Balancing Resource Use and Conservation

LOWER COLORADO RIVER MULTI-SPECIES CONSERVATION PROGRAM



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Balancing Resource Use and Conservation

LCR MSCP FY2011 Funding Summary

FY2011	FY2011	FY2011	Cumulative
Total Required	Approved	Actual	Program
Funding	Estimate	Obligations	Accomplishment
\$32,800,140	\$33,674,938	\$23,969,176.43	\$105,020,674.53



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FY2011 Program Element Accomplishment

Program Administration

Fish Augmentation

Species Research

System Monitoring

Conservation Area D&M

Post Development Monitoring

AMP

Habitat Maintenance Fund

Public Involvement

TOTAL

\$ 1,138,509.80 (5%)

\$ 1,371,222.72 (6%)

\$ 2,576,822.95 (11%)

\$ 2,776,126.36 (12%)

\$ 8,716,922.35 (36%)

\$ 1,083,198.46 (4%)

\$ 870,621.96 (4%)

\$ 5,359,500.00 (22%)

\$ 76,251.83 (*%)

\$23,969,176.43



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2011 Restoration Accomplishments

3 Stand Alone Conservation Measures

13 Conservation Areas (9 + 4 potential)



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AMM2 (Topock Marsh)

FY10 \$1,000,000 Expended FY11 No Actions FY12 \$2,500,000 IA Complete FY12 FWS Concurrence



FTHL (Yuha Desert ACEC)

FY11 160 acres acquired FY12 80 acres acquired FY12 FWS Concurrence



Desert Tortoise (Chuckwalla Bench ACEC)

FY10 completed & closed



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2011 Planting Accomplishments

Palo Verde Ecological Reserve: 220 acres of CW

Cibola Valley Conservation Area: 89 acres of honey mesquite

TOTAL: 309 acres



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Acreage through 2011	Land Cover Established
Beal Lake:	107
Palo Verde Ecological Reserve: Cibola Valley Conservation Area:	759 670
Hart Mine Marsh:	255
Imperial Ponds Conservation Area:	92
Cibola NWR, Unit 1:	270
Big Bend Conservation Area:	<u>15</u>
GRAND TOTAL:	2,168 acres



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Laguna



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2012 Development

Palo Verde Ecological Reserve: 226 acres of cottonwood-willow

Beal Lake 9 acres of marsh/cottonwood-willow

Hunters Hole: <u>36 acres of cottonwood-willow</u>

TOTAL: 271 acres

2013 Development

Palo Verde ER: 36 acres of honey mesquite (last one)

Cibola NWR Unit #1: 80 acres of cottonwood-willow

TOTAL: 116 acres



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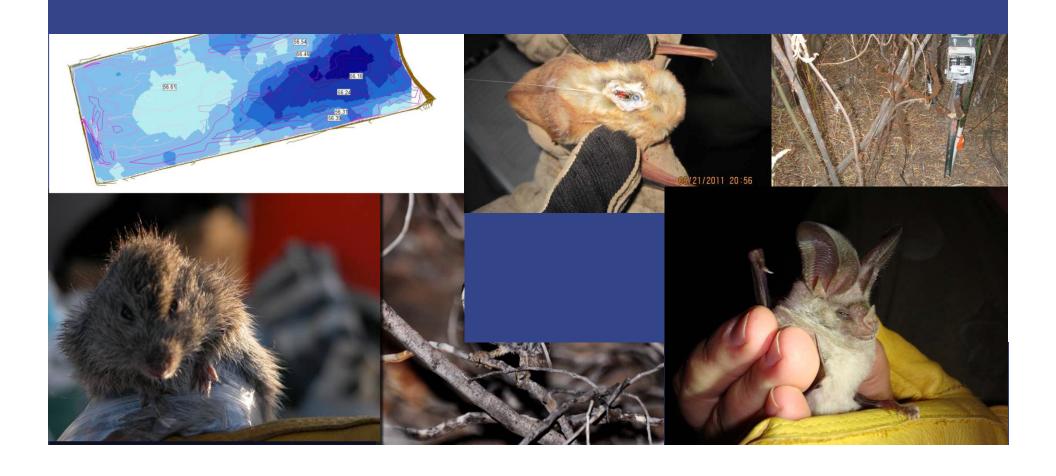
2011 Wildlife Accomplishments

Theresa Olson
LCR MSCP Wildlife Group Manager



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SPECIES RESEARCH



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- Completed Elf Owl Detectability Study and Developed a System-Wide Survey Protocol
- Completed Regional Yellow-billed Cuckoo Habitat Model
- Completed a Study on Managed Marshes at Imperial NWR for Black Rail and Clapper Rail
- Completed a Hydrology Study for Yellow-billed Cuckoo and Southwestern Willow Flycatcher
- Completed Lab Tests on Soil Amendment Study and Initiated a Field Soil Amendment Study using Data from Lab Tests
- Initiated a Western Red Bat and Western Yellow Bat Roosting Characteristics Study
- Initiated a Population Demographic and Habitat Use Study of California Leafnosed Bat using Genetic Analysis



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- Marsh Bird Surveys Detected up to 76 Clapper Rail per Survey Period, up to 50 Least Bitterns, and 7 Black rail detections.
- SWFL Presence/Absence Surveys conducted at 64 sites with over 90 breeding adults and over 50 nestlings identified. Nest Success was 42%.
- MAPS was conducted at three sites: Beal Lake, Cibola NWR Unit #1, CVCA with a total capture of 593 birds including 3 LCR MSCP Species (Yellow Warbler, Summer Tanager, Arizona Bell's Vireo).
- Riparian Bird Monitoring was conducted at 80 Survey Plots, 155 species were recorded including LCR MSCP covered species (Yellow Warbler, Gila Woodpecker, Summer Tanager, Vermilion Flycatcher, Arizona Bell's Vireo).



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- Yellow-billed cuckoo surveys were conducted at 50 sites including all LCR MSCP Conservation Areas. Cuckoos were detected 292 times and nested at Beal Lake, PVER, CVCA, Cibola NWR Unit #1 with 29 nests located.
- Cotton rats were monitored and located near the Yuma area, PVER, Cibola NWR Unit #1, CVCA, Areas within Havasu NWR.
- Lowland Leopard Frog and Colorado River Toad Surveys were conducted and Colorado River Toads located at Planet Ranch.
- Four permanent Anabat Stations continue to operate with all four LCR MSCP bat species detected. Outflight counts were conducted at several mines and California Leaf-nosed bat populations remain steady, while there is a decline in Townsends big-eared bats.



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Big Bend Conservation Area

• 4 LCR MSCP covered species

Beal Lake Conservation Area

• 13 LCR MSCP Covered Species

Palo Verde Ecological Reserve

• 11 LCR MSCP Covered Species

Cibola Valley Conservation Area

• 8 LCR MSCP Covered Species

Cibola NWR Unit #1

• 12 LCR MSCP Covered Species

Imperial Conservation Area

• 5 LCR MSCP Covered Species





Post-Development Monitoring

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2011 Fisheries Accomplishments

April 28, 2011

Eric T. Volkman

LCR MSCP Fisheries Group Manager



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Fish Augmentation

Stocked 25,598 razorback

Stocked 7,122 bonytail





Historical Fish Augmentation Balancing Resource Use and Conservation

Year	Razorback	Bonytail
2005	17,017	6,941
2006	29,062	8,111
2007	21,114	9,137
2008	19,433	5,189
2009	24,299	6,579
2010	22,476	4,993
2011	25,598	7,122

Total 158,999 48,072

Total 104,012 48,072



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Larval Collection

- USBR staff collected 9,938 RASU larvae
- Other agencies collected 15,080 RASU larvae
- Total of 25,018 RASU larvae collected in 2011



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Fisheries Research Highlights 2011

C12: Repatriated RASU population estimate in Lake Mohave increased

C26: Fish reared in moving water displayed greater growth



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Fisheries Research Highlights 2011

C33: Larger RASU appear to have higher survival rates in Reach 3

C40: RASU in Lake Mohave lakeside ponds showed higher than expected spawning success rates and genetic variability

C41: Use of artificial habitat in Davis Cove documented, preference still unknown



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Fisheries Monitoring 2011 - D8

Wild-born RASU larvae collected in Lake Meade

Recent successful recruitment in Lake Mead suspected

68 BONY were contacted in Lake Havasu



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FY2013 Work Plan and Budget



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FY2013 Funding Requirements*

(Preliminary Inflation Rate = 1.249%)

Funding Entity	FY2013 Contributions	FY2013 Adjusted Contributions
Federal	\$17,198,730.00	\$17,198,730.00
Non-Federal	\$17,198,730.00	\$17,198,730.00
California	\$ 8,599,365.00	\$ 9,459,301.50
Arizona	\$ 4,299,682.50	\$ 2,579,809.50
Nevada	\$ 4,299,682.50	\$ 5,159,619.00
TOTAL	\$34,397,460.00	\$34,397,460.00



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FY2013 Proposed Work Plans

Program Administration	\$ 1,271,482
Fish Augmentation	\$ 1,959,000
Species Research	\$ 5,129,000
System Monitoring	\$ 2,965,000
Conservation Area D&M	\$11,825,000
Post Development Monitoring	\$ 1,410,000
AMP	\$ 1,500,000
Habitat Maintenance Fund	\$ 8,460,734
Public Involvement	\$ 100,000
TOTAL	\$34,620,216

