

**FY2000  
ANNUAL REPORT  
WATER CONSERVATION FIELD SERVICES PROGRAM  
YUMA AREA OFFICE**

**Conservation Planning:**

Six draft water conservation plans were received and are being reviewed and revised by Reclamation in cooperative working arrangements with the districts:

- Unit B Irrigation and Drainage District
- Yuma Irrigation District
- Bard Water District
- Mohave Valley Irrigation and Drainage District (agricultural plan only)
- Gila Monster Farms
- City of Somerton

Only two municipal and one agricultural plan remain to be submitted to achieve 100% compliance in the state of Arizona. The only remaining plans to be completed in California are the three largest agricultural districts. (Completion of their plans has been delayed by agreement on a plan for the state to stay within its entitlement). All plans must be completed by December 2001 to be in compliance.

**New Cooperative Agreements:**

Developed and signed seven cooperative agreements for water conservation for 50/50 partnerships with local districts and agencies. Obligated \$333,910 to match local contributions.

New water measurement agreements include the Fort Mohave Indian Tribe and US Fish and Wildlife Refuges along the Colorado River. A fifth soil salinity assessment demonstration was started to provide a demonstration of new technology for soil salinity management in all the major agricultural districts in the Yuma Area. An interagency agreement with USDA-ARS was started to provide public information on soil salinity management.

Existing agreements were extended and modified to provide water measurement structures in the Bard Water District, and continued sponsorship of the Coachella Valley RCD Mobile Lab. A new agreement was initiated with California Polytechnic State University, Irrigation Training and Research Center (ITRC), for technical assistance to Yuma Area's districts.

**Water Conservation Programs:**

- **Water Measurement:** New water measurement structures were built in the Bard and Unit B, districts, and on the Colorado River Indian Reservation. The

Yuma Area Office provided design services for five new structures in these districts. Two new models of Acoustic Doppler Flow Meters (ADFM's) were installed in the Yuma Mesa Main Canal and evaluated for use. Preparatory work was completed for a demonstration of new technology for flume recorders and totalizers in the Mohave Valley.

- **Canal Modernization and Automation:** In cooperation with the Bureau of Indian Affairs and the Colorado River Indian Tribes (CRIT), 80% of the work on the CRIT Supervisory Control and Data Acquisition (SCADA) system was completed. In cooperation with the ITRC, SCADA plans were completed for the Yuma County Water Users' Association and the Yuma Irrigation District. A demonstration project for a low-cost, water level alarm system for small districts was installed in the Unit B Irrigation District.
- **On-Farm Irrigation Water Management:** A runoff reduction demonstration was completed in the Imperial Valley by the University of California. In cooperation with the University of Arizona, two irrigation studies were completed on the Yuma Mesa, to determine an easy-to-use, irrigator-friendly method to determine irrigation cut-off time. A similar study is nearly complete in the Yuma Valley, with a final report due in December 2000. Plans and preparations were made to follow up these studies with outreach and extension programs. An alternative forage crop study by the University of California is 75% complete, which will provide information about alternative forage crops that provide high-quality forage, using less water than conventional forage crops. An Internet based irrigation scheduling program "AZSCHED" is being written by Reclamation in cooperation with the University of Arizona. It is 90% complete. Reclamation continues to provide about 25% support for the Mobile Lab operated by the Coachella Valley Resource Conservation District.
- **Soil Salinity Management:** Five demonstrations of new technology for soil salinity management are active in the Yuma Area. The goal of these demonstrations is to have this new technology adopted by the private sector wherever possible, to improve irrigation management. We have generated substantial interest among the public and agricultural service companies. A technical conference with the five sponsors and the USDA-Agricultural Research Service is going to be held in November 2000 to discuss where we and our partners can be more effective in delivering expertise and technology for salinity management.

**Public Information and Education Programs:** The Yuma Area Office presented a water conservation display at the La Paz, Blythe, Imperial, and Yuma County fairs. Our water measurement model along with a miniature automated gate was displayed, and informational brochures and information were distributed. In addition we set up a water conservation booth at the US Army, Yuma Proving Ground and City of Yuma "Earth Day" celebrations, and the US Marine Corps Air Station energy fair. The Yuma Area Office publishes a quarterly water conservation newsletter with a mailing list of nearly 200.

## Summary Tables

<b>Funding Resources for FY2000 - (IN THOUSANDS)</b>							
Accounts		WMC	R&TT	Project O&M	EIP	Totals	% of Total Available
Annual appropriation		\$ 369	\$ 25	\$ 112	\$ 105	\$ 611	<del>          </del>
Carryover from prior years							<del>          </del>
Transfers in or out		\$ (37)			\$ 81	\$ 44	<del>          </del>
<b>Total funds available for FY 2000</b>		<b>\$ 332</b>	<b>\$ 25</b>	<b>\$ 112</b>	<b>\$ 187</b>	<b>\$ 656</b>	<del>          </del>
<b>Program administration and Technical Assistance</b>							
Staff salaries and overhead	Expended	\$ 117		\$ 65	\$ 50	\$ 232	\$ 86
Travel	Expended	\$ 4		\$ 2	\$ 5	\$ 11	\$ 4
Materials, supplies, and other expenses	Expended	\$ 1		\$ 20	\$ 5	\$ 26	\$ 10
<b>Financial Assistance Contracts</b>							
Planning	Obligated	\$ 100		<del>          </del>		\$ 100	28%
Demonstrations	Obligated	\$ 58	\$25	<del>          </del>	\$ 74	\$ 157	44%
Implementation	Obligated			<del>          </del>	\$ 48	\$ 48	13%
Education/Training	Obligated	\$ 50		<del>          </del>	\$ 5	\$ 55	15%
<b>Total Financial Assistance</b>	Obligated	<b>\$ 208</b>	<b>\$ 25</b>	<del>          </del>	<b>\$ 127</b>	<b>\$ 360</b>	<b>100%</b>
<b>Total WCFSP Program</b>	Expended	\$ 461		<del>          </del>	\$ 495	\$ 956	<del>          </del>
	Obligated/ Expended	45%	100%	<del>          </del>	26%	38%	<del>          </del>
End of year surplus		\$ 2	\$ 0	\$ 25	\$ 0	\$ 27	<del>          </del>
Total unliquidated obligations at beginning of fiscal year		\$ 129	\$ 25	\$ 0	\$ 389	\$ 543	<del>          </del>
Total unliquidated obligations at end of fiscal year		\$ 209	\$ 40	\$ 0	\$ 238	\$ 487	<del>          </del>

Staff Resources		
Total number of Reclamation staff days planned for		FY 2000
WCFSP Coordinator staff days used		1.0
Support Staff staff days used	Area Office	1.6
	Regional Office	0.1
	Denver Office	
Total number of Reclamation staff days used in FY 99		2.7
Estimated number of staff days from entities <i>through formal agreements</i> (i.e. other agencies or organizations) (identify)	Water Districts	2
	University Extension	2
	Conservation Districts	2

Conservation Planning Indicators		
	FY2000	Cumulative FY97-2000
Number of districts required to prepare/submit plans	16	16
Number of acres represented by districts required to submit plans	820000	820000
Population served by M&I districts required to submit plans	100000	100000
Number of districts with current plans (already submitted)	<del>                    </del>	11
Number of districts overdue for plan development or update	<del>                    </del>	5.00
Number of districts submitting plans	5	<del>                    </del>
Number of acres served by districts submitting plans	820000	820000
Population served by districts submitting plans (M&I districts)	0	0
Number of conservation plans reviewed by Reclamation	4	11
Number of districts committed to developing/updating plans	0	16

Program Assistance Indicators		
	FY2000	Cumulative FY97-2000
Number of water districts/entities assisted with conservation planning-	5	16
Number of water districts/entities assisted with conservation education-	8	13
Number of water districts/entities assisted with conservation demonstrations-	12	15
Number of water districts/entities assisted with conservation implementation-	10	10

Number of districts assisted in developing and implementing WC measures-	7	14
Number of districts with one-on-one meetings to review plans/explain WCFSP-	16	16
Number of conservation measures/programs implemented by water districts/entities-	27	35
Number of water districts/entities assisted with "fundamental measures"-	13	3
Number of water districts/entities implementing "fundamental measures"-	13	14