

UNITED STATES
DEPARTMENT OF THE INTERIOR
James G. Watt, Secretary

BUREAU OF RECLAMATION
Robert N. Broadbent, Commissioner

LOWER COLORADO REGION
N. W. Plummer, Regional Director

COMPILATION OF RECORDS IN
ACCORDANCE WITH ARTICLE V OF THE
DECREE OF THE SUPREME COURT OF
THE UNITED STATES IN
ARIZONA v. CALIFORNIA DATED MARCH 9, 1964

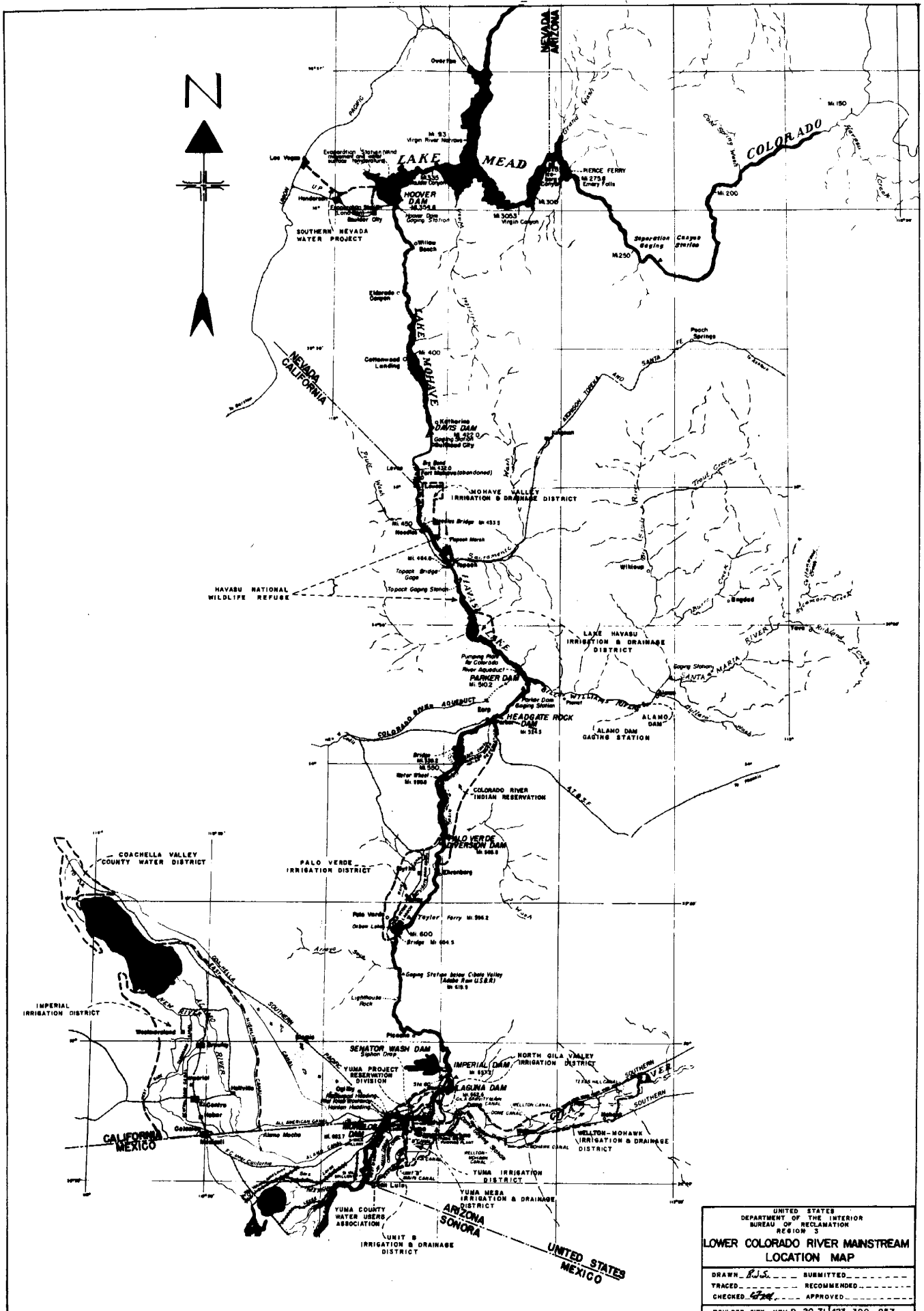
CALENDAR YEAR 1981

Division of Water and Land Operations
Boulder City, Nevada

December 1982

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UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF RECLAMATION
 REGION 3
**LOWER COLORADO RIVER MAINSTREAM
 LOCATION MAP**

DRAWN *R.J.C.* SUBMITTED _____
 TRACED _____ RECOMMENDED _____
 CHECKED *6/24* APPROVED _____

BOULDER CITY, NEV. 9-20-71 423-300-957

1

RECORDS OF RELEASES OF WATER THROUGH
REGULATORY STRUCTURES IN ACCORDANCE WITH
ARTICLE V(A) OF THE DECREE OF
THE SUPREME COURT OF THE UNITED STATES
IN ARIZONA v. CALIFORNIA DATED MARCH 9, 1964

CALENDAR YEAR 1981

The following tabulations for calendar year 1981 show final records of releases of water through regulatory structures controlled by the United States. At Hoover, Davis, Parker, Palo Verde, Imperial, and Laguna Dams, the records are furnished by the U.S. Geological Survey based on measurements at or below the structures.

The record of riverflow through Headgate Rock Dam was computed using the record of flow at the gaging station "Colorado River below Parker Dam, Arizona-California," and deducting from it the record of flow at the gaging station "Diversions for Colorado River Indian Reservation near Parker, Arizona." The diversions are made at Headgate Rock Dam.

RELEASE OF WATER THROUGH REGULATORY STRUCTURES
 CONTROLLED BY THE UNITED STATES
 CALENDAR YEAR 1981

V(A)

(ACRE-FEET)

| STRUCTURE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS |
|----------------------|--------|--------|--------|---------|--------|--------|---------|--------|--------|--------|--------|--------|---------|
| HOOVER DAM | 618800 | 536000 | 814500 | 1016000 | 857300 | 835000 | 864200 | 915100 | 662600 | 379400 | 388000 | 397200 | 8284100 |
| DAVIS DAM | 512100 | 518400 | 821500 | 1008000 | 812300 | 975700 | 1051000 | 977900 | 629300 | 392800 | 313100 | 332400 | 8344500 |
| PARKER DAM | 462400 | 453900 | 697000 | 869200 | 676200 | 829300 | 942000 | 881300 | 563800 | 326100 | 234100 | 293800 | 7229100 |
| HEADGATE ROCK DAM 1/ | 459900 | 413100 | 641400 | 801400 | 612400 | 742500 | 850700 | 798000 | 509500 | 298000 | 217100 | 277000 | 6621000 |
| PALO VERDE DAM 2/ | 426500 | 340600 | 556700 | 674000 | 507800 | 609000 | 698200 | 663400 | 429500 | 266000 | 198600 | 240700 | 5611000 |
| IMPERIAL DAM 3/ | 101300 | 19050 | 36800 | 26290 | 25880 | 25150 | 26100 | 36670 | 21740 | 17230 | 16700 | 25940 | 378850 |
| LAGUNA DAM | 101300 | 21530 | 37680 | 30150 | 26930 | 24190 | 26520 | 35010 | 20950 | 18210 | 17810 | 28300 | 388580 |

1/ COLORADO RIVER BELOW PARKER DAM LESS DIVERSION AT HEADGATE ROCK DAM.
 2/ MEASURED THROUGH THE GATES OF PALO VERDE DAM.
 3/ INCLUDES DIVERSION TO NITTRY LAKE.

RECORDS OF DIVERSIONS, RETURN FLOWS, AND CONSUMPTIVE USE
IN ACCORDANCE WITH ARTICLE V(B) OF THE DECREE OF
THE SUPREME COURT OF THE UNITED STATES IN

ARIZONA v. CALIFORNIA

DATED MARCH 9, 1964

CALENDAR YEAR 1981

The following tabulations for calendar year 1981 show final records of diversions of water from the mainstream of the Colorado River, return flow of such water to the mainstream and consumptive use of such water by water user agencies which have contracts with the United States. The records were furnished by the U.S. Geological Survey, International Boundary and Water Commission, Bureau of Indian Affairs, Bureau of Reclamation (Reclamation), National Park Service, Fish and Wildlife Service, and water user agencies. Diversions to All-American Canal and Gila Gravity Main Canal at Imperial Dam were assigned to each user based on deliveries to each user at its turnout from the canal and a prorated amount of the conveyance loss from the canal. The loss proration was based on the quantity delivered to each user and the length of the canal through which it was carried.

The tables also show estimates of water use by water users other than those which have contracts with the United States. Records of quantities of water pumped by permittees under the Lower Colorado River Land Use Program and by others are incomplete or not available. Consequently, estimates of pumpage from the mainstream, from both the river and the underground, are shown for each State. Pumping from the underground was considered from only those wells located in the flood plain of the Colorado River between the toes of the slopes on either side of the valley. Supplemental sheets are enclosed which show the estimates of water pumped by each diverter between Davis Dam and the International Boundary.

The estimate of diversion by pumping during 1981 was made by two basic methods: (1) For most electric pumps, diversion was computed on a monthly basis from power records and a "kilowatthour per acre-foot factor" that was determined by discharge measurement; (2) For pumps other than electric, a consumptive use factor of 6 acre-feet per irrigated acre per year was used. Irrigated acres were determined by field inventory during the year made with the aid of aerial photographs and orthophotomaps which were taken during May-August 1976.

There are undetermined amounts of unmeasured return flow reaching the Colorado River by means of underground flow from aquifers underlying water user areas. A Task Force on Unmeasured Return Flows to the Lower Colorado River, consisting of State and Federal members, was organized during 1970 to provide advice and guidance to Reclamation and the U.S. Geological Survey which are jointly conducting a program to determine the location and amounts of such unmeasured return flows. These studies to determine unmeasured return flows are continuing, and when quantities are determined such amounts are anticipated to be credited to the affected users and States in making the consumptive use computations.

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF ARIZONA

V(B)

(ACRE-FEET) SHEET 1 OF 5

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|---|------|------|------|------|------|------|------|------|------|------|------|-----|-----------|
| <hr/> | | | | | | | | | | | | | |
| LAKE HEAD NATIONAL RECREATION AREA DIVERISION FROM LAKE MONAVE | 9 | 6 | 11 | 22 | 23 | 37 | 41 | 37 | 28 | 24 | 19 | 16 | 273 |
| DIVERISION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| DAVIS DAM AND GOVERNMENT CAMP DIVERISION AT DAVIS DAM | 6 | 9 | 11 | 14 | 18 | 33 | 31 | 48 | 27 | 18 | 14 | 14 | 243 |
| DIVERISION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| MONAVE WATER CONSERVATION DISTRICT PUMPED FROM WELLS | 3 | 3 | 2 | 4 | 5 | 5 | 6 | 5 | 4 | 5 | 4 | 3 | 49 |
| DIVERISION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| MONAVE VALLEY I. & D. DISTRICT PUMPED FROM WELLS AND DIVERTED FROM INLET CHANNEL TO HAVASU REFUGE | 1260 | 1287 | 2608 | 3152 | 3440 | 4152 | 3822 | 6103 | 3006 | 1003 | 904 | 276 | 31013 |
| DIVERISION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| FORT MONAVE INDIAN RESERVATION 9 PUMPS AND WELLS IN FLOOD PLAIN | 725 | 899 | 1941 | 5784 | 4588 | 5350 | 7817 | 8431 | 7563 | 4315 | 3831 | 632 | 51876 |
| DIVERISION 11/ RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| HAVASU NATIONAL WILDLIFE REFUGE PUMPED FROM WELL INLET-NW NE NW SEC 33 T9N R22N 6150N | 1 | 2 | 5 | 10 | 10 | 10 | 13 | 13 | 8 | 4 | 3 | 1 | 80 |
| DIVERISION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| | 506 | 3112 | 4417 | 2351 | 4789 | 6293 | 4601 | 7404 | 4066 | 1075 | 494 | 374 | 39482 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF ARIZONA

V(B)

(ACRE-FEET) SHEET 2 OF 5

| WATER USER | (ACRE-FEET) SHEET 2 OF 5 | | | | | | | | | | | | TOTALS 1/ |
|--|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| LAKE HAVASU IRRIGATION AND DRAINAGE DISTRICT PUMPED FROM WELLS | 485 | 404 | 505 | 683 | 856 | 1005 | 1091 | 1087 | 932 | 750 | 619 | 499 | 8916 |
| DIVERSION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| GRAHAM WATER UTILITIES INC. PUMPED FROM WELLS | 7 | 7 | 8 | 10 | 6 | 13 | 15 | 14 | 12 | 9 | 8 | 7 | 116 |
| DIVERSION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| HOLIDAY HARBOR UTILITIES INC. PUMPED FROM WELLS | 1 | 1 | 1 | 1 | 2 | 3 | 4 | 4 | 3 | 2 | 1 | 1 | 24 |
| DIVERSION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| TOWN OF PARKER | 51 | 52 | 64 | 106 | 123 | 214 | 203 | 193 | 135 | 75 | 66 | 52 | 1334 |
| DIVERSION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| 1 WELL-NW NW SEC 7 T9N R19W G1SRH | 2507 | 40805 | 55572 | 67764 | 63831 | 86838 | 91340 | 83287 | 54269 | 28072 | 16978 | 16838 | 608101 |
| DIVERSION | | | | | | | | | | | | | |
| DIVERSION FROM 2 WELLS IN PARKER | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 | 9 | 9 | 9 | 112 |
| SW NE SE SEC 2 T9N R21W G1SRH | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 10 | 9 | 8 | 8 | 111 |
| 4 WELLS IN POSTON | | | | | | | | | | | | | |
| NW SEC 36 T8N R21W G1SRH | 6 | 103 | 141 | 172 | 162 | 220 | 232 | 211 | 138 | 71 | 43 | 43 | 1542 |
| 3 PUMPS | | | | | | | | | | | | | |
| SW SW NE SEC 14 T5N R22W G1SRH | 57 | 925 | 1259 | 1535 | 1446 | 1968 | 2070 | 1887 | 1230 | 636 | 365 | 362 | 13780 |
| 3 PUMPS | | | | | | | | | | | | | |
| NE SW NW SEC 14 T4N R22W G1SRH | 13169 | 13718 | 17976 | 21781 | 23755 | 23427 | 26207 | 27709 | 26368 | 21694 | 15658 | 13036 | 244518 |
| RETURN | | | | | | | | | | | | | |

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF ARIZONA

V(B)

(ACRE-FEET) SHEET 3 OF 5

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|--|------|------|------|------|------|------|------|------|------|------|------|------|-----------|
| EHRENBURG IMPROVEMENT ASSN. | | | | | | | | | | | | | |
| 1 PUMP SW SEC 3 T3N R22W G3SRM | 6 | 6 | 7 | 7 | 9 | 10 | 13 | 11 | 8 | 7 | 7 | 5 | 96 |
| DIVERSION RETURN | 493 | 28 | 1540 | 1900 | 486 | 724 | 1050 | 709 | 20 | 202 | 704 | 190 | 8046 |
| CONSUMPTIVE USE | 269 | 404 | 783 | 673 | 915 | 1078 | 1170 | 1035 | 915 | 827 | 295 | 558 | 8922 |
| DIVERSION RETURN | 0 | 0 | 391 | 1320 | 243 | 473 | 1190 | 1020 | 99 | 0 | 0 | 0 | 4736 |
| CONSUMPTIVE USE | 762 | 432 | 1932 | 1253 | 1158 | 1329 | 1030 | 724 | 836 | 1029 | 999 | 748 | 12232 |
| CIBOLA NATIONAL WILDLIFE REFUGE | | | | | | | | | | | | | |
| INLET CIBOLA LAKE | | | | | | | | | | | | | |
| 3 PUMPS | | | | | | | | | | | | | |
| ARIZONA FISH AND GAME | | | | | | | | | | | | | |
| 1 PUMP | 60 | 90 | 174 | 149 | 203 | 239 | 260 | 230 | 203 | 183 | 65 | 124 | 1980 |
| DIVERSION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| IMPERIAL NATIONAL WILDLIFE REFUGE | | | | | | | | | | | | | |
| 2 WELLS SEC 13 T5S R22W G3SRM | 8 | 9 | 9 | 16 | 14 | 15 | 14 | 15 | 12 | 11 | 10 | 5 | 138 |
| DIVERSION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| YUNA PROVING GROUND | | | | | | | | | | | | | |
| DIVERSION AT IMPERIAL DAM | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| DIVERSION RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| NORTH GILA VALLEY IRRIGATION DISTRICT | | | | | | | | | | | | | |
| DIVERSION AT IMPERIAL DAM | 2980 | 3304 | 3340 | 5848 | 4993 | 5523 | 5236 | 5582 | 4399 | 3869 | 3598 | 1917 | 50589 |
| DIVERSION RETURN | 731 | 774 | 537 | 708 | 778 | 748 | 792 | 948 | 776 | 743 | 812 | 420 | 8767 |
| CONSUMPTIVE USE | 2249 | 2530 | 2803 | 5140 | 4215 | 4775 | 4444 | 4634 | 3623 | 3126 | 2786 | 1497 | 41822 |

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF ARIZONA

V(B)

(ACRE-FEET) SHEET 5 OF 5

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|---|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-----------|
| CITY OF YUMA | | | | | | | | | | | | | |
| DIVERSION AT IMPERIAL DAM | 907 | 888 | 1041 | 1253 | 1463 | 1682 | 1780 | 1656 | 1528 | 1251 | 1116 | 1017 | 15582 |
| RETURN | 467 | 428 | 472 | 442 | 492 | 530 | 551 | 524 | 523 | 510 | 526 | 529 | 5994 |
| CONSUMPTIVE USE | 440 | 460 | 569 | 811 | 971 | 1152 | 1229 | 1132 | 1005 | 741 | 590 | 488 | 9588 |
| YUMA COUNTY WATER USERS ASSOCIATION | | | | | | | | | | | | | |
| DIVERSION 7/ | 17248 | 24349 | 25014 | 29774 | 31428 | 36247 | 41073 | 33033 | 26439 | 19542 | 14272 | 16038 | 314457 |
| DIVERSION | 652 | 543 | 620 | 614 | 725 | 735 | 796 | 688 | 674 | 685 | 653 | 598 | 7983 |
| RETURN | 7328 | 7537 | 8466 | 8990 | 9222 | 8227 | 7989 | 8815 | 8096 | 8369 | 7632 | 7102 | 97773 |
| CONSUMPTIVE USE | 10572 | 17355 | 17168 | 21398 | 22931 | 28755 | 33880 | 24906 | 19017 | 11858 | 7293 | 9534 | 224667 |
| COCOPAH INDIAN RESERVATION | | | | | | | | | | | | | |
| DIVERSION AT IMPERIAL DAM | 58 | 63 | 46 | 98 | 118 | 118 | 259 | 95 | 6 | 10 | 8 | 0 | 879 |
| PUMPED FROM WELLS | 2 | 1 | 1 | 2 | 3 | 2 | 5 | 2 | 0 | 0 | 0 | 0 | 18 |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| PROTECTIVE AND REGULATORY PUMPING UNIT | | | | | | | | | | | | | |
| RETURN 8/ | 0 | 0 | 0 | 297 | 2750 | 2800 | 3020 | 2073 | 2326 | 2711 | 27 | 2962 | 18966 |
| YUMA MESA OUTLET DRAIN | | | | | | | | | | | | | |
| RETURN 8/ | 1818 | 1787 | 2442 | 2674 | 2618 | 2346 | 2154 | 2071 | 2227 | 2535 | 2410 | 3049 | 28131 |
| OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD FLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY | | | | | | | | | | | | | |
| DIVERSION 9/ | 2377 | 3919 | 5664 | 6619 | 7829 | 8204 | 9329 | 9270 | 7195 | 5831 | 2602 | 2631 | 71470 |
| RETURN | | | | | | | | | | | | | |
| ARIZONA TOTALS | | | | | | | | | | | | | |
| DIVERSION | 64236 | 127625 | 166016 | 212053 | 203511 | 256036 | 279707 | 264487 | 194798 | 114500 | 83744 | 71225 | 2037938 |
| RETURN | 43806 | 42124 | 49475 | 54765 | 59037 | 55606 | 59235 | 61478 | 58447 | 51743 | 41131 | 45241 | 622088 |

NOTE: THE TERM 'CONSUMPTIVE USE' IN THIS TABULATION MEANS MEASURED DIVERSIONS INCLUDING UNDERGROUND PUMPING, LESS MEASURED RETURN FLOW AND LESS CURRENT ESTIMATED UNMEASURED RETURN FLOW TO THE RIVER.

- 1/ NO SURFACE RETURNS UNLESS SHOWN ON REPORT.
- 2/ CALCULATED FROM MONTHLY POWER RECORDS.
- 3/ THIS FIGURE MAY INCLUDE SOME GILA RIVER WATER. NO EFFORT HAS BEEN MADE IN THIS OR PAST REPORTS TO SEGREGATE THE GILA RIVER COMPONENT FROM THE COLORADO RIVER COMPONENT IN THE WELLTON-MOHAWK DRAINAGE AS NO METHODOLOGY HAS YET BEEN DEVELOPED THEREFOR. SUCH AN EFFORT WILL BE MADE IN FUTURE YEARS, AS DEEMED APPROPRIATE SINCE WELLTON-MOHAWK IS NOT ENTITLED TO RETURN CREDIT FOR GILA RIVER WATER. THIS FIGURE INCLUDES 148,426 ACRE-FEET OF WELLTON-MOHAWK DRAINAGE DELIVERED TO MEXICO IN EXCESS OF MINIMUM TREATY REQUIREMENTS PURSUANT TO PROVISIONS OF MINUTE NO. 242.
- 4/ PUMPED FROM UNDERGROUND AND UNASSIGNED TO DISTRICT AS RETURNS INCLUDE QUANTITIES OF DRAINAGE FROM YUMA MESA AS WELL AS FROM SOUTH GILA VALLEY.
- 5/ INCLUDES DELIVERIES TO THE FOLLOWING WATER USERS WHO HAVE CONTRACTS WITH THE UNITED STATES.

| CONTRACTOR | POINT OF DELIVERY | ANNUAL DELIVERY (ACRE-FEET) |
|--|--------------------------------------|-----------------------------|
| ----- | | |
| CITY OF YUMA | 83.7 LATERAL | 9 |
| DESERT LAWN MEMORIAL | 83.7 LATERAL | 161 |
| SOUTHERN PACIFIC COMPANY | 83.7 LATERAL | 14 |
| SOUTHERN PACIFIC COMPANY | AFTER BAY OF YUMA MESA PUMPING PLANT | 46 |
| YUMA MESA FRUIT GROWERS ASSOCIATION | 83.7 W, LATERAL | 12 |
| COUNTY OF YUMA, ARIZONA | 83.8 LATERAL | 12 |
| MARINE CORPS AIR STATION, DEPARTMENT OF THE NAVY | B CANAL AND B-5.5 W, LATERAL | 1780 |
| TOTAL | | 2034 |
| | | |
| 6/ INCLUDES DELIVERIES TO THE FOLLOWING WATER USERS WHO HAVE CONTRACTS WITH THE UNITED STATES. | B MAIN CANAL | 870 |
| UNIVERSITY OF ARIZONA | B-8 LATERAL | 88 |
| CANTILLE ALEC, JR. | | |
| 7/ INCLUDES DELIVERIES TO THE FOLLOWING WATER USERS WHO HAVE CONTRACTS WITH THE UNITED STATES. | YUMA MAIN CANAL | 312 |
| YUMA UNION HIGH SCHOOL DISTRICT | YUMA MAIN CANAL | 698 |
| CITY OF YUMA - SHUCKER PARK | | |
| 8/ RETURNS INCLUDE UNKNOWN QUANTITIES OF DRAINAGE RETURNS FROM YUMA MESA IRRIGATION AND DRAINAGE DISTRICT AS WELL AS FROM YUMA COUNTY WATER USERS ASSOCIATION AND COCOPAH INDIAN RESERVATION. | | |
| 9/ DETAILS ON ARIZONA SUPPLEMENTAL SHEETS 1-5 | | |
| 10/ MONTHLY DISTRIBUTION NOT AVAILABLE, DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA. | | |
| 11/ COMPUTED USING 6 ACRE-FEET PER IRRIGATED ACRE WITH ACREAGE FURNISHED BY THE BUREAU OF INDIAN AFFAIRS AND DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN THE IMMEDIATE AREA. | | |

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF ARIZONA

V(8)

SUPPLEMENTAL SHEETS
(ACRE-FEET) SHEET 1 OF 5

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|--|-----|-----|------|------|------|------|------|------|------|------|-----|------|-----------|
| CLAYTON, RALPH 2 PUMPS SW SE SW SEC 34 T4N R22W G1SRH 1 WELL SW SW SW SEC 34 T4N R22W G1SRH | 94 | 226 | 425 | 369 | 399 | 581 | 620 | 553 | 765 | 649 | 126 | 109 | 4916 2/ |
| DIVERSION | 0 | 0 | 0 | 0 | 0 | 65 | 45 | 143 | 27 | 0 | 0 | 0 | 280 2/ |
| ARAKELIAN FARMS 1 PUMP SE NW SE SEC 16 T6N R22W G1SRH | | | | | | | | | | | | | 2646 |
| DIVERSION | | | | | | | | | | | | | |
| CIBOLA VALLEY IRRIGATION DISTRICT 1 PUMP SE SW NW SEC 21 T1N R23W G1SRH 3 PUMPS SE SE NE SEC 20 T1N R23W G1SRH | 127 | 115 | 361 | 455 | 307 | 542 | 518 | 439 | 276 | 0 | 40 | 0 | 3180 2/ |
| DIVERSION | 638 | 956 | 1854 | 1594 | 2165 | 2550 | 2770 | 2450 | 2167 | 1958 | 698 | 1322 | 21122 2/ |
| SWAN, RON 2 PUMPS SW NW NE SEC 2 T15N R 24W G1SRH | | | | | | | | | | | | | 240 |
| DIVERSION | | | | | | | | | | | | | |
| BISHOP, LOUIS 2 PUMPS NW SW SW SEC 31 T1S R23W G1SRH | | | | | | | | | | | | | 960 |
| DIVERSION | | | | | | | | | | | | | |

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF ARIZONA

(V18)

SUPPLEMENTAL SHEETS
(ACRE-FEET) SHEET 2 OF 5

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|-------------------------------------|-----|------|------|------|------|------|------|------|------|------|-----|------|-----------|
| BLM PERMITTEES | | | | | | | | | | | | | 76 |
| DIVERSION | | | | | | | | | | | | | |
| SUBTOTALS-DAVIS DAM TO IMPERIAL DAM | 859 | 1297 | 2640 | 2418 | 2871 | 3738 | 3953 | 3585 | 3235 | 2607 | 864 | 1431 | 29498 |
| DIVERSION 3/ | | | | | | | | | | | | | |
| DIVERSION 4/ | 114 | 172 | 351 | 327 | 381 | 496 | 525 | 476 | 430 | 346 | 114 | 190 | 3922 |
| PRATT, LOREN | | | | | | | | | | | | | |
| DIVERSION | | | | | | | | | | | | | 228 |
| 1 WELL | | | | | | | | | | | | | |
| SW NW NE SEC 14 T7S R22W | | | | | | | | | | | | | |
| G1SRM | | | | | | | | | | | | | |
| 1 PUMP | | | | | | | | | | | | | |
| SE SW NW SEC 14 T7S R22W | | | | | | | | | | | | | |
| G1SRM | | | | | | | | | | | | | |
| DIVERSION | | | | | | | | | | | | | 222 |
| DALIN, ARLIN | | | | | | | | | | | | | |
| DIVERSION | | | | | | | | | | | | | |
| 1 WELL | | | | | | | | | | | | | |
| SE SW SW SEC 8 T8S R22W | | | | | | | | | | | | | |
| G1SRM | | | | | | | | | | | | | |
| 1 WELL | | | | | | | | | | | | | |
| SE SW SW SEC 7 T8S R22W | | | | | | | | | | | | | |
| G1SRM | | | | | | | | | | | | | |
| DIVERSION | 125 | 86 | 190 | 176 | 256 | 121 | 158 | 236 | 274 | 214 | 65 | 5 | 1906 2/ |
| STURGES, STEVE | | | | | | | | | | | | | |
| DIVERSION | | | | | | | | | | | | | |
| 9 WELLS | | | | | | | | | | | | | |
| SEC 18 T8S R 21W 8 SEC.'S 13 & 14 | | | | | | | | | | | | | |
| T8S R22W G1SRM | | | | | | | | | | | | | |
| DIVERSION | 613 | 1197 | 1111 | 1687 | 2013 | 1786 | 2121 | 2158 | 1204 | 1326 | 849 | 486 | 16551 2/ |
| YOMELMAN, R. | | | | | | | | | | | | | |
| DIVERSION | | | | | | | | | | | | | |
| 1 WELL | | | | | | | | | | | | | |
| NW SW SW SEC 17 T8S R22W | | | | | | | | | | | | | |
| G1SRM | | | | | | | | | | | | | |

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF ARIZONA

V(B)

SUPPLEMENTAL SHEETS
(ACRE-FEET) SHEET 3 OF 5

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| AUZA, PETE 1 WELL SE NW SW SEC 18 T8S R22W G1SRM | 0 | 243 | 272 | 331 | 272 | 238 | 293 | 345 | 350 | 313 | 0 | 0 | 2657 2/ |
| 1 PUMP SE SE NE SEC 24 T8S R23W G1SRM | | | | | | | | | | | | | 1590 |
| 1 WELL SE SE SE SEC 18 T8S R22W G1SRM | | | | | | | | | | | | | 1590 |
| OTT, JUDD I. 1 WELL NW NE NW SEC 30 T8S R22W G1SRM | 25 | 28 | 73 | 66 | 80 | 92 | 153 | 83 | 69 | 28 | 1 | 72 | 770 2/ |
| 1 WELL SE SW SW SEC 19 T8S R22W G1SRM | 36 | 28 | 32 | 40 | 39 | 44 | 66 | 64 | 57 | 18 | 10 | 31 | 465 2/ |
| CAMERON BROS. 2 WELLS SE NE SW SEC 24 T8S R22W G1SRM | 88 | 74 | 88 | 147 | 273 | 365 | 213 | 454 | 244 | 46 | 119 | 69 | 2200 2/ |
| HARP, R. 1 WELL SE NE NE SEC 13 T8S R23W G1SRM | | | | | | | | | | | | | 1458 |
| WUKASOVICH 1 WELL SE NE SW SEC 24 T8S R22W G1SRM | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 4 | 10 2/ |
| 1 WELL SW SW SE SEC 24 T8S R22W | 34 | 14 | 36 | 40 | 57 | 69 | 98 | 85 | 76 | 32 | 51 | 21 | 613 2/ |

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF ARIZONA

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 5 OF 5

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|---|------|------|------|------|------|------|------|------|------|------|------|------|-----------|
| POWER, R. E. (P. POWER) 1 PUMP SW SW NE SEC 30 T16S R22E SBH | | | | | | | | | | | | | 1920 |
| HALL, ANSIL 1 PUMP NW SW NW SEC 36 T16S R21E SBH | | | | | | | | | | | | | 480 |
| ARIZONA SUBTOTALS | 1000 | 1744 | 1903 | 2754 | 3258 | 2826 | 3453 | 3708 | 2513 | 2049 | 1156 | 719 | 27083 |
| IMPERIAL DAM TO INTERNATIONAL BOUNDARY | 404 | 706 | 770 | 1120 | 1319 | 1144 | 1398 | 1501 | 1017 | 829 | 468 | 291 | 10967 |
| ARIZONA TOTALS | 2377 | 3919 | 5664 | 6619 | 7829 | 8204 | 9329 | 9270 | 7195 | 5831 | 2602 | 2631 | 71470 |

1/ CALCULATED BY ASSUMING AN ANNUAL DIVERSION OF 6 ACRE-FEET PER IRRIGATED ACRE UNLESS OTHERWISE NOTED.

2/ CALCULATED FROM MONTHLY POWER RECORDS AND POWER-DISCHARGE MEASUREMENTS WHERE AVAILABLE, AND WHERE POWER-DISCHARGE MEASUREMENTS WERE NOT AVAILABLE CALCULATED FROM POWER-DISCHARGE RATE.

3/ TOTAL OF ITEMS FOR USERS FOR WHICH MONTHLY DISTRIBUTION IS SHOWN.

4/ TOTAL OF ITEMS FOR USERS FOR WHICH MONTHLY DISTRIBUTION IS NOT SHOWN, DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA.

V(18)

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1980

STATE OF ARIZONA

REVISION TO THE 1980 REPORT

(ACRE-FEET)

WATER USER ----- JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TOTALS 1/ -----

FORT MONTE INDIAN RESERVATION
9 PUMPS AND WELLS IN FLOOD PLAIN

DIVERSION RETURN CONSUMPTIVE USE 508 1795 5268 8485 5330 9321 11193 10701 6899 2950 1138 888 64476

OTHER USERS PUMPING FROM COLORADO RIVER
AND WELLS IN FLOOD PLAIN
DAVIS DAM TO INTERNATIONAL BOUNDARY
ARIZONA TOTALS

DIVERSION 9/ 3420 3704 3984 7309 6927 6572 8108 9063 7301 6042 3491 2685 68606
DIVERSION RETURN CONSUMPTIVE USE 57226 82769 147357 197860 168954 215450 267559 253629 195078 125730 87178 81094 1880221 12/
11728 40939 96361 140566 109138 156539 206964 188791 134213 67039 37022 31926 1221563 12/

(ACRE-FEET) SHEET 1 OF 3

V(B)

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF CALIFORNIA

| WATER USER | (ACRE-FEET) SHEET 1 OF 3 | | | | | | | | | | | | DEC | TOTALS 1/ |
|---|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | | |
| FORT MONTE INDIAN RESERVATION PUMPED FROM WELLS | 267 | 332 | 716 | 2133 | 1691 | 1972 | 2883 | 3109 | 2789 | 1591 | 1412 | 233 | 19128 | |
| DIVERSION 7/ RETURN CONSUMPTIVE USE | | | | | | | | | | | | | | |
| CITY OF NEEDLES 4 WELLS NW SW SEC 29 T9N R23E S8W | 120 | 135 | 139 | 243 | 312 | 416 | 482 | 421 | 300 | 245 | 126 | 153 | 3092 | |
| DIVERSION RETURN CONSUMPTIVE USE | 46 | 43 | 48 | 60 | 70 | 80 | 94 | 80 | 83 | 63 | 55 | 19 | 741 | |
| | 74 | 92 | 91 | 183 | 242 | 336 | 388 | 341 | 217 | 182 | 71 | 134 | 2351 | |
| SAN BERNARDINO COUNTY 1 WELL | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 15 | |
| DIVERSION RETURN CONSUMPTIVE USE | | | | | | | | | | | | | | |
| METROPOLITAN WATER DISTRICT DIVERSION FROM LAKE HAVASU | 62456 | 46612 | 57336 | 78616 | 97515 | 84337 | 93356 | 73755 | 78948 | 66651 | 48646 | 42000 | 830228 | |
| DIVERSION RETURN 5/ CONSUMPTIVE USE | 380 | 337 | 371 | 326 | 383 | 271 | 276 | 288 | 299 | 319 | 312 | 330 | 3892 | |
| | 62076 | 46275 | 56965 | 78290 | 97132 | 84066 | 93080 | 73467 | 78649 | 66332 | 48334 | 41670 | 826336 | |
| PARKER DAM AND GOVERNMENT CAMP DIVERSION AT PARKER DAM | 8 | 10 | 13 | 16 | 21 | 38 | 36 | 55 | 31 | 21 | 16 | 15 | 280 | |
| DIVERSION 6/ RETURN CONSUMPTIVE USE | | | | | | | | | | | | | | |

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF CALIFORNIA

V(B)

(ACRE-FEET) SHEET 2 OF 3

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| COLORADO RIVER INDIAN RESERVATION | | | | | | | | | | | | | |
| PUMPED FROM 11 PUMPS AND WELLS | 757 | 264 | 480 | 1435 | 2139 | 1985 | 1519 | 839 | 1982 | 1249 | 831 | 566 | 14046 |
| 1 WELL-BIG RIVER | 44 | 47 | 77 | 101 | 125 | 137 | 191 | 196 | 172 | 148 | 95 | 69 | 1402 |
| RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| PALO VERDE IRRIGATION DISTRICT | | | | | | | | | | | | | |
| DIVERSION FROM PALO VERDE DAM | 41360 | 67941 | 72301 | 103935 | 105066 | 120855 | 130197 | 126488 | 102666 | 55524 | 41094 | 40126 | 1007553 |
| RETURN | 31597 | 31372 | 36447 | 39434 | 44973 | 43389 | 44898 | 45472 | 48457 | 44823 | 38470 | 34387 | 483719 |
| CONSUMPTIVE USE | 9763 | 36569 | 35854 | 64501 | 60093 | 77466 | 85299 | 81016 | 54209 | 10701 | 2624 | 5739 | 523834 |
| YUMA PROJECT RES. DIV. INDIAN UNIT | | | | | | | | | | | | | |
| DIVERSION AT IMPERIAL DAM | 1821 | 3437 | 5289 | 4391 | 3058 | 6027 | 6948 | 5932 | 2953 | 1681 | 704 | 1526 | 43767 |
| RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| YUMA PROJECT RES. DIV. BARD UNIT | | | | | | | | | | | | | |
| DIVERSION AT IMPERIAL DAM | 2217 | 3646 | 3366 | 3976 | 4758 | 7135 | 8530 | 6198 | 3124 | 2370 | 2816 | 2604 | 50740 |
| RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| RETURNS FROM YUMA PROJECT | | | | | | | | | | | | | |
| RESERVATION DIVISION RETURNS | 2439 | 2264 | 3072 | 2877 | 3039 | 3213 | 3025 | 3315 | 2966 | 2825 | 2623 | 2905 | 34563 |
| RETURN 2/ | | | | | | | | | | | | | |
| IMPERIAL IRRIGATION DISTRICT | | | | | | | | | | | | | |
| DIVERSION AT IMPERIAL DAM | 114266 | 195563 | 267408 | 349322 | 289034 | 275583 | 327183 | 299999 | 263014 | 212895 | 146807 | 131215 | 2872289 |
| RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF CALIFORNIA

V(B)

(ACRE-FEET) SHEET 3 OF 3

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| COACHELLA VALLEY WATER DISTRICT DIVERSION AT IMPERIAL DAM | 22537 | 26851 | 35210 | 47570 | 46238 | 48081 | 53483 | 54791 | 45762 | 29924 | 20450 | 21163 | 452260 |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| CITY OF WINTERHAVEN 1 WELL SE SE NE SEC 27 T16S R22E S8M | 8 | 8 | 9 | 11 | 13 | 15 | 16 | 16 | 14 | 11 | 10 | 9 | 140 |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY | 429 | 918 | 1401 | 2152 | 2448 | 2651 | 4609 | 4141 | 2886 | 1203 | 475 | 611 | 23924 |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| CALIFORNIA TOTALS | 246291 | 345765 | 443746 | 593902 | 552419 | 549234 | 629635 | 575942 | 504642 | 373514 | 263483 | 240291 | 5318864 |
| RETURN | 34462 | 34016 | 39938 | 42697 | 48465 | 46953 | 48293 | 49155 | 51805 | 48030 | 41460 | 37641 | 522915 |
| CONSUMPTIVE USE | 211829 | 311749 | 403808 | 551205 | 503954 | 502281 | 581342 | 526787 | 452837 | 325484 | 222023 | 202650 | 4795949 |

NOTE: THE TERM 'CONSUMPTIVE USE' IN THIS TABULATION MEANS MEASURED DIVERIONS INCLUDING UNDERGROUND PUMPING, LESS MEASURED RETURN FLOW AND LESS CURRENT ESTIMATED UNMEASURED RETURN FLOW TO THE RIVER.

1/ NO SURFACE RETURNS UNLESS SHOWN ON REPORT.

2/ RETURNS UNASSIGNED INCLUDE UNKNOWN QUANTITIES OF DRAINAGE FROM THE INDIAN UNIT AND THE BARD UNIT IN THE RESERVATION DIVISION BUT EXCLUDE SEEPAGE FROM THE ALL-AMERICAN CANAL.

3/ DETAILS ON CALIFORNIA SUPPLEMENTAL SHEETS 1-6.

4/ CALCULATED FROM MONTHLY POWER RECORDS AND POWER-DISCHARGE MEASUREMENT WHERE AVAILABLE, AND WHERE POWER-DISCHARGE MEASUREMENTS WERE NOT AVAILABLE CALCULATED FROM AVERAGE POWER-DISCHARGE RATE.

5/ ESTIMATE BASED ON MEASURED REGULATORY RESERVOIRS SEEPAGE RETURNS LESS AN ESTIMATED AMOUNT OF PHREATOPHYTE USE.

6/ TOTAL OF ITEMS FOR WHICH MONTHLY DISTRIBUTION IS NOT SHOWN, DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA.

7/ COMPUTED USING 6 ACRE-FEET PER IRRIGATED ACRE WITH ACREAGE FURNISHED BY THE BUREAU OF INDIAN AFFAIRS AND DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN THE IMMEDIATE AREA.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
 AND CONSUMPTIVE USE OF SUCH WATER
 CALENDAR YEAR 1981
 STATE OF CALIFORNIA

V(B)

(ACRE-FEET) SHEET 2 OF 6

SUPPLEMENTAL SHEETS

| WATER USER | DIVERSION | (ACRE-FEET) SHEET 2 OF 6 | | | | | | | | | | | | TOTALS 1/ TOTALS 2/ | |
|--|-----------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------|------|
| | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | | |
| BERRYMAN 1 WELL NW NW NW SEC 2 T16S R23E SRM | DIVERSION | 39 | 31 | 33 | 36 | 100 | 2 | 77 | 20 | 17 | 8 | 0 | 1 | 364 | 2/ |
| DUKE (P. POWER) 1 PUMP NW SW SW SEC 14 T16S R23E SRM | DIVERSION | | | | | | | | | | | | | | 1992 |
| HITCHELL, H. 1 WELL SE SE NW SEC 22 T16S R23E SRM | DIVERSION | 0 | 44 | 56 | 66 | 64 | 0 | 12 | 45 | 44 | 44 | 27 | 16 | 418 | 2/ |
| PEREZ, F. (SLADE) 1 WELL NE SE SW SEC 6 T8S R22W GISRM | DIVERSION | 0 | 0 | 84 | 174 | 120 | 157 | 240 | 285 | 92 | 0 | 0 | 2 | 1154 | 2/ |
| BARRETT (R. HARRP) 1 WELL SE SW SW SEC 6 T8S R22W GISRM | DIVERSION | | | | | | | | | | | | | | 858 |

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
 AND CONSUMPTIVE USE OF SUCH WATER
 CALENDAR YEAR 1981
 STATE OF CALIFORNIA

V(B)

SUPPLEMENTAL SHEETS
 (ACRE-FEET) SHEET 3 OF 6

SUPPLEMENTAL SHEETS

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| SPENCER, H. 1 WELL SW NE SW SEC 9 T16S R23E G1SRM | 0 | 0 | 0 | 0 | 109 | 49 | 125 | 132 | 102 | 21 | 0 | 0 | 538 2/ |
| MARTIN, H. (A. DEES) 1 PUMP NE NW NW SEC 1 T8S R23W G1SRM | 0 | 24 | 0 | 86 | 48 | 65 | 172 | 185 | 86 | 0 | 0 | 0 | 666 2/ |
| 1 PUMP SE NE NW SEC 1 T8S R23W G1SRM | 0 | 117 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119 | 0 | 0 | 236 2/ |
| SCHWAFFER, F. (R. HARRP) 1 WELL SW SE NE SEC 2 T8S R23W G1SRM | 13 | 63 | 71 | 56 | 44 | 72 | 289 | 259 | 133 | 29 | 0 | 0 | 1029 2/ |
| COLEY, H. 1 WELL SE SE SW SEC 18 T16S R23E SBM | 0 | 9 | 20 | 37 | 54 | 40 | 105 | 125 | 5 | 14 | 0 | 95 | 504 2/ |
| COLVIN, C. F. 1 WELL NE SE SE SEC 2 T8S R23W G1SRM | 0 | 0 | 30 | 14 | 70 | 37 | 67 | 83 | 32 | 28 | 0 | 1 | 362 2/ |

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF CALIFORNIA

V(B)

(ACRE-FEET) SHEET 4 OF 6

SUPPLEMENTAL SHEETS

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| WILSON (R. HARP) 1 WELL NE NW NW SEC 12 T8S R23W G1SRH | 11 | 52 | 49 | 8 | 52 | 69 | 123 | 151 | 41 | 25 | 17 | 19 | 617 2/ |
| EASTERDAY, ANNE 1 WELL SW SW SE SEC 1 T8S R23W G1SRH | 0 | 0 | 46 | 21 | 107 | 57 | 103 | 126 | 49 | 42 | 0 | 2 | 553 2/ |
| DEES, JOHN 1 WELL SE NE SE SEC 1 T8S R23W G1SRH | 46 | 98 | 67 | 144 | 185 | 391 | 330 | 270 | 248 | 182 | 122 | 76 | 2159 2/ |
| EVANS, E. (R. HARP) 1 WELL SE NE NE SEC 12 T8S R23W G1SRH | 8 | 0 | 100 | 0 | 11 | 37 | 80 | 0 | 0 | 0 | 0 | 0 | 236 2/ |
| HARP R. 1 WELL SW NE SE SEC 12 T8S R23W G1SRH | | | | | | | | | | | | | 882 |

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
 AND CONSUMPTIVE USE OF SUCH WATER
 CALENDAR YEAR 1981
 STATE OF CALIFORNIA

V(B)

(ACRE-FEET) SHEET 5 OF 6

SUPPLEMENTAL SHEETS

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| EASTERDAY, KENNETH 1 WELL NW SE SW SEC 12 T8S R23W 61SRM | | 51 | 56 | 75 | 191 | 158 | 177 | 286 | 79 | 305 | 10 | 68 | 73 | 1529 2/ |
| SMITH, F. (P. POWER) 1 WELL NE SW SE SEC 11 T8S R23W 61SRM | | 77 | 57 | 98 | 428 | 258 | 217 | 562 | 495 | 366 | 83 | 41 | 41 | 2723 2/ |
| MUSGRAVE (BARKLEY COMPANY) 1 WELL NE SE SW SEC 19 T16S R23E S8M | | 0 | 0 | 0 | 0 | 42 | 12 | 34 | 29 | 21 | 0 | 0 | 0 | 138 2/ |
| HUTCHESON (SLADE) 1 PUMP SE SE SE SEC 27 T16S R22E S8M | | 0 | 0 | 43 | 0 | 19 | 22 | 49 | 61 | 0 | 0 | 0 | 0 | 194 2/ |
| SLADE, W. 1 PUMP SW NE SE SEC 29 T16S R22E S8M | | 0 | 0 | 0 | 46 | 12 | 39 | 41 | 49 | 36 | 5 | 0 | 0 | 228 2/ |

DIVERSTIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF CALIFORNIA

(ACRE-FEET) SHEET 6 OF 6

SUPPLEMENTAL SHEETS

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|--|-----|-----|------|------|------|------|------|------|------|------|-----|-----|-----------|
| HUDSON, C. A. 1 PUMP NE NW SW SEC 29 T16S R2ZE SBH | 0 | 0 | 0 | 104 | 38 | 119 | 268 | 259 | 121 | 0 | 0 | 0 | 909 2/ |
| CLOUD 1 WELL NW NW NW SEC 29 T16S R2ZE SBH | 0 | 29 | 43 | 3 | 117 | 112 | 217 | 201 | 213 | 54 | 5 | 0 | 994 2/ |
| CALIFORNIA SUBTOTALS IMPERIAL DAM TO INTERNATIONAL BOUNDARY | 245 | 580 | 815 | 1414 | 1608 | 1674 | 3180 | 2854 | 1911 | 664 | 280 | 326 | 15551 |
| | 68 | 162 | 228 | 404 | 451 | 470 | 893 | 801 | 536 | 186 | 78 | 91 | 4368 |
| CALIFORNIA TOTALS | 429 | 918 | 1401 | 2152 | 2448 | 2651 | 4609 | 4141 | 2886 | 1203 | 475 | 611 | 23924 |

1/ CALCULATED BY ASSUMING AN ANNUAL DIVERSION OF 6 ACRE-FEET PER IRRIGATED ACRE UNLESS OTHERWISE NOTED.
2/ CALCULATED FROM MONTHLY POWER RECORDS AND POWER-DISCHARGE MEASUREMENTS WHERE AVAILABLE, AND WHERE POWER-DISCHARGE MEASUREMENTS WERE NOT AVAILABLE CALCULATED FROM POWER-DISCHARGE RATE.
3/ TOTAL OF ITEMS FOR USERS FOR WHICH MONTHLY DISTRIBUTION IS SHOWN.
4/ TOTAL OF ITEMS FOR USERS FOR WHICH MONTHLY DISTRIBUTION IS NOT SHOWN. DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA.

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1980

V(B)

STATE OF CALIFORNIA

(ACRE-FEET)

REVISION TO THE 1980 REPORT

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|
| DIVERSION B/ RETURN | 348 | 472 | 1184 | 2346 | 2214 | 2393 | 3031 | 2865 | 1880 | 1025 | 663 | 461 | 18882 |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| DIVERSION 4/ RETURN | 380 | 996 | 1807 | 2630 | 1991 | 2573 | 3316 | 4838 | 3360 | 1935 | 511 | 331 | 24668 |
| DIVERSION | 240174 | 200040 | 441003 | 589413 | 512999 | 528864 | 608704 | 624545 | 513544 | 418620 | 300031 | 276170 | 5254235 5/ |
| RETURN | 31673 | 34040 | 37119 | 44591 | 48807 | 45951 | 48495 | 51621 | 49828 | 48559 | 41825 | 38719 | 521228 |
| CONSUMPTIVE USE | 208501 | 166000 | 403884 | 544822 | 464192 | 482913 | 560209 | 572924 | 463716 | 370061 | 258206 | 237451 | 4733007 5/ |

NOTE: THE TERM 'CONSUMPTIVE USE' IN THIS TABULATION MEANS MEASURED DIVERIONS INCLUDING UNDERGROUND PUMPING, LESS MEASURED RETURN FLOW AND LESS CURRENT ESTIMATED UNMEASURED RETURN FLOW TO THE RIVER.

1/ NO SURFACE RETURNS UNLESS SHOWN ON REPORT.

2/ RETURNS UNASSIGNED INCLUDE UNKNOWN QUANTITIES OF DRAINAGE FROM THE INDIAN UNIT AND THE BARD UNIT IN THE RESERVATION DIVISION BUT EXCLUDE SEEPAGE FROM THE ALL-AMERICAN CANAL.

3/ MONTHLY DISTRIBUTION NOT AVAILABLE.

4/ DETAILS ON CALIFORNIA SUPPLEMENTAL SHEETS 1-6.

5/ THE TOTAL IS 128 ACRE-FEET GREATER THAN THE SUM OF MONTHLY TOTALS BECAUSE OF NONAVAILABLE MONTHLY DISTRIBUTION OF DIVERSION BY THE CITY OF WINTERHAVEN.

6/ CALCULATED FROM MONTHLY POWER RECORDS AND POWER-DISCHARGE MEASUREMENT WHERE AVAILABLE, AND WHERE POWER-DISCHARGE MEASUREMENTS WERE NOT AVAILABLE CALCULATED FROM AVERAGE POWER-DISCHARGE RATE.

7/ ESTIMATE BASED ON MEASURED REGULATORY RESERVOIRS SEEPAGE RETURNS LESS AN ESTIMATED AMOUNT OF PHREATOPHYTE USE.

8/ TOTAL OF ITEMS FOR EACH MONTHLY DISTRIBUTION IS NOT SHOWN. DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA.

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF NEVADA

V(D)

(ACRE-FEET) SHEET 1 OF 4

| WATER USER | (ACRE-FEET) SHEET 1 OF 4 | | | | | | | | | | | | DEC | TOTALS 1/ | | |
|---|--------------------------|------|------|------|------|-------|-------|------|------|------|------|------|--------|-----------|--|--|
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | | | | | |
| BOULDER CITY | | | | | | | | | | | | | | | | |
| DIVERSION AT HOOVER DAM | 50 | 57 | 55 | 76 | 80 | 67 | 37 | 38 | 26 | 58 | 51 | 48 | 643 | | | |
| DIVERSION AT SADDLE ISLAND, LAKE HEAD | 166 | 140 | 176 | 340 | 422 | 560 | 640 | 530 | 452 | 323 | 247 | 174 | 4170 | | | |
| RETURN | | | | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | | | | |
| LAKE HEAD NATIONAL RECREATION AREA | | | | | | | | | | | | | | | | |
| DIVERSION AT LAKE HEAD | 100 | 78 | 97 | 99 | 126 | 105 | 125 | 112 | 85 | 64 | 57 | 50 | 1098 | | | |
| DIVERSION AT SADDLE ISLAND, LAKE HEAD | 4 | 4 | 4 | 6 | 6 | 10 | 12 | 10 | 7 | 6 | 3 | 4 | 76 | | | |
| RETURN | | | | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | | | | |
| BASIC MANAGEMENT INC. | | | | | | | | | | | | | | | | |
| DIVERSION AT SADDLE ISLAND, LAKE HEAD | 562 | 654 | 610 | 475 | 656 | 842 | 861 | 886 | 796 | 660 | 573 | 537 | 8112 | | | |
| RETURN | | | | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | | | | |
| CITY OF HENDERSON | | | | | | | | | | | | | | | | |
| DIVERSION AT SADDLE ISLAND, LAKE HEAD | 224 | 199 | 179 | 387 | 522 | 767 | 949 | 720 | 606 | 394 | 295 | 211 | 5453 | | | |
| DIVERSION AT SADDLE ISLAND, LAKE HEAD | 216 | 266 | 359 | 490 | 479 | 571 | 520 | 528 | 477 | 364 | 397 | 279 | 4946 | | | |
| RETURN | | | | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | | | | |
| LAS VEGAS VALLEY WATER DISTRICT | | | | | | | | | | | | | | | | |
| DIVERSION AT SADDLE ISLAND, LAKE HEAD | 7172 | 6486 | 7524 | 8753 | 9320 | 10477 | 11634 | 9941 | 9842 | 9264 | 8205 | 6392 | 105010 | | | |
| RETURN | | | | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | | | | |

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
 AND CONSUMPTIVE USE OF SUCH WATER
 CALENDAR YEAR 1981
 STATE OF NEVADA

V(B)

(ACRE-FEET) SHEET 2 OF 4

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|--|------|------|-----|------|------|------|------|------|------|------|------|------|-----------|
| NEVADA STATE DEPARTMENT OF FISH AND GAME | | | | | | | | | | | | | |
| DIVERSION AT SADDLE ISLAND, LAKE HEAD | 351 | 312 | 280 | 146 | 164 | 205 | 241 | 345 | 369 | 366 | 357 | 376 | 3512 |
| RETURN | 351 | 312 | 279 | 145 | 164 | 205 | 240 | 344 | 369 | 366 | 357 | 375 | 3507 |
| CONSUMPTIVE USE | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 5 |
| PACIFIC COAST BUILDING PRODUCTS INC. | | | | | | | | | | | | | |
| DIVERSION AT GYPSUM WASH, LAKE HEAD | 50 | 45 | 45 | 50 | 51 | 48 | 56 | 44 | 46 | 47 | 23 | 22 | 527 |
| RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| CITY OF NORTH LAS VEGAS | | | | | | | | | | | | | |
| DIVERSION AT SADDLE ISLAND, LAKE HEAD | 316 | 268 | 333 | 557 | 779 | 1218 | 1446 | 1076 | 911 | 490 | 475 | 297 | 8166 |
| RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| NELLIS AIR FORCE BASE | | | | | | | | | | | | | |
| DIVERSION AT SADDLE ISLAND, LAKE HEAD | 109 | 117 | 165 | 273 | 294 | 251 | 261 | 213 | 221 | 165 | 140 | 102 | 2311 |
| RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| SOUTHERN CALIFORNIA EDISON COMPANY | | | | | | | | | | | | | |
| PUMPED FROM SEC 24 T32S R66E NDB&H | 1002 | 1174 | 982 | 1089 | 1004 | 1449 | 1333 | 1148 | 1184 | 1347 | 1044 | 1227 | 13983 |
| RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |
| RAWELLI, HELEN | | | | | | | | | | | | | |
| 1 PUMP SEC 13 T32S R66E NDB&H | | | | | | | | | | | | | |
| RETURN | | | | | | | | | | | | | |
| CONSUMPTIVE USE | | | | | | | | | | | | | |

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
 AND CONSUMPTIVE USE OF SUCH WATER
 CALENDAR YEAR 1981
 STATE OF NEVADA

V(B)

(ACRE-FEET) SHEET 3 OF 4

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| WIERKE, ARMIN T. 1 PUMP SEC 33 T32S R66E N08E | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | |
| DIVERSION 4/ RETURN CONSUMPTIVE USE | | | | | | | | | | | | | |
| PORTENIER, WARREN E. 1 PUMP SEC 33 T32S R66E N08E | | | | | | | | | | | | | 42 |
| | | | | | | | | | | | | | |
| DIVERSION 4/ RETURN CONSUMPTIVE USE | | | | | | | | | | | | | |
| WELLES, JOHN C. 1 PUMP SEC 33 T32S R66E N08E | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | |
| DIVERSION 4/ RETURN CONSUMPTIVE USE | | | | | | | | | | | | | |
| KNIGHT, JOHN B. 1 PUMP SEC 33 T32S R66E N08E | | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | | |
| DIVERSION 4/ RETURN CONSUMPTIVE USE | | | | | | | | | | | | | |
| BOY SCOUTS OF AMERICA 1 PUMP SEC 5 T33S R66E N08E | | | | | | | | | | | | | 6 |
| | | | | | | | | | | | | | |
| DIVERSION 4/ RETURN CONSUMPTIVE USE | | | | | | | | | | | | | |

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1981
STATE OF NEVADA

(ACRE-FEET) SHEET 4 OF 4

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|
| LAS VEGAS WASH RETURNS | 3846 | 3417 | 3820 | 3465 | 3616 | 3653 | 3684 | 3799 | 3605 | 3882 | 3773 | 3995 | 44555 |
| RETURN 6/ | | | | | | | | | | | | | |
| NEVADA TOTALS | 10322 | 9800 | 10809 | 12741 | 13903 | 16570 | 18115 | 15591 | 15022 | 13548 | 11867 | 9719 | 158079 5/ |
| DIVERSION | 4197 | 3729 | 4099 | 3610 | 3780 | 3858 | 3924 | 4143 | 3974 | 4248 | 4130 | 4370 | 48062 |
| RETURN | 6125 | 6071 | 6710 | 9131 | 10123 | 12712 | 14191 | 11448 | 11048 | 9300 | 7737 | 5349 | 110017 5/ |
| CONSUMPTIVE USE | | | | | | | | | | | | | |

1/ NO SURFACE RETURN UNLESS SHOWN ON REPORT.
2/ DELIVERED THROUGH THE FACILITIES OF THE SOUTHERN NEVADA WATER PROJECT.
3/ DELIVERED THROUGH THE FACILITIES OF BASIC MANAGEMENT INC.
4/ REPORTS ANNUALLY.
5/ THE MONTHLY TOTALS DO NOT ADD TO THE ANNUAL TOTAL BECAUSE OF NONAVAILABILITY OF MONTHLY VALUES FOOTNOTED 4/.
6/ ESTIMATED BASED UPON THE PERCENTAGE OF COLORADO RIVER WATER USED IN THE LAS VEGAS VALLEY.

V(B)

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1980

STATE OF NEVADA

(ACRE-FEET)

REVISION TO THE 1980 REPORT

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS 1/ |
|------------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|
| LAS VEGAS WASH RETURNS | 3968 | 3133 | 4182 | 3585 | 3497 | 3334 | 3516 | 3423 | 3616 | 3698 | 3547 | 3554 | 43253 |
| RETURN 6/ | | | | | | | | | | | | | |
| NEVADA TOTALS | 7990 | 7107 | 7037 | 11307 | 13204 | 14370 | 15565 | 15890 | 13952 | 12795 | 10826 | 9976 | 140083 5/ |
| DIVERSION | 4330 | 3471 | 4538 | 3945 | 3885 | 3709 | 3898 | 4000 | 3980 | 4061 | 3906 | 3934 | 47657 |
| RETURN | 3660 | 3636 | 2499 | 7362 | 9319 | 10661 | 11667 | 11890 | 9972 | 8734 | 6920 | 6042 | 92426 5/ |
| CONSUMPTIVE USE | | | | | | | | | | | | | |

- 1/ NO SURFACE RETURN UNLESS SHOWN ON REPORT.
- 2/ DELIVERED THROUGH THE FACILITIES OF THE SOUTHERN NEVADA WATER PROJECT.
- 3/ DELIVERED THROUGH THE FACILITIES OF BASIC MANAGEMENT INC.
- 4/ REPORTS ANNUALLY.
- 5/ THE MONTHLY TOTALS DO NOT ADD TO THE ANNUAL TOTAL BECAUSE OF NONAVAILABILITY OF MONTHLY VALUES FOOTNOTED 4/.
- 6/ ESTIMATE BASED ON THE PERCENTAGE OF COLORADO RIVER WATER USED IN THE LAS VEGAS VALLEY.

RECORDS OF RELEASES OF MAINSTREAM WATER PURSUANT TO
ORDERS BUT NOT DIVERTED BY PARTY ORDERING SAME
AND QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN
SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
IN ACCORDANCE WITH ARTICLE V(C) OF THE
DECREE OF THE SUPREME COURT OF
THE UNITED STATES IN
ARIZONA v. CALIFORNIA DATED MARCH 9, 1964

CALENDAR YEAR 1981

The following tabulations for calendar year 1981 show records of releases of mainstream water pursuant to orders, therefore, 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 decreed rights. Also shown are quantities of such rejected water delivered to Mexico in excess of treaty requirements and quantities delivered to storage. The quantities delivered to storage were available to release for future use.

Water ordered but not diverted was analyzed daily for each diverter as the positive difference between the finally approved daily order and the mean daily delivery requested on the day the diversion was made. The monthly quantities shown on the tabulations are the sum of the daily positive quantities. Final approval of daily orders was given in advance of the delivery date by the amount of travel time involved in conveying the water from the storage point to the diversion point on the mainstream. To the extent possible, "water ordered but not diverted" was delivered to others in satisfaction of their rights. The quantities of such deliveries are shown on the tabulation.

Deliveries of water to Mexico in satisfaction of the Mexican Treaty were scheduled based on Mexico's daily orders. Releases from storage were scheduled in sufficient quantities, which when added to return flows, would meet Mexico's daily orders. Deliveries of water to Mexico in satisfaction of the treaty, therefore, were considered to have been made entirely from releases from storage and from return flows scheduled for that purpose and not from water ordered but not diverted by other Colorado River water users. Therefore, the tabulations show no "water ordered but not diverted" as being delivered to Mexico in satisfaction of the treaty.

To date, no orders are received for diversions from the Colorado River in Nevada so no sheet is included in Nevada. The storage capacity of Lake Mead is so large in relation to the present daily diversions from the reservoir by Nevada that any "water ordered but not diverted" would be retained for future use and would have no significant effect on scheduling of daily operations of the reservoir.

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS
BUT NOT DIVERTED BY PARTY ORDERING SAME

V(C)

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
AND
CALENDAR YEAR 1981
STATE OF ARIZONA

| WATER USER | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| (ACRE-FEET) SHEET 2 OF 3 | | | | | | | | | | | | | | |
| WELLTON-MOHAWK I. & D. DISTRICT DIVERSION AT IMPERIAL DAM | | 6569 | 2247 | 6550 | 3860 | 6054 | 4340 | 5415 | 5470 | 5264 | 3644 | 1567 | 5080 | 56060 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | | 446 | 129 | 182 | 377 | 1063 | 555 | 1636 | 657 | 938 | 653 | 595 | 758 | 7989 |
| DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY | | 6123 | 1787 | 5527 | 2989 | 4991 | 3785 | 3779 | 3313 | 4326 | 2991 | 972 | 4322 | 44905 |
| YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM | | 526 | 353 | 1224 | 605 | 702 | 482 | 121 | 516 | 163 | 393 | 405 | 38 | 5528 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | | 216 | 137 | 284 | 145 | 147 | 123 | 71 | 91 | 50 | 303 | 192 | 2 | 1761 |
| DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY | | 310 | 168 | 654 | 404 | 555 | 359 | 50 | 360 | 113 | 90 | 213 | 36 | 3312 |
| YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM | | 3830 | 2575 | 4007 | 2828 | 1212 | 962 | 260 | 1351 | 1964 | 3003 | 2007 | 4748 | 28747 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | | 420 | 716 | 817 | 855 | 167 | 349 | 177 | 93 | 424 | 1006 | 718 | 452 | 6194 |
| DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY | | 3410 | 1542 | 2339 | 1743 | 1045 | 613 | 83 | 701 | 1540 | 1997 | 1289 | 4296 | 20598 |
| UNIT 'B' I. & D. DISTRICT DIVERSION AT IMPERIAL DAM | | 407 | 202 | 430 | 311 | 301 | 206 | 228 | 567 | 413 | 442 | 93 | 369 | 3969 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | | 18 | 67 | 44 | 28 | 42 | 10 | 123 | 107 | 165 | 103 | 60 | 103 | 870 |
| DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY | | 389 | 81 | 247 | 259 | 259 | 196 | 105 | 280 | 248 | 339 | 33 | 266 | 2702 |

RELEASE OF STREAM WATER PURSUANT TO ORDERS
BUT NOT DIVERTED BY PARTY ORDERING SAME

(VIC)

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
AND
CALENDAR YEAR 1981
STATE OF ARIZONA

(ACRE-FEET) SHEET 3 OF 3

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS |
|--|-------|-------|-------|-------|-------|------|------|-------|-------|-------|------|-------|--------|
| CITY OF YUMA DIVERSION AT IMPERIAL DAM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 17 | 162 | 100 | 155 | 495 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 5 | 101 | 64 | 82 | 271 |
| DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 12 | 61 | 36 | 73 | 210 |
| YUMA COUNTY WATER USERS ASSN. DIVERSION AT IMPERIAL DAM | 2630 | 1730 | 3821 | 3003 | 2776 | 1998 | 1336 | 5377 | 1560 | 1878 | 1583 | 1874 | 29566 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | 670 | 968 | 963 | 1005 | 649 | 1201 | 535 | 1659 | 451 | 1175 | 1020 | 987 | 11283 |
| DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY | 1960 | 469 | 2458 | 1632 | 2227 | 797 | 801 | 2456 | 1109 | 703 | 563 | 887 | 16062 |
| COCOPAH INDIAN RESERVATION DIVERSION AT IMPERIAL DAM | 8 | 4 | 5 | 8 | 9 | 5 | 7 | 13 | 0 | 1 | 1 | 0 | 61 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | 2 | 2 | 1 | 3 | 2 | 3 | 3 | 4 | 0 | 1 | 1 | 0 | 22 |
| DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY | 6 | 1 | 3 | 4 | 7 | 2 | 4 | 6 | 0 | 0 | 0 | 0 | 33 |
| ARIZONA TOTALS | 15811 | 10017 | 18509 | 13354 | 13175 | 9667 | 9095 | 15848 | 11208 | 10404 | 6505 | 13980 | 147573 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | 1931 | 2501 | 3114 | 3190 | 2425 | 2875 | 3220 | 3092 | 2966 | 3756 | 3054 | 3028 | 35152 |
| DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY | 13880 | 6416 | 12823 | 8920 | 10850 | 6792 | 5875 | 9082 | 8242 | 6648 | 3451 | 10952 | 103931 |
| EXCESS OF TREATY | 0 | 1100 | 2572 | 1244 | 0 | 0 | 0 | 3674 | 0 | 0 | 0 | 0 | 8590 |

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS
BUT NOT DIVERTED BY PARTY ORDERING SAME

V(C)

AND

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
CALENDAR YEAR 1981

STATE OF CALIFORNIA

(ACRE-FEET) SHEET 1 OF 2

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS |
|--|------|-----|------|-----|------|------|------|------|------|------|------|------|--------|
| METROPOLITAN WATER DISTRICT DIVERSION AT LAKE HAVASU | 2524 | 0 | 0 | 94 | 1776 | 138 | 2124 | 275 | 1102 | 1549 | 0 | 0 | 9582 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY | 2524 | 0 | 0 | 94 | 1776 | 138 | 2124 | 275 | 1102 | 1549 | 0 | 0 | 9582 |
| PALO VERDE IRRIGATION DISTRICT DIVERSION AT PALO VERDE DAM | 843 | 105 | 932 | 831 | 460 | 1424 | 1349 | 1410 | 294 | 545 | 58 | 119 | 8370 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | 278 | 95 | 230 | 238 | 194 | 454 | 633 | 177 | 175 | 65 | 16 | 22 | 2577 |
| DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY | 565 | 10 | 702 | 539 | 266 | 970 | 716 | 1233 | 119 | 480 | 42 | 97 | 5739 |
| YUMA PROJECT RESV. DIVISION BARD UNIT DIVERSION AT IMPERIAL DAM | 953 | 417 | 1335 | 919 | 1289 | 1185 | 859 | 1364 | 914 | 471 | 1234 | 1018 | 11958 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | 531 | 173 | 956 | 536 | 750 | 612 | 562 | 248 | 440 | 327 | 885 | 588 | 6608 |
| DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY | 422 | 103 | 294 | 286 | 539 | 573 | 297 | 712 | 475 | 145 | 349 | 430 | 4625 |
| YUMA PROJECT RESV. DIVISION INDIAN UNIT DIVERSION AT IMPERIAL DAM | 798 | 426 | 1486 | 807 | 905 | 1072 | 708 | 1383 | 923 | 344 | 321 | 633 | 9806 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | 445 | 178 | 1066 | 372 | 527 | 554 | 463 | 252 | 443 | 238 | 230 | 366 | 5134 |
| DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY | 353 | 105 | 325 | 252 | 378 | 518 | 245 | 722 | 479 | 105 | 91 | 268 | 3841 |
| | 0 | 144 | 95 | 84 | 0 | 0 | 0 | 404 | 0 | 0 | 0 | 0 | 732 |

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS
BUT NOT DIVERTED BY PARTY ORDERING SAME

AND

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
CALENDAR YEAR 1981

STATE OF CALIFORNIA

(ACRE-FEET) SHEET 2 OF 2

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS |
|--|-------|------|-------|------|------|------|------|-------|------|------|------|------|--------|
| IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM | 8051 | 6183 | 19607 | 2303 | 2513 | 0 | 0 | 8434 | 0 | 0 | 1851 | 0 | 48942 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | 0 | 0 | 3306 | 514 | 341 | 0 | 0 | 44 | 0 | 0 | 454 | 0 | 4659 |
| DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY | 8051 | 2803 | 8298 | 1599 | 2172 | 0 | 0 | 349 | 0 | 0 | 1397 | 0 | 24669 |
| COACHELLA VALLEY WATER DIST. DIVERSION AT IMPERIAL DAM | 5092 | 0 | 2380 | 793 | 1583 | 0 | 99 | 298 | 889 | 357 | 99 | 0 | 11590 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | 325 | 0 | 44 | 143 | 337 | 0 | 99 | 0 | 83 | 2 | 0 | 0 | 1033 |
| DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY | 4767 | 0 | 1132 | 650 | 1246 | 0 | 0 | 0 | 806 | 355 | 99 | 0 | 9055 |
| CALIFORNIA TOTALS | 18261 | 7131 | 25740 | 5747 | 8526 | 3819 | 5139 | 13164 | 4122 | 3266 | 3563 | 1770 | 100248 |
| ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIVERTED BY OTHERS | 1579 | 446 | 5602 | 1803 | 2149 | 1620 | 1757 | 721 | 1141 | 632 | 1585 | 976 | 20011 |
| DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY | 16682 | 3021 | 10751 | 3420 | 6377 | 2199 | 3382 | 3291 | 2981 | 2634 | 1978 | 795 | 57511 |
| EXCESS OF TREATY | 0 | 4164 | 9387 | 424 | 0 | 0 | 0 | 9152 | 0 | 0 | 0 | 0 | 23127 |

1/ AVAILABLE FOR FUTURE USE.

RECORDS OF DELIVERIES TO MEXICO OF WATER
IN SATISFACTION OF THE TREATY OF FEBRUARY 3, 1944,
AND WATER PASSING TO MEXICO IN EXCESS OF
TREATY REQUIREMENTS IN ACCORDANCE WITH
ARTICLE V(D) OF THE DECREE OF
THE SUPREME COURT OF THE UNITED STATES
IN ARIZONA v. CALIFORNIA DATED MARCH 9, 1964

CALENDAR YEAR 1981

V(D)

DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY

AND
WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS
CALENDAR YEAR 1981

(ACRE-FEET)

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS |
|---|--------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|---------|
| DELIVERIES TO MEXICO IN SATISFACTION OF TREATY 1/ | 55370 | 81731 | 211991 | 241042 | 155617 | 178542 | 220798 | 234825 | 105522 | 57209 | 54519 | 102834 | 1700000 |
| PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS 2/ 3/ | 311386 | 28933 | 31639 | 16211 | 14095 | 12023 | 11437 | 15905 | 12228 | 12334 | 12015 | 12672 | 490898 |

1/ INCLUDES 200,000 ACRE-FEET SCHEDULED UNDER PARAGRAPH (E), ARTICLE 15, OF THE 1944 TREATY WITH MEXICO.

2/ INCLUDES 148,426 ACRE-FEET DELIVERED PURSUANT TO MINUTE 242.

3/ INCLUDES GILA RIVER WATER AND ANTICIPATORY FLOOD CONTROL RELEASES FROM HOOVER DAM DURING THE MONTH OF JANUARY.

DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY
 AND
 WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS
 CALENDAR YEAR 1980

V(D)

REVISION TO THE 1980 REPORT

(ACRE-FEET)

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| DELIVERIES TO MEXICO IN SATISFACTION OF TREATY 1/ | 55370 | 108473 | 204931 | 225067 | 116652 | 163798 | 218337 | 248457 | 93507 | 62259 | 60309 | 142840 | 1700000 |
| PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS 2/ 3/ | 226616 | 166816 | 455777 | 467035 | 566619 | 503156 | 448733 | 432043 | 567497 | 669507 | 580364 | 411035 | 5495198 |

- 1/ INCLUDES 200,000 ACRE-FEET SCHEDULED UNDER PARAGRAPH (E), ARTICLE 15, OF THE 1944 TREATY WITH MEXICO.
- 2/ INCLUDES 154,630 ACRE-FEET DELIVERED PURSUANT TO MINUTE 242.
- 3/ INCLUDES PAINTED ROCK FLOOD CONTROL RELEASES AND ANTICIPATORY FLOOD CONTROL RELEASES FOR HOOVER DAM.

RECORDS OF 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 IN ACCORDANCE WITH
ARTICLE V(E) OF THE DECREE OF
THE SUPREME COURT OF THE UNITED STATES IN
ARIZONA v. CALIFORNIA DATED MARCH 9, 1964

CALENDAR YEAR 1981

V(E)

DIVERIONS OF WATER FROM MAINSTREAM OF GILA AND SAN FRANCISCO RIVERS
 AND
 CONSUMPTIVE USE OF SUCH WATER FOR BENEFIT OF THE GILA NATIONAL FOREST

CALENDAR YEAR 1981

(ACRE-FEET)

| WATER USER | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | TOTALS |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| GILA RIVER | | | | | | | | | | | | | 0 |
| DIVERSION | | | | | | | | | | | | | 0 |
| CONSUMPTIVE USE | | | | | | | | | | | | | 0 |
| SAN FRANCISCO RIVER | | | | | | | | | | | | | 0 |
| DIVERSION | | | | | | | | | | | | | 0 |
| CONSUMPTIVE USE | | | | | | | | | | | | | 0 |