

In Reply Refer To:  
**FWS/R2/NWRS-WR**

Memorandum

To: Mr. Paul Matuska, Group Manager, Water Accounting, BOR, Boulder City, Nevada

From: Andrew Hautzinger, Hydrologist, Division of Water Resources, NWRS, Albuquerque, New Mexico

Subject: Submission of Calendar Year 2011 Forecasted Diversions of Colorado River Water for the Imperial, Cibola and Havasu National Wildlife Refuges

By way of this memorandum, the U.S. Fish and Wildlife Service (Service) provides the Bureau of Reclamation (Reclamation) with estimated forecasts of the amount of Colorado River water that will be diverted by the Imperial, Cibola, and Havasu National Wildlife Refuges (Refuges) during calendar year 2011. These diversion estimates are supplied to Reclamation in conformance with CFR 43 Part 417.

As the table below indicates, the Service estimates that the combined diversion for the three lower Colorado River refuges will equal 65,881 acre-feet for 2011.

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Annual Total
<b>Imperial 2010</b>	250	239	240	280	318	899	408	418	360	223	198	390	<b>4,223</b>
<b>Cibola 2010</b>	1018	911	1286	1562	1870	1795	1835	1653	2288	2433	1839	1329	<b>19,819</b>
<b>Havasu 2010</b>	693	1899	4401	5730	5780	6760	5140	3920	3340	2088	1287	801	<b>41,839</b>
Combined Forecasted LCR NWR Diversion for 2011: <b>65,881 acre-feet</b>													

Regarding the *Part 417 Consultation Questionnaire* Reclamation provided, please know that there are only a few updates needed from the Service's 2010 responses. As we have discussed, during the Service/Reclamation Part 417 consultation meeting scheduled for October 27th, 2010, we will further discuss what water-related changes we envision seeing at the LCR refuges during 2011. Of course, we would be supportive of meeting and consulting with you and your staff in the coming year if Reclamation would like more details on the particulars of any of the refuges' activities.

The Service looks forward to working with Reclamation in our agencies continued collaboration to accurately account for the diversion and use of Colorado River water. If you have any questions regarding these diversion estimates, please do not hesitate to contact me, at 505- 248-7946.

cc: Havasu NWR  
Bill Williams River NWR  
Cibola NWR  
Imperial NWR