 4 | 3 | • | | 3 | 46 |
| | Consumptive Use | 4 | 4 | 10 | 13 | 10 | 17 | 19 | 11 | 10 | 13 | 7 | 7 | 125 |
| Desert Lawn Memorial Park | D: · | | | | | • | | | | | | | • | |
| Delivered by the City of Yuma | Diversion | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 6 | 4 | 2 | 2 | 2 | 29 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 9 |
| | Consumptive Use | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 4 | 3 | 1 | 1 | 1 | 20 |
| North Gila Valley Irrigation District | | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 1,719 | 2,121 | 3,500 | 3,570 | 5,516 | 5,412 | 5,521 | 2,916 | 3,315 | 4,130 | 3,244 | 2,330 | 43,294 |
| Pumped from river | Diversion | 36 | 24 | 89 | 68 | 56 | 108 | 63 | 51 | 58 | 32 | 9 | 61 | 655 |
| | Measured Returns | 1,346 | 1,501 | 2,016 | 2,000 | 2,972 | 3,080 | 2,971 | 1,688 | 1,900 | 2,400 | 2,125 | 1,502 | 25,501 |
| | Unmeasured Returns | 249 | 299 | 511 | 513 | 776 | 779 | 778 | 417 | 474 | 577 | 447 | 340 | 6,160 |
| | Consumptive Use | 160 | 345 | 1,062 | 1,125 | 1,824 | 1,661 | 1,835 | 862 | 999 | 1,185 | 681 | 549 | 12,288 |
| Yuma Irrigation District | · | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion ⁵ | 2,783 | 2,864 | 6,726 | 7,443 | 6,191 | 4,094 | 4,906 | 5,389 | 5,194 | 7,116 | 4,734 | 3,960 | 61,400 |
| Pumped from wells | Diversion | 27 | 32 | 123 | 221 | 29 | 72 | 221 | 184 | 184 | 80 | 81 | 64 | 1,318 |
| Fulliped Irolli Wells | Measured Returns | 961 | 860 | 1,745 | 1,791 | 1,460 | 1,005 | 1,237 | 1,362 | 1,320 | 1,808 | 1,223 | 1,030 | 15,802 |
| | Unmeasured Returns | 599 | 617 | 1,743 | 1,632 | 1,325 | 887 | 1,092 | 1,302 | | 1,533 | 1,026 | 857 | 13,360 |
| | | | | | | | | | | 1,146 | | | | |
| | Consumptive Use | 1,250 | 1,419 | 3,645 | 4,241 | 3,435 | 2,274 | 2,798 | 3,024 | 2,912 | 3,855 | 2,566 | 2,137 | 33,556 |
| Yuma Mesa I.D.D. | | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 9,233 | 8,283 | 14,901 | 15,833 | 20,357 | 23,010 | 24,765 | 24,739 | 18,437 | 16,653 | 10,437 | 10,606 | 197,254 |
| | Measured Returns ⁶ | 2,748 | 3,199 | 3,372 | 3,321 | 2,463 | 3,114 | 3,139 | 4,081 | 3,342 | 5,350 | 2,021 | 6,097 | 42,247 |
| | Unmeasured Returns | 1,477 | 1,325 | 2,384 | 2,533 | 3,257 | 3,682 | 3,962 | 3,958 | 2,950 | 2,664 | 1,670 | 1,697 | 31,559 |
| | Consumptive Use | 5,008 | 3,759 | 9,145 | 9,979 | 14,637 | 16,214 | 17,664 | 16,700 | 12,145 | 8,639 | 6,746 | 2,812 | 123,448 |
| Unit "B" I.D.D. | , , , | .,.,. | -, | -, - | ., | , | -, - | , | ., | , - | , | -, - | , | ., . |
| Diversion at Imperial Dam | Diversion | 1,199 | 1,059 | 1,906 | 2,324 | 2,942 | 3,290 | 3,611 | 3,663 | 2,475 | 2,735 | 1,636 | 1,216 | 28,056 |
| | Measured Returns ⁶ | | | | | | | | | 537 | | 343 | | |
| | | 428 | 527 | 535 | 553 | 400 | 509 | 501 | 674 | | 928 | | 1,030 | 6,965 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 771 | 532 | 1,371 | 1,771 | 2,542 | 2,781 | 3,110 | 2,989 | 1,938 | 1,807 | 1,293 | 186 | 21,091 |

Table 4. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|---|------------------------|----------|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|------------|-----------------|
| Arizona State Land Department | | | | | | | | | | | | | | |
| Pumped from river and wells for agriculture use | Diversion | 550 | 699 | 1,319 | 1,256 | 1,182 | 1,152 | 1,146 | 1,148 | 826 | 922 | 857 | 624 | 11,681 |
| Pumped from river and wells for domestic use | Diversion | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 7 | 5 | 4 | 4 | 4 | 47 |
| Tamped non-moral and mone for admission add | Measured Returns | 13 | 9 | 22 | 19 | 11 | 5 | 3 | 6 | 4 | 14 | 9 | 6 | 121 |
| | Unmeasured Returns | 194 | 246 | 463 | 441 | 415 | 405 | 403 | 404 | 291 | 324 | 301 | 220 | 4,107 |
| | Consumptive Use | 346 | 447 | 837 | 799 | 759 | 746 | 744 | 745 | 536 | 588 | 551 | 402 | 7,500 |
| George Ogram | Concumpate Coo | 0.10 | | 001 | 100 | 100 | 7 10 | | 7 10 | 000 | 000 | 001 | 102 | 1,000 |
| Delivered via GGMC | Diversion | 19 | 27 | 9 | 0 | 0 | 0 | 0 | 26 | 74 | 54 | 21 | 51 | 281 |
| Delivered via COMO | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 7 | 9 | 3 | 0 | 0 | 0 | 0 | 9 | 26 | 19 | 8 | 18 | 99 |
| | Consumptive Use | 12 | 18 | 6 | 0 | 0 | 0 | 0 | 17 | 48 | 35 | 13 | 33 | 182 |
| Ogram Boys' Enterprises | Consumptive Ose | 12 | 10 | U | U | U | U | U | 17 | 40 | 33 | 13 | 33 | 102 |
| Delivered via GGMC | Diversion | 15 | 26 | 00 | 202 | 260 | 06 | 105 | 2 | 0 | 22 | 47 | 20 | 000 |
| Delivered via GGMC | | 15 | 26 | 99 | 202 | 269 0 | 86 | 125 | 3 | 0 | 23 | 47 | 28 | 923 |
| | Measured Returns | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 5 | 9 | 35 | 71 | 94 | 30 | 44 | 1 | 0 | 8 | 16 | 10 | 323 |
| Ford Women Lodden Brown of the | Consumptive Use | 10 | 17 | 64 | 131 | 175 | 56 | 81 | 2 | 0 | 15 | 31 | 18 | 600 |
| Fort Yuma Indian Reservation | 5 | | | | | | | | | | | | . . | , |
| Pumped from river for Yuma East Wetlands | Diversion | 17 | 19 | 99 | 166 | 116 | 149 | 178 | 142 | 148 | 177 | 17 | 21 | 1,249 |
| Pumped from river for agriculture use (Cha Cha Farms) | Diversion | 2 | 4 | 2 | 3 | 5 | 2 | 9 | 4 | 4 | 3 | 7 | 3 | 48 |
| Surface delivery to Ranch "5" | Diversion | 10 | 8 | 53 | 36 | 50 | 76 | 16 | 0 | 49 | 48 | 38 | 34 | 418 |
| Pumped from wells for domestic use | Diversion ⁷ | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 2 | 2 | 2 | 2 | 2 | 30 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 11 | 11 | 55 | 73 | 61 | 81 | 72 | 52 | 71 | 81 | 22 | 21 | 611 |
| | Consumptive Use | 21 | 22 | 101 | 135 | 113 | 149 | 135 | 96 | 132 | 149 | 42 | 39 | 1,134 |
| Armon Curtis | · | | | | | | | | | | | | | , |
| Pumped from river (AEP-4) | Diversion ³ | 7 | 9 | 12 | 13 | 16 | 20 | 21 | 21 | 16 | 13 | 10 | 9 | 167 |
| Tumped from fiver (ALI -4) | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 2 | 3 | 4 | 4 | 6 | 7 | 7 | 8 | 6 | 4 | 4 | 3 | 58 |
| | Consumptive Use | 5 | 6 | 8 | 9 | 10 | 13 | 14 | 13 | 10 | 9 | 6 | 6 | 109 |
| Vivra County Weter House Accordation | Consumpave Osc | J | U | J | 3 | 10 | 10 | 17 | 10 | 10 | 3 | U | o o | 100 |
| Yuma County Water Users' Association | Div | 47.744 | 40.540 | 00.047 | 45.000 | 00.000 | 05.070 | 00.040 | 04 400 | 00.040 | 00.050 | 07.070 | 00.400 | 000 707 |
| Diversion at Imperial Dam | Diversion | 17,714 | 18,543 | 39,217 | 45,968 | 30,992 | 25,278 | 32,316 | 21,403 | 23,946 | 36,952 | 27,279 | 20,129 | 339,737 |
| Pumped from wells | Diversion | 83 | 122 | 121 | 107 | 148 | 167 | 148 | 86 | 44 | 147 | 136 | 140 | 1,449 |
| | Measured Returns | 11,259 | 9,709 | 10,616 | 9,477 | 9,417 | 7,808 | 8,833 | 7,660 | 9,704 | 10,155 | 12,090 | 9,279 | 116,007 |
| | Unmeasured Returns | 374 | 392 | 826 | 968 | 654 | 534 | 682 | 451 | 504 | 779 | 576 | 426 | 7,166 |
| | Consumptive Use | 6,164 | 8,564 | 27,896 | 35,630 | 21,069 | 17,103 | 22,949 | 13,378 | 13,782 | 26,165 | 14,749 | 10,564 | 218,013 |
| R. Griffin | • | | | | | | | | | | | | | |
| Pumped from river (ADP-3,4) | Diversion ³ | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 3 | 2 | 2 | 2 | 29 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 1 | 11 |
| | Consumptive Use | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 18 |
| Power | | | | | | | | | | | | | | |
| Pumped from river (ADP-3,4) | Diversion ³ | 4 | 5 | 7 | 8 | 9 | 11 | 12 | 12 | 9 | 8 | 5 | 5 | 95 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 1 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 1 | 2 | 33 |
| | Consumptive Use | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 6 | 5 | 4 | 3 | 62 |
| Griffin Ranches | 222 | <u> </u> | | | | | | | J | | J | | J | |
| Pumped from river (ADP-3,4) | Diversion ³ | 3 | 4 | 6 | 6 | 8 | 10 | 11 | 10 | ρ | 7 | 5 | 5 | 83 |
| Tampou nom nvoi (noi -0,+) | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 2 | 29 |
| | Consumptive Use | 2 | 3 | 4 | 4 | 5 | 7 | 7 | 7 | 5 | 4 | 3 | 3 | 54 |
| Milton Phillips | Consumptive Ose | | 3 | 4 | 4 | 3 | - 1 | - 1 | 1 | 3 | 4 | 3 | 3 | J -1 |
| | Diversion ³ | 2 | • | 2 | 2 | A | F | F | F | | 4 | 2 | 0 | 40 |
| Pumped from river (ADP-3,4) | | 2 | 2 | 3 | 3 | 4 | 5 | 5 | 5 | 4 | 4 | 3 | 2 | 42 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 15 |
| | Consumptive Use | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 27 |

Table 4. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|--|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| Victor Power | | | | | | | | | | | | | | |
| Pumped from river (ADP-3,4) | Diversion ³ | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 17 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 6 |
| | Consumptive Use | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11 |
| Cocopah Indian Reservation | | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 52 | 41 | 94 | 471 | 0 | 0 | 0 | 0 | 0 | 18 | 19 | 50 | 745 |
| Pumped from river and wells | Diversion 3,8 | 69 | 86 | 116 | 127 | 154 | 187 | 203 | 196 | 155 | 129 | 92 | 90 | 1,604 |
| | Measured Returns | 5 | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 15 |
| | Unmeasured Returns | 41 | 43 | 71 | 203 | 52 | | 69 | 67 | 53 | 50 | 38 | 48 | 799 |
| | Consumptive Use | 75 | 82 | 137 | 391 | 102 | 123 | 134 | 129 | 102 | 97 | 72 | 91 | 1,535 |
| Bureau of Reclamation's Yuma Area Office | D : | 0 | 00 | • | 70 | 77 | 40 | • | 0 | • | 0 | • | • | 407 |
| Pumped from wells | Diversion Measured Returns | 0 | 36 | 0 | 72 | 77 0 | 12 0 | 0 | 0 | 0 | 0 | 0 | 0 | 197 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 0 | 36 | 0 | 72 | • | | 0 | 0 | 0 | 0 | 0 | 0 | 197 |
| Arizona Public Service Company | Consumptive Ose | U | 30 | U | 12 | 11 | 12 | U | U | U | U | U | U | 197 |
| Pumped from well | Diversion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 1 | 0 | 0 | 0 | 25 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 11 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 1 | 0 | 0 | 0 | 14 |
| Gary Pasquinelli | | | | | | | | | | | | | | |
| Pumped from river (ADP-5) | Diversion | 13 | 5 | 32 | 79 | 63 | 40 | 0 | 0 | 48 | 69 | 32 | 16 | 397 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 5 | 2 | 11 | 27 | 22 | 14 | 0 | 0 | 17 | 24 | 11 | 6 | 139 |
| | Consumptive Use | 8 | 3 | 21 | 52 | 41 | 26 | 0 | 0 | 31 | 45 | 21 | 10 | 258 |
| Pumped from the South Gila Wells (DPOCs) | Measured Returns 9 | 3,794 | 4,360 | 5,089 | 2,484 | 19 | 2,707 | 4,645 | 5,076 | 2,589 | 5,291 | 96 | 5,496 | 41,646 |
| | Unmeasured Returns | -3,794 | -4,360 | -5,089 | -2,484 | -19 | | -4,645 | -5,076 | -2,589 | -5,291 | -96 | -5,496 | -41,646 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona Totals | · | | | | | | | | | | | | | |
| | Diversion | 192,119 | 157,637 | 316,756 | 380,840 | 374,993 | 280,149 | 282,477 | 254,676 | 294,713 | 300,359 | 236,437 | 245,763 | 3,316,919 |
| | Measured Returns | 47,424 | 49,639 | 56,922 | 53,711 | 50,706 | , | 59,034 | 56,613 | 56,997 | 60,743 | 50,590 | 55,653 | 652,111 |
| | Unmeasured Returns | 1,854 | 4,500 | 12,997 | 20,821 | 22,199 | 20,604 | 19,054 | 16,365 | 12,764 | 10,725 | 10,028 | 3,394 | 155,305 |
| | Consumptive Use | 142,841 | 103,498 | 246,837 | 306,308 | 302,088 | 205,466 | 204,389 | 181,698 | 224,952 | 228,891 | 175,819 | 186,716 | 2,509,503 |
| Footnotes: | | • | | | | | • | | | • | | | | |

Footnotes:

Yuma Mesa Conduit Outlet Flows (AF) = 7,240

Protective and Regulatory Pumping Unit (AF) = 26.015

¹ Diversion values are normally positive. Should negative diversion values occur, water is flowing from the canal to the river.

² The South Dike is the point of measured return flow for the Refuge and meter readings will normally indicate a positive flow of water from the Refuge into the river. If the flow reverses and water flows into the Refuge instead, a negative value will be recorded; when this occurs, this is considered a diversion.

³ Calculated by the USGS using field crop verification and ET methodologies. A description of this methodology is included in the Significant Documents.

⁴ MOD return flow credit is the measured flow at Station 0+00. When comparing this return value to the "Water Bypassed Pursuant to IBWC Minute No. 242", differences can result due to a combination of transmission loss, DPOC and Yuma Mesa Conduit discharge into the MODE, MODE water that has been desalinated, and MODE water discharged to the river. During periods of sustained flow in the Gila River this measurement may include both Colorado River and Gila River water. At such times Reclamation will determine how best to differentiate return flows from the two sources.

⁵ Diversion does not include water delivered to users (George Ogram, Ogram Boys' Enterprises, and some ASLD lands) located outside of District boundaries.

⁶ YMIDD receives 85 percent of the return flows from the Yuma Mesa Conduit Outlet and the Protective and Regulatory Pumping Unit; Unit B receives the remaining 15 percent.

Diversion is an estimate of the amount of domestic water required by FYIR, AZ.

But Diversion amounts include pumpage from wells ADP-3, 4, AEW-15, 16, and the Cocopah Bend R.V. Park. The reported diversion includes deliveries to the Cocopah Tribe's Trust lands and 239 AF to the Tribe's Fee lands located within IPPR No. 7.

⁹ Until comprehensive modeling of the Yuma area to determine how unmeasured returns are affected by pumping of the DPOC wellfield is complete, this pumpage is added to Arizona's measured returns and subtracted from Arizona's unmeasured returns.

Table 5. State of California - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|--|------------------------------|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|--------|
| Fort Mojave Indian Reservation | | | | | | | | | | | | | | |
| Pumped from river and well for agriculture use | Diversion | 111 | 380 | 1,214 | 1,454 | 1,845 | 1,932 | 1,193 | 2,149 | 1,731 | 1,179 | 483 | 110 | 13,781 |
| Pumped from wells for domestic use | Diversion | 5 | 2 | 3 | 3 | 5 | 6 | 5 | 5 | 5 | 5 | 3 | 2 | 49 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 54 | 176 | 562 | 673 | 855 | 895 | 553 | 995 | 802 | 547 | 225 | 52 | 6,389 |
| | Consumptive Use | 62 | 206 | 655 | 784 | 995 | 1,043 | 645 | 1,159 | 934 | 637 | 261 | 60 | 7,441 |
| City of Needles | | | | | | | | | | | | | | |
| Pumped from wells | Diversion | 90 | 90 | 136 | 153 | 182 | 191 | 202 | 199 | 154 | 198 | 157 | 135 | 1,887 |
| | Measured Returns | 31 | 28 | 31 | 31 | 31 | 30 | 32 | 33 | 31 | 32 | 30 | 29 | 369 |
| | Unmeasured Returns | 8 | 10 | 62 | 43 | 9 | 17 | 31 | 51 | 8 | 97 | 49 | 43 | 428 |
| | Consumptive Use ¹ | 51 | 52 | 43 | 79 | 142 | 144 | 139 | 115 | 115 | 69 | 78 | 63 | 1,090 |
| Southern California Gas Company | | | | | | | | | | | | | | |
| Pumped from wells | Diversion | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 1 | 2 | 1 | 16 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use ² | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 1 | 2 | 1 | 16 |
| Pacific Gas and Electric Company | | | | | | | | | | | | | | |
| Pumped from wells | Diversion | 11 | 14 | 19 | 20 | 25 | 30 | 33 | 32 | 25 | 21 | 15 | 14 | 259 |
| | Measured Returns | 9 | 11 | 15 | 16 | 20 | 24 | 27 | 26 | 20 | 17 | 12 | 12 | 209 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use ² | 2 | 3 | 4 | 4 | 5 | 6 | 6 | 6 | 5 | 4 | 3 | 2 | 50 |
| Havasu Water Company | | | | | | | | | | | | | | |
| Pumped from wells | Diversion | 1 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 2 | 2 | 34 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 14 |
| | Consumptive Use ² | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 1 | 20 |
| Vista Del Lago | | | | | | | | | | | | | | |
| Pumped from wells | Diversion | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 25 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 |
| | Consumptive Use ² | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 15 |
| Non-Federal Subcontractors to the LCWSP | | | | | | | | | | | | | | |
| Pumped from wells | Diversion | 13 | 16 | 22 | 23 | 28 | 35 | 37 | 36 | 28 | 24 | 17 | 17 | 296 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 5 | 6 | 9 | 9 | 11 | 14 | 15 | 14 | 11 | 10 | 7 | 7 | 118 |
| | Consumptive Use ² | 8 | 10 | 13 | 14 | 17 | 21 | 22 | 22 | 17 | 14 | 10 | 10 | 178 |
| Wetmore, Kenneth C. | | | | | | | | | | | | | | |
| Pumped from well | Diversion | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 5 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| Williams, Jerry O. and Deloris P. | | | | | | | | | | | | | | |
| Pumped from well | Diversion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 5. State of California - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|--|------------------------------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|----------|---------|---------|
| Carney, Jerome D. | | | | | | | | | | | | | | |
| Pumped from wells | Diversion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wetmore, Mark M. | | | | | | | | | | | | | | |
| Pumped from well | Diversion | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 9 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 4 |
| | Consumptive Use | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| Chemehuevi Indian Reservation | D | 40 | 40 | 40 | | | | | | | | | | |
| Pumped from river and wells | Diversion | 10 | 12 | 18 | 17 | 25 | 30 | 37 | 243 | 27 | 24 | 28 | 18 | 489 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 5 5 | 5 7 | 8 | 8 | 12 | 14 | 17 | 112 | 12 | 11 | 13 15 | 9 | 226 |
| The Metropoliton Water District of Southern Colifornia | Consumptive Use | 5 | 1 | 10 | 9 | 13 | 16 | 20 | 131 | 15 | 13 | 15 | 9 | 263 |
| The Metropolitan Water District of Southern California Pumped from Lake Havasu | Diversion | 68,003 | 13,265 | 24,003 | 42,451 | 44,199 | 57,439 | 58,044 | 57,955 | 55,601 | 69,368 | 89,259 | 100,180 | 679,767 |
| Fumped Hom Lake Flavasu | Measured Returns | 256 | 237 | 24,003 | 42,451 207 | 230 | 229 | 219 | 215 | 203 | 239 | 227 | 239 | 2,740 |
| | Unmeasured Returns | 0 | 0 | 239 | 0 | 0 | 0 | 0 | 0 | 203 | 239 | 0 | 239 | 2,740 |
| | Consumptive Use | 67,747 | 13,028 | 23,764 | 42,244 | 43,969 | 57,210 | 57,825 | 57,740 | 55,398 | 69,129 | 89,032 | 99.941 | 677,027 |
| Bureau of Reclamation - Parker Dam and Government | | 01,171 | 10,020 | 20,704 | 72,277 | 40,000 | 01,210 | 01,020 | 01,140 | 00,000 | 00,120 | 00,002 | 55,541 | 011,021 |
| Diversion at Parker Dam | Diversion | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use ² | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Colorado River Indian Reservation | - 1 | | - | - | - | - | | - | | - | • | • | | • |
| Pumped from river and wells (agriculture) | Diversion | 104 | 129 | 177 | 192 | 234 | 283 | 310 | 298 | 234 | 196 | 139 | 137 | 2,433 |
| Pumped from wells for Big River Development | Diversion | 30 | 29 | 36 | 43 | 49 | 59 | 61 | 56 | 54 | 47 | 38 | 31 | 533 |
| - | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 56 | 66 | 89 | 97 | 117 | 143 | 155 | 148 | 120 | 101 | 74 | 70 | 1,236 |
| | Consumptive Use | 78 | 92 | 124 | 138 | 166 | 199 | 216 | 206 | 168 | 142 | 103 | 98 | 1,730 |
| Palo Verde Irrigation District | | | | | | | | | | | | | | |
| Diversion at Palo Verde Dam | Diversion | 21,570 | 37,260 | 56,450 | 69,810 | 73,910 | 88,880 | 96,140 | 89,970 | 64,840 | 58,960 | 38,040 | 37,040 | 732,870 |
| Pumped from river | Diversion 3,4 | 82 | 102 | 139 | 150 | 183 | 222 | 243 | 233 | 184 | 154 | 109 | 107 | 1,908 |
| | Measured Returns | 26,386 | 25,886 | 28,472 | 29,858 | 34,507 | 35,170 | 35,869 | 34,771 | 34,601 | 33,993 | 30,234 | 29,755 | 379,502 |
| | Unmeasured Returns | 1,410 | 3,232 | 3,988 | 4,602 | 5,486 | 6,343 | 6,784 | 6,880 | 5,235 | 4,547 | 2,941 | 2,886 | 54,334 |
| | Consumptive Use | -6,144 | 8,244 | 24,129 | 35,500 | 34,100 | 47,589 | 53,730 | 48,552 | 25,188 | 20,574 | 4,974 | 4,506 | 300,942 |
| Lake Enterprises | | | | | | | | | | | | | | |
| Pumped from river | Diversion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Land Management | | | | | | | | | | | | | | |
| Pumped from wells (Permittees, LHFO and YFO) | Diversion | 28 | 18 | 23 | 23 | 22 | 29 | 18 | 65 | 24 | 32 | 26 | 23 | 331 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 10 | 5 | 7 | 6 | 7 | 10 | 6 | 17 | 7 | 9 | 8 | 6 | 98 |
| | Consumptive Use | 18 | 13 | 16 | 17 | 15 | 19 | 12 | 48 | 17 | 23 | 18 | 17 | 233 |

Table 5. State of California - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|---|-------------------------------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|--------------|
| Yuma Project Reservation Division | | | | | | | | | | | | | | |
| Indian Unit | | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 1,880 | 2,044 | 5,328 | 7,394 | 5,506 | 3,144 | 1,846 | 3,436 | 2,803 | 4,619 | 3,368 | 3,072 | 44,440 |
| Pumped from wells for domestic use | Diversion ⁵ | 34 | 42 | 58 | 63 | 76 | 93 | 101 | 97 | 77 | 64 | 45 | 45 | 795 |
| | Measured Returns | 142 | 82 | 117 | 55 | 17 | 9 | 6 | 15 | 49 | 50 | 115 | 74 | 731 |
| | Unmeasured Returns | 320 | 348 | 899 | 1,245 | 932 | 541 | 325 | 590 | 481 | 782 | 570 | 521 | 7,554 |
| Bard Unit | D: : | 4.007 | 4 000 | 0.050 | 5.044 | 0.400 | 0.457 | 0.700 | 0.404 | 0.450 | 0.000 | 0.755 | 0.705 | 07.000 |
| Diversion at Imperial Dam | Diversion | 1,807 | 1,960 | 3,858 | 5,041 | 3,162 | 3,157 | 2,708 | 2,404 | 3,459 | 3,880 | 3,755 | 2,795 | 37,986 |
| | Measured Returns Unmeasured Returns | 79 302 | 45 327 | 45 644 | 21 842 | 6 528 | 5 527 | 5 452 | 5 401 | 35 578 | 24 648 | 73 627 | 38 467 | 381 6,343 |
| Unassigned Yuma Project Reservation Division Measured Re | | | | | | | | | | | | | | , |
| | | 2,397 | 1,896 | 1,842 | 2,375 | 2,172 | 2,228 | 1,345 | 1,345 | 1,451 | 1,873 | 2,263 | 2,109 | 23,296 |
| Total Yuma Project Reservation Division Consumptive Us | se | 481 | 1,348 | 5,697 | 7,960 | 5,089 | 3,084 | 2,522 | 3,581 | 3,745 | 5,186 | 3,520 | 2,703 | 44,916 |
| Fort Yuma Indian Reservation Ranch 1 | | | | | | | | | | | | | | |
| Pumped from well and river (CEW-2; CDP-3) Ranch 2 Parcel 3 | Diversion ⁴ | 13 | 16 | 21 | 23 | 28 | 34 | 37 | 36 | 28 | 24 | 17 | 17 | 294 |
| Pumped from well and river (CEW-2; CDP-4) | Diversion ⁴ | 7 | 9 | 12 | 13 | 16 | 20 | 21 | 21 | 16 | 14 | 10 | 9 | 168 |
| Ranch 3 | | | | | | | | | | | | | | |
| Pumped from well and river (CEW-2; CDP-5) | Diversion ⁴ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ranch 4 | | | | | | | | | | | | | | |
| Pumped from well and river (CEW-1,15; CDP-1,2) | Diversion ⁴ | 41 | 52 | 70 | 76 | 93 | 113 | 123 | 119 | 93 | 78 | 55 | 55 | 968 |
| Ranch 5 | | | | | | | | | | | | | | |
| Diverted from the AAC | Diversion | 23 | 19 | 118 | 78 | 111 | 170 | 35 | 0 | 109 | 108 | 85 | 76 | 932 |
| Ranch 7 | | | | | | | | | | | | | | |
| Pumped from well and river (CEW-1,15; CDP-1,2) | Diversion ⁴ | 8 | 10 | 14 | 15 | 18 | 22 | 24 | 23 | 18 | 15 | 11 | 10 | 188 |
| Ranch 15 | | | | | | | | | | | | | | |
| Pumped from well (CEW-14) | Diversion ⁴ | 18 | 24 | 32 | 35 | 42 | 52 | 56 | 54 | 43 | 36 | 25 | 25 | 442 |
| Ranch 17 | , | | | | | | | | | | | | | |
| Pumped from river (CDP-6,7) | Diversion ⁴ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sum of Diversions for the FYIR Ranches in California | Diversion | 110 | 130 | 267 | 240 | 308 | 411 | 296 | 253 | 307 | 275 | 203 | 192 | 2,992 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 50 | 57 | 119 | 108 | 139 | 184 | 133 | 113 | 138 | 123 | 89 | 85 | 1,338 |
| | Consumptive Use | 60 | 73 | 148 | 132 | 169 | 227 | 163 | 140 | 169 | 152 | 114 | 107 | 1,654 |
| Yuma Island California | | | | | | | | | | | | | | |
| Arizona State Land Department Trust Lands | Diversion ⁴ | 171 | 214 | 292 | 314 | 389 | 468 | 512 | 488 | 386 | 327 | 231 | 222 | 4,014 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 78 | 96 | 129 | 140 | 176 | 207 | 229 | 220 | 172 | 146 | 104 | 98 | 1,795 |
| | Consumptive Use | 93 | 118 | 163 | 174 | 213 | 261 | 283 | 268 | 214 | 181 | 127 | 124 | 2,219 |
| City of Winterhaven | | | | | | | | | | _ | | _ | _ | |
| Pumped from well | Diversion | 8 | 8 | 8 | 7 | 7 | 14 | 7 | 8 | 7 | 8 | 8 | 7 | 97 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 3 5 | 2 | 3 5 | 2 5 | 2 5 | 5 9 | 2 5 | 3 5 | 2 5 | 3 5 | 3 5 | 2 5 | 32 |
| | Consumptive Use | 5 | 6 | 5 | 5 | 5 | 9 | 3 | 5 | 5 | 5 | 5 | 5 | 65 |

Table 5. State of California - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|---|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| Imperial Irrigation District | | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 58,392 | 127,709 | 245,589 | 268,744 | 283,328 | 279,141 | 261,534 | 228,921 | 215,151 | 229,926 | 156,229 | 133,951 | 2,488,615 |
| · | Measured Returns | 6,985 | 8,182 | 8,320 | 3,236 | 1,429 | 1,371 | 1,373 | 1,534 | 6,462 | 3,999 | 8,487 | 5,275 | 56,653 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Delivery from Warren H. Brock Reservoir | Consumptive Use 8 | 11,514 | 12,385 | 14,275 | 12,542 | 12,290 | 9,489 | 9,140 | 9,392 | 0 | 0 | 10,550 | 14,632 | 116,209 |
| Total IID Consumptive Use | Total Consumptive Use | 62,921 | 131,912 | 251,544 | 278,050 | 294,189 | 287,259 | 269,301 | 236,779 | 208,689 | 225,927 | 158,292 | 143,308 | 2,548,171 |
| Water Transferred to SDCWA for Mitigation | Diversion 9 | 19,512 | 11,142 | 5,246 | 3,318 | 2,443 | 4,670 | 6,876 | 7,379 | 3,554 | 11,645 | 13,966 | 20,673 | 110,424 |
| | Measured Returns | 2,334 | 714 | 178 | 40 | 12 | 23 | 36 | 49 | 107 | 203 | 759 | 814 | 5,269 |
| | Consumptive Use | 17,178 | 10,428 | 5,068 | 3,278 | 2,431 | 4,647 | 6,840 | 7,330 | 3,447 | 11,442 | 13,207 | 19,859 | 105,155 |
| Coachella Valley Water District | · | | | | | | | | | | | | | |
| Diversion at Imperial Dam | Diversion | 13,207 | 19,622 | 26,805 | 31,836 | 35,883 | 36,715 | 37,300 | 36,673 | 28,945 | 29,222 | 28,214 | 19,508 | 343,930 |
| · | Measured Returns | 1,580 | 1,257 | 908 | 383 | 181 | 180 | 196 | 246 | 869 | 508 | 1,533 | 768 | 8,609 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 11,627 | 18,365 | 25,897 | 31,453 | 35,702 | 36,535 | 37,104 | 36,427 | 28,076 | 28,714 | 26,681 | 18,740 | 335,321 |
| California Totals | | | | | | | | | | | | | | |
| | Diversion | 185,180 | 214,191 | 369,697 | 431,303 | 451,817 | 476,961 | 467,514 | 430,913 | 377,606 | 410,181 | 334,340 | 318,284 | 4,467,987 |
| | Measured Returns | 40,199 | 38,338 | 40,167 | 36,222 | 38,605 | 39,269 | 39,108 | 38,239 | 43,828 | 40,938 | 43,733 | 39,113 | 477,759 |
| | Unmeasured Returns | 2,302 | 4,331 | 6,521 | 7,778 | 8,276 | 8,903 | 8,706 | 9,547 | 7,570 | 7,027 | 4,713 | 4,248 | 79,922 |
| | Consumptive Use | 154,193 | 183,907 | 337,284 | 399,845 | 417,226 | 438,278 | 428,840 | 392,519 | 326,208 | 362,216 | 296,444 | 289,555 | 4,026,515 |

Footnotes:

¹ In 2017, the City of Needles (Needles) conserved 146 AF under the Pilot System Conservation Program. In accordance with System Conservation Implementation Agreement No. 15-XX-30-W0596, Needles' Colorado River consumptive use in excess of 1,077 AF (its 1,223 AF PPR entitlement adjusted for the 146 AF of conservation) is offset by pumping from the LCWSP. For additional details, see Table 16.

² Tabulated consumptive use is offset by pumping from the LCWSP. For additional details, see Table 16.

³ Water pumped from the river for delivery to non-canal lands served by PVID upstream of Palo Verde Diversion Dam. The water reported in this line item represents a portion of the diversion previously reported within the item "Colorado River Indian Reservation: Pumped from river and wells (agriculture)".

⁴ Calculated by the USGS using field crop verification and ET methodologies. A description of this methodology is included in the Significant Documents. Points of diversion for the Yuma Island in CA are AEP-02, AEW-04, AEW-05, ADW-03, CEP-01, CEP-02, CDW-05, CDW-07, CDW-08, CEW-07, CEW-09, CEW-12, CEW-13. See the USGS maps in the Significant Documents section.

⁵ Diversion is an estimate of the amount of domestic water required by the YPRD Indian Unit.

⁶ Unassigned measured returns include drainage from the Indian Unit and the Bard Unit in the Reservation Division, but excludes seepage from the AAC.

⁷ Calculated as the sum of diversions (83,221 AF) minus the sum of: measured returns (1,112 AF), unmeasured returns (13,897 AF) and unassigned measured returns (23,296 AF).

⁸ Colorado River water captured in the Warren H. Brock Reservoir and delivered to IID as consumptive use. Flow measurement is made at the Brock Reservoir outlet channel, Station 21+36.

⁹ As referenced in Column 7, Exhibit B, of the CRWDA and the IID/SDCWA Water Transfer Agreement, as amended, IID conserves water for transfer to SDCWA for delivery, by exchange from non-Colorado River sources, to the Salton Sea for mitigation purposes. For additional details, see Table 18.

Table 6. State of Nevada - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|---|-------------------------------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| Bureau of Reclamation | | | | | | | | | | | | | | |
| Hoover Dam Diversion | Diversion | 5 | 5 | 6 | 6 | 7 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 68 |
| | Measured Returns | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 25 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 3 | 3 | 4 | 4 | 5 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 43 |
| Robert B. Griffith Water Project | | | | | | | | | | | | | | |
| Pumped from Lake Mead | Diversion | 25,972 | 23,751 | 33,727 | 36,694 | 45,181 | 43,813 | 47,268 | 45,125 | 37,909 | 40,545 | 32,533 | 30,032 | 442,550 |
| Lake Mead National Recreation Area National Park Service | | | | | | | | | | | | | | |
| Pumped from Lake Mead | Diversion | 18 | 19 | 27 | 24 | 28 | 36 | 43 | 37 | 34 | 28 | 21 | 20 | 335 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 18 | 19 | 27 | 24 | 28 | 36 | 43 | 37 | 34 | 28 | 21 | 20 | 335 |
| Basic Water Company | | | | | | | | | | | | | | |
| Pumped from Lake Mead | Diversion | 289 | 289 | 318 | 291 | 361 | 389 | 498 | 466 | 488 | 362 | 327 | 373 | 4,451 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 289 | 289 | 318 | 291 | 361 | 389 | 498 | 466 | 488 | 362 | 327 | 373 | 4,451 |
| City of Henderson | | | | | | | | | | | | | | |
| Pumped from Lake Mead | Diversion | 860 | 857 | 1,084 | 970 | 972 | 1,003 | 1,155 | 1,329 | 1,203 | 1,207 | 1,156 | 825 | 12,621 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 860 | 857 | 1,084 | 970 | 972 | 1,003 | 1,155 | 1,329 | 1,203 | 1,207 | 1,156 | 825 | 12,621 |
| Nevada Department of Wildlife | D: . | 50 | | | | | | | | | | | | |
| Pumped from Lake Mead | Diversion | 52 | 51 | 41 | 41 | 41 | 47 | 46 | 33 | 34 | 39 | 35 | 35 | 495 |
| | Measured Returns | 51 | 50 | 40 | 41 | 40 | 47 | 45 | 32 | 34 | 38 | 34 | 34 | 486 |
| | Unmeasured Returns | 0 | 0 1 | 0 | 0 | 0 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Desille Oceat Building Bundants | Consumptive Use | ļ. | | | U | 1 | U | 1 | | U | 1 | 1 | 1 | 9 |
| Pacific Coast Building Products | Diversion | 77 | 60 | 70 | 77 | 0.1 | 00 | 90 | 70 | 66 | 71 | G.E. | 00 | 014 |
| Pumped from Lake Mead | Diversion Measured Returns | 77 0 | 68 0 | 78 0 | 77 0 | 81 0 | 99 0 | 80 0 | 70 0 | 66 0 | 71 0 | 65 0 | 82 0 | 914 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 77 | 68 | 78 | 77 | 81 | 99 | 80 | 70 | 66 | 71 | 65 | 82 | 914 |
| Las Vegas Wash Return Flow | Returns ¹ | 19,887 | 17,791 | 19,698 | 18,329 | 17,923 | 16,836 | 18,228 | 19,161 | 18,532 | 18,800 | 18,312 | 19,271 | 222,768 |
| Lake Mead National Recreation Area National Park Service | | | | | | | | | | | | | | |
| Pumped from Lake Mohave - Cottonwood Cove | Diversion | 10 | 9 | 11 | 11 | 12 | 15 | 17 | 15 | 13 | 13 | 12 | 13 | 151 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 10 | 9 | 11 | 11 | 12 | 15 | 17 | 15 | 13 | 13 | 12 | 13 | 151 |
| Big Bend Water District | | | | | | | | | | | | | | |
| Pumped from river | Diversion | 255 | 247 | 300 | 322 | 359 | 393 | 462 | 413 | 377 | 368 | 287 | 260 | 4,043 |
| | Measured Returns | 150 | 132 | 161 | 163 | 172 | 180 | 222 | 201 | 184 | 175 | 158 | 137 | 2,035 |
| | Unmeasured Returns | 0 | 0 | 130 | 0 150 | 0 | 0 | 0 | 0 | 0 | 103 | 120 | 0 | 2 009 |
| CNIMA Dig Dand Concernation Avec | Consumptive Use | 105 | 115 | 139 | 159 | 187 | 213 | 240 | 212 | 193 | 193 | 129 | 123 | 2,008 |
| SNWA - Big Bend Conservation Area Pumped from wells | Diversion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| i umped itotti wella | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6. State of Nevada - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|---------------------------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Fort Mojave Indian Reservation | | | | | | | | | | | | | | |
| Pumped from river for agriculture use | Diversion | 31 | 64 | 189 | 153 | 468 | 355 | 477 | 521 | 202 | 109 | 97 | 0 | 2,666 |
| Pumped from wells for domestic use | Diversion | 64 | 86 | 135 | 155 | 151 | 293 | 205 | 271 | 144 | 208 | 146 | 119 | 1,977 |
| | Measured Returns | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Unmeasured Returns | 31 | 50 | 107 | 102 | 204 | 214 | 225 | 261 | 114 | 105 | 80 | 39 | 1,532 |
| | Consumptive Use | 64 | 100 | 217 | 206 | 415 | 434 | 457 | 531 | 232 | 212 | 163 | 80 | 3,111 |
| Nevada Totals | | | | | | | | | | | | | | |
| | Diversion | 27,633 | 25,446 | 35,916 | 38,744 | 47,661 | 46,449 | 50,257 | 48,286 | 40,476 | 42,955 | 34,684 | 31,764 | 470,271 |
| | Measured Returns | 20,090 | 17,975 | 19,901 | 18,535 | 18,137 | 17,065 | 18,497 | 19,397 | 18,752 | 19,015 | 18,506 | 19,444 | 225,314 |
| | Unmeasured Returns | 31 | 50 | 107 | 102 | 204 | 214 | 225 | 261 | 114 | 105 | 80 | 39 | 1,532 |
| | Consumptive Use | 7,512 | 7,421 | 15,908 | 20,107 | 29,320 | 29,170 | 31,535 | 28,628 | 21,610 | 23,835 | 16,098 | 12,281 | 243,425 |

| Nevada Colorado River Storage in Local Aquifer ² | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|---|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| Las Vegas Valley Water District | BOY Balance | | | | | | | | | | | | | 347,784 |
| | Injected | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Withdrawn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 255 | 138 | 106 | 582 |
| | EOY Balance | | | | | | | | | | | | | 347,202 |
| City of North Las Vegas | BOY Balance | | | | | | | | | | | | | 11,843 |
| | Injected | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Withdrawn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | EOY Balance | | | | | | | | | | | | | 11,843 |
| Total | BOY Cumulative Injected Storag | ge | | | | | | | | | | | | 359,627 |
| | Total Current Year Injection | | | | | | | | | | | | | 0 |
| | Total Current Year Withdrawals | | | | | | | | | | | | | 582 |
| | EOY Cumulative Injected Storag | ge | | | | | | | | | | | | 359,045 |

Footnotes

¹ Estimated return based on historic use method adopted by the Task Force on Unmeasured Return Flows on August 28, 1984, and revised as noted in the Reclamation letter to SNWA and CRCN dated December 5, 2007 (included in the Significant Documents).

² Colorado River water injected into groundwater storage is accounted for as a consumptive use in the year in which it is diverted from the Colorado River. It will not be accounted for as a consumptive use in the year in which it is withdrawn from storage, but because it originated as Colorado River water it will be accounted for as a return flow credit in the year in which it returns to the Colorado River.

ARTICLE V(C): RECORDS FOR THE DISPOSITION OF WATER ORDERED BUT NOT DIVERTED

In accordance with Article V(C) of the Consolidated Decree, Tables 7 and 8 document records of releases of mainstream water pursuant to orders therefor but not diverted by the party ordering the same, and the quantity of such water delivered to Mexico in satisfaction of the 1944 Mexican Water Treaty (Treaty) or diverted by others in satisfaction of decreed rights.

In addition to the requirements of the Decree, the tabulations provided herewith also document quantities of such water passing to Mexico in excess of Treaty requirements and quantities captured in storage.

Water ordered but not diverted is the difference between the approved daily order and the mean daily delivery on the day the diversion was made. Daily orders are provided to Reclamation in advance of the delivery date by the amount of time required for water to travel between the storage location and the user's point of diversion from the mainstream.

To the extent possible, water ordered but not diverted was delivered to other diverters in satisfaction of their water rights. Any remaining water ordered but not diverted was distributed between delivery to storage, delivery to Mexico in satisfaction of Treaty requirements, and to Mexico in excess of Treaty requirements.

The water users listed in this tabulation are major water users from whom Reclamation receives a daily water order and, with the exception of CAP and MWD, are those that divert their water downstream of Parker Dam. Currently, no daily orders are received from water users in Nevada, therefore Reclamation has not created a tabulation for Nevada water users. In addition, the storage capacity of Lake Mead is large enough relative to Nevada's daily diversions from the reservoir that any water ordered but not diverted would be retained for future use and would not pass to Mexico in excess of Treaty requirements.

The "Passing to Mexico in Excess of Treaty" values displayed in this section of the report reflect the sum of the daily amounts of water passing to Mexico in excess of the daily Treaty amount, according to IBWC's schedule, resulting from water that had been ordered but not diverted. The "To Mexico in Excess of Treaty" values displayed in the Article V(D) section reflect all water under/over delivered to Mexico according to IBWC's schedule. The information provided in Article V(C) is unrelated to information provided in Article V(D) and comparisons between the tabulations should not be made.

Table 7. State of Arizona - Disposition of Water Ordered but not Diverted, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Central Arizona Project - Diversion at Lake Havasu | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 10,472 | 467 | 638 | 7,348 | 5,893 | 767 | 669 | 1,657 | 3,530 | 1,187 | 216 | 4,602 | 37,446 |
| Delivered to Mexico in Satisfaction of Treaty | | | | | | | | | | | | | |
| Diverted by Others | | | | | | | | | | | | | |
| Delivered to Storage ² | 10,472 | 467 | 638 | 7,348 | 5,893 | 767 | 669 | 1,657 | 3,530 | 1,187 | 216 | 4,602 | 37,446 |
| Passing to Mexico in Excess of Treaty | | | | | | | | | | | | | |
| Colorado River Indian Reservation - Diversion at Headgate Rock Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 5,720 | 1,287 | 2,575 | 3,606 | 4,503 | 4,318 | 3,146 | 6,244 | 4,677 | 3,001 | 1,488 | 3,477 | 44,042 |
| Delivered to Mexico in Satisfaction of Treaty | 3,007 | 455 | 588 | 1,087 | 1,674 | 1,137 | 971 | 2,377 | 1,485 | 1,040 | 823 | 1,206 | 15,850 |
| Diverted by Others | 1,899 | 472 | 1,730 | 2,063 | 1,889 | 2,259 | 1,673 | 2,923 | 1,482 | 1,474 | 452 | 1,580 | 19,896 |
| Delivered to Storage ³ | 811 | 357 | 219 | 403 | 765 | 831 | 474 | 840 | 251 | 441 | 192 | 665 | 6,249 |
| Passing to Mexico in Excess of Treaty | 3 | 3 | 37 | 53 | 174 | 91 | 27 | 104 | 1,459 | 46 | 21 | 26 | 2,044 |
| North Gila Valley Irrigation District - Diversion at Imperial Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 310 | 202 | 270 | 308 | 382 | 183 | 396 | 387 | 614 | 233 | 410 | 272 | 3,967 |
| Delivered to Mexico in Satisfaction of Treaty | 98 | 93 | 57 | 91 | 178 | 39 | 123 | 177 | 63 | 53 | 226 | 149 | 1,347 |
| Diverted by Others | 158 | 51 | 132 | 157 | 158 | 66 | 143 | 182 | 468 | 144 | 142 | 78 | 1,879 |
| Delivered to Storage ³ | 17 | 55 | 77 | 59 | 27 | 70 | 122 | 22 | 77 | 22 | 36 | 42 | 625 |
| Passing to Mexico in Excess of Treaty | 37 | 3 | 4 | 2 | 19 | 8 | 8 | 7 | 6 | 14 | 8 | 3 | 119 |
| Gila Monster Farms - Diversion at Imperial Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 301 | 474 | 258 | 184 | 136 | 181 | 254 | 294 | 592 | 169 | 210 | 337 | 3,390 |
| Delivered to Mexico in Satisfaction of Treaty | 115 | 167 | 26 | 81 | 34 | 29 | 85 | 102 | 119 | 47 | 137 | 180 | 1,122 |
| Diverted by Others | 154 | 214 | 148 | 98 | 63 | 106 | 117 | 136 | 362 | 93 | 41 | 104 | 1,636 |
| Delivered to Storage ³ | 8 | 86 | 80 | 3 | 30 | 46 | 51 | 48 | 34 | 27 | 26 | 48 | 490 |
| Passing to Mexico in Excess of Treaty | 24 | 7 | 5 | 2 | 8 | 0 | 1 | 7 | 77 | 3 | 5 | 5 | 144 |
| Wellton-Mohawk I.D.D Diversion at Imperial Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 3,249 | 2,243 | 1,314 | 808 | 1,951 | 1,171 | 1,469 | 1,150 | 1,980 | 458 | 2,580 | 489 | 18,862 |
| Delivered to Mexico in Satisfaction of Treaty | 832 | 1,449 | 366 | 391 | 781 | 316 | 296 | 335 | 305 | 92 | 1,202 | 62 | 6,427 |
| Diverted by Others | 2,093 | 272 | 649 | 358 | 779 | 431 | 681 | 353 | 732 | 261 | 1,206 | 375 | 8,190 |
| Delivered to Storage ³ | 16 | 455 | 214 | 25 | 350 | 406 | 488 | 444 | 109 | 68 | 112 | 48 | 2,735 |
| Passing to Mexico in Excess of Treaty | 307 | 66 | 85 | 34 | 40 | 19 | 5 | 19 | 834 | 37 | 60 | 4 | 1,510 |
| Yuma Irrigation District - Diversion at Imperial Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 330 | 333 | 228 | 161 | 179 | 346 | 158 | 90 | 146 | 157 | 255 | 82 | 2,465 |
| Delivered to Mexico in Satisfaction of Treaty | 140 | 110 | 14 | 91 | 105 | 31 | 113 | 40 | 22 | 56 | 91 | 12 | 825 |
| Diverted by Others | 135 | 158 | 154 | 55 | 45 | 155 | 33 | 41 | 67 | 80 | 137 | 66 | 1,126 |
| Delivered to Storage ³ | 28 | 63 | 43 | 12 | 27 | 148 | 12 | 8 | 19 | 17 | 21 | 4 | 402 |
| Passing to Mexico in Excess of Treaty | 27 | 1 | 18 | 3 | 2 | 12 | 0 | 1 | 37 | 4 | 7 | 0 | 112 |
| Yuma Mesa I.D.D Diversion at Imperial Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 1,401 | 1,414 | 2,143 | 1,151 | 1,497 | 1,710 | 1,293 | 1,396 | 1,855 | 1,996 | 2,111 | 1,418 | 19,385 |
| Delivered to Mexico in Satisfaction of Treaty | 259 | 562 | 842 | 540 | 882 | 440 | 533 | 536 | 797 | 709 | 1,034 | 925 | 8,059 |
| Diverted by Others | 991 | 611 | 1,016 | 449 | 359 | 743 | 435 | 636 | 763 | 804 | 1,017 | 366 | 8,190 |
| Delivered to Storage ³ | 6 | 224 | 268 | 145 | 174 | 508 | 320 | 206 | 151 | 433 | 52 | 104 | 2,591 |
| Passing to Mexico in Excess of Treaty | 146 | 17 | 18 | 16 | 83 | 19 | 5 | 18 | 143 | 50 | 9 | 23 | 547 |

Table 7. State of Arizona - Disposition of Water Ordered but not Diverted, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|--|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|---------|
| Unit "B" I.D.D Diversion at Imperial Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 509 | 691 | 1,262 | 560 | 794 | 293 | 218 | 460 | 957 | 692 | 930 | 902 | 8,268 |
| Delivered to Mexico in Satisfaction of Treaty | 274 | 306 | 266 | 317 | 315 | 43 | 68 | 196 | 295 | 223 | 499 | 502 | 3,304 |
| Diverted by Others | 193 | 315 | 802 | 190 | 314 | 151 | 103 | 189 | 490 | 333 | 360 | 319 | 3,759 |
| Delivered to Storage ³ | 25 | 56 | 146 | 44 | 118 | 98 | 47 | 49 | 72 | 113 | 45 | 69 | 882 |
| Passing to Mexico in Excess of Treaty | 17 | 15 | 48 | 9 | 46 | 2 | 0 | 26 | 100 | 22 | 26 | 11 | 322 |
| Yuma County Water Users' Association - Diversion at Imperial Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 753 | 3,033 | 1,036 | 949 | 3,983 | 1,700 | 1,895 | 2,679 | 2,021 | 2,198 | 3,259 | 3,258 | 26,764 |
| Delivered to Mexico in Satisfaction of Treaty | 294 | 1,369 | 361 | 311 | 1,653 | 487 | 967 | 618 | 316 | 581 | 1,781 | 1,364 | 10,102 |
| Diverted by Others | 365 | 948 | 421 | 258 | 1,511 | 608 | 499 | 1,573 | 850 | 1,295 | 1,036 | 1,159 | 10,523 |
| Delivered to Storage ³ | 72 | 626 | 67 | 372 | 663 | 578 | 415 | 417 | 334 | 254 | 399 | 698 | 4,896 |
| Passing to Mexico in Excess of Treaty | 22 | 90 | 187 | 7 | 157 | 28 | 14 | 70 | 521 | 68 | 42 | 37 | 1,243 |
| Arizona Totals | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 23,045 | 10,144 | 9,724 | 15,075 | 19,318 | 10,669 | 9,498 | 14,357 | 16,372 | 10,091 | 11,459 | 14,837 | 164,589 |
| Delivered to Mexico in Satisfaction of Treaty | 5,019 | 4,511 | 2,520 | 2,909 | 5,622 | 2,522 | 3,156 | 4,381 | 3,402 | 2,801 | 5,793 | 4,400 | 47,036 |
| Diverted by Others | 5,988 | 3,041 | 5,052 | 3,628 | 5,118 | 4,519 | 3,684 | 6,033 | 5,214 | 4,484 | 4,391 | 4,047 | 55,199 |
| Delivered to Storage ^{2,3} | 11,457 | 2,390 | 1,752 | 8,412 | 8,048 | 3,451 | 2,599 | 3,691 | 4,578 | 2,560 | 1,099 | 6,279 | 56,315 |
| Passing to Mexico in Excess of Treaty | 583 | 202 | 402 | 126 | 529 | 179 | 60 | 252 | 3,177 | 244 | 178 | 109 | 6,041 |

¹ Due to converting daily cfs values to monthly AF totals and rounding to the nearest whole number, the sum of the disposition of water volumes may not equal the Ordered but not Diverted volume.

² Water not diverted by the Central Arizona Project remains in Lake Havasu.

³ Delivered to temporary storage in Senator Wash and Brock Reservoirs.

Table 8. State of California - Disposition of Water Ordered but not Diverted, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| The Metropolitan Water District of Southern California - | | | | | | | | | | | | | |
| Diversion at Lake Havasu | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 1,635 | 0 | 3,578 | 330 | 967 | 427 | 10 | 1,176 | 43 | 1,696 | 3,464 | 2,862 | 16,188 |
| Delivered to Mexico in Satisfaction of Treaty | | | | | | | | | | | | | |
| Diverted by Others | | | | | | | | | | | | | |
| Delivered to Storage ² | 1,635 | 0 | 3,578 | 330 | 967 | 427 | 10 | 1,176 | 43 | 1,696 | 3,464 | 2,862 | 16,188 |
| Passing to Mexico in Excess of Treaty | | | | | | | | | | | | | |
| Palo Verde Irrigation District - Diversion at Palo Verde Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 440 | 797 | 1,392 | 899 | 1,039 | 1,260 | 873 | 912 | 524 | 559 | 315 | 361 | 9,371 |
| Delivered to Mexico in Satisfaction of Treaty | 71 | 215 | 109 | 331 | 266 | 224 | 524 | 381 | 123 | 256 | 163 | 175 | 2,838 |
| Diverted by Others | 346 | 326 | 887 | 373 | 597 | 757 | 243 | 353 | 373 | 177 | 65 | 81 | 4,578 |
| Delivered to Storage ³ | 8 | 250 | 296 | 184 | 151 | 273 | 93 | 149 | 9 | 124 | 87 | 95 | 1,719 |
| Passing to Mexico in Excess of Treaty | 15 | 5 | 101 | 11 | 26 | 5 | 13 | 30 | 19 | 3 | 0 | 10 | 238 |
| Yuma Project Reservation Division - Diversion at Imperial Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 5,314 | 3,966 | 1,161 | 1,240 | 4,894 | 1,010 | 2,175 | 695 | 1,718 | 2,893 | 7,351 | 6,167 | 38,584 |
| Delivered to Mexico in Satisfaction of Treaty | 1,809 | 1,254 | 256 | 493 | 1,817 | 375 | 922 | 280 | 246 | 937 | 3,738 | 2,624 | 14,751 |
| Diverted by Others | 3,008 | 1,788 | 554 | 581 | 2,356 | 333 | 870 | 297 | 1,122 | 1,428 | 2,505 | 2,388 | 17,230 |
| Delivered to Storage ³ | 253 | 869 | 286 | 157 | 607 | 284 | 359 | 114 | 175 | 432 | 991 | 1,074 | 5,599 |
| Passing to Mexico in Excess of Treaty | 244 | 55 | 64 | 10 | 115 | 17 | 24 | 5 | 176 | 96 | 117 | 82 | 1,005 |
| Imperial Irrigation District - Diversion at Imperial Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 14,567 | 24,577 | 29,244 | 28,975 | 24,664 | 17,148 | 20,587 | 17,359 | 9,092 | 10,353 | 19,168 | 20,939 | 236,673 |
| Delivered to Mexico in Satisfaction of Treaty | 8,215 | 12,184 | 14,164 | 13,241 | 15,428 | 7,411 | 11,087 | 8,568 | 2,445 | 4,156 | 14,008 | 13,521 | 124,428 |
| Diverted by Others | 5,178 | 6,226 | 9,398 | 10,890 | 4,307 | 5,357 | 6,692 | 4,737 | 2,094 | 4,103 | 2,800 | 5,185 | 66,967 |
| Delivered to Storage ³ | 625 | 5,693 | 4,122 | 4,354 | 3,156 | 3,950 | 2,541 | 3,634 | 1,590 | 1,938 | 1,954 | 1,949 | 35,506 |
| Passing to Mexico in Excess of Treaty | 549 | 475 | 1,560 | 490 | 1,773 | 429 | 267 | 421 | 2,963 | 156 | 405 | 284 | 9,772 |
| Coachella Valley Water District - Diversion at Imperial Dam | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 1,266 | 661 | 464 | 470 | 1,873 | 2,289 | 3,211 | 3,284 | 4,792 | 886 | 1,367 | 2,024 | 22,587 |
| Delivered to Mexico in Satisfaction of Treaty | 649 | 359 | 67 | 174 | 682 | 469 | 970 | 1,213 | 1,011 | 206 | 907 | 678 | 7,385 |
| Diverted by Others | 400 | 184 | 288 | 187 | 949 | 1,134 | 1,547 | 1,117 | 2,045 | 363 | 300 | 1,051 | 9,565 |
| Delivered to Storage ³ | 184 | 100 | 109 | 98 | 211 | 628 | 674 | 867 | 333 | 236 | 142 | 282 | 3,866 |
| Passing to Mexico in Excess of Treaty | 32 | 19 | 1 | 10 | 30 | 58 | 21 | 87 | 1,403 | 80 | 19 | 14 | 1,774 |
| California Totals | | | | | | | | | | | | | |
| Ordered but not Diverted ¹ | 23.222 | 30,002 | 35,841 | 31,914 | 33,437 | 22,132 | 26,856 | 23,429 | 16,170 | 16,387 | 31,665 | 32,356 | 323,403 |
| Delivered to Mexico in Satisfaction of Treaty | 10,744 | 14,012 | 14,596 | 14,239 | 18,193 | 8,479 | 13,503 | 10,442 | 3,825 | 5,555 | 18,816 | 16,998 | 149,402 |
| Diverted by Others | 8,932 | 8,524 | 11,127 | 12,031 | 8,209 | 7,581 | 9,352 | 6,504 | 5,634 | 6,071 | 5,670 | 8,705 | 98,340 |
| Delivered to Storage ^{2,3} | 2,706 | 6,912 | 8,392 | 5,123 | 5,091 | 5,563 | 3,676 | 5,940 | 2,150 | 4,426 | 6,638 | 6,263 | 62,878 |
| Passing to Mexico in Excess of Treaty | 840 | 554 | 1,726 | 521 | 1,944 | 509 | 325 | 543 | 4,561 | 335 | 541 | 390 | 12,789 |

¹ Due to converting daily cfs values to monthly AF totals and rounding to the nearest whole number, the sum of the disposition of water volumes may not equal the Ordered but not Diverted volume.

Water not diverted by The Metropolitan Water District of Southern California remains in Lake Havasu.
 Delivered to temporary storage in Senator Wash and Brock Reservoirs.

ARTICLE V(D): RECORDS OF DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF THE 1944 TREATY REQUIREMENTS AND WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS

In accordance with Article V(D) of the Consolidated Decree, Table 9 documents the records of deliveries to Mexico of water in satisfaction of the obligations of Part III of the "Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande" (1944 Mexican Water Treaty (Treaty)), signed February 3, 1944 and water passing to Mexico in excess of Treaty requirements. The tabulations, based upon records furnished by the U.S. Section of the IBWC, show the quantities of water delivered to Mexico at the Northerly International Boundary, the Southerly International Boundary, the Limitrophe, and emergency deliveries to Tijuana (as applicable), pursuant to Articles 10 and 15 of the 1944 Mexican Water Treaty and related Minutes of the IBWC; and the quantities of water passing to Mexico in excess of Treaty requirements.

Minutes incorporated into the tabulations include:

1) Minute No. 242 – Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River, signed August 30, 1973.

- 2) Minute No. 318 Adjustment of Delivery Schedules for Water Allotted to Mexico for the Years 2010 through 2013 as a Result of Infrastructure Damage in Irrigation District 014, Rio Colorado, Caused by the April 2010 Earthquake in the Mexicali Valley, Baja California, signed December 17, 2010.
- 3) Minute No. 319 Interim International Cooperative Measures in the Colorado River Basin Through 2017 and Extension of Minute 318 Cooperative Measures to Address the Continued Effects of the April 2010 Earthquake in the Mexicali Valley, Baja California, signed November 20, 2012.
- 4) Minute No. 322 Extension of the Temporary Emergency Delivery of Colorado River Water for Use in Tijuana, Baja California, signed January 19, 2017.
- 5) Minute No. 323 Extension of Cooperative Measures and Adoption of a Binational Water Scarcity Contingency Plan in the Colorado River Basin, signed September 21, 2017.

Table 9. Deliveries to Mexico in Satisfaction of Part III of the 1944 Mexican Water Treaty, and Water Passing to Mexico in Excess of Treaty Requirements, Calendar Year 2017. (Values are in acre-feet.)

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|---------|-----------|
| Colorado River at the Northerly International Boundary ¹ | 115,253 | 148,650 | 190,803 | 169,244 | 99,745 | 115,925 | 120,191 | 91,780 | 93,454 | 53,823 | 86,758 | 96,431 | 1,382,057 |
| Deliveries to Mexico in Satisfaction of Treaty Requirements | | | | | | | | | | | | | |
| Delivery at the Limitrophe ² | 348 | 295 | 399 | 165 | 198 | 111 | 240 | 88 | 767 | 604 | 226 | 339 | 3,781 |
| Delivery at Southerly International Boundary | 10,647 | 11,082 | 11,766 | 11,463 | 10,584 | 9,793 | 10,134 | 10,343 | 9,552 | 11,035 | 12,026 | 12,131 | 130,554 |
| Diversion Channel Discharge ³ | | 0 | 3 | 63 | 139 | 67 | 1 | 13 | 10 | | | | 296 |
| Delivery to Mexico at the Northerly International Boundary 4 | 109,833 | 148,466 | 190,564 | 169,026 | 98,735 | 115,690 | 119,909 | 91,612 | 85,283 | 53,503 | 86,512 | 96,235 | 1,365,369 |
| Total Deliveries to Mexico in Satisfaction of Treaty Requirements | 120,828 | 159,843 | 202,732 | 180,717 | 109,656 | 125,661 | 130,284 | 102,056 | 95,612 | 65,142 | 98,764 | 108,705 | 1,500,000 |
| Creation of Water for Mexico's Water Reserve ⁵ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total to Mexico in Satisfaction of Treaty Requirements | 120,828 | 159,843 | 202,732 | 180,717 | 109,656 | 125,661 | 130,284 | 102,056 | 95,612 | 65,142 | 98,764 | 108,705 | 1,500,000 |
| Delivery of Mexico's Water Reserve | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| To Mexico in Excess of Treaty ⁶ | 5,420 | 183 | 240 | 217 | 1,010 | 235 | 281 | 168 | 8,172 | 319 | 246 | 195 | 16,688 |
| Accountable Deliveries to Mexico 7 | 126,248 | 160,026 | 202,972 | 180,934 | 110,666 | 125,896 | 130,565 | 102,224 | 103,784 | 65,461 | 99,010 | 108,900 | 1,516,688 |
| Water Bypassed Pursuant to IBWC Minute No. 242 | 5,693 | 9,030 | 10,698 | 11,671 | 15,308 | 11,847 | 9,773 | 10,567 | 10,598 | 9,580 | 15,132 | 6,805 | 126,701 |
| Water Provided to the U.S. Pursuant to Section III.6.e.iii of IBWC Minute No. 319 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124,000 | 124,000 |
| Mexico's Water Reserve ⁵ | | | | | | | | | | | | | |
| BOY Balance | | | | | | | | | | | | | 223,612 |
| Creation | | | | | | | | | | | | | 0 |
| Delivery | | | | | | | | | | | | | 0 |
| Water Provided to the United States Pursuant to Section III.6.e.iii of Minute No. 319 Evaporation ⁸ | | | | | | | | | | | | | (124,000) |
| ' · | | | | | | | | | | | | | (2,988) |
| EOY Cumulative Balance Available for Future Delivery ⁹ | | | | | | | | | | | | | 96,624 |

Note: Annual totals may differ from the sum of the displayed monthly values due to rounding and conversion from TCM to AF.

Footnotes:

¹ Flow in the river at the NIB as reported by IBWC as delivery to Mexico.

² Wasteway deliveries to the river limitrophe via the Cooper, 11 Mile, and 21 Mile lateral wasteways in satisfaction of the 1944 Treaty requirements.

³ The Diversion Channel delivers water from the SIB confluence structure to the river or to the Bypass Drain. Consistent with a 2001 Memorandum of Understanding between Reclamation and the U.S. Section of the IBWC, during the months of January and October through December water was discharged to the Bypass Drain. During the months of February through September water was discharged to the Colorado River and was charged to the Treaty.

⁴ That portion of the flows at NIB necessary to meet the 1.5 MAF Treaty obligation.

⁵ Includes water deferred by Mexico pursuant to IBWC Minute Nos. 319 and 323. Pursuant to IBWC Minute No. 323, Mexico's Water Reserve includes Emergency Storage, Revolving Account, and Intentionally Created Mexican Allocation.

⁶ Water passing to Mexico in excess of Mexico's daily schedule. Calculated as the sum of daily differences between actual flows to Mexico and Mexico's total schedule.

⁷ Mexico's total water delivery. This value includes deliveries made in satisfaction of Treaty requirements in accordance with Mexico's scheduled diversions (including any water delivered pursuant to IBWC Minute Nos. 319 and 323) and water passing to Mexico in excess of Mexico's daily schedule. It does not include water bypassed pursuant to IBWC Minute No. 242.

⁸ In accordance with IBWC Minute Nos. 319 and 323, a 3 percent reduction for evaporation is applied annually on December 31 to Mexico's Water Reserve, beginning in the year of creation.

⁹ The cumulative volume of water deferred by Mexico (Mexico's Water Reserve) pursuant to Minute Nos. 319 and 323; includes water created during the reporting year and the prior year EOY balance, less deliveries made during the reporting year and the annual evaporation assessment.

ARTICLE V(E): RECORDS OF DIVERSIONS AND CONSUMPTIVE USE OF WATER FROM THE MAINSTREAM OF THE GILA AND SAN FRANCISCO RIVERS FOR THE BENEFIT OF THE GILA NATIONAL FOREST

Table 10. Diversions and Consumptive Use for the Benefit of the Gila National Forest, Calendar Year 2017. (Values are in acre-feet.)

| | • | | | | | · · | | | (14.400 | are ili ac | | | | |
|---------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|---------|------------|-----|-----|-----|-------|
| WATER SOURCE | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTAL |
| Gila River | Diversion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| San Francisco River | Diversion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Consumptive Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | Total Diversion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Total Consumptive Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

¹These data are provided annually by the New Mexico Interstate Stream Commission.

INFORMATION PROVIDED IN ADDITION TO THE REPORTING REQUIREMENTS OF THE CONSOLIDATED DECREE

The information contained in the following sections of this report is supplemental to the records required by Article V of the Consolidated Decree of the United States Supreme Court in Arizona v. California, 547 U.S. 150 (2006). This information provides a more extensive record of activities relating to federal management of the Colorado River. In concise tabulations specific to various agreements, policies, rules, or Records of Decision, this information is intended to help the reader correlate the records found in the Article V portion of this report with the various conservation, transfer, and exchange agreements. The penultimate section contains a list of documents significant to the actions taken by Reclamation, the Lower Division States, and the water user agencies for the calendar year documented in this report. The final section of this report contains a series of maps showing the general location of the water users tabulated in this report.

SUMMARY OF WATER AVAILABILITY AND USE BY STATE

The Secretary of the Interior (Secretary) makes Colorado River water available to the Lower Division States in accordance with Article II of the Consolidated Decree.

Under Article II, the Secretary apportions water to the states under shortage, normal, or surplus conditions, and, in accordance with Article II(B)6, may release to a state water which was apportioned to but unused by another state.

The amount of Colorado River water available for use in a state is impacted by various agreements and policies. Examples of these agreements and policies include storage and interstate release agreements, the Colorado River Water Delivery Agreement (CRWDA), the Inadvertent Overrun and Payback Policy (IOPP), and the Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations for Lake Powell and Lake Mead (2007 Interim Guidelines), specifically, Intentionally Created Surplus (ICS).

Table 11 documents the amount of Colorado River water made available to each Lower Division State under Article II of the Consolidated Decree, water released pursuant to Article II(B)(6) of the Consolidated Decree, paybacks made by users within the state in accordance with IOPP, creation or delivery of ICS, and the total consumptive use within a state. In those years when a given program shows activity a line will be included within the table denoting the activity and the volume of water involved. Otherwise, the line is omitted.

The table demonstrates whether the consumptive use results in an underrun or overrun of the amount of Colorado River water available to each Lower Division State for the calendar year covered by this report.

Table 11. Apportionments, Article II(B)(6) Releases, Paybacks, and Total Consumptive Use by State, Calendar Year 2017. (Values are in acre-feet.)

| STATE | ADJUSTMENTS | ACTUAL USE |
|------------|--|------------|
| Arizona | Basic Apportionment ¹ | 2,800,000 |
| | System Conservation Water - Pilot System Conservation Program ² | (18,692) |
| | System Conservation Water - Drought Response ³ | (80,000) |
| | Total Available Colorado River Water ⁴ | 2,701,308 |
| | Total Consumptive Use 5 | 2,509,503 |
| | State Underrun or (Overrun) | 191,805 |
| | Unused AZ Apportionment Left in Lake Mead ⁶ | (191,805) |
| | Net State Underrun or (Overrun) | 0 |
| California | Basic Apportionment ¹ | 4,400,000 |
| | ICS Creation (MWD) 7 | (315,649) |
| | ICS Creation (IID) 7 | (21,983) |
| | Excess IID Conservation ⁸ | (35,399) |
| | System Conservation Water - Pilot System Conservation Program ² | (298) |
| | Total Available Colorado River Water ⁴ | 4,026,671 |
| | Total Consumptive Use ⁵ | 4,026,515 |
| | State Underrun or (Overrun) | 156 |
| | Under-delivery to the Salton Sea for Mitigation Purposes 9 | (156) |
| | Net State Underrun or (Overrun) | 0 |
| Nevada | Basic Apportionment ¹ | 300,000 |
| | Total Available Colorado River Water ⁴ | 300,000 |
| | Total Consumptive Use ⁵ | 243,425 |
| | State Underrun or (Overrun) | 56,575 |
| | Unused NV Apportionment Left in Lake Mead ¹⁰ | (56,575) |
| | Net State Underrun or (Overrun) | 0 |

Footnotes continued on following page.

¹ The state basic apportionment as described in Article II(B)(1) of the Consolidated Decree.

² The aggregate amount of water conserved in each state, in 2017, pursuant to individual System Conservation Implementation Agreements (SCIA) between Reclamation and water users participating in the Pilot System Conservation Program (PSCP). In accordance with the SCIAs, this System Conservation Water remained in Lake Mead to benefit system storage. For additional details, see Tables 17, 18, and 19.

³ In 2017, Reclamation and the Gila River Indian Community (Community) entered into SCIA No. 17-XX-30-W0620, as was amended under Agreement No. 17-XX-30-W0623, in which the Community agreed to forego delivery of 80,000 AF of its CAP water entitlement in 2017. In accordance with the SCIA and Letter Agreement Nos. 17-XX-30-W0621 and 17-XX-30-W0624 between Reclamation and CAWCD, this water remained in Lake Mead to benefit system storage. This pilot project exhibited the need to develop a baseline for future conservation agreements.

 $^{^{4}}$ The total amount of Colorado River water available for use by the state during the reporting year.

⁵ The total consumptive use of Colorado River water within the state as tabulated in the Article V(B) section of this report.

Table 11 Footnotes: Continued from previous page.

⁶ By letter dated June 28, 2017, CAWCD notified Reclamation of its intent to adjust its diversions of unused Arizona basic apportionment in 2017 to effect a voluntarily contribution to Lake Mead. The volume of 191,805 AF remained in Lake Mead to benefit system storage.

⁷ The amount of ICS created by the water user during the reporting year. Unless otherwise noted, ICS values displayed are provisional until verified by Reclamation.

⁸ In 2017, IID conserved 80,937 AF of water in excess of its CRWDA water transfer obligations. Provisional data indicate that 21,983 AF were stored in Lake Mead by IID as Extraordinary Conservation ICS, 23,555 AF were delivered to MWD pursuant to the *California Agreement for the Creation and Delivery of Extraordinary Conservation Intentionally Created Surplus*, as amended, resulting in 35,399 AF of excess conservation. IID and MWD propose to credit this excess conservation to MWD's ICS account through the application of Section XI.G.3.B.8 of the 2007 Interim Guidelines, subject to Section XI.G.7.B.5. This proposal is currently under review. All ICS values are provisional until verified by Reclamation.

⁹ In 2017, IID conserved 105,311 AF for Salton Sea mitigation purposes, but, due to measurement imprecision and operational/infrastructure limitations, only delivered 105,155 AF to the Salton Sea, resulting in a 156 AF under-delivery. To fulfill its 2017 mitigation requirement, IID plans to deliver 156 AF of conserved water to the Salton Sea in 2018.

¹⁰ Colorado River water apportioned to, but not consumptively used by, Nevada in 2017. By letter dated October 23, 2017, SNWA notified Reclamation that it anticipated having unused Nevada basic apportionment available for offstream storage, and that, instead of moving the water offstream, SNWA would leave the water in Lake Mead to pilot a new ICS proposal. In accordance with the 2007 Interim Guidelines, creation of ICS is predicated upon the execution of an exhibit to the 2007 *Lower Colorado River Intentionally Created Surplus Forbearance Agreement* and a Delivery Agreement, and approval of an ICS Plan of Creation. As of the date of this report, these requirements have not been completed. Any ICS credited to SNWA from water stored in Lake Mead under this pilot project will be reflected in a future *Colorado River Accounting and Water Use Report*.

INTERSTATE WATER BANKING WITHIN THE STATES OF ARIZONA, CALIFORNIA, AND NEVADA

On November 1, 1999, the Secretary of the Interior adopted Federal regulations, codified at 43 CFR Part 414, establishing a procedural framework for carrying out an interstate water banking program. The rule provided for authorized parties to enter into agreements whereby Colorado River water may be stored off-stream in one state for future benefit of consuming entities in another state.

The primary mechanism through which these transactions may occur is a Storage and Interstate Release Agreement (SIRA), which permits authorized entities in the Lower Division States to store Colorado River water off-stream, develop intentionally created unused apportionment (ICUA) in a future year, and make the ICUA available to the Secretary for release for use in another Lower Division State. These SIRAs provide structure and guidance, in accordance with Article II(B)(6) of the Consolidated Decree, for the actions the Secretary will take in releasing Colorado River water to a specific entity in order to implement the interstate contractual distribution of water under the interstate water banking program.

Two SIRAs have been implemented under 43 CFR Part 414. The first SIRA was entered into on December 18, 2002, among Reclamation, on behalf of the Secretary, the Arizona Water Banking Authority (AWBA), the Southern Nevada Water Authority (SNWA), and the Colorado River Commission of Nevada (CRCN). This SIRA provides for the storage, by AWBA, of either the State of Arizona's basic or surplus apportionment or the State of Nevada's unused basic or surplus apportionment for the benefit of SNWA.

In 2001, AWBA, SNWA, and CRCN executed an Agreement for Interstate Water Banking, amended January 1, 2005, April 1, 2009, and May 20, 2013, specifying the interstate banking relationship among those parties. This agreement establishes the terms and conditions for the off-stream storage of Colorado River water in Arizona and the establishment of Long-Term Storage Credits (LTSC) for the benefit of SNWA.

Under the AWBA/SNWA/CRCN interstate banking agreement, Colorado River water diverted and banked in Arizona is accounted as consumptively used by Arizona in the year it is diverted and, as a result, LTSCs are created for SNWA. When LTSCs are recovered, SNWA will divert Colorado River water in exchange for the Central Arizona Water Conservation District's (CAWCD) use of the LTSCs pursuant to the SIRA. The Secretary will release ICUA created by AWBA, via CAWCDs forbearance to SNWA, in that same year pursuant to Article II(B)(6) of the Consolidated Decree. ICUA used by SNWA is in addition to Nevada's basic apportionment and is accounted as consumptive use of Colorado River water in Nevada for that year.

The second SIRA was entered into on October 27, 2004, among Reclamation, on behalf of the Secretary, the Metropolitan Water District of Southern California (MWD), SNWA, and CRCN. This SIRA provides for the storage, by MWD, of the State of Nevada's unused basic or surplus apportionment for the benefit of SNWA.

In 2004, MWD, SNWA, and CRCN, executed an Operational Agreement, amended August 2009, October 2012, and October 2015, specifying the interstate banking relationship among those parties, and providing the terms and conditions under which MWD will store Nevada unused basic apportionment for the benefit of SNWA. When SNWA requests delivery of this water, MWD will develop ICUA by reducing its diversion of Colorado River water. The ICUA developed by MWD through its reduced diversion of Colorado River water will be released by the Secretary for use by SNWA.

Table 12 documents the Accumulated Long Term Storage Credits (ALTSC) verified by AWBA and MWD, provisional LTSC accrued during the past year, LTSCs recovered during the past year, and ALTSC held for an entity with a SIRA.

Table 12. Colorado River Water Stored in one State Under 43 CFR Part 414 for the Benefit of Specific Entities in Another State (Interstate Water Banking), Calendar Year 2017. (Values are in acre-feet.)

| | BOY Balance | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTALS |
|--|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| NEVADA | | | | | | | | | | | | | | |
| Water diverted and stored in AZ by AWBA for the be | nefit of SNWA | ١ | | | | | | | | | | | | |
| Verified 2016 EOY ALTSC ¹ | 601,041 | | | | | | | | | | | | | |
| Accrued LTSC in 2017 ² | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Verified LTSC in 2017 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ICUA Developed in 2017 ³ | _ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total ALTSC ⁴ | · | 601,041 | 601,041 | 601,041 | 601,041 | 601,041 | 601,041 | 601,041 | 601,041 | 601,041 | 601,041 | 601,041 | 601,041 | 601,041 |
| Water diverted and stored in CA by MWD for the ben | efit of SNWA | | | | | | | | | | | | | |
| Verified 2016 EOY ALTSC 1,5 | 330,225 | | | | | | | | | | | | | |
| Diverted in 2017 ⁵ | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Verified LTSC in 2017 ⁵ | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ICUA Developed in 2017 3, 5 | _ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total ALTSC ⁵ | · | 330,225 | 330,225 | 330,225 | 330,225 | 330,225 | 330,225 | 330,225 | 330,225 | 330,225 | 330,225 | 330,225 | 330,225 | 330,225 |
| TOTAL | | | | | | | | | | | | | | |
| Water stored for the benefit of SNWA during the calend | dar year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cumulative Balance of Water Stored for SNWA within | AZ and CA ⁶ | 931,266 | 931,266 | 931,266 | 931,266 | 931,266 | 931,266 | 931,266 | 931,266 | 931,266 | 931,266 | 931,266 | 931,266 | 931,266 |

¹ ALTSCs are LTSCs verified by the banking entity before the beginning of the reporting year and available for recovery by a specific entity with a valid SIRA. The amount of ICUA developed cannot exceed verified LTSCs.

² Provisional LTSCs accrued during the reporting year for the benefit of a specific consuming entity in Nevada with a valid SIRA. Provisional LTSCs represent the amount of water diverted from the river and transported to the storage facility. Provisional LTSCs that have not been verified by AWBA or MWD are not eligible for certification and recovery. Accruals of LTSCs in Arizona for the benefit of consuming entities in Nevada and California are limited to 200,000 AF annually.

³ ICUA developed by AWBA or MWD during the reporting year. AWBA or MWD have certified this amount to be available and the Secretary has released it to a specific entity with a valid SIRA. The ALTSCs are certified by AWBA or MWD when ICUA is requested, and prior to its release by the Secretary. Total recovery of ALTSCs from AWBA cannot exceed 100,000 AF annually, due to a limitation defined under Arizona state law. When water is released from storage, Arizona or MWD will be required to reduce its consumptive use through the development of ICUA in an amount equal to Nevada's requested release. Nevada will be allowed to utilize the unused apportionment in an amount equal to the ICUA made available.

⁴ ALTSCs are the cumulative monthly sum of verified or estimated LTSCs.

⁵ In 2004, MWD, SNWA, and the Secretary entered into a SIRA to allow MWD to divert and store water for the benefit of SNWA. When storage occurs, it must be Nevada unused apportionment, which will require Nevada to reduce its consumptive use by an amount equal to the total storage. When water is released from storage, MWD will be required to reduce its consumptive use through the development of ICUA in an amount equal to Nevada's requested release and Nevada will be allowed to utilize the unused apportionment in an amount equal to the ICUA made available by MWD.

⁶ This cumulative balance includes both the BOY ALTSC balance as verified by AWBA and MWD and the verified LTSCs placed into storage during the reporting year.

INADVERTENT OVERRUNS AND PAYBACKS WITHIN THE STATES OF ARIZONA, CALIFORNIA, AND NEVADA

On October 10, 2003, the Secretary of the Interior executed the Colorado River Water Delivery Agreement authorizing the Inadvertent Overrun and Payback Policy (IOPP). The policy is set forth in the *Record of Decision, Colorado River Water Delivery Agreement, Implementation Agreement, Inadvertent Overrun and Payback Policy, and Related Federal Actions, Final Environmental Impact Statement, published in the Federal Register at 69 Fed. Reg. 12202 (March 15, 2004). Effective January 1, 2004, the IOPP, which applies only to Colorado River water users in the Lower Division States, defines inadvertent overruns, establishes procedures to account for inadvertent overruns, and sets forth the requirements for payback of inadvertent overruns to the Colorado River system.*

For various reasons, a user may inadvertently divert, pump or receive Colorado River water in an amount that exceeds that to which the user is entitled for that year pursuant to the user's water delivery contract, decreed water right, or Secretarial reservation (inadvertent overrun).

In accordance with the IOPP, paybacks are required to commence in the calendar year that immediately follows the release date of the final Water Accounting Report that reports the overrun. Section 2.6 of the IOPP sets forth the number of years within which an overrun must be paid back and the minimum payback required for each year. Overruns are not allowed in a year for which the Secretary has declared a Shortage condition.

The tabulations in Tables 13 through 15 document information associated with inadvertent overruns and paybacks, as applicable, for each individual water user, including:

- 1) The beginning-of-year overrun account balance.
- 2) The amount of overrun incurred in the reporting year.
- 3) The amount of validated paybacks made to the Colorado River system in the reporting year.
- 4) The end-of-year overrun balance.

Table 13. State of Arizona - Overruns, Paybacks, and Overrun Account Balances, Calendar Year 2017. (Values are in acre-feet.)

| WATER USER | DETAILS | ANNU. DIVERSION | AL TOTALS CONSUMPTIVE USE | APPROVAL | ENTITLEMENT |
|------------|---|--------------------|---------------------------|----------|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | tf | | | |
| ' | No overruns or paybacks occurred within the Sta | ie oi Anzona in in | e reporting year. | | |
| | | | | | |
| | | | | | |

Table 14. State of California - Overruns, Paybacks, and Overrun Account Balances, Calendar Year 2017. (Values are in acre-feet.)

| | | | AL TOTALS | | |
|------------|--|----------------------|--------------------|----------|-------------|
| WATER USER | DETAILS | DIVERSION | CONSUMPTIVE USE | APPROVAL | ENTITLEMENT |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | No overruns or paybacks occurred within the Stat | e of California in t | he reporting year. | | |
| | ne oronane er paybasile essairea willim ine ela | | no reperang year. | | |
| | | | | | |
| | | | | | |
| | | | | | |

Table 15. State of Nevada - Overruns, Paybacks, and Overrun Account Balances, Calendar Year 2017. (Values are in acre-feet.)

| | | ANNU | AL TOTALS | | |
|------------|---|---------------------|--------------------|----------|-------------|
| WATER USER | DETAILS | DIVERSION | CONSUMPTIVE USE | APPROVAL | ENTITLEMENT |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | No overruns or paybacks occurred within the S | tate of Nevada in t | ne reporting year. | | |
| | | | 3) | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

LOWER COLORADO WATER SUPPLY PROJECT

The Lower Colorado Water Supply Act (Act), Public Law 99-655, Nov. 14, 1986, authorized the Secretary of the Interior (Secretary) to construct, operate, and maintain the Lower Colorado Water Supply Project (LCWSP). Pursuant to the Act, the Secretary is authorized to enter into exchange contracts and contracts for the care, operation, and maintenance of all or any part of the project works, subject to such rules and regulations as the Secretary may prescribe. Reclamation assumed the care, operation, and maintenance of the LCWSP in 2013.

Any contracts executed by the Secretary to recover the costs of the LCWSP must be with persons, or Federal or non-Federal governmental entities whose lands or interests in lands are located adjacent to the Colorado River in the State of California who do not hold rights to Colorado River water or whose rights are insufficient to meet their present or anticipated future domestic, municipal, industrial, and recreational needs, as determined by the Secretary. Water for agricultural use is not authorized under the Act.

The Act authorized construction of wells with a total annual capacity of 10,000 acre-feet. Stage I of the LCWSP has been completed and consists of two wells located south of the All-American Canal (AAC) in Imperial County having a total design capacity of 5,000 acre-feet. The wells, which became operational as of August 1, 2003, pump groundwater and discharge it into the AAC for use by the Imperial Irrigation District (IID). IID then forbears the use of an equal amount of Colorado River water.

In September 1992, Reclamation entered into a contract to supply LCWSP water to the City of Needles (Needles) in annual amounts up to 3,500 acre-feet of the initial capacity. Pursuant to that contract, Needles enters into sub-contracts for delivery of LCWSP water to non-Federal water users in San Bernardino, Riverside, and Imperial Counties. The Colorado River Board of California (CRBC) receives and reviews applications for LCWSP sub-contracts, and makes recommendations to Reclamation.

Reclamation reviews CRBC's recommendations and refers approved applicants to Needles for execution of subcontracts.

In September 1998, the Bureau of Land Management (BLM) was allocated 1,150 acre feet of Stage I capacity for consumptive use on BLM administered lands in California located adjacent to the Colorado River. In December 2004, a Reclamation determination reserved an additional 350 acre-feet of Stage I capacity of the LCWSP for use by Reclamation facilities in California on land adjacent to the Colorado River. With that determination, the estimated 5,000 acre-feet per year of Stage I capacity was completely allocated.

The Act, as amended in 2005 by Public Law 109-103, authorized the Secretary to enter into agreements for the design and construction of the remaining stages of the LCWSP. Additionally, it authorized contracts with persons or entities holding water delivery contracts under Section 5 of the Boulder Canyon Project Act of 1928 for municipal and industrial uses within the State of California. On March 26, 2007, Reclamation entered into a contract with Needles and The Metropolitan Water District of Southern California (MWD), allowing MWD to receive as much unused water as available. MWD is depositing certain monies in a Water Quality Maintenance Trust Fund (Trust Fund) to provide for the long-term viability of the LCWSP or its replacement.

In 2010, development began for Stage II of the LCWSP to provide the remaining authorized capacity of up to 5,000 acre-feet per year. In 2013, following the initial planning and environmental compliance phase, Needles and Reclamation entered into a design, acquisition, and construction agreement, funded by the Trust Fund. Two new wells were constructed in 2017. LCWSP-3 and LCWSP-4 began well-development pumping in December 2017 and November 2017, respectively. The well development period for the new wells was completed in early 2018, with completion of all LCWSP construction activities by the end of 2018. The LCWSP will produce the entire 10,000 acre-feet beginning in 2018.

Table 16. Summary of Uses Offset by Pumpage from the LCWSP, Calendar Year 2017. (Values are in acre-feet.)

| | | TOTALS |
|--|--|--------|
| LCWSP Wellfield Pumpage ¹ | | 7,377 |
| Federal LCWSP Contractors ² | | |
| BLM | Consumptive Use | 233 |
| Bureau of Reclamation - Parker Dam and Government Camp | Consumptive Use | 1 |
| | Total Federal Contractors' Consumptive Use | 234 |
| Non-Federal LCWSP Contractors ³ | | |
| City of Needles | Consumptive Use | 13 |
| Needles' Subcontractors | | |
| Southern California Gas Company | Consumptive Use | 16 |
| Pacific Gas & Electric Company | Consumptive Use | 50 |
| Havasu Water Company | Consumptive Use | 20 |
| Vista del Lago | Consumptive Use | 15 |
| Needles' Other Subcontractors | Consumptive Use | 178 |
| | Needles' and Subcontractors' Consumptive Use | 292 |
| LCWSP Water Available to MWD ⁴ | | 6,851 |
| | Total Non-Federal Contractors' Consumptive Use | 7,143 |

¹ Non-Colorado River water pumped from the LCWSP wellfield and delivered to IID for its use via the AAC. IID forbears the consumptive use of this amount from the Colorado River to make water available for exchange to the LCWSP beneficiaries.

² Total LCWSP Federal contractors' consumptive use. Colorado River water used was exchanged for LCWSP water.

³ Total LCWSP Non-Federal consumptive use by the City of Needles and its subcontractors. Colorado River water used was exchanged for LCWSP water.

⁴ Total amount of water pumped from the wellfield less consumptive use of LCWSP water by Federal and Non-Federal LCWSP contractors.

CONSERVATION, TRANSFERS, AND EXCHANGES

Colorado River water apportioned to the Lower Division States has been further apportioned among the states of Arizona, California, and Nevada and is generally committed to specific persons or entities on a permanent basis. Increasing water demands within the Lower Division States must be met through a combination of conservation, transfers, exchanges, or new water sources which augment the limited supply of Colorado River water.

On October 10, 2003, the Secretary of the Interior entered into the Colorado River Water Delivery Agreement (CRWDA) with Imperial Irrigation District, Coachella Valley Water District, the Metropolitan Water District of Southern California, and the San Diego County Water Authority to resolve longstanding disputes regarding the priority, use, and transfer of Colorado River water within California. The CRWDA recognizes a variety of water transfers, exchanges, and conservation programs which alter the delivery of certain Colorado River water for up to 75 years.

Concurrent with the CRWDA, the California agencies entered into the Quantification Settlement Agreement, including a series of supplemental agreements, which collectively implement many provisions of the CRWDA through water transfers, water exchanges, and water conservation measures. Data as a result of the implementation of these agreements are documented in this section.

Tables 17 through 19 entitled "State of (State) Transfers, Exchanges and Water Made Available by Extraordinary Conservation, Calendar Year 2017" tabulate these transactions reported within Arizona, California, and Nevada.

For California, the tabulation documents, by agreement, conservation outside of the CRWDA or in amounts that differ from those displayed in Exhibit B of the CRWDA.

For Arizona, California, Nevada the tabulation includes System Conservation Water created in 2017 under the Pilot System Conservation Program (PSCP). Under the PSCP, System Conservation Water, conserved through the voluntary implementation of extraordinary conservation pilot projects, remained in Lake Mead to benefit system storage.

Table 20 entitled "Bureau of Reclamation – Water Made Available by Conservation, Calendar Year 2017" documents water made available by Reclamation through conservation efforts. These include:

- 1) Groundwater introduced to the system by pumping certain wells in the Yuma area that discharge to the Colorado River via the Yuma Mesa Conduit.
- 2) Water stored in Warren H. Brock Reservoir.
- 3) Water discharged to the Colorado River as a result of the operation of the Yuma Desalting Plant.
- 4) Water conserved by the Gila River Indian Community pursuant to SCIA No. 17-XX-30-W0621 and Agreement No. 17-XX-30-W0623.
- 5) Water provided to the United States pursuant to Agreement No. 12-XX-30-W0565 (2012 Contributed Funds Agreement¹).

Table 21 entitled "Exhibit B to the Colorado River Water Delivery Agreement" is reproduced from the CRWDA for convenient reference.

¹ Referring to the Agreement Among the United States of America, Through the Department of the Interior, Bureau of Reclamation, The Metropolitan Water District of Southern California, the Colorado River Commission of Nevada, the Southern Nevada Water Authority, and the Central Arizona Water Conservation District, for a Pilot Program for the Conversion of Intentionally Created Mexican Allocation to Intentionally Created Surplus.

Table 17. State of Arizona - Transfers, Exchanges, and Water Made Available by Extraordinary Conservation, Calendar Year 2017. (Values are in acre-feet.)

| TOTAL |
|--------|
| |
| 40 |
| 8,572 |
| 10,080 |
| |
| |
| |
| |
| |
| |
| |

¹ Water conserved from projects implemented pursuant to System Conservation Implementation Agreements (SCIA), executed in accordance with the July 30, 2014, Agreement Among The United States of America, Through The Department of the Interior, Bureau of Reclamation, The Central Arizona Water Conservation District, The Metropolitan Water District of Southern California, Denver Water, and The Southern Nevada Water Authority, For A Pilot Program for Funding the Creation of Colorado River System Water through Voluntary Water Conservation and Reductions in Use, as amended August 12, 2015 and March 8, 2016. Water conserved from projects implemented under the PSCP is for the sole purpose of increasing storage levels in Lake Mead and Lake Powell and will not accrue to the benefit or use of any individual water user.

² In 2015, Reclamation and the City of Bullhead City (City) entered into SCIA No. 15-XX-30-W0587, as amended, under the PSCP in which the City agreed to construct wastewater injection wells to recover and inject into the Colorado River aquifer effluent that would otherwise be lost by evaporation and dedicate a portion of this water as System Conservation Water. In accordance with the SCIA and Letter Agreement No. 15-XX-30-W0588 between Reclamation and CAWCD, this System Conservation Water remained in Lake Mead to benefit system storage.

³ In 2016, Reclamation and the Colorado River Indian Tribes (Tribes) entered into SCIA No. 16-XX-30-W0606 under the PSCP in which the Tribes agreed to fallow 1,591 acres of farmland from October 1, 2016 through September 30, 2018 to create System Conservation Water. In accordance with the SCIA and Letter Agreement No. 16-XX-30-W0608 between Reclamation and CAWCD, the portion of water conserved in 2017 (reflected above) remained in Lake Mead to benefit system storage.

⁴ In 2016, Reclamation and the Tohono O'odham Nation (Nation) entered into SCIA No. 16-XX-30-W0609 under the PSCP in which the Nation agreed to reduce delivery of its CAP water entitlement by 10,080 AF in 2017 to create System Conservation Water. In accordance with the SCIA and Letter Agreement No. 16-XX-30-W0611 between Reclamation and CAWCD, this System Conservation Water remained in Lake Mead to benefit system storage.

Table 18. State of California - Transfers, Exchanges, and Water Made Available by Extraordinary Conservation, Calendar Year 2017. (Values are in acre-feet.)

| PROGRAM OR PARTICIPATING AGENCIES | TOTAL |
|---|---------|
| IID Conservation | |
| 1988 IID/MWD Conservation Agreement ¹ | 105,000 |
| MWD Reduction for CVWD use ² | 0 |
| Transfer to SDCWA ³ | 100,000 |
| SDCWA Mitigation Transfer ⁴ | 105,311 |
| IID Intra-Priority 3 Transfer to CVWD ⁵ | 45,000 |
| Extraordinary Conservation Delivered to MWD ^{6,7} | 23,555 |
| PVID/MWD Forbearance and Fallowing Program ⁸ | 119,379 |
| MWD/Bard Water District Pilot Seasonal Fallowing Program ⁹ | 2,310 |
| All-American Canal Lining Project ¹⁰ | |
| SDCWA Exchange with MWD | 56,200 |
| Supplemental Water | 11,500 |
| Total Conservation | 67,700 |
| Coachella Canal Lining Project ¹¹ | |
| SDCWA Exchange With MWD | 23,126 |
| Supplemental Water | 4,500 |
| Mitigation | 3,224 |
| Total Conservation | 30,850 |
| Total MWD Exchange with SDCWA ¹² | 179,326 |
| Pilot System Conservation Program (PSCP) ¹³ | |
| City of Needles 14 | 146 |
| CVWD 15 | 152 |

Note: Additional transfers and water exchange obligations may be found in Table 21, Exhibit B to the CRWDA.

Footnotes:

Footnotes continued on following page.

¹ 1988 IID/MWD Water Conservation Program conserved water, determined in accordance with the amended 1988 Program Agreement and the amended 1989 Approval Agreement, made available by IID for diversion in the reporting year by MWD, reported as an annual total.

² In accordance with the amended 1989 Approval Agreement, CVWD may request up to 20,000 AF of the water conserved by IID for MWD under the 1988 IID/MWD Water Conservation Agreement. MWD reduces its use by up to 20,000 AF of water conserved for use by CVWD, which is reflected in the displayed value above.

³ As referenced in Column 5, Exhibit B, of the CRWDA, IID conserves water for transfer to SDCWA.

Table 18 Footnotes: Continued from previous page.

- ⁴ As referenced in Column 7, Exhibit B, of the CRWDA and the IID/SDCWA Water Transfer Agreement, as amended, IID conserves water for transfer to SDCWA for delivery, by exchange from non-Colorado River sources, to the Salton Sea for mitigation purposes. As shown in Exhibit B, IID's 2017 Salton Sea mitigation requirement was 150,000 AF; however, in 2016 IID pre-delivered 44,689 AF of conserved water, created through fallowing, to the Sea for the stated purpose of reducing its 2017 mitigation balance to 105,311 AF (150,000 44,689 = 105,311). As reported above, in 2017, IID conserved 105,311 AF for mitigation purposes, but due to measurement imprecision and operational/infrastructure limitations—only delivered 105,155 AF to the Salton Sea, resulting in a 156 AF under-delivery. To fulfill its 2017 mitigation requirement, IID plans to deliver 156 AF of conserved water to the Salton Sea in 2018. Also, as first reported in the 2010 Water Accounting Report (and subsequent reports), in 2010 IID delivered 46,546 AF of Colorado River water to the Salton Sea with a stated intention to store the water for use for Salton Sea mitigation requirements in 2011 and half of 2012. IID did not conserve an equivalent amount of water in 2011 and 2012 for delivery to the Salton Sea resulting in a Colorado River system storage depletion of 46,546 AF. This matter is the subject of a series of letters between Reclamation and IID, including Reclamation's letter dated May 3, 2013; IID's letter dated June 28, 2013; and Reclamation's letter dated July 2, 2013, and currently remains under discussion between Reclamation and IID. Pursuant to the *Minute No. 319 Binational ICS Delivery Agreement* between the United States and IID, IID agrees to not request and Reclamation will not deliver to IID any Binational ICS available to IID under Minute No. 319 until this outstanding dispute has been resolved.
- ⁵ IID conserves water under an acquisition agreement with CVWD to meet the IID/CVWD Intra-priority 3 Transfer obligation as referenced in Column 8, Exhibit B of the CRWDA.
- ⁶ For informational purposes: Water conserved by IID through extraordinary conservation and delivered to MWD pursuant to the *California Agreement for the Creation and Delivery of Extraordinary Conservation Intentionally Created Surplus*, as amended.
- ⁷ In the 2015 *Colorado River Accounting and Water Use Report*, the amount of "Extraordinary Conservation Delivered to MWD" was reported as 38,313 AF. As described in IID and MWD's joint letter dated April 18, 2018, this amount has been corrected to 45,477 AF (an increase of 7,164 AF).
- ⁸ The provisional amount of PVID's annual reduction in agricultural consumptive use of Colorado River water through land fallowing as a result of fallowing 25,947 acres from January through July and 23,356 acres from August through December in the reporting year. This provisional amount is currently under review and the final amount will be reflected in a future Colorado River Accounting and Water Use Report based on values verified in the final report titled Calendar Year 2017 Fallowed Land Verification Report, PVID/MWD Forbearance and Fallowing Program.
- ⁹ Bard Water District's seasonal reduction in consumptive use of Colorado River water through land fallowing. This value represents the preliminary estimate of the reduction in Bard Water District's consumptive use as a result of fallowing 752 acres from March 15 through July 15 and 889 acres from April 15 through August 15 in the reporting year.
- ¹⁰ The Secretarial Determination of water conserved by lining certain reaches of the AAC was issued in December 2009 (see Significant Documents). As a result, conserved water was distributed in accordance with the Allocation Agreement among the United States, MWD, CVWD, IID, SDCWA, and the SLRSP, dated October 10, 2003 and Public Law 100-675, as amended.
- ¹¹ The Secretarial Determination of water conserved by the CCLP was issued in January 2008 (see Significant Documents). As a result, conserved water was distributed in accordance with the Allocation Agreement among the United States, MWD, CVWD, IID, SDCWA, and the SLRSP, dated October 10, 2003, Public Law 100-675, as amended, and Exhibit B to the Settlement Agreement between CVWD and SDCWA, dated October 30, 2007.
- ¹² The amount shown represents water exchanged between MWD and SDCWA in the reporting year. This is the sum of: IID Conservation Transfer to SDCWA (100,000 AF), All-American Canal Lining Project SDCWA Exchange with MWD (56,200 AF), and the Coachella Canal Lining Project SDCWA Exchange with MWD (23,126 AF).
- ¹³ Water conserved from projects implemented pursuant to System Conservation Implementation Agreements (SCIA), executed in accordance with the July 30, 2014, Agreement Among The United States of America, Through The Department of the Interior, Bureau of Reclamation, The Central Arizona Water Conservation District, The Metropolitan Water District of Southern California, Denver Water, and The Southern Nevada Water Authority, For A Pilot Program for Funding the Creation of Colorado River System Water through Voluntary Water Conservation and Reductions in Use, as amended August 12, 2015 and March 8, 2016. Water conserved from projects implemented under the PSCP is for the sole purpose of increasing storage levels in Lake Mead and Lake Powell and will not accrue to the benefit or use of any individual water user.
- ¹⁴ In 2016, Reclamation and the City of Needles (Needles) entered into SCIA No. 15-XX-30-W0596 under the PSCP in which Needles agreed to implement water conservation measures on the Rivers Edge Golf Course to create System Conservation Water. In accordance with the SCIA, this System Conservation Water remained in Lake Mead to benefit system storage.
- ¹⁵ In 2016, Reclamation and CVWD entered into SCIA No. 15-XX-30-W0593 under the PSCP in which CVWD agreed to establish a Furrow/Flood to Drip Conversion Rebate Program to create System Conservation Water. In accordance with the SCIA, this System Conservation Water remained in Lake Mead to benefit system storage.

Table 19. State of Nevada - Transfers, Exchanges, and Water Made Available by Extraordinary Conservation, Calendar Year 2017. (Values are in acre-feet.)

| PROGRAM OR PARTICIPATING AGENCIES | TOTAL |
|---|-------|
| Pilot System Conservation Program (PSCP) ¹ | |
| SNWA ² | 744 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

¹ Water conserved from projects implemented pursuant to System Conservation Implementation Agreements (SCIA), executed in accordance with the July 30, 2014, Agreement Among The United States of America, Through The Department of the Interior, Bureau of Reclamation, The Central Arizona Water Conservation District, The Metropolitan Water District of Southern California, Denver Water, and The Southern Nevada Water Authority, For A Pilot Program for Funding the Creation of Colorado River System Water through Voluntary Water Conservation and Reductions in Use, as amended August 12, 2015 and March 8, 2016. Water conserved from projects implemented under the PSCP is for the sole purpose of increasing storage levels in Lake Mead and Lake Powell and will not accrue to the benefit or use of any individual water user.

² In 2016, Reclamation and SNWA entered into SCIA No. 16-XX-30-W0612 under Phase II of the PSCP in which SNWA agreed to conserve up to 860 AF per year, from October 1, 2016 through September 30, 2019, of post-1929 Virgin River surface water rights to create System Conservation Water. In accordance with the SCIA, the portion of water conserved in 2017 remained in Lake Mead to benefit system storage. (Volume noted is provisional until verified by Reclamation.)

Table 20. Bureau of Reclamation - Water Made Available by Conservation, Calendar Year 2017. (Values are in acre-feet.)

| CONSERVATION PROGRAM | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | ОСТ | NOV | DEC | TOTAL |
|--|------------|--------|--------|--------|--------|-------|-------|-------|-----|-----|--------|--------|---------|
| Arizona Groundwater Permit ¹ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Warren H. Brock Reservoir Storage ² | 4,907 | 15,612 | 15,705 | 12,788 | 11,157 | 9,144 | 9,634 | 6,403 | 0 | 0 | 13,359 | 17,641 | 116,350 |
| Yuma Desalting Plant Discharge to the Colorado River ³ | 8 | 16 | 21 | 2 | 0 | 18 | 18 | 18 | 18 | 18 | 18 | 15 | 170 |
| Drought Response Conservation - Gila River Indian Community ⁴ | | | | | | | | | | | | | 80,000 |
| Pilot System Conservation Program ⁵ | | | | | | | | | | | | | 19,734 |
| System Water Provided to the U.S. Pursuant to the 2012 Contributed Funds A | greement 6 | | | | | | | | | | | 29,000 | 29,000 |
| | | | | | | | | | | | | | |

¹ In 2007, the Bureau of Reclamation was granted a permit to withdraw Arizona groundwater for return flow credits to offset bypass flows to Mexico. The values shown represent the return flow credits earned in accordance with the permit in the year covered by this report.

² Colorado River water stored in Warren H. Brock Reservoir. This total does not necessarily represent all new conservation or system efficiency gains by the reservoir. The difference between the value shown here and the amount shown in the California Article V(B) section, IID tabulation, "Delivery From Warren H. Brock Reservoir", consists of changes in reservoir storage and losses from the reservoir.

³ Water created by operation of the Yuma Desalting Plant and discharged to the Colorado River.

⁴ In 2017, Reclamation and the Gila River Indian Community (Community) entered into SCIA No. 17-XX-30-W0620, as was amended under Agreement No. 17-XX-30-W0623, in which the Community agreed to forego delivery of 80,000 AF of its CAP water entitlement in 2017. In accordance with the SCIA and Letter Agreement Nos. 17-XX-30-W0621 and 17-XX-30-W0624 between Reclamation and CAWCD, this water remained in Lake Mead to benefit system storage. This pilot project exhibited the need to develop a baseline for future conservation agreements.

⁵ Water conserved from projects implemented pursuant to System Conservation Implementation Agreements (SCIA), executed in accordance with the July 30, 2014, Agreement Among The United States of America, Through The Department of the Interior, Bureau of Reclamation, The Central Arizona Water Conservation District, The Metropolitan Water District of Southern California, Denver Water, and The Southern Nevada Water Authority, For A Pilot Program for Funding the Creation of Colorado River System Water through Voluntary Water Conservation and Reductions in Use, as amended August 12, 2015 and March 8, 2016. Water conserved from projects implemented under the PSCP is for the sole purpose of increasing storage levels in Lake Mead and Lake Powell and will not accrue to the benefit or use of any individual water user. (Volume shown is the total amount of System Conservation Water conserved in 2017 from projects implemented in Arizona, California, and Nevada. See Tables 17, 18, and 19 for additional details.)

⁶ The amount of system water credited to the United States pursuant to Agreement No. 12-XX-30-W0565, the Agreement Among the United States of America, Through the Department of the Interior, Bureau of Reclamation, The Metropolitan Water District of Southern California, the Colorado River Commission of Nevada, the Southern Nevada Water Authority, and the Central Arizona Water Conservation District, for a Pilot Program for the Conversion of Intentionally Created Mexican Allocation to Intentionally Created Surplus.

Table 21. Exhibit B to the Colorado River Water Delivery Agreement.

EXHIBIT B QUANTIFICATION AND TRANSFERS¹ In Thousands of Acre-feet Column: 11 12 14 17 21 22 23 IID Priority 3a CVWD Priority 3a Reductions Reductions Additions ¹⁰IID Net Total Priority CVWD Net 6IID IID 1CVWD 1-3 Use Consumptive 3IID ⁴IID 8IID Reductions Use Amoun 4CVWD Consumptive Plus PPR Reduction Reduction 5,6IID 3Intra-Consumpti Total (difference s: Total Use Amount Reductio Reductio MWD Reductio Reductio 7Intra-9IID 7Intra-IID Priority MWD IID Reductio Transfei Amount between CVWD 9CVWD Amount Priority 3 (columns 14 e Use (sum 1988 Reduction ining IID SDCWA Priority 3 vith Saltor Condition Reduction (sum of column 3 Lining. Reduction (sum of Priority 3 Transfer 17 plus of columns Priority 3a **SDCWA** al ISG DCWA · Misc MWD/CVV 12ISG 12Annual SDCWA Mitigatio Transfer · Misc columns 4 columns Transfer Calendar Priority 1 Quantified areeme Sea and column Quantified columns 18 2+13+20 IID/CVWD PPRs IID/CVWD Year 2 and 3b Transfe Transfer SLR Transfer Restoration Backfill **PPRs** through 11) SLR 15 + 16D plus 11+16) Amount Amount 19) Benchmark: Targets 2003 420 3.100 11.5 2.963.5 330 3.745.0 3.740 10 136.5 3 20 347 3.740 0 5 0 0 3 0 2004 420 3,100 20 10 11.5 151.5 2,948.5 330 347 3.730.0 3,707 3 2005 420 3.100 110 30 0 15 0 0 0 11.5 166.5 2.933.5 330 0 3 3 0 20 347 3.715.0 3.674 26 3.640 2006 420 3 100 110 40 0 20 0 0 9 11.5 190.5 2 909 5 330 3 29 0 20 321 3 665 0 3 640 2007 420 3,100 11.5 196.5 2,903.5 330 29 0 20 321 3,659.0 110 50 67.7 20 26 20 325 3.571.3 2008 420 3.100 25 4 11.5 288.2 2.811.8 330 3 29 4 3.566 0 420 110 60 67.7 30 40 11.5 327.2 2,772.8 330 26 29 20 329 3,536.3 3,530 2009 3.100 3.530 420 70 35 60 11.5 366.2 2,733.8 29 12 333 3.501.3 3.510 2010 3,100 67.7 2011 420 3.100 80 67.7 40 16 80 11.5 405.2 2.694.8 330 26 3 29 16 20 337 3.466.3 3.490 10 2012 420 3,100 110 90 67.7 45 21 100 11.5 445.2 2,654.8 330 26 3 29 21 20 342 3,431.3 3,470 3,470 100 485.2 11 2013 420 3 100 110 100 67.7 70 26 11.5 2 614 8 330 26 3 29 26 20 347 3 396 3 3 462 100 12 2014 420 90 31 11.5 330 29 31 3.376.3 3.455 2015 420 3,100 110 100 67.7 110 36 100 11.5 535.2 2,564.8 330 26 3 29 36 20 357 3,356.3 0 3.448 13 2016 420 3.100 110 100 67.7 130 41 100 11.5 560.2 2.539.8 330 26 3 29 41 20 362 3.336.3 3,440 14 0 15 2017 420 3 100 100 67.7 150 91 11.5 2 524 8 29 366 3 325 3 16 2018 420 3.100 110 130 67.7 0 63 11.5 382.2 2.717.8 330 3 29 63 20 384 3.536.3 17 2019 420 3,100 110 160 67.7 0 68 0 11.5 417 2 2,682.8 330 26 29 68 20 389 3,506.3 420 73 11.5 330 26 73 394 18 2020 3 100 110 193 67.7 Ω Ω 2 645 3 29 20 3 473 8 19 2021 420 3.100 205 67.7 0 78 11.5 472.2 2.627.8 330 3 29 78 399 3.461.3 26 20 2022 420 3,100 110 203 67.7 0 83 0 0 11.5 474.7 2,625.3 330 3 29 83 20 404 3,463.8 21 2023 420 3,100 110 200 67.7 0 88 0 11.5 477.2 2,622.8 330 26 29 88 20 409 3.466.3 22 2024 420 3,100 93 482.2 2,617.8 93 414 3,466,3 23 2025 420 3.100 110 200 67.7 0 98 0 11.5 487.2 2.612.8 330 26 29 98 20 419 3.466.3 3 24 2026 420 3,100 110 200 67.7 0 103 0 0 11.5 492.2 2,607.8 330 26 3 29 103 20 424 3.466.3 25 2027 420 3.100 200 67.7 103 11.5 492.2 2.607.8 330 29 103 20 424 3.466.3 0 26 2028 420 3,100 110 200 103 11.5 492.2 2,607.8 330 29 103 424 3,466.3 2029-2037 420 3.100 110 200 67.7 0 103 n Ω 11.5 492.2 2.607.8 330 26 3 29 103 20 424 3.466.3 420 3.466.3 2038-2047¹ 3.100 110 200 67.7 0 103 0 11.5 492.2 2.607.8 330 26 3 29 103 20 424

- 200 1 Exhibit B is independent of increases and reductions as allowed under the Inadvertent Overrun and Payback Policy
- 2 Any higher use covered by MWD, any lesser use will produce water for MWD and help satisfy ISG Benchmarks and Annual Targets.
- 3 IID/MWD 1988 Conservation Program conserves up to 110,000 AFY and the amount is based upon periodic verification. Of amount conserved, up to 20,000 AFY to CVWD (column 19), which does not count toward ISG Benchmarks and Annual Targets, and remainder to MWD.

11.5

- 4 Ramp-up amounts may vary based upon construction progress, and final amounts will be determined by the Secretary pursuant to the Allocation Agreement.
- 5 Any amount identified in Exhibit B for mitigation purposes will only be from non-Colorado River sources and these amounts may be provided by exchange for Colorado River water.

100

6 Water would be transferred to MWD subject to satisfaction of certain conditions and to appropriate federal approvals. For informational purposes only, these transfers may also be subject to state approvals. Schedules are subject to adjustments with mutual consent. After 2006, these quantities will count toward the ISG Benchmarks (column 22) and Annual Targets (column 23) only if and to the extent that water is transferred into the Colorado River Aqueduct for use by MWD and/or SDCWA.

489.2

2,610.8

330

26

3

29

100

20

421

3,466.3

- 7 MWD can acquire if CVWD declines the water. Any water obtained by MWD will be counted as additional agricultural reduction to help satisfy the ISG Benchmarks and Annual Targets. MWD will provide CVWD 50,000 AFY of the 100,000 AFY starting in year 46.
- 8 IID has agreed to provide transfer amounts to meet the minimum ISG benchmarks, not to exceed a cumulative total of 145,000 AF. Maximum transfer amounts are 25,000 AF in 2006, 50,000 AF plus the unused amount from 2006 in 2009, and 70,000 AF plus the unused amounts from 2006 and 2009 in 2012. In addition to the maximum transfer amounts IID has also committed that no more than 72,500 AF of reduced inflow to the Salton Sea would result from these additional transfers.
- 9 Up to the amount shown, as agreed upon reduction to IID or CVWD to cover collectively the sum of individual Miscellaneous PPRs, federal reserved rights and decreed rights. This is a reduction that counts towards ISG Benchmarks and Annual Targets.
- 10 For purposes of Subparagraph 8(b)(2)(i) and (ii) and 8(c)(1) and (i) the Secretary will take into account: (i) the satisfaction of necessary conditions to certain transfers (columns 7 and 9) not within IID's control: (ii) the amounts of conserved water as determined, where such amounts may vary (columns 4, 6, 9 and 10); and (iii) with respect to column 7, reductions by IID will be considered in determining IID's compliance regardless of whether the conserved water is diverted into the Colorado River Aqueduct.
- 11 For purposes of Subparagraph 8(c)(1) and (4) the Secretary will take into account: (i) the satisfaction of necessary conditions to certain transfers (columns 15 and 16) not within CVWD's control; and (ii) the amounts of conserved water as determined, where such amounts may vary (column 15).
- 12 All-consumptive use of priorities 1 through 3 plus 14,500 AF of PPRs must be within 25,000 AF of the amount stated.
- 13 Assumes SDCWA does not elect termination in year 35.

420

2048-20771

14 Assumes SDCWA and IID mutually consent to renewal term of 30 years.

3,100

110

Substitute transfers can be made provided the total volume of water to be transferred remains equal or greater than amounts shown consistent with applicable federal approvals.

The shaded columns represent amounts of water that may vary

INTENTIONALLY CREATED SURPLUS

In 2006, Reclamation entered into letter agreements with the Imperial Irrigation District and the Metropolitan Water District of Southern California to implement a demonstration program for the development of Intentionally Created Surplus (ICS). In this program, ICS refers to a quantity of surplus water the Secretary may make available for release under Article II(B)(2) of the Consolidated Decree. The demonstration program covered calendars years 2006 – 2007 and required that ICS be created through extraordinary conservation measures.

On December 13, 2007, the Secretary of the Interior signed the Record of Decision, Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations for Lake Powell and Lake Mead (2007 Interim Guidelines). Beginning in 2008, the creation of ICS is governed by the 2007 Interim Guidelines. Section 3, pages 38-43 of the 2007 Interim Guidelines contains the policies and guidelines concerning the categories of creation, delivery, and accounting for Intentionally Created Surplus.

Under the 2007 Interim Guidelines, ICS may be created by an approved water user using a variety of approved measures within the four established ICS categories: Extraordinary Conservation ICS, Tributary Conservation ICS, System Efficiency ICS, and Imported ICS. Also stipulated in the 2007 Interim Guidelines are the limitations as to the maximum quantities of ICS that may be created during each year, delivered in a year, and accumulated in a water user's ICS account.

The following conditions apply to ICS:

1) During the year of creation, and with the exception of System Efficiency ICS, there is a one-time deduction of 5 percent from the amount of ICS created which is dedicated to system storage to provide a collective storage benefit for Colorado River water users.

- 2) Beginning in the year after its creation, and with the exception of System Efficiency ICS, an annual evaporation loss of 3 percent is applied to the quantity of ICS remaining in an ICS account at the end of each year. This assessment is not applied during a shortage year.
- 3) If the Secretary releases Flood Control Surplus water, Extraordinary Conservation ICS accumulated in ICS accounts is reduced by the amount of the Flood Control Surplus on an acre-foot for acre-foot basis until no Extraordinary Conservation ICS remains.
- 4) If a water user has an overrun payback obligation, the water user must repay the obligation in full before it can request or receive delivery of ICS.

The Secretary is responsible for approving plans for the creation of ICS, modifications to those plans, and developing procedures to account for and verify ICS creation and delivery.

Table 22 documents information associated with ICS, as applicable, for each individual water user, including.

- 1) The beginning of year ICS account balance.
- 2) The amount of ICS created in the reporting year.
- 3) The amount of ICS delivered in the reporting year.
- 4) The end of year ICS account balance, after applying reductions for system assessment, IOPP payback, and evaporation, as appropriate.

Table 22. Intentionally Created Surplus by State, User, and ICS Type, Calendar Year 2017. (Values are in acre-feet.)

| | | BOY | | System | IOPP | | Evaporation | EOY |
|--------------------|--|---------|-----------------------|-------------------------|----------------------|---------------------|-------------------|----------------------|
| State/Water User | ICS Type | Balance | Creation ¹ | Assessment ² | Payback ³ | Delivery | Loss 4 | Balance ⁶ |
| Arizona | | | | | | | | |
| CAWCD ⁶ | System Efficiency - Warren H. Brock | 100,000 | 0 | N/A | 0 | 0 | N/A | 100,000 |
| | System Efficiency - YDP Pilot Run | 3,050 | 0 | N/A | 0 | 0 | N/A | 3,050 |
| | Binational ICS ⁷ | 0 | 23,750 | N/A | 0 | 0 | N/A | 23,750 |
| | | | | | | | Total Arizona: | 126,800 |
| California | | | | | | | | |
| MWD | Extraordinary Conservation ^{8,9} | 67,643 | 315,649 | 15,782 | 0 | 0 | 2,029 | 365,481 |
| | System Efficiency - Warren H. Brock ⁸ | 65,000 | 0 | N/A | 0 | 0 | N/A | 65,000 |
| | System Efficiency - YDP Pilot Run | 24,397 | 0 | N/A | 0 | 0 | N/A | 24,397 |
| | Binational ICS 7 | 0 | 23,750 | N/A | 0 | 0 | N/A | 23,750 |
| | | | | | | | Total MWD: | 478,628 |
| IID | Extraordinary Conservation | 30,017 | 21,983 | 1,099 | 0 | 0 | 901 | 50,000 |
| | Binational ICS 7,10 | 0 | 23,750 | N/A | 0 | 0 | N/A | 23,750 |
| | | | | | | | Total IID: | 73,750 |
| | | | | | | - | Total California: | 552,378 |
| Nevada | | | | | | | | |
| SNWA | Extraordinary Conservation converted from | | | | | | | |
| ONITA | Tributary Conservation / Imported 11 | 128,557 | 0 | 0 | 0 | 0 | 3,857 | 124,700 |
| | Tributary Conservation | N/A | 32,435 | 1,622 | 0 | 0 | N/A | 30,813 |
| | Imported - Coyote Spring Valley | N/A | 0 | 0 | 0 | 0 | N/A | 0 |
| | System Efficiency - Warren H. Brock | 400,000 | 0 | N/A | 0 | 0 | N/A | 400,000 |
| | System Efficiency - YDP Pilot Run | 3,050 | 0 | N/A | 0 | 0 | N/A | 3,050 |
| | Binational ICS ⁷ | 0 | 23,750 | N/A | 0 | 0 | N/A | 23,750 |
| | | | | | | | Total Nevada: | 582,313 |
| | | | | | Total I | CS stored in Lake N | Mead: EOY 2017 | 1,261,491 |

Footnotes continued on following page.

¹ The amount of ICS created by the water user during the reporting year. Unless otherwise noted, all current year values displayed in this column are provisional until verified by Reclamation.

² In accordance with Section 3.B.2. of the 2007 Interim Guidelines, there shall be a one-time deduction of 5 percent from the amount of ICS in the year of creation. This system assessment shall result in additional system water in storage in Lake Mead.

³ In accordance with Section 3.C.7 of the 2007 Interim Guidelines, if a contractor has an overrun payback obligation, the contractor must repay the overrun payback obligation in full before requesting or receiving delivery of ICS. If a contractor requests to use its ICS credits to pay back an overrun, the contractor's ICS account(s) shall be reduced by the amount of the payback prior to calculating the evaporation loss and the remaining ICS credits available to the contractor.

⁴ In accordance with Section 3.B.7 of the 2007 Interim Guidelines, a 3 percent evaporation loss shall be applied annually to the EOY balance of Extraordinary Conservation ICS beginning in the year after the ICS is created and continuing until no Extraordinary Conservation ICS remains in Lake Mead.

⁵ The EOY balance of ICS including creation, reductions, and delivery taking place in the reporting year.

⁶ As reflected in Table 11 of the 2015 and 2016 *Colorado River Accounting and Water Use Report*, CAWCD notified Reclamation that it anticipated creating up to 96,000 AF of Extraordinary Conservation ICS in 2015 and 98,922 AF of Extraordinary Conservation ICS in 2016, and provided Reclamation with information to support such creation. In accordance with the 2007 Interim Guidelines, creation of ICS is predicated upon the execution of an exhibit to the 2007 *Lower Colorado Basin Intentionally Created Surplus Forbearance Agreement* and a Delivery Agreement, and approval of an ICS Plan of Creation. As of the date of this report, these requirements have not been completed. Any ICS credited to CAWCD will be reflected in a future *Colorado River Accounting and Water Use Report*.

⁷ The amount of Binational ICS credited pursuant to Agreement No. 12-XX-30-W0565, the Agreement Among the United States of America, Through the Department of the Interior, Bureau of Reclamation, The Metropolitan Water District of Southern California, the Colorado River Commission of Nevada, the Southern Nevada Water Authority, and the Central Arizona Water Conservation District, for a Pilot Program for the Conversion of Intentionally Created Mexican Allocation to Intentionally Created Surplus, as modified by Section 4.6 of the Interim Operating Agreement for Implementation of Minute No. 323.

Table 22 footnotes: Continued from previous page.

⁸ MWD's Extraordinary Conservation and System Efficiency ICS BOY Balances reflect an upward adjustment in the amount of 62,999 AF and 8,992 AF, respectively, to correct for an accounting error related to the Palo Verde Ecological Reserve (PVER) conservation area for the period 2006-2015. For additional information, see Significant Documents item number 37.

⁹ In addition to MWD's ICS creation, IID and MWD propose to credit an additional 35,399 AF of IID's excess conservation to MWD's ICS account through the application of Section XI.G.3.B.8 of the 2007 Interim Guidelines, subject to Section XI.G.7.B.5. This proposal is currently under review. Once verified by Reclamation, MWD's 2017 ICS creation total would be adjusted accordingly.

¹⁰ Pursuant to the *Minute No. 319 Binational ICS Delivery Agreement between the United States and IID*, IID agrees to not request and Reclamation will not deliver to IID any Binational ICS available to IID under Minute No. 319 until the outstanding dispute regarding Salton Sea conservation and mitigation has been resolved.

¹¹ The verified amount of Tributary Conservation ICS created by SNWA in 2016 is 25,077 AF. This is revised from the provisonal amount of 25,030 AF shown in the 2016 *Colorado River Accounting and Water Use Report*. After applying the 5 percent reduction for system assessment to the verified amount, the 2016 EOY Tributary Conservation ICS balance is 23,823 AF. In accordance with Section 3.A.2 of the Interim Guidelines, this amount was converted to Extraordinary Conservation ICS at the beginning of 2017.

The table below includes agreements, letters, regulations and operating plans that impacted Reclamation's delivery of Colorado River water during calendar year 2017. These documents may be retrieved by clicking on the item in the electronic version of the report which is available on Reclamation's website: www.usbr.gov/lc/region/g4000/wtracct.html. These documents are best accessed using Microsoft's Internet Explorer. Acronyms used below are defined on the page of this report entitled, "Acronyms and Abbreviated Terms."

| | RECORDS OF DECISION |
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| 1. | The Record of Decision for Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations for Lake Powell and Lake Mead dated December 13, 2007. This document provides the framework used by the Secretary of the Interior for shortage, coordinated operation of Lake Powell and Lake Mead, and to encourage conservation, plan for shortages, implement closer coordination of operations of Lake Powell and Lake Mead, and preserve flexibility to deal with further challenges. |
| 2. | The Record of Decision for the Colorado River Water Delivery Agreement: Implementation Agreement, Inadvertent Overrun and Payback Policy, and Related Federal Actions Final Environmental Impact Statement. The Water Delivery Agreement provides certainty regarding water entitlements that are necessary for continued effective implementation of the Secretary's responsibilities as Water Master on the lower Colorado River. |

| | REPORTS |
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| 3. | 2017 Annual Operating Plan Executive Summary that outlines the criteria under which the Colorado River was operated during Calendar Year 2016 considering current and anticipated hydrologic conditions. |

| INTERIM DETERMINATIONS | |
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| 4. | The Secretary's Interim Determination for the amount of water conserved and the amount of water made available for allocation as a result of the Coachella Canal Lining Project, dated January 31, 2008. |
| 5. | The Secretary's Interim Determination for the amount of water conserved and the amount of water made available for allocation as a result of the All-American Canal Lining Project, dated December 4, 2009. |

| | PILOT SYSTEM CONSERVATION PROGRAM | |
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| 6. | Agreement (No. 14-XX-30-W0574) Among The United States of America, Through The Department of the Interior, Bureau of Reclamation, The Central Arizona Water Conservation District, The Metropolitan Water District of Southern California, Denver Water, and The Southern Nevada Water Authority, For A Pilot Program for Funding the Creation of Colorado River System Water through Voluntary Water Conservation and Reductions in Use, dated July 30, 2014, including Amendment Nos. 1 and 2. | |
| 7. | System Conservation Implementation Agreement No. 15-XX-30-W0587 Between Reclamation and City of Bullhead City, Arizona to Implement a Pilot System Conservation Program, dated September 15, 2015. | |
| 8. | System Conservation Implementation Agreement No. 16-XX-30-W0606 Between Reclamation and the Colorado River Indian Tribes to Implement a Pilot System Conservation Program, dated September 14, 2016. | |
| 9. | System Conservation Implementation Agreement No. 16-XX-30-W0609 Between Reclamation and the Tohono O'odham Nation to Implement a Pilot System Conservation Program, dated September 14, 2016. | |
| 10. | System Conservation Implementation Agreement No. 15-XX-30-W0596 Between Reclamation and the City of Needles to Implement a Pilot System Conservation Program, dated April 15, 2016. | |
| 11. | System Conservation Implementation Agreement No. 15-XX-30-W0593 Between Reclamation and the Coachella Valley Water District to Implement a Pilot System Conservation Program, dated January 11, 2016. | |
| 12. | System Conservation Implementation Agreement No. 16-XX-30-W0612 Between Reclamation and the Southern Nevada Water Authority to Implement a Pilot System Conservation Program, dated October 17, 2016. | |

| | DROUGHT RESPONSE | |
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| 13. | System Conservation Implementation Agreement No. 17-XX-30-W0620 Between Reclamation and the Gila River Indian Community, dated January 18, 2017. | |
| 14. | Agreement No. 17-XX-30-W0623 Among Reclamation, the Arizona Department of Water Resources, the Gila River Indian Community, the City of Phoenix, and the Walton Family Foundation, Inc., to Fund the Creation of Colorado River System Water Through Voluntary Water Conservation and Reductions in Use During 2017, dated July 14, 2017. | |

| INTENTIONALLY CREATED SURPLUS | |
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| 15. | Documents related to the creation, delivery, and accounting of IID's ICS, calendar year 2017. |
| 16. | Documents related to the creation, delivery, and accounting of MWD's ICS, calendar year 2017. |

| INTENTIONALLY CREATED SURPLUS | |
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| 17. | Documents related to the creation, delivery, and accounting of SNWA's ICS, calendar year 2017. |
| 18. | Documents related to the creation, delivery, and accounting of CAWCD's ICS, calendar year 2017. |

| | INTERSTATE WATER BANKING | |
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| 19. | 43 CFR Part 414: Offstream Storage of Colorado River Water: Development and Release of Intentionally Created Unused Apportionment in the Lower Division States; Final Rule. | |
| 20. | Documents related to Colorado River water diverted and stored in Arizona by AWBA for the benefit of SNWA. | |
| 21. | Documents related to Colorado River water diverted and stored in California by MWD for the benefit of SNWA. | |

| INADVERTENT OVERRUN AND PAYBACK POLICY | |
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| 22. | Inadvertent Overrun and Payback Policy, October 10, 2003. |

| | COLORADO RIVER WATER DELIVERY AGREEMENT | |
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| 23. | Reclamation's letter to IID dated May 3, 2013, discussing transfer and payback issues due to the direct delivery of Colorado River water to the Salton Sea in 2010. | |
| 24. | IID's letter to Reclamation dated June 28, 2013, discussing its set of actions due to the direct delivery of Colorado River water to the Salton Sea in 2010. | |
| 25. | Reclamation's letter to IID dated July 2, 2013, discussing the transfer and payback issues due to the direct delivery of Colorado River water to the Salton Sea in 2010. | |
| 26. | CVWD's letter to Reclamation dated January 15, 2018, providing a final accounting for the amount of environmental mitigation water used in Calendar Year 2017 for the Coachella Canal Lining Project and the remaining water available for transfer to the SDCWA. | |

| | WATER ACCOUNTING | |
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| 27. | A description on how irrigation water is calculated by the USGS for areas where estimates of diversion are required. | |
| 28. | Maps showing the locations of the wells and river pumps reported by the USGS. | |
| 29. | CAWCD's letter to Reclamation dated June 28, 2017, regarding its revised estimates of Colorado River water diversion for calendar year 2017, in which CAWCD notified Reclamation that it anticipated leaving unused Arizona basic apportionment in Lake Mead to effect a voluntary contribution to benefit system storage. | |
| 30. | 2007 California Agreement for the Creation and Delivery of Extraordinary Conservation Intentionally Created Surplus (California ICS Agreement). | |
| 31. | 2015 Amendment No. 1 to the 2007 California ICS Agreement. | |
| 32. | IID's letter to MWD dated October 27, 2017, requesting to store up to 69,000 AF of IID's 2017 excess extraordinary conservation water in MWD's system. | |
| 33. | MWD's letter to IID dated November 28, 2017, in which MWD agreed to store up to 69,000 AF of IID's excess extraordinary conservation water in calendar year 2016. | |
| 34. | IID and MWD joint letter dated April 18, 2018, re: a 2015 IID Total Diversion to Field Loss Percentage Calculation Correction and Related Adjustment to IID's Excess and Additional Excess Extraordinary Conservation Intentionally Created Surplus Delivered to Metropolitan's System | |
| 35. | Procedure for Determining Return Flow Credits to Nevada from Las Vegas Wash, adopted by the Task Force on Unmeasured Return Flows on August 28, 1984. | |
| 36. | Reclamation letter to SNWA and CRCN dated December 5, 2007 regarding Las Vegas Valley Return Flow Credit Methodology. | |
| 37. | Technical Report: Calculation of Consumptive Use and Unmeasured Return Flow from the Palo Verde Ecological Reserve – Calendar Years 2006-2016. | |

| | UNITED STATES-MEXICO 1944 WATER TREATY | |
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| 38. | Minute No. 242 – Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River. | |
| 39. | Minute No. 318 – Adjustment of Delivery Schedules for Water Allotted to Mexico for the Years 2010 Through 2013 as a Result of Infrastructure Damage in Irrigation District 014, Rio Colorado, Caused by the April 2010 Earthquake in the Mexicali Valley, Baja California. | |
| 40. | Minute No. 319 – Interim International Cooperative Measures in the Colorado River Basin Through 2017 and Extension of Minute 318 Cooperative Measures to Address the Continued Effects of the April 2010 Earthquake in the Mexicali Valley, Baja California. | |
| 41. | Minute No. 322 – Extension of the Temporary Emergency Delivery of Colorado River Water for use in Tijuana, Baja California | |
| 42. | Minute No. 323 – Extension of Cooperative Measures and Adoption of a Binational Water Scarcity Contingency Plan in the Colorado River Basin | |
| 43. | 2001 Memorandum of Understanding between Reclamation and the U.S. Section of the IBWC regarding deliveries at SIB. | |
| 44. | USIBWC's Letter to Reclamation dated December 14, 2017, advising Reclamation of the implementation of Section III.6.e.iii of Minute No. 319. | |
| 45. | Reclamation's letter to USIBWC dated December 19, 2017, regarding the conversion of water pursuant to Section III.6.e.iii of Minute No. 319. | |
| 46. | USIBWC's letter to Reclamation dated April 26, 2018, advising Reclamation on the accounting of the volumes of Colorado River water deferred by Mexico in accordance with Minute Nos. 318, 319, and 323. | |
| 47. | Reclamation's letter to USIBWC dated May 11, 2018, stating its concurrence with the accounting of the volumes of Colorado River water deferred by Mexico. | |

Maps Identifying the General Location of Lower Colorado River Water Users

