

**SUMMARY WATER REPORT
COLORADO RIVER BASIN
September 1, 2009**

| RESERVOIR STORAGE (as of August 31) | August 5, 2009 | | | | | |
|--|----------------|------------------|------------------|---------------|------------------|------------------|
| | MAF | ELEV. IN FEET | □ of Capacity | MAF | ELEV. IN FEET | □ of Capacity |
| Lake Powell | 15.710 | 3,637.5 | 65 | 16.116 | 3,641.0 | 66 |
| Flaming Gorge | 3.448 | 6,032.5 | 92 | 3.477 | 6,033.3 | 93 |
| Navajo | 1.347 | 6,060.0 | 79 | 1.419 | 6,065.4 | 84 |
| Lake Mead | 10.938 | 1,093.7 | 42 | 10.990 | 1,094.3 | 42 |
| Lake Mohave | 1.669 | 641.9 | 92 | 1.646 | 641.0 | 91 |
| Lake Havasu | 0.584 | 448.2 | 94 | 0.582 | 448.1 | 94 |
| Total System Storage | 34.839 | | 58 | 35.476 | | 60 |
| System Storage Last Year | 34.521 | | 58 | 34.953 | | 59 |

| | August 5, 2009 | |
|---|---------------------------|----------------------------|
| WY 2009 Precipitation (Basin Weighted Avg) 10/01/08 through 8/31/09 | 99 percent (30.1") | 103 percent (29.3") |
| WY 2009 Snowpack Water Equivalent (Basin Weighted Avg) on day of 8/31/09 (Above two values based on average of data from 116 sites.) | NA (NA) | NA (NA) |
| | | Observed |
| | | <u>July 1, 2009</u> |
| August 17, 2009 Final Forecasted Unregulated Lake Powell Inflow | MAF % of Normal | MAF □ of Avg. |
| 2009 April through July unregulated inflow forecast | 7.814 99 □ | 7.813 98 □ |
| 2009 Water Year forecast | 10.974 91 □ | 11.048 92 □ |

USBR Forecasted Year-End 2009 and 2008 Consum. Use, September 1, 2009 a./ MAF

| | 2009 | | 2008 | |
|---|--------------|------------------|-------------------|------------------|
| | Diversion | - Return □ | Net | |
| Nevada (Estimated Total) | 0.499 | 0.209 | 0.290 | 0.269 |
| Arizona (Total) | 3.631 | 0.848 | 2.783 | 2.777 |
| CAP Total | | | 1.581 | 1.562 |
| <i>Az. Water Banking Authority</i> | | | 0.134 | 0.214 |
| OTHERS | | | 1.202 | 1.216 |
| California (Total) b. □ | 4.932 | 0.676 | 4.256 | 4.502 |
| MWD | | | 0.916 | 0.906 |
| 3.85 Agriculture | <u>Total</u> | <u>Conserved</u> | <u>Forecasted</u> | <u>Estimated</u> |
| IID c. □ | 2.894 | -0.263 | 2.631 | 2.825 |
| CVWD d. □ | 0.337 | -0.030 | 0.307 | 0.299 |
| PVID | 0.312 | 0 | 0.312 | 0.376 |
| YPRD | 0.037 | 0 | 0.037 | 0.045 |
| Island e. □ | 0.006 | 0 | 0.006 | 0.007 |
| <i>Total Ag.</i> | 3.586 | -0.293 | 3.293 | 3.552 |
| Others | | | 0.047 | 0.044 |
| PVID-MWD following to storage | | | 0 | 0 |
| Arizona, California, and Nevada Total f. □ | 9.062 | 1.733 | 7.329 | 7.549 |

- a. □ Incorporates July USGS monthly data and 75 daily reporting stations which may be revised after provisional data reports are distributed by USGS. Use to date estimated for users reporting monthly and annually.
- b. □ California 2009 basic use apportionment of 4.4 MAF has been adjusted for approved paybacks for 01-02 obligations (3,751 AF), payback of Inadvertent Overrun and Payback Policy overruns (1,349 AF), (25,000 AF) ICS by IID, MWD recovery of interstate underground storage from Arizona (30,000 AF). Plus delivery of System Efficiency ICS (34,000 AF), and 2,750 Af Drop 2 Construction Water.
- c. □ 0.105 MAF conserved by IID-MWD Agreement as amended in 2007: 90,000 AF for SDCWA under the IID-SDCWA Transfer Agreement as amended, 60,000 AF of which is being diverted by MWD; 8,000 AF for CVWD under the IID-CVWD Acquisition Agreement, 59,670 AF from the All-American Canal Lining Project.
- d. □ 26,000 acre-feet conserved by the Coachella Canal Lining Project and 3,751 AF of payback.
- e. □ Includes estimated amount of 6,136 acre-feet of disputed uses by Yuma Island pumpers and 0 acre-feet by Yuma Project Ranch 5 being charged by USBR to Priority 2.
- f. □ Includes unmeasured returns based on estimated consumptive use/diversion ratios by user from studies provided by Arizona Dept. of Water Resources, Colorado River Board of California, and Reclamation.

Monthly Total Colorado River Basin Storage

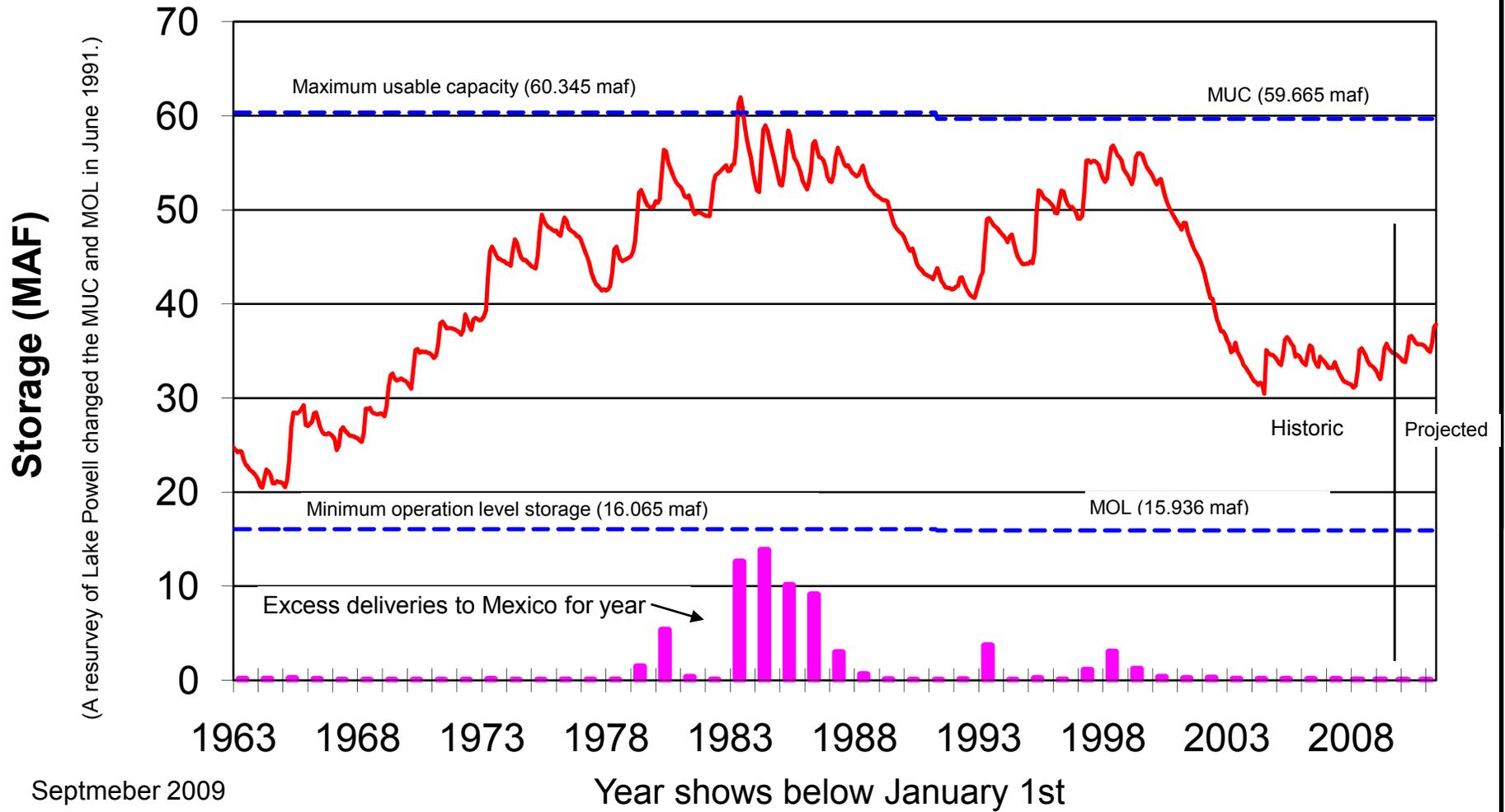
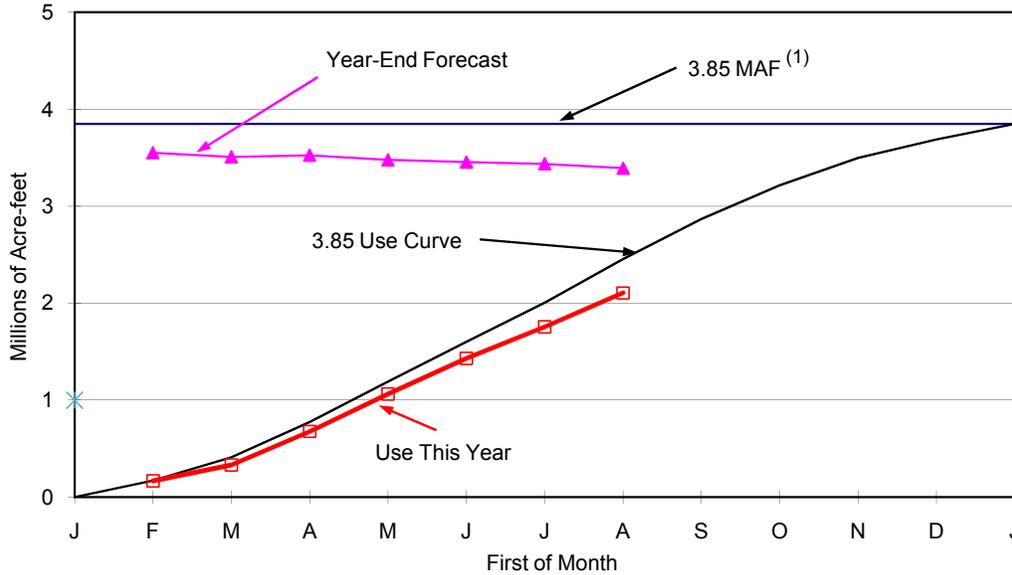


FIGURE 1
SEPTEMBER 1, 2009 FORECAST YEAR-END COLORADO RIVER WATER USE
BY THE CALIFORNIA AGRICULTURAL AGENCIES



| Forecast of Colorado River Water Use by the California Agricultural Agencies (Millions of Acre-feet) | | | |
|--|--------------------------------|--------------------------------|------------------------------------|
| Month | Use as of First of Month | Forecast of Year End Use | Forecast of Unused Water (1) |
| Jan | 0.000 | ----- | ----- |
| Feb | 0.168 | 3.551 | 0.019 |
| Mar | 0.332 | 3.509 | 0.061 |
| Apr | 0.678 | 3.526 | 0.044 |
| May | 1.064 | 3.478 | 0.092 |
| Jun | 1.430 | 3.454 | 0.116 |
| Jul | 1.755 | 3.437 | 0.133 |
| Aug | 2.106 | 3.392 | 0.178 |
| Sep | | | |
| Oct | | | |
| Nov | | | |
| Dec | | | |
| Jan | | | |

(1) The forecast of unused water is based on the availability of 3.600 MAF under the first three priorities of the water delivery contracts. This accounts for the 85,000 af of conserved water available to MWD under the 1988 IID-MWD Conservation agreement and the 1989 IID-MWD-CVWD-PVID Agreement as amended; 60,000 af of conserved water available to SDCWA under the IID-SDCWA Transfer agreement as amended being diverted by MWD; 26,000 af of conserved water available to SDCWA and MWD as a result of the Coachella Canal Lining Project; 59,670 af of water projected to be available to SDCWA and MWD as a result of the All-American Canal Lining Project; 14,500 af of water IID and CVWD are forbearing to permit the Secretary of the Interior to satisfy apportion of Indian and miscellaneous present perfected rights use; 3,751 af of California Agricultural water paybacks; and 25,000 af of Intentionally Created Surplus by IID 2007. As USBR is charging disputed uses by Yuma island pumpers to Priority 2, the amount of unused water has been reduced by those uses -6,136 af. The CRB does not concur with USBR's viewpoint on this matter.

COLORADO RIVER BOARD OF CALIFORNIA

August 28, 2009

COLORADO RIVER WATER REPORT

The following report summarizes data obtained from provisional reports of the U.S. Geological Survey, U.S. Bureau of Reclamation, International Boundary and Water Commission, and Imperial Irrigation District.

I. Active Surface Storage in Reservoirs at end of Month (Thousand Acre-feet).

July 2009

| <u>Upper Basin</u> | <u>Storage</u> | <u>Elevation in feet</u> | <u>% of Capacity</u> | <u>Change During Month</u> | <u>Change from 2008</u> |
|--------------------------------|----------------|------------------------------|--------------------------|------------------------------------|---------------------------------|
| Lake Powell | 16,138 | 3,641.1 | 66% | 77 | 947 |
| Flaming Gorge | 3,478 | 6,033.3 | 93% | 136 | 412 |
| Fontenelle | 340 | 6,505.4 | 99% | 10 | 10 |
| Navajo | 1,422 | 6,065.7 | 84% | -57 | 53 |
| Blue Mesa | 785 | 7,514.5 | 95% | -41 | 23 |
| Morrow Point | 113 | 7,155.3 | 97% | -2 | 2 |
| Crystal | 14 | 6,743.2 | 79% | -3 | -2 |
| Sub-total | 22,291 | | 72% | 120 | 1,446 |
| <u>Lower Basin</u> | | | | | |
| Lake Mead | 10,978 | 1,094.2 | 42% | -93 | -912 |
| Lake Mohave | 1,654 | 641.4 | 91% | -15 | -12 |
| Lake Havasu | 582 | 448.1 | 94% | -8 | 5 |
| Sub-total | 13,214 | | 46% | -116 | -919 |
| Upper and Lower Basin Total | 35,506 | | 60% | 5 | 528 |

1/ Figures shown do not include reservoir dead storage.

2/ Storage above minimum operation level is $35,506 - 15,936 = 19,570$ thousand acre-feet. Minimum operation level (15,936 thousand acre-feet) is defined as the sum of active content at minimum power pool plus minimum active content required to make surface diversions at Lake Havasu and Navajo Reservoir.

II. Upper Basin Discharge (Acre-feet).

| <u>Station</u> | <u>Meas. Flow July 2009</u> | <u>Cumulative Flow October thru July</u> | <u>Meas. Flow Adjusted for CRSP Surface Storage Changes</u> | |
|----------------------------------|-----------------------------|--|---|---|
| | | | <u>July 2009</u> | <u>% of July 87- year average (1922-2008 water years)</u> |
| Green River at Green River, Utah | 323,800 | 3,291,800 | 459,200 | 106% |
| Colorado River near Cisco, Utah | 581,300 | 5,098,500 | 535,300 | 103% |
| San Juan River near Bluff, Utah | 50,800 | 856,800 | -6,500 | _5% |
| At Lee Ferry (Compact Point) | 829,600 | 6,963,000 | 938,900 | 82% |

III. Lower Basin Discharge (Acre-feet).

| <u>Station</u> | <u>July 2009</u> | <u>Cumulative Flow October thru July</u> |
|--------------------|------------------|--|
| Below Hoover Dam | 839,900 | 7,836,400 |
| Below Davis Dam | 924,700 | 8,120,900 |
| Below Parker Dam | 676,900 | 5,385,500 |
| Above Imperial Dam | 520,600 | 4,519,100 |

IV. Consumptive Use of Lower Colorado River Mainstream Water (Acre-feet).
July, 2009

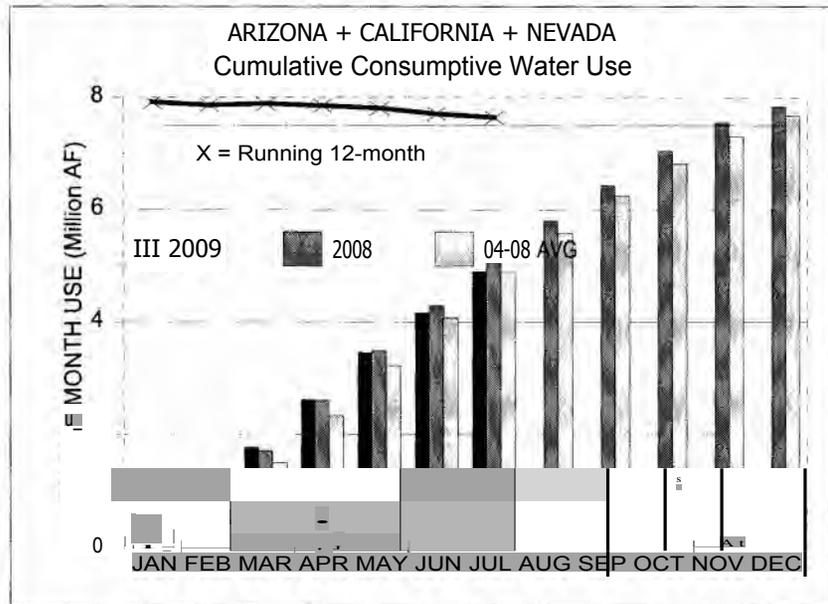
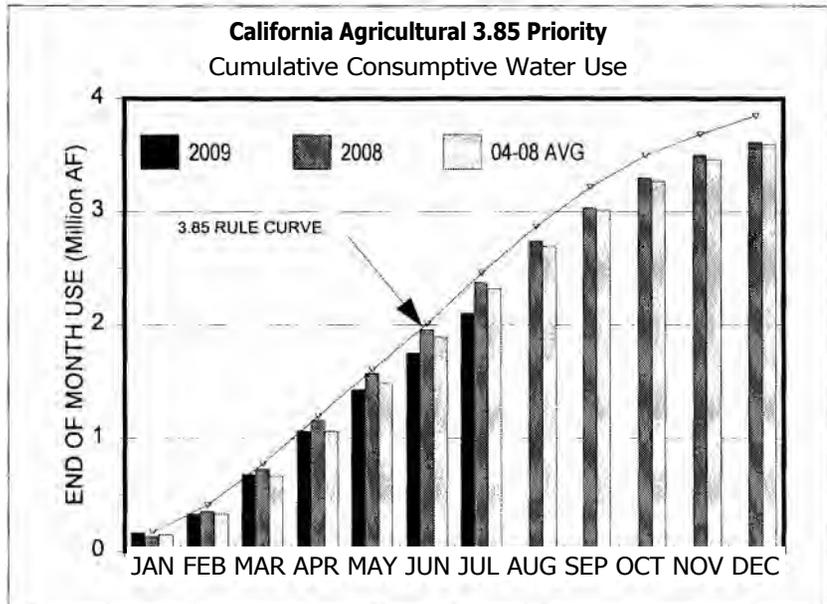
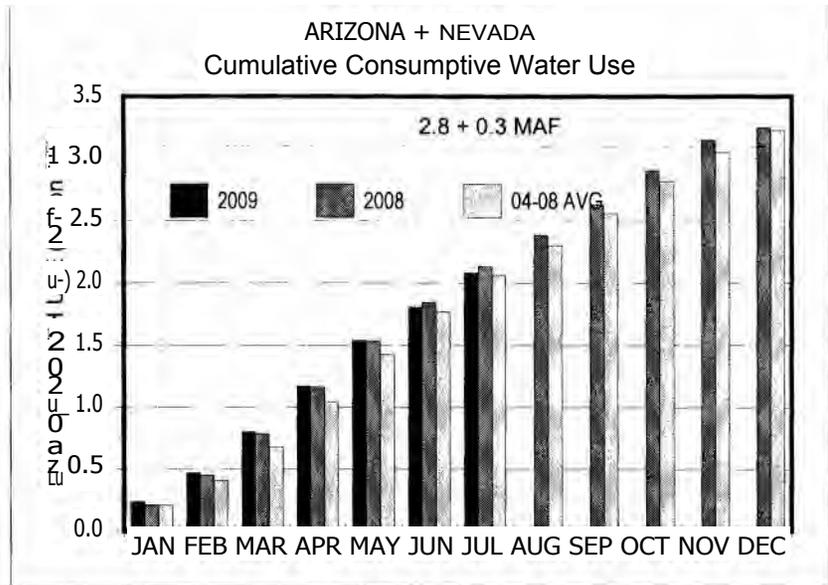
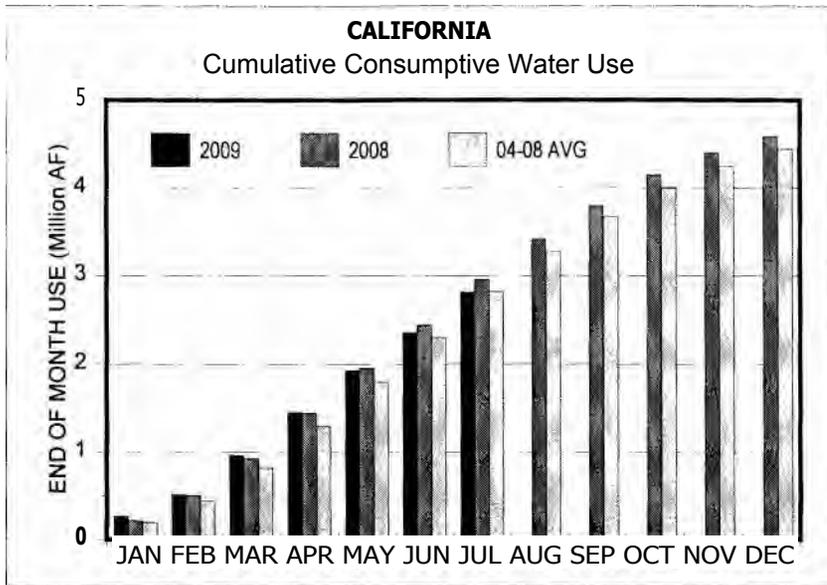
| California Users | Diversion | Return | Consumptive Use | Change in Cons. Use From Jul. 2008 | Cumulative Cons. Use | | |
|---|-----------|---------|-----------------|------------------------------------|----------------------|--|---------------------|
| | | | | | January thru July | Change from 12 Months prej. Jan. thru Jul. | 12 Months thru July |
| Palo Verde Irrig. Dist. | 89,230 | 38,560 | 50,670 | -11,720 | 235,670 | -55,230 | 370,800 |
| Yuma Proj. (Res. Div.)' | 4,040 | 2,420 | 1,620 | -1,810 | 25,300 | -10,320 | 36,590 |
| Imperial Irrig. Dist. 2/ | 261,910 | | 261,910 | -54,150 | 1,649,760 | -213,490 | 2,606,760 |
| Salton Sea Mitigation | 1,560 | | 1,560 | 570 | 17,310 | 7,060 | 33,110 |
| USBR SaltonSea Operations | 0 | | 0 | 0 | 0 | 0 | 0 |
| IID plus Salton Sea Mitigation | 263,470 | | 263,470 | -53,580 | 1,667,070 | -206,430 | 2,639,870 |
| Coachella Val. Wat. Dist. L | 35,300 | | 35,300 | 1,380 | 177,200 | 4,150 | 302,680 |
| Subtotal | 392,040 | 40,980 | 351,060 | -65,730 | 2,105,240 | -267,830 | 3,349,940 |
| Fort Mojave In Res. ci | 4,300 | | 4,300 | 0 | 14,820 | 0 | 24,760 |
| Cal. Miscellaneous LI/ | 5,300 | | 5,300 | 0 | 21,250 | 0 | 34,000 |
| Metropolitan Water Dist. | 99,980 | 430 | 99,550 | 12,850 | 675,760 | 127,300 | 1,035,530 |
| Total | 501,620 | 41,410 | 460,210 | -52,880 | 2,817,070 | -140,530 | 4,444,230 |
| <u>Arizona Users</u> | | | | | | | |
| Central Arizona Project | 74,920 | | 74,920 | -3,160 | 1,019,790 | -14,510 | 1,547,120 |
| Colorado River Ind. Res. | 74,460 | 18,660 | 55,800 | -7,620 | 302,630 | 11,760 | 444,260 |
| Gila Gravity Main Canal | 85,190 | 20,060 | 65,130 | 640 | 332,830 | -17,060 | 507,980 |
| Yuma Proj. (Valley Div.) | 29,130 | 11,890 | 17,240 | -240 | 135,480 | -23,250 | 202,690 |
| Fort Mojave Ind. Res. 2/ | 8,450 | | 8,450 | 0 | 49,280 | 0 | 85,130 |
| Havasu Nat. Wildlife Ref. | 3,760 | 0 | 3,760 | -500 | 27,930 | -1,820 | 35,560 |
| Arizona Miscellaneous | 11,320 | | 11,320 | 0 | 52,040 | 0 | 85,000 |
| Total | 287,230 | 50,610 | 236,620 | -10,880 | 1,919,980 | -44,880 | 2,907,740 |
| <u>Nevada Users</u> | | | | | | | |
| From Lake Mead | 46,470 | 9,290 | 37,180 | -2,180 | 159,630 | -6,750 | 289,710 |
| Mohave Steam Plant | 40 | | 40 | -10 | 280 | 0 | 480 |
| Total | 46,510 | 9,290 | 37,220 | -2,190 | 159,910 | -6,750 | 290,190 |
| Total Consumptive Use (Ariz., Cal., Nev.) | 835,360 | 101,310 | 734,050 | -65,950 | 4,896,960 | -192,160 | 7,642,160 |

a. Based on measurements below Pilot Knob (assumed to be equal to USBR Article V data after credit is given for unmeasured California return flows between Imperial Dam and Pilot Knob). In addition, Salton Sea mitigation is not part of IID's use but is included in IID total diversion. IID diversions for April are not available

b. Return flow estimates based on averages of past returns as calculated by USBR for Article V data.

c. Assumed equal to August, 1983 use estimated by Fort Mojave Indian Tribe.

d. An estimated residual made by the Colorado River Board of California combining such items as small diversions along the river, unmeasured groundwater return flow, etc., which, when combined with other quantities listed to arrive at the State's total, presents an estimate of the State's Consumptive use of Lower Colorado River water.



August 17, 2009 Final Forecast of Colorado River Flow into
Lake Powell (1) (Million Acre-feet)

| | <u>USBR and National Weather Service</u> | | <u>Change From Last</u> | |
|-------------|--|----------|------------------------------------|--------|
| | <u>April-July 2009 Water Year 2009</u> | | <u>Month's Projected</u> | |
| | | | <u>April-July 2009 Wat Yr 2009</u> | |
| Maximum (2) | 7.864 | 11.274 | 0.051 | 0.226 |
| Mean | 7.814 * | 10.974 ' | 0.001 | -0.074 |
| Minimum (2) | 7.764 | 10.574 | -0.049 | -0.474 |

* This month's A-J observed is 99% of the 30-year A-J average shown below.
 ** This month's W-Y observed is 91% of the 30-year W-Y average shown below.

Comparison with past records
of Colorado River
inflow into Lake Powell
(at Lee Ferry prior to 1962)

| | <u>April-July Flow</u> | <u>Water Year Flow</u> |
|-------------------------------|------------------------|------------------------|
| Long-Time Average (1922-2008) | 7.741 | 11.519 |
| 30-yr. Average (1961-90) | 7.735 | 11.724 |
| 10-yr. Average (1999-2008) | 5.203 | 8.449 |
| Max. of Record | 15.404 (1984) | 21.873 (1984) |
| Min. of Record | 1.115 (2002) | 3.058 (2002) |
| Year 2000 | 4.352 | 7.310 |
| Year 2001 | 4.301 | 6.955 |
| Year 2002 | 1.115 | 3.058 |
| Year 2003 | 3.918 | 6.358 |
| Year 2004 | 3.640 | 6.128 |
| Year 2005 | 8.810 | 12.614 |
| Year 2006 | 5.318 | 8.769 |
| Year 2007 | 4.052 | 8.231 |
| Year 2008 | 8.906 | 12.356 |
| Total Years 2000 - 2004 | 17.326 | 29.809 |
| 5-Year Average (2000-2004) | 3.465 | 5.962 |

(1) Under conditions of no other Upper Basin reservoirs.

(2) USBR and NWS forecasts indicate the probability of 95 percent of the time the actual flow will not exceed the maximum value, and will not be less than the minimum value.

VI. Scheduled Flows to Mexico - Arrivals and excess arrivals of Water for Calendar Year 2009
(Acre-feet)

| | (1) | (2) | (3) Excess Arrivals in accord with Minute 242 | (4) Other Excess Arrivals | (5) Total Excess Arrivals | (6) Cumulative Excess Arrivals | (7) Flow Through NIB and Limitrophe | (8) Flow By-Pass Southerly International Boundary |
|--------|------------------|------------------|--|------------------------------------|------------------------------------|---|---|---|
| Jan. | 119,428 | 131,137 | 10,033 | 1,677 | 11,710 | 11,710 | 108,313 | 10,024 |
| Feb. | 152,979 | 171,990 | 9,433 | 9,578 | 19,011 | 30,721 | 151,373 | 9,433 |
| March | 208,455 | 219,177 | 10,164 | 558 | 10,722 | 41,443 | 195,714 | 10,164 |
| April | 199,629 | 215,258 | 9,702 | 5,927 | 15,629 | 57,072 | 192,856 | 9,702 |
| May | 112,754 | 132,812 | 10,422 | 9,631 | 20,053 | 77,125 | 110,896 | 10,422 |
| June | 112,353 | 123,213 | 9,645 | 1,215 | 10,860 | 87,985 | 102,298 | 9,645 |
| July | 118,342 | 129,556 | 9,525 | 1,689 | 11,214 | 99,199 | 108,508 | 9,525 |
| August | 92,284 | | | | | | | |
| Sept. | 89,307 | | | | | | | |
| Oct. | 73,828 | | | | | | | |
| Nov. | 102,966 | | | | | | | |
| Dec. | 117,676 | | | | | | | |
| | <u>1,500,001</u> | <u>1,123,143</u> | <u>68,924</u> | <u>30,275</u> | | | <u>969,958</u> | <u>68,915</u> |

- Column (1). Flow schedule requested by Mexico. In surplus years as determined by the United States, Mexico can schedule up to 1.7 rather than 1.5 million acre-feet.
- (2). Total Colorado River waters reaching Mexico. It is the sum of: 1) Colorado River water measured at the Northerly International Boundary, 2) drainage waters measured at the Southerly International Boundary near San Luis, Arizona, and 3) Wellton-Mohawk drainage waters measured at the Southerly International Boundary. It is the sum of Columns (1) + (5).
- (3). Arizona's Wellton-Mohawk Irrigation and Drainage District drainage water. This water is discharged to the Santa Clara Slough in Mexico via a concrete-lined canal.
- (4). Excess arrivals other than Wellton-Mohawk drainage. It is the sum of: 1) a delivery of about 5,000 a. f. per year to ensure that Mexico receives what is scheduled, 2) releases from Parker Dam which are not used due to unexpected rainfall in the Palo Verde, Coachella, Imperial, and Yuma areas, 3) controlled flood releases on the Gila and Colorado River, and 4) local runoff.
- (5). Sum of Columns (3) and (4).
- (6). Cumulation of Column (5).
- (7). Including Colorado River flow at the Northerly International Boundary plus flow from Cooper, 11-mile, and 21-mile spillways,
- (8). Including flow at the Southerly International Boundary, from the East and West Main canals, Yuma Valley Main, 242 Lateral plus diversions from Lake Havasu for Tijuana.

WEIGHTED MONTHLY SALINITY AT
SELECTED COLORADO RIVER STATIONS
AND RUNNING 12-MONTH NIB-IMPERIAL FLOW-WEIGHTED SALINITY DIFFERENTIAL
(in parts per million)

| Month | Below Hoover Dam | | | Below Parker Dam ^{3/} | | | Palo Verde ³¹ Canal Near Blythe | | | At Imperial Dam | | | At Northerly Inter- national Boundary | | | Running 12-Month Flow-Wtd. Differential ^{2/} | |
|--------|-------------------------------|------|------|--------------------------------|------|------|---|------|------|-------------------|------|-------------------|--|-------|------|--|-------|
| | 5-Year avg..! ⁱ | | | 5-Year avg.! ⁱ | | | 5-Year avg.! ⁱ | | | 5-Year avg.:11 | | | 5-Year avg.V | | | | |
| | 1974-78 | 2008 | 2009 | 1974-78 | 2008 | 2009 | 1974-78 | 2008 | 2009 | 1974-78 | 2008 | 2009 | 1974-78 | 2008 | 2009 | 2008 | 2009 |
| Jan. | 690 | 685 | 665 | 709 | 685 | | 751 | 713 | | 913 | 717 | 768 | 1,041 | 821 | 933 | 130.7 | 146.4 |
| Feb. | 675 | 692 | 655 | 706 | 678 | | 732 | 682 | | 835 | 675 | 745 | 998 | 822 | 862 | 135.9 | 145.5 |
| March | 684 | 674 | 649 | 699 | 668 | | 727 | 686 | | 805 | 717 | 703 | 925 | 803 | 804 | 139.4 | 147.0 |
| April | 680 | 659 | 636 | 700 | 675 | | 714 | 697 | | 801 | 699 | 710 | 892 | 805 | 798 | 144.9 | 144.6 |
| May | 677 | 676 | 646 | 698 | 681 | | 709 | 696 | | 822 | 725 | 727 | 962 | 914 | 907 | 141.4 | 144.0 |
| June | 678 | 648 | 637 | 695 | 671 | | 712 | 686 | | 812 | 718 | 717 ⁴¹ | 956 | 896 | 889 | 137.1 | 143.4 |
| July | 682 | 655 | | 688 | 683 | | 709 | 701 | | 797 | 720 | | 909 | 865 | | 137.3 | |
| August | 690 | 641 | | 686 | 677 | | 706 | 692 | | 800 | 734 | | 907 | 894 | | 135.7 | |
| Sept. | 672 | 646 | | 686 | 676 | | 737 | 693 | | 815 | 747 | | 952 | 944 | | 139.3 | |
| Oct. | 680 | 638 | | 689 | 657 | | 739 | 689 | | 854 | 758 | | 1,070 | 1,010 | | 139.6 | |
| Nov. | 682 | 642 | | 692 | 674 | | 746 | 705 | | 897 | 765 | | 1,010 | 931 | | 140.2 | |
| Dec. | 681 | 651 | | 702 | 671 | | 731 | 723 | | 877 | 834 | | 999 | 912 | | 140.5 | |

General Notes:

1/ 5-Year averages are arithmetical.

2/ 12-month flow-weighted differential between NIB and Imperial Dam through month shown in left column.

3/ Operational values only.

4/ Preliminary