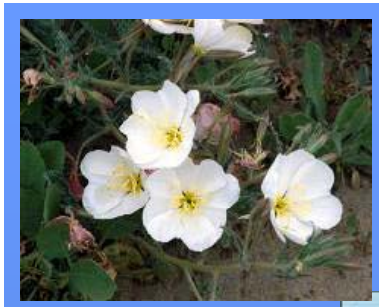


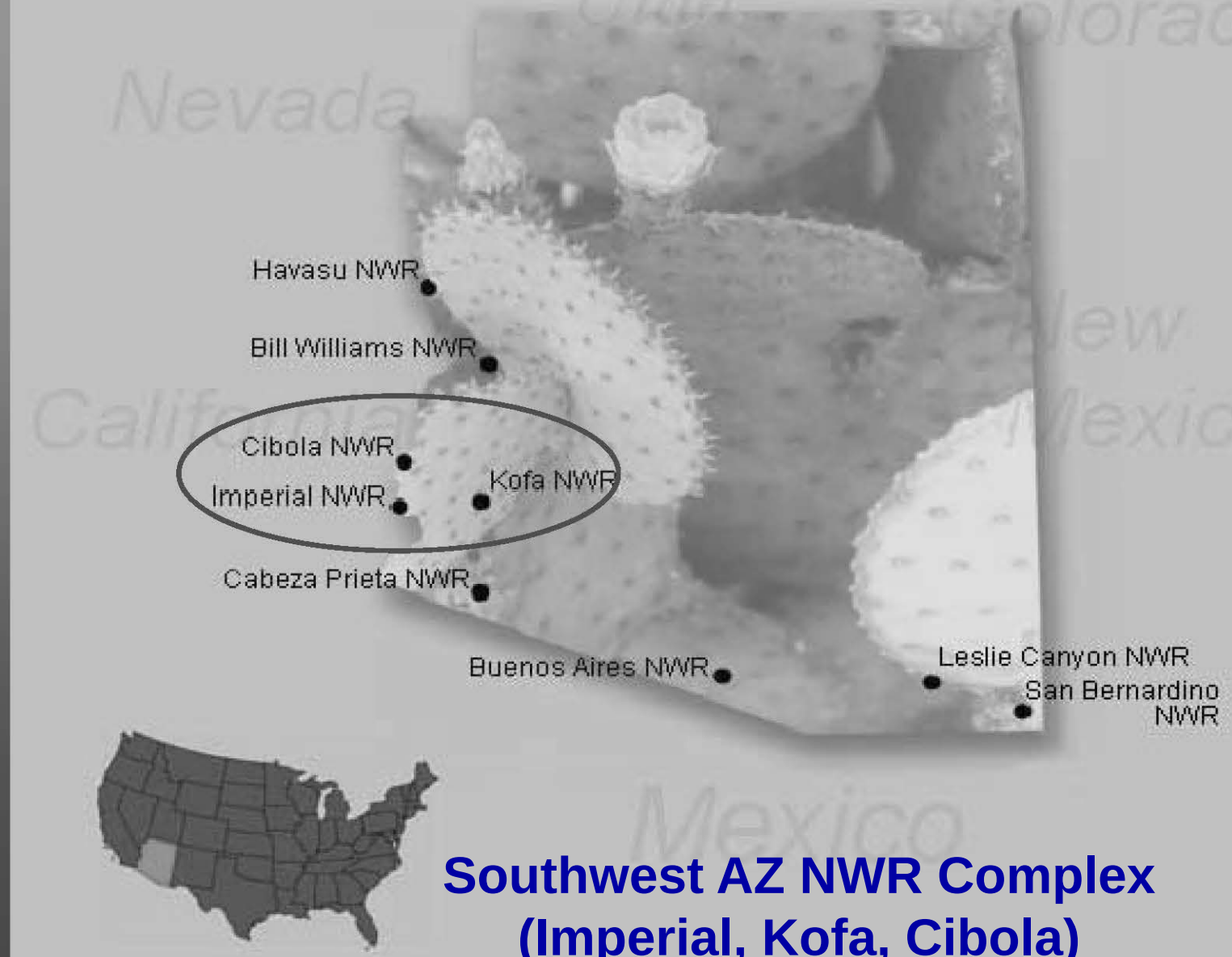
150 million acres and 553 national wildlife refuges

Wildlife-Dependent Recreation

- **The Big Six**

- Environmental Education
- Interpretation
- Wildlife-Watching
- Wildlife-Photography
- Fishing
- Hunting

Arizona



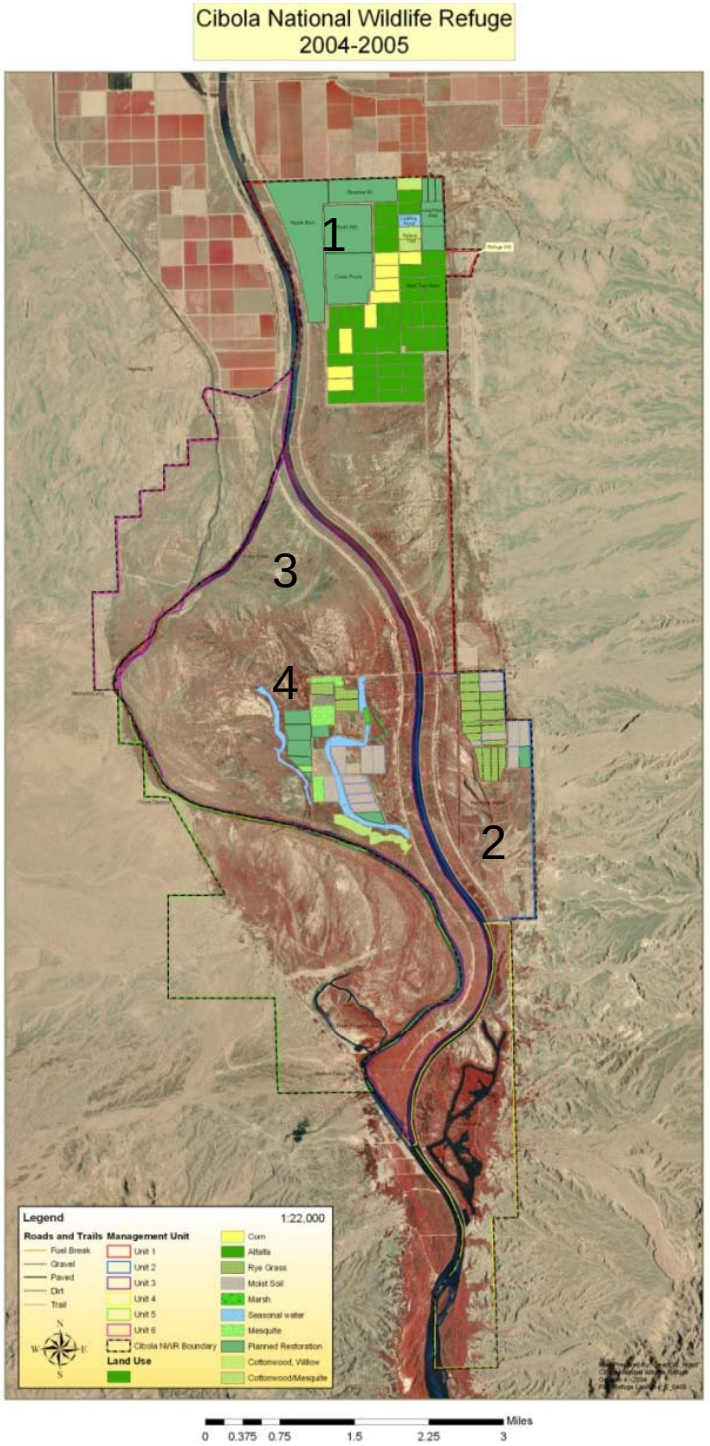
Southwest AZ NWR Complex (Imperial, Kofa, Cibola)

Cibola National Wildlife Refuge

Habitat Restoration Overview

Cibola NWR

- Established August 21, 1964
- 18,400 acres (AZ/CA)
- 14 miles of the Colorado River
- Habitat restoration
- Wintering grounds for migratory birds/neotropical migrants
- Endangered species



Multi-Species Conservation Program

Cooperative Partnerships (USBR)

- Habitat Based Conservation Program
  - **Recovery of Endangered Species**
  - **Protect & maintain habitat on the LCR**
- 56 Stakeholders, 3 States (CA, AZ, NV)
- 50/50 Funding
- 50 Year Program

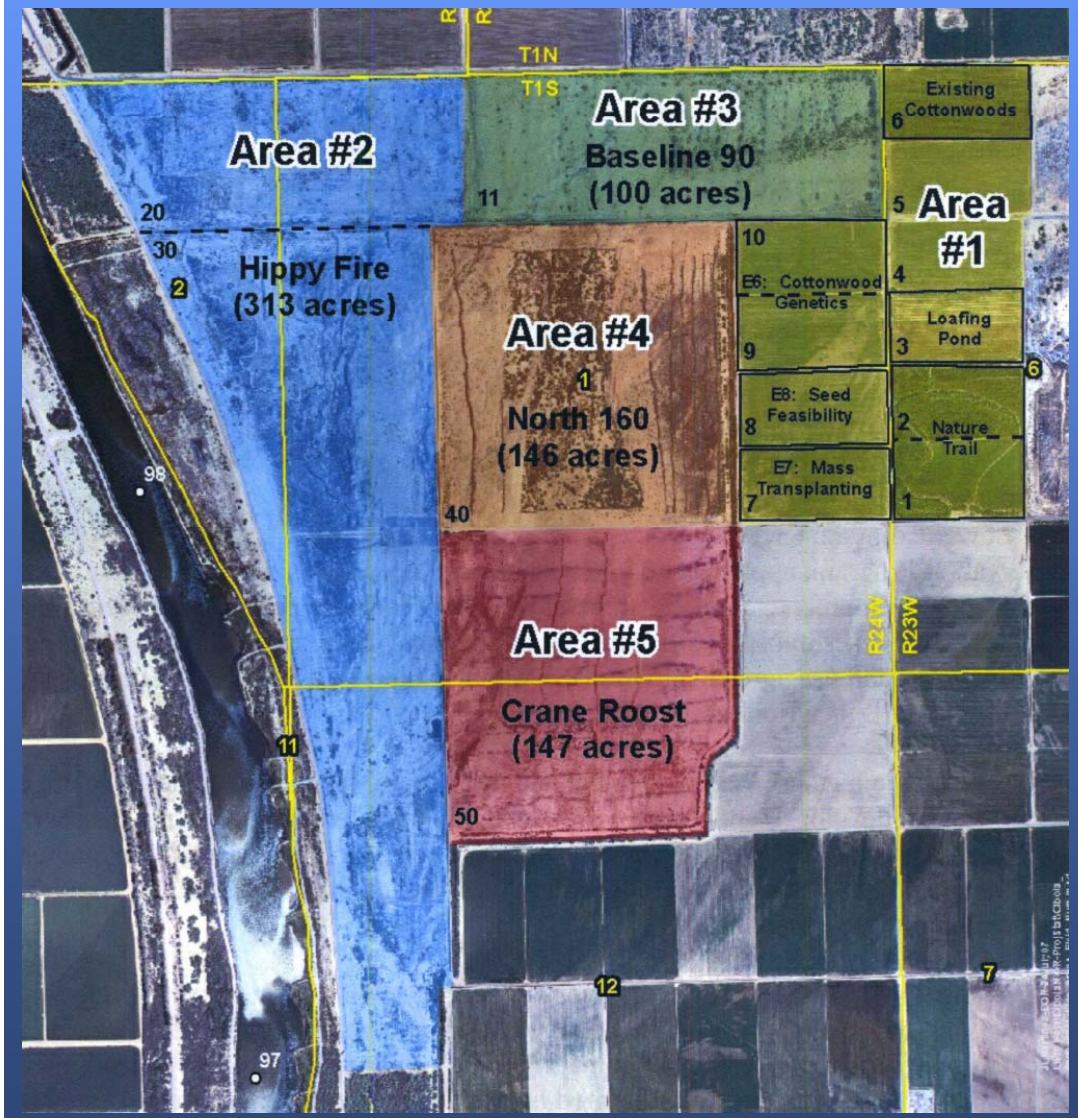
Multi-Species Conservation Program

Measurable Goals

- **8,132 ac of Habitat (GOAL)**
  - 5,940 ac. cottonwood/willow
  - 1,320 ac. honey mesquite
  - 512 ac. of wetland marsh
  - 360 ac. backwaters

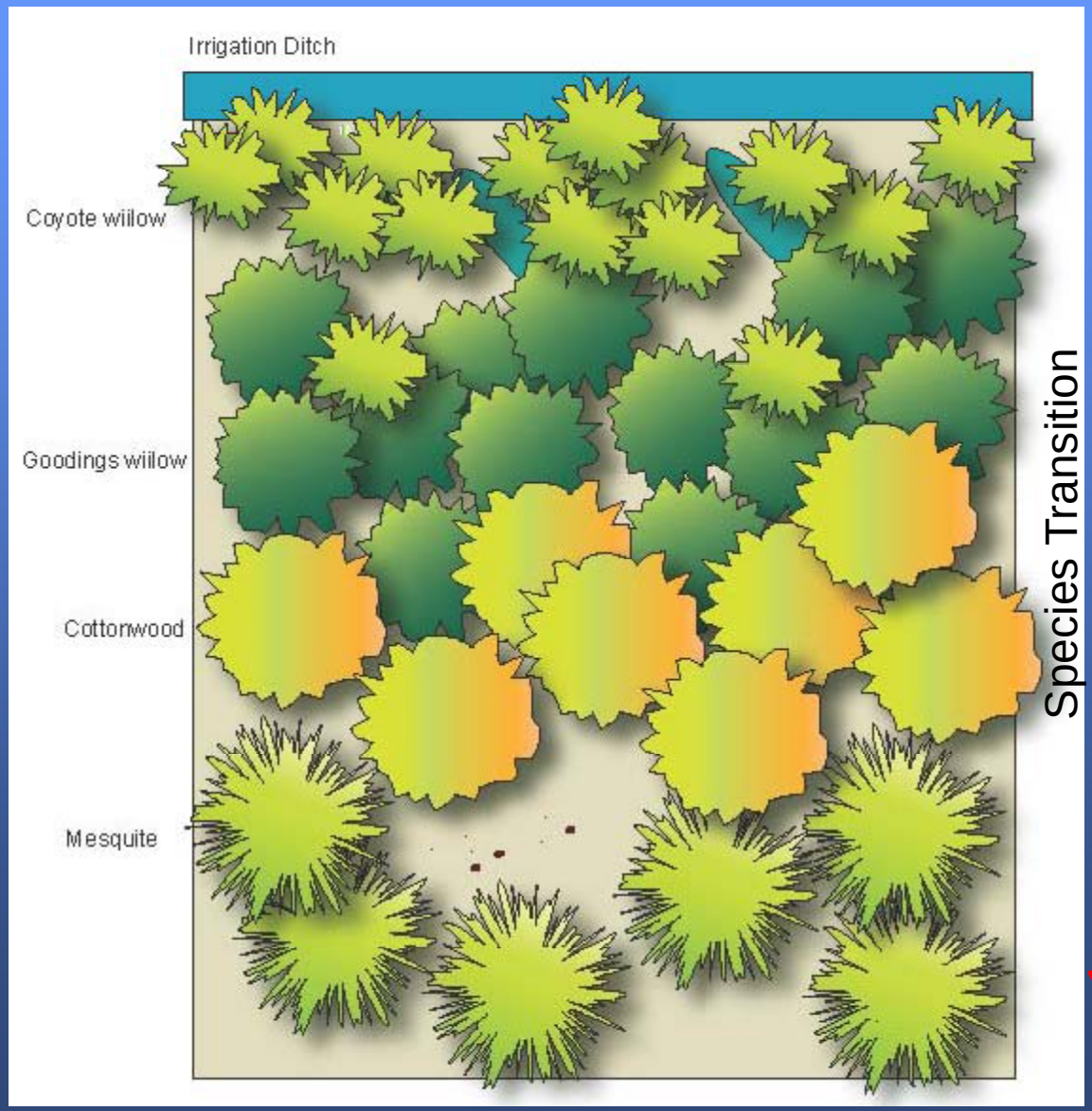
Cibola NWR

Unit 1 Conservation Area (MSCP)



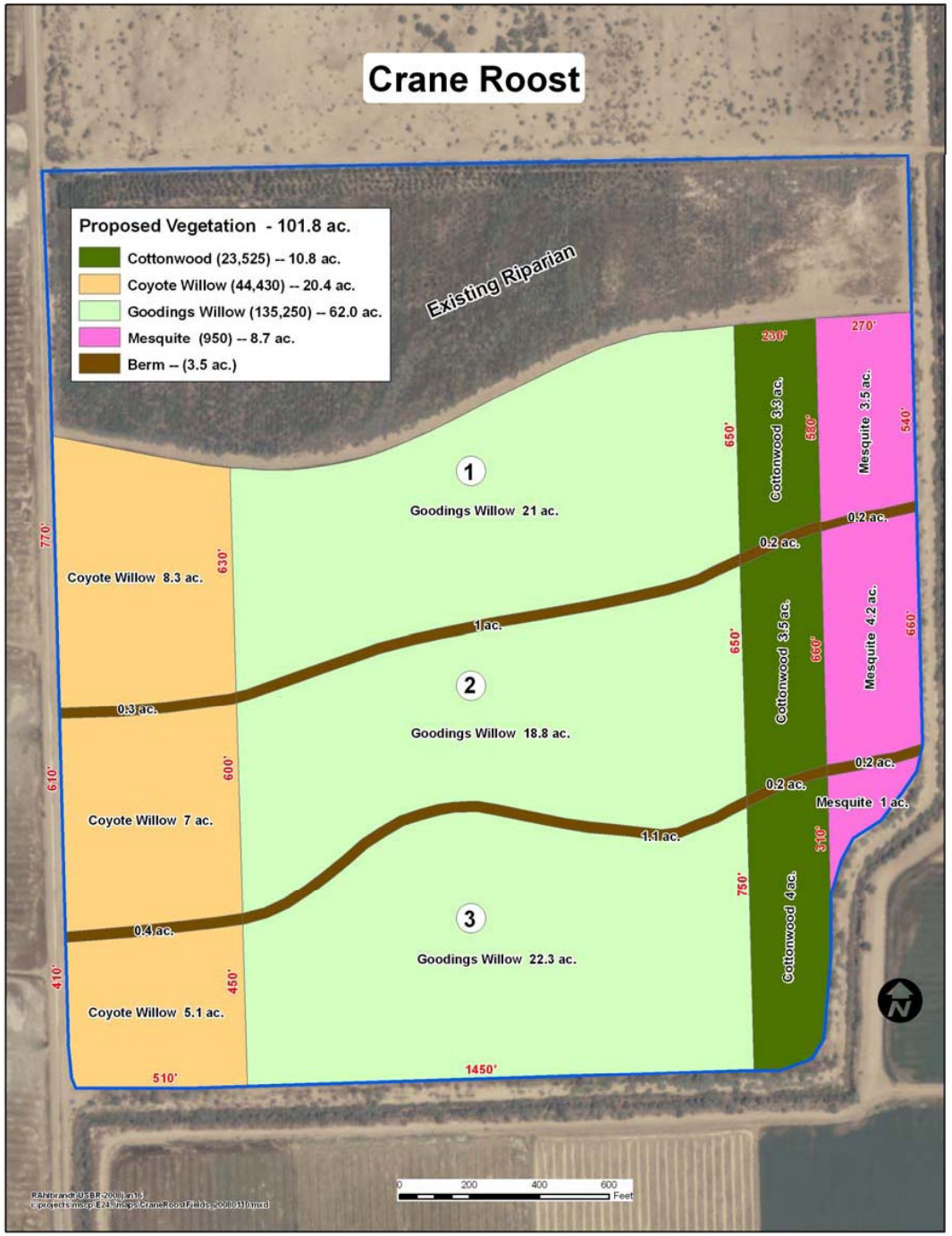
- Initiated in 2007
- 900 acres riparian
  - Cottonwood
  - Willow
  - Honey Mesquite

Typical Habitat Mosaic



Riparian Area # 5

- Planted in March, 2009
  - – 204,000 trees



Projected Planting Schedule

Hart Mine Marsh Wetland Conservation Area (MSCP)

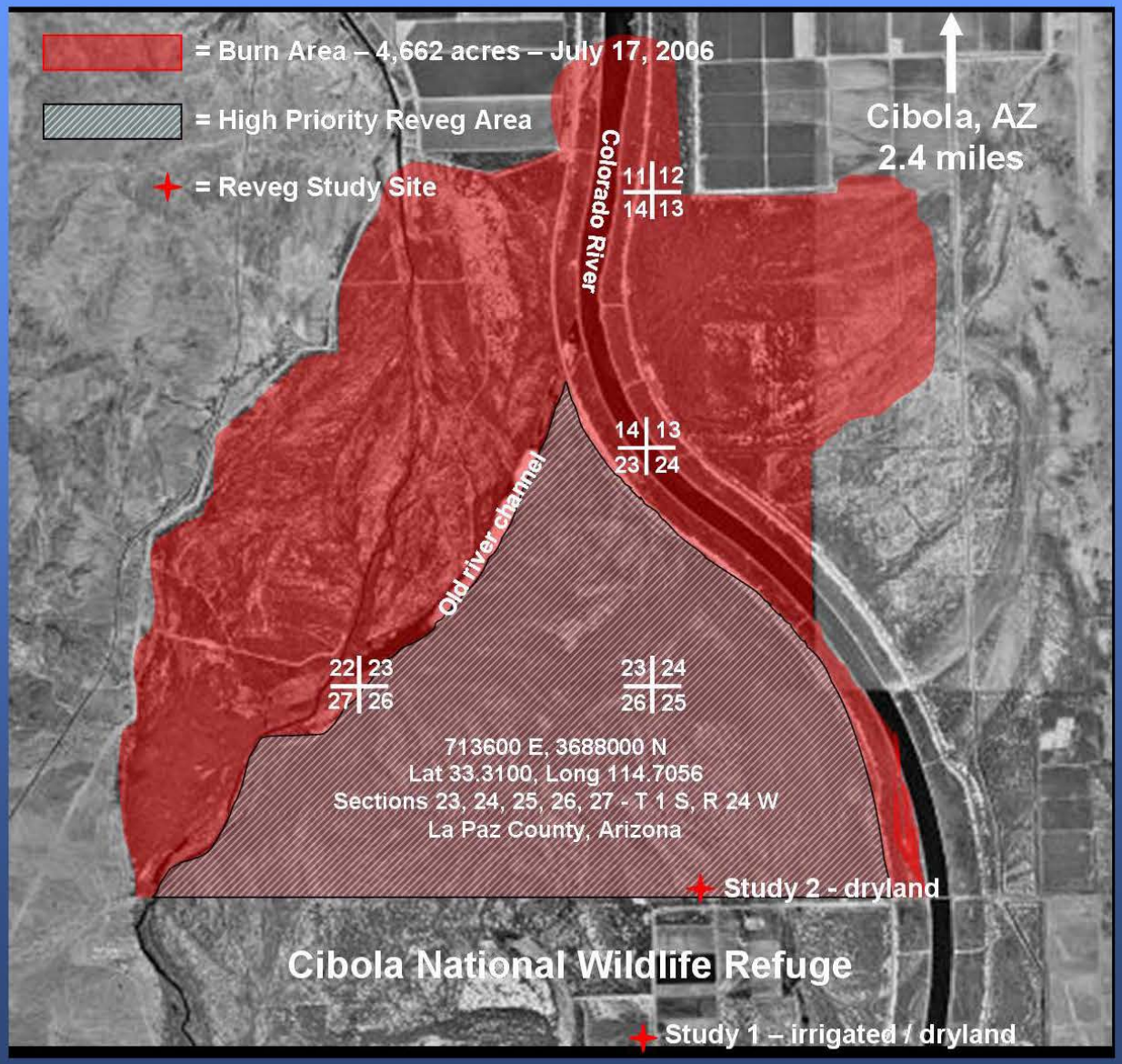
- Initiated in 2009
- 250 acre wetland
  - Emergent aquatics
  - Yuma Clapper Rail
  - Waterfowl & waterbird species

2009 Construction

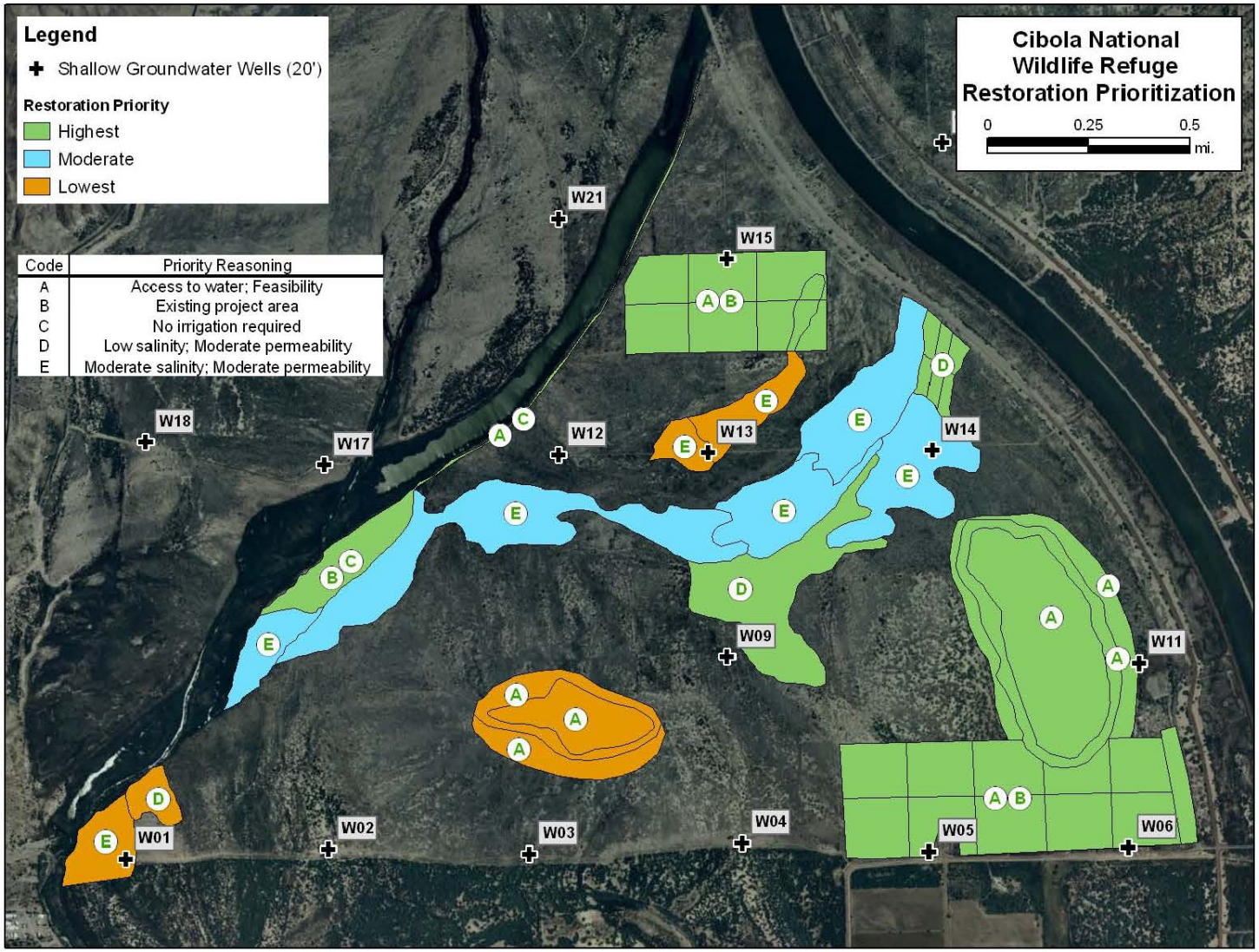
2010 Construction

2011 Completion

2006 Cibola Fire (4,662 acres)



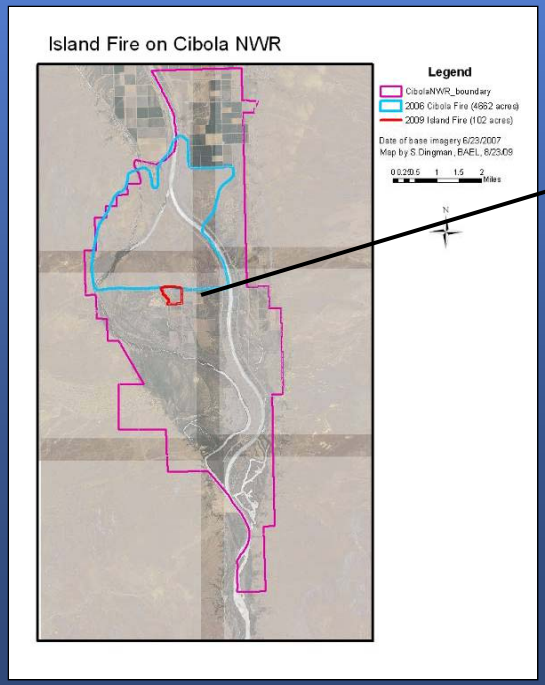
Cibola Fire Restoration

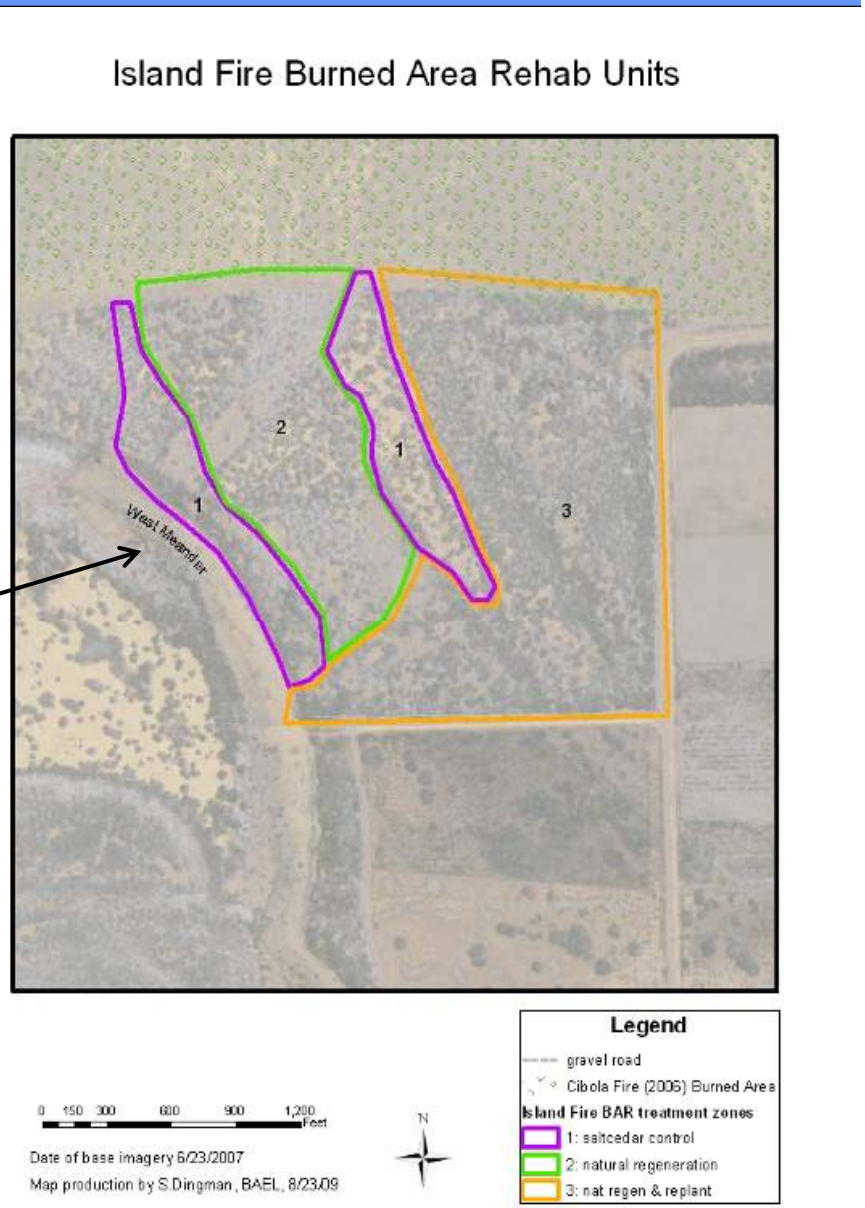


Cibola Fire Restoration

Island Fire Restoration

- 2009 Wildfire – restore 102 acres of upland honey mesquite





Accomplishments

- Next Steps (2011-2012)
  - Control salt cedar re-sprouts
  - Planting honey mesquite
  - Natural germination via flooding

New Projects

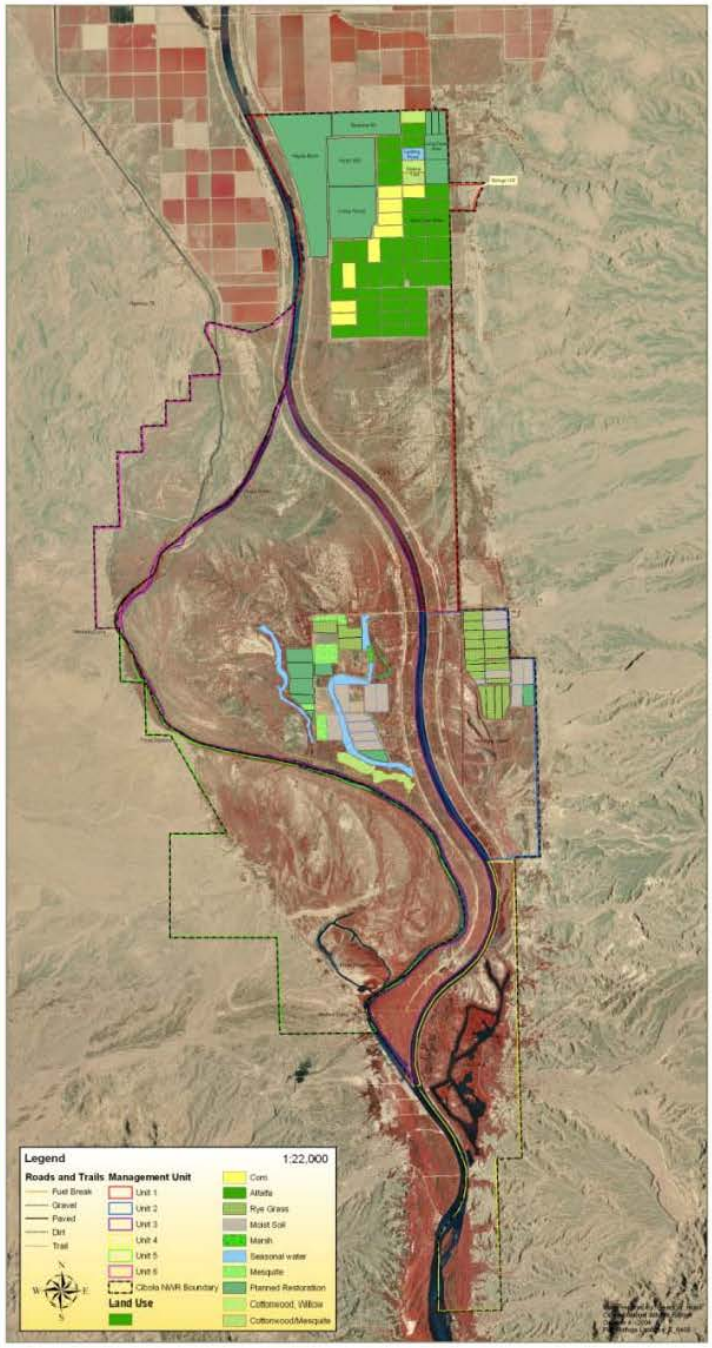
- Cibola Lake
- Hart Mine Marsh

2,000 honey mesquite

1,800 Gooding's willow

Lower Colorado River Multi-Species Conservation Program

- http://www.lcrmscp.gov/
  - Work plans & Projects
  - Research & Technical Reports
  - Photos, Other

Discussion

Cibola National Wildlife Refuge
2004-2005