Ongoing Restoration Efforts in the **Colorado River Delta in Mexico**

Dr. Francisco Zamora-Arroyo



Outline

Conservation Priorities Areas

Restoration Efforts:
 Colorado River
 Hardy River
 Other wetlands







these and many more organizations and funders are working in several ongoing efforts and initiatives to restore the Delta



Results: Map of the Possible



Ongoing restoration efforts in Mexico



Restoration = Riparian + Off-channel + Estuarine





Colorado River Corridor

Overall goal: Develop a 80,000-acre functional ecological area



Restoration Demonstration Project



Laguna Grande

- Planted 2,400
 native trees in 23
 acres in 2006-07:
 - -1,300 mesquite
 - 1,100 CW and willow trees





















Developed a community vision for restoration





Reached over 1,500 local community members and 60 government officials, 20 percent of which participated in restoration actions.

Created five full-time jobs.

In the Next 2-3 years

Enhance 250 acres and secure 5,000 af of water



Results to date Hardy River

- Planted native trees in a total of 36 acres in 7 sites
- Inundated about 2,500 acres, which are in process of becoming marsh wetlands



Results to date Hardy River





Hardy River is very important for local people







Extremely important for the Cucapá Tribe in Mexico





Campo Munoz





Native tree nursery built in 2002, rehabilitated in 2006: produced 5,000+ trees







Water and land policy – Hardy River

Total drainage water flows into Hardy River



Annual average flow of 21,000 acre feet at 0.9 cubic meters/s Average salinity 3-5 parts per thousand How to secure a permanent flow to the Hardy River?

The State of Baja California signed an agreement to dedicate 0.5 cubic meters/second of treated water



Mini-Estuary Experiment

• Dr. Karl Flessa from the University of Arizona is leading the project to explore if a portion of the estuary can be restored with limited water supply.









Initial workshop and field trip in may 2007





Challenges

- Water quantity
- Water quality
- Funding for research, monitoring, implementation
- Lack of data vs decision making
- Impacts of climate change:
 - Drought
 - Sea level rise

Conclusions

- Restoration allows the environment itself to become more resilient in the face of climate change or human impacts.
- Modest amounts of water from Mexico would produce ecologically significant riparian corridors
- It is feasible and recommendable to implement pilot/demonstration projects while developing a detailed large-scale restoration strategy.

Take –home messages:

 Large-scale restoration of the Delta in Mexico is feasible and cost-effective,

 It requires relatively modest water flows, strong collaboration at different levels, a solid communitybased foundation, and proper management



But also heart and passion



