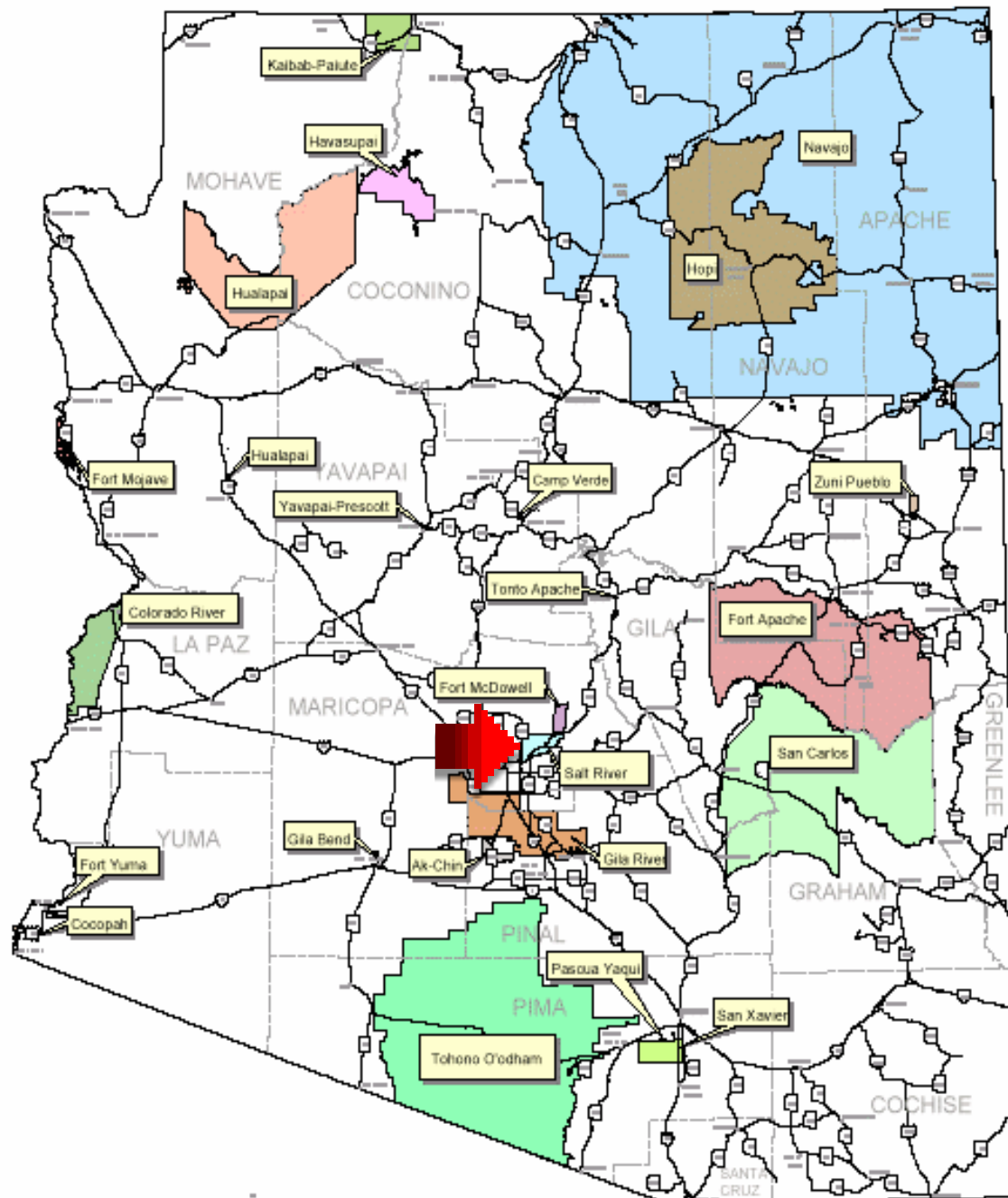


# Restoration Successes on the Salt River Pima-Maricopa Indian Community: Practices and Funding Support

Gina Leverette-Mason

Senior Environmental Engineer

# American Indian Reservations



# Noxious Weed Removal

# The Early Years

- 1 funding source
- Salt cedar only
- Concentrated location
- Labor intensive
- Learning experience
- Little money for revegetation

# Project Location



# Salt Cedar Removal

- Estimating cost at about \$5,000/acre
- Started upstream
- Cut-stump method
- Small team

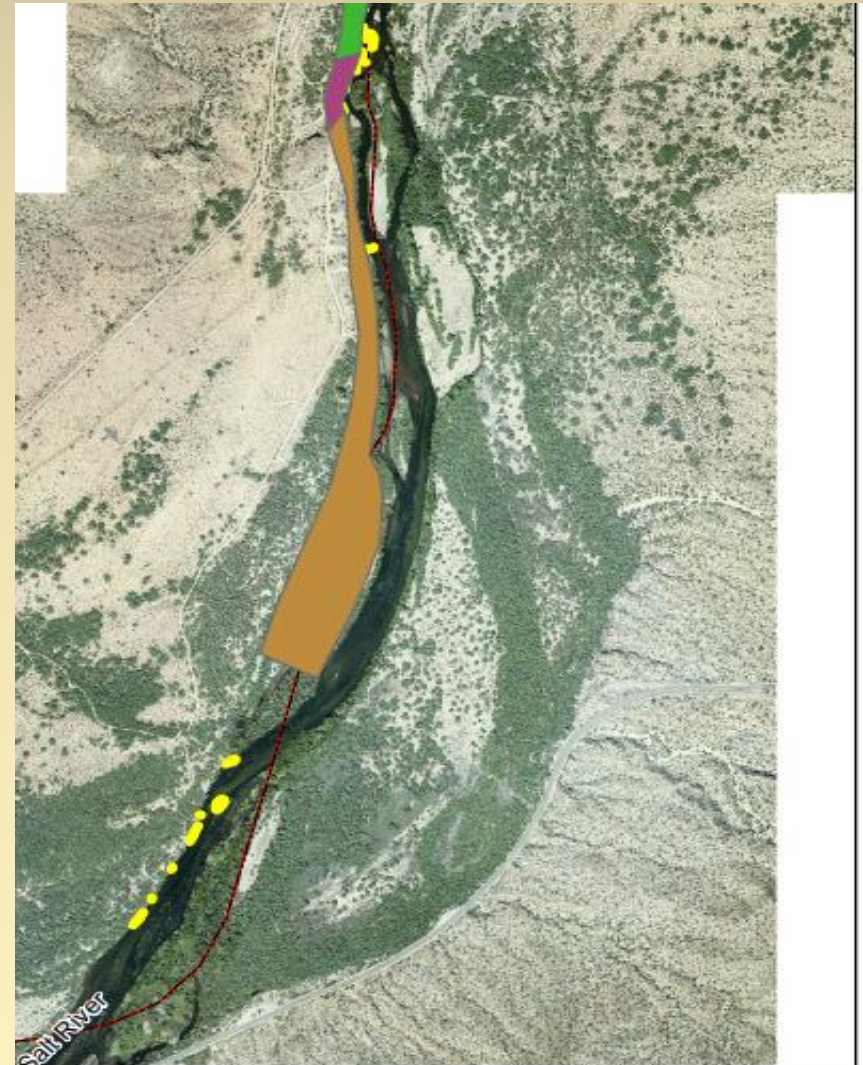
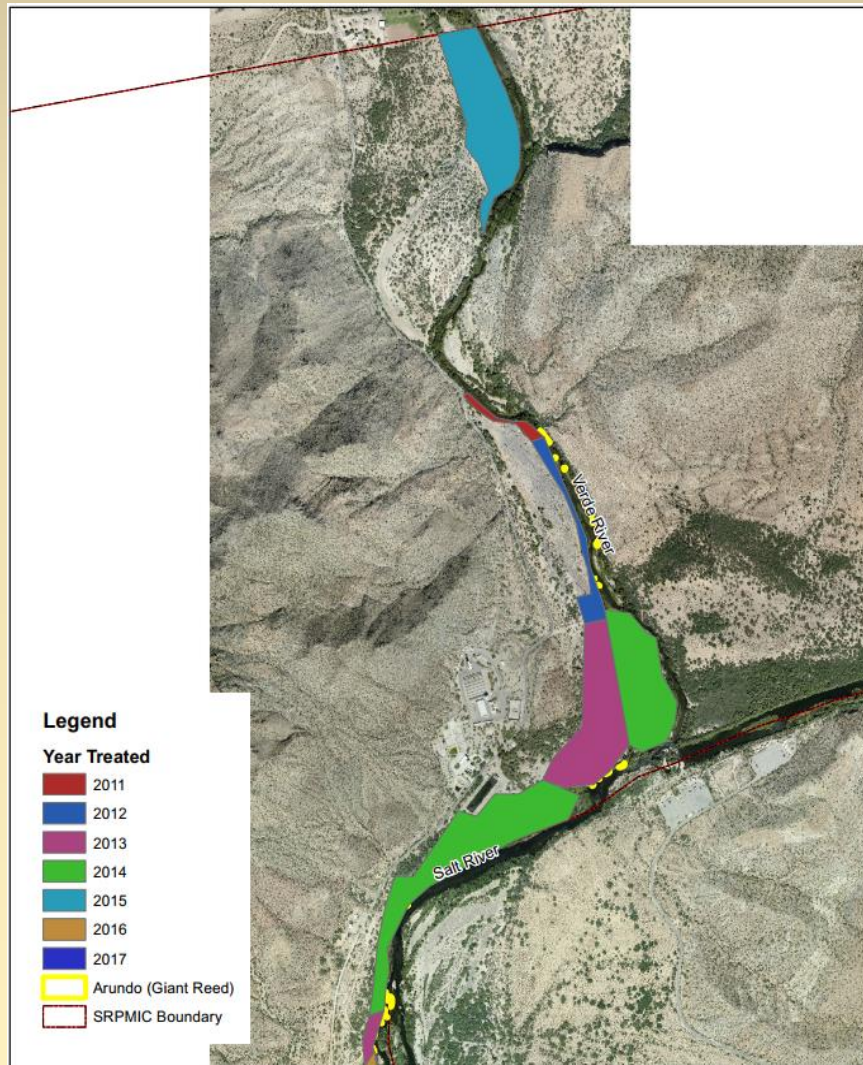


# Recent Years

- Multiple funding sources
- Salt cedar & arundo
- Many acres along both Salt & Verde Rivers
- Mechanical means incorporated



# More Recent Noxious Weed Removal Areas







# Revegetation Efforts

- Working with local college
- Planting natives already existing
- Free labor is great!











# Salt Cedar Removal Lessons

- Cut-stump method most time consuming, but least impact on the land
  - No soil disturbance
  - Untargeted species less affected
  - Success rate around 85%
- Heavy machinery covers large area quickly
  - Most impactful
  - Need to treat area several times
  - Success rate around 65%
- Revegetation encouraged using both methods

# Arundo

- Introduced in 1800's for erosion control
- Hydrophyte
- Grows tall (6 ft-30 ft)
- Difficult to eradicate
  - Drought tolerant
  - Flood tolerant
  - Complex rhizomal system



# Arundo Removal

- Access difficult
- Start upstream
- Spray only – glyphosate
- Must spray several times
- Fall season for removal

# The Future

- Continue course of action
- Reapplied for BIA invasive species grant
- EPA grant funding secured
- College growing requested plant species for revegetation
- Recruitment of labor
- Heavy revegetation efforts in fall



# Constructed Treatment Wetlands

# Constructed Treatment Wetlands

- 1 in each District
- Outfalls to Salt River
- Unlined channels
- Dominated by salt cedar or other weedy plants
- Used as dumping ground
- Contributing NPS through ditches from agricultural tail water and stormwater

# Creating The Cottonwood Wetland

- Trash removal
- Salt cedar removal
- Channel stabilization
- Seeding
- Pole planting





# Pole Planting



5 months  
later





# Cottonwood Before & After



# Creating The Lehi Wetland

- Hydroseeding
- Stabilization mats





# Lehi Wetland Growth

- Time
- Earth Day
- Pole Planting







# Funding Support

# Funding Support

- Multiple funding agencies
- Grants and reimbursements
- Different reporting requirements
- Approximately \$300K
- BIA, NRCS, EPA

# Why is riparian restoration work so important to Tribal Communities?



*It's estimated that less than 10% of Arizona's original riparian areas remain.*

*The Valley is the only home of the People of the SRPMIC. Their history and culture is based in agriculture and riparian habitats.*



# Questions



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[www.saltriverenvironmental.org](http://www.saltriverenvironmental.org)