

Establishment and Development of the Lower Colorado River Cooperative Weed Management Area

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National Park Service
Colorado River Terrestrial and Riparian Meeting
January 24, 2017
Laughlin, NV

What is a CWMA?

- Ad hoc voluntary involvement
- Multi partnership/cooperation
 - Government/Public
 - Private Citizens/Farmers/Ranchers
 - NGO's, Non-profits, groups, clubs
 - Anyone
- Defined geographic area/scope
- Working together for a common goal
- Memorandum of Understanding (MOU)
- Common in the Western U.S.

We Need a CWMA

- Proposed
- Lower Colorado River Cooperative Weed Management Area
- NV, AZ and CA
- Local, State, Fed, Private, Organizations
- Increases funding eligibility
- Awareness, priorities, work together

Purpose and Need: LCR Weed Species of Concern

- Common Species of concern
- Priority species: ecosystem disrupters, perennials, riparian, aquatic
- Basic Biology, mechanisms of dispersal
- Tamarix leaf beetle bio-control management response recommendations
- EDRR= Early Detection Rapid Response
- Proposal: Cooperative Weed Management Area

National Fish and Wildlife Foundation Pulling Together Initiative Grant

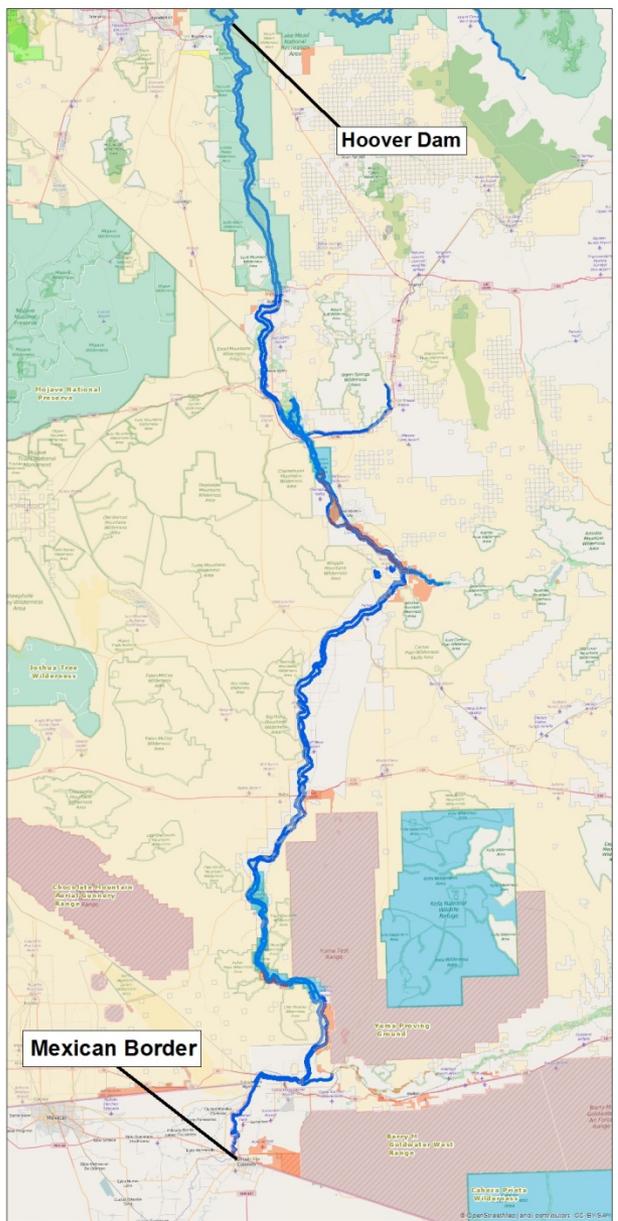
- Applied for in September 2016
- Awarded in January 2017
- \$13,707.20 with \$21,250.00 matching
- In Kind Matching: Tamarisk Coalition and all non-federal participants/partners
- Grant Period: Jan 2017 – July 31, 2018
- Administrative Coordinator; Betsy Macfarlan, Eastern NV Landscape Coalition

Lower Colorado River Overview: Hoover Dam to Mexican Border



Legend

- Other Agencies
- Forest Service
- Department of Defense
- Bureau of Land Management
- Fish and Wildlife Service
- National Park Service
- Bureau of Indian Affairs
- Bureau of Reclamation
- Lower Colorado River



Initiating a CWMA Goals

- 4 Foundation Meetings (tentative locations)
 - Laughlin, NV
 - Havasu City, AZ
 - Blythe, CA
 - Yuma, AZ
- “Coat-tail” with other group meetings
- Network get the partners together at the table
- Draft an MOU and distribute to partners for signatures

Goals Continued

- Share/Mine existing data, distribution and knowledge of weeds
- Share existing control project info
- Expose knowledge gaps
- Species list development
- Species Prioritization
- EDRR (early detection rapid response)
- Terrestrial and Aquatic
- Inventory Capacity Resources

CWMA Development Goals (Future)

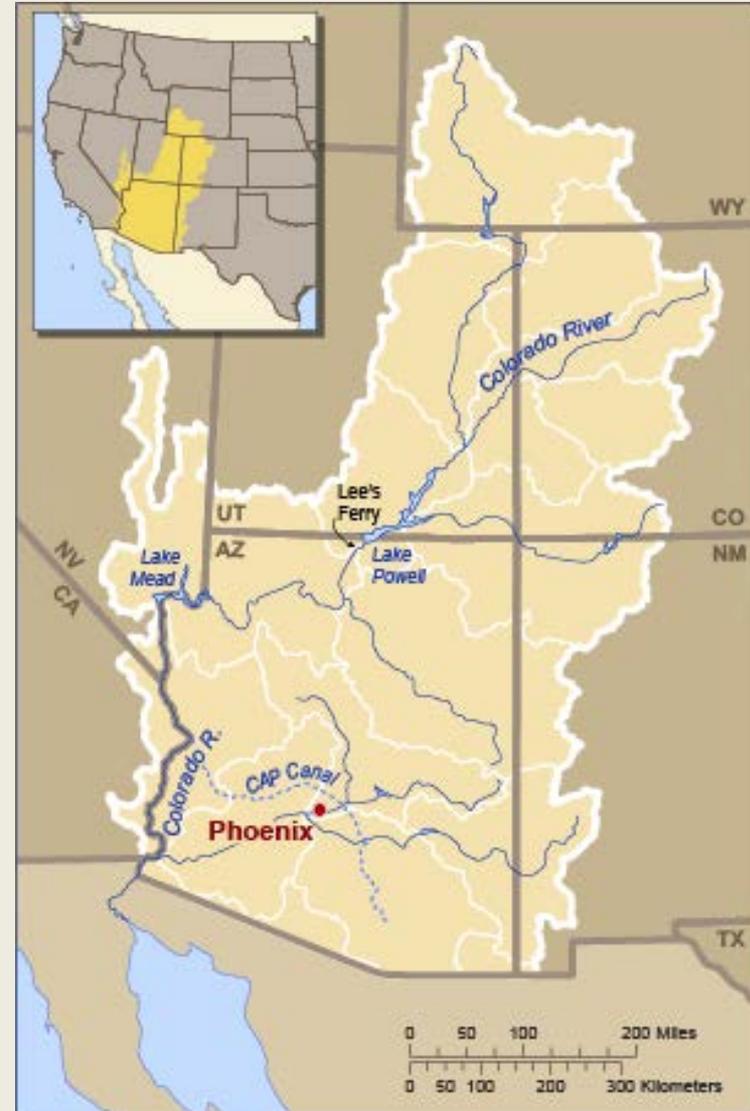
- Initiate/Conduct river wide weed inventories
- Data storage warehouse?
 - EDMAPPS?
- Potential projects
- Seek additional funding

CWMA Outcomes

- Collaboration...opportunities
- Information exchange
- Create a functional working group
- Address species threats
- More competitive for funding
- MOU with list of participants

Watershed Exotic Invasive Species

- Tamarisk
- Russian Olive
- Russian Knapweed
- Perennial Pepperweed
- Camelthorn
- Arundo
- Fountain Grass
- Ravenna Grass
- Athel tamarix
- Tree tobacco
- Palm Trees



Athel: *Tamarix aphylla*

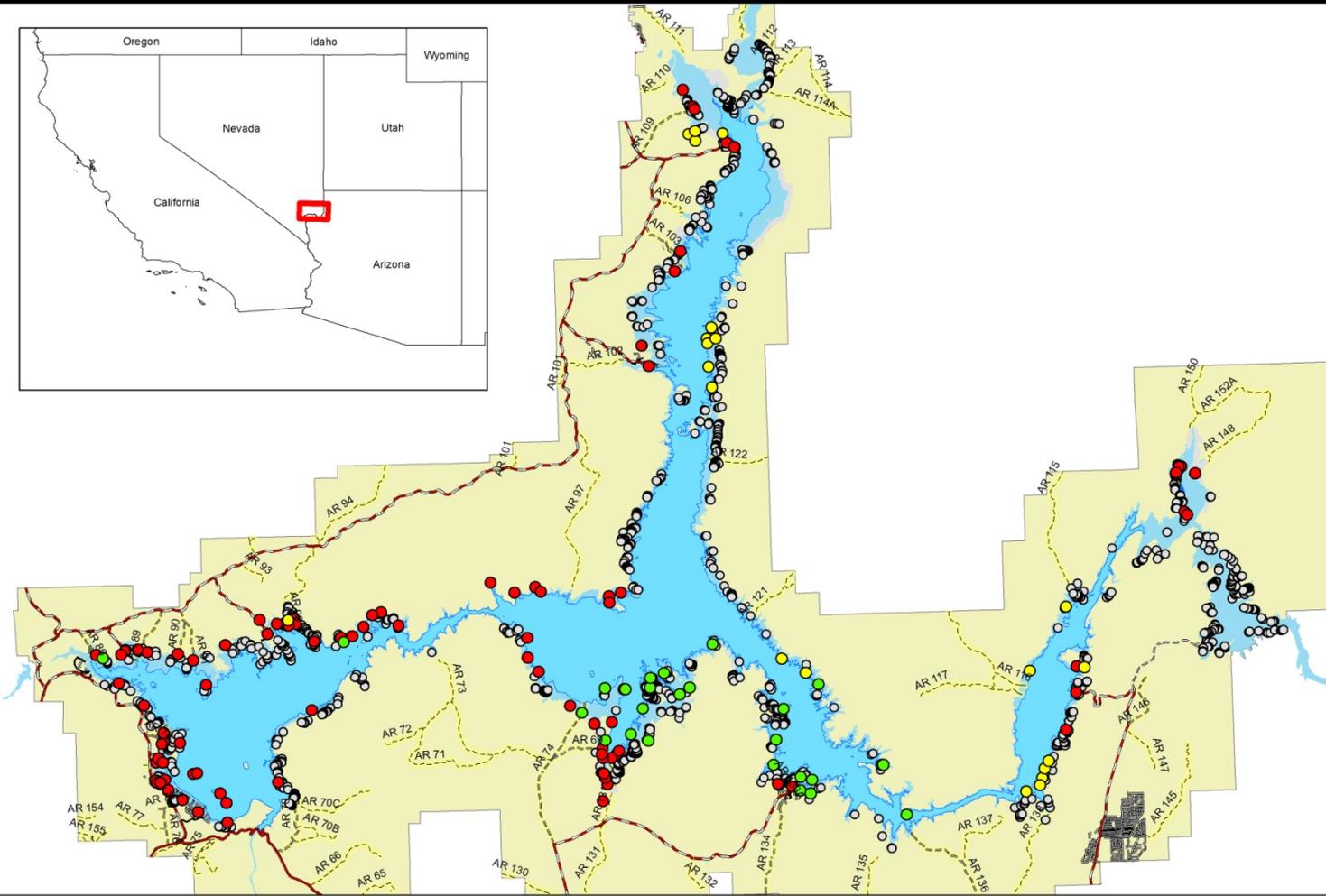
- Large evergreen tree
- Ornamental
- Starting to spread from seed
- Lake Mead (1984)
- Havasu NWR, AZ
- Sacramento Wash
- Hybridizing w/ salt cedar
- Important EDRR



Lake Mead NRA Athel Eradication Program

Survey and Treatments: 2001-2006

National Park Service
U.S. Department of the Interior



- ### Legend
- 2006 Athel Treatments
 - 2005 Athel Treatments
 - 2004 Athel Treatments
 - 2001 Athel survey
 - US route
 - Secondary highway
 - Major road
 - Local road
 - - - Maintained unpaved road
 - - - 4WD road
 - shoreline survey areas
 - Approved backcountry road
 - Lake Mead Current Level
 - Lake Mead-Historic
 - Lake Mead boundary
 - shoreline survey polylines

Lake Mead NRA
Natural Resource Management

1:275,000

Created By: Josh Hoines (702)-293-8913

Athel Recruitment

2010 Athel Tamarix Treatments on the Overton Arm LAKE

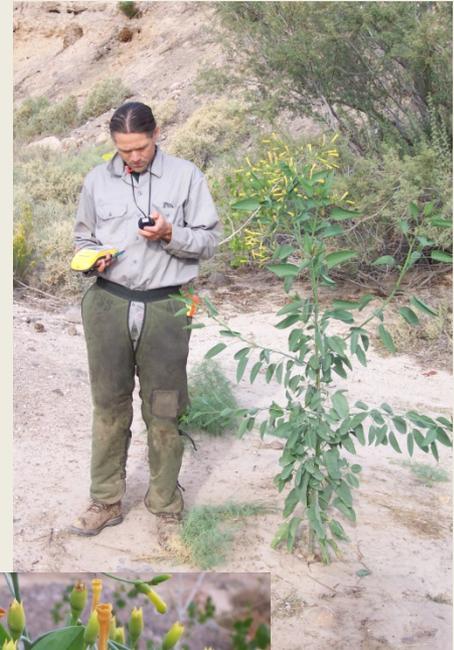


0 0.375 0.75 1.5 Miles

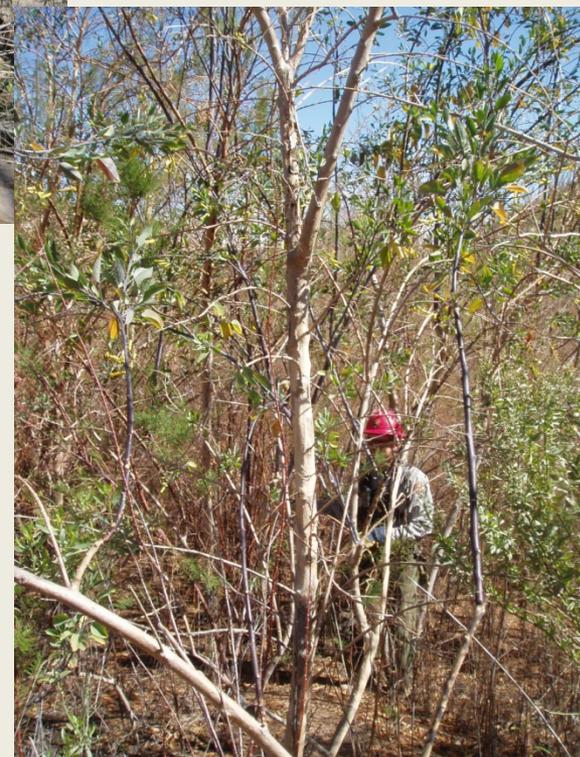


Tree Tobacco: *Nicotiana glauca*

- Small tree, clonal suckers
- Isolated small patches
- Las Vegas Wash, Lake Mead, Havasu NWR
Sacramento Wash
- Southern latitude
- Santa Cruz River
- LCR



Tree Tobacco

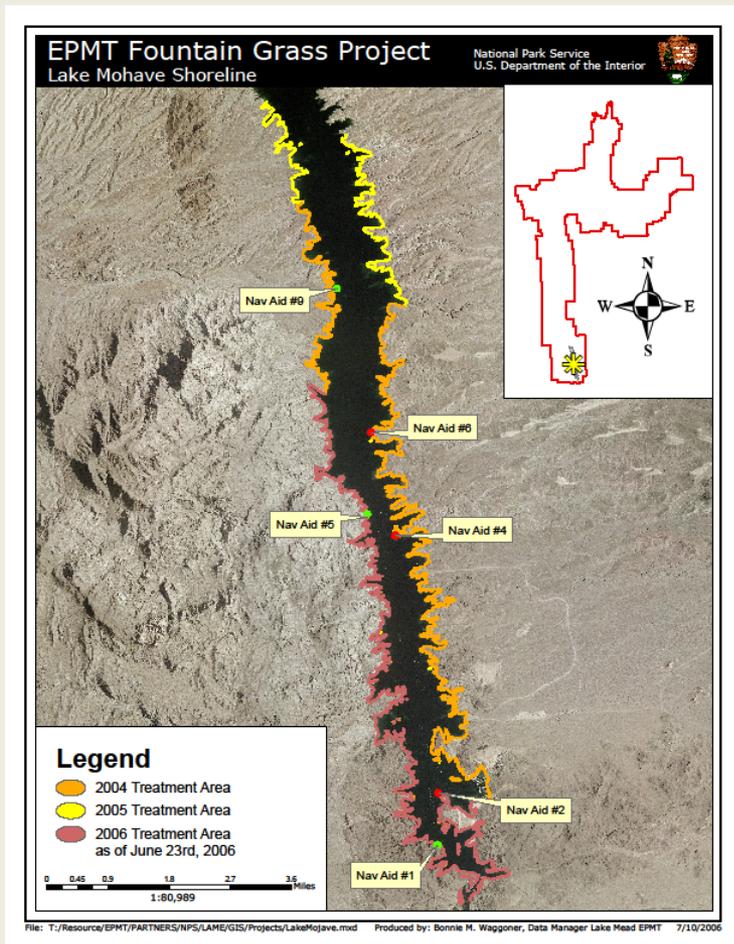


Fountain Grass: *Pennisetum setaceum*

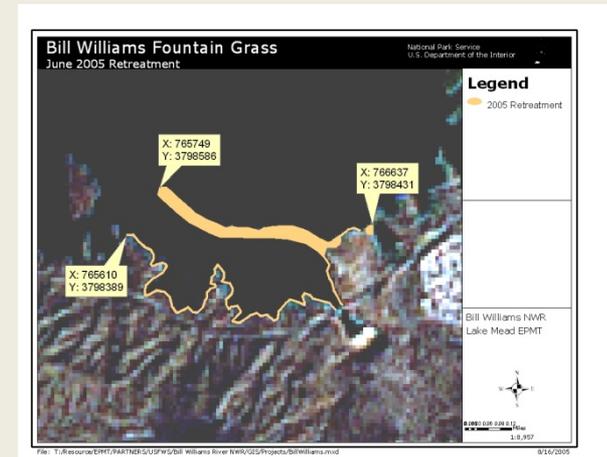
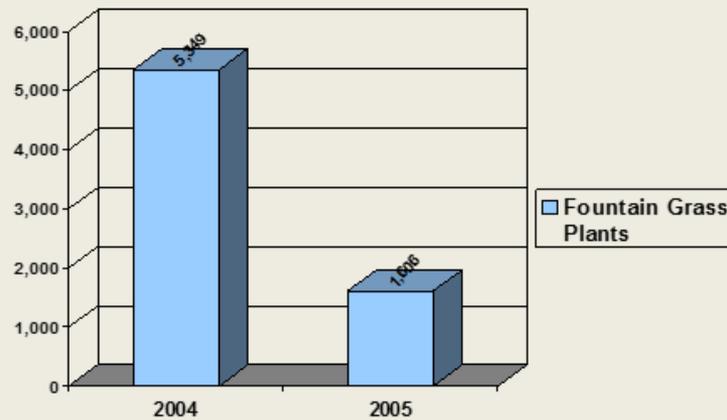
- Perennial bunch grass
- Ornamental
- Wind dispersed seed spreads similar to tamarisk
- Laughlin, NV, Lake Mohave, Bill Williams NWR, Big Bend, NV
- NV Noxious Weed



Lake Mohave Fountain Grass



Fountain Grass Bill Williams Confluence



Giant Reed: *Arundo donax*

- Perennial grass
- *Phragmites* on steroids
- Large rhizomes
- Patches that converge
- Monotypic
- LCR, Virgin River, LV Wash
- S Cal Coastal Rivers, Rio Grande



Topock Arundo



Control and Restoration Opportunities

- Post Fire
- Post Flood
- MSCP
- Habitat Creation Sites
- Mitigation
- Restoration Sites
- Tamarisk Bio-control
- Grants



CWMA Ideas/Discussion

- Initial Meetings?
 - When and Where?
- List of interested partners

National Park Service



Lake Mead Exotic Plant Management Team

THANK YOU:

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