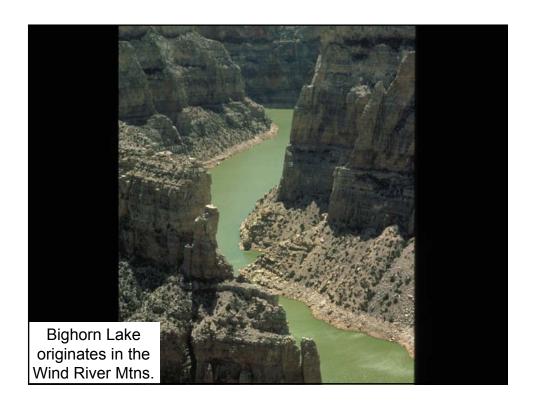


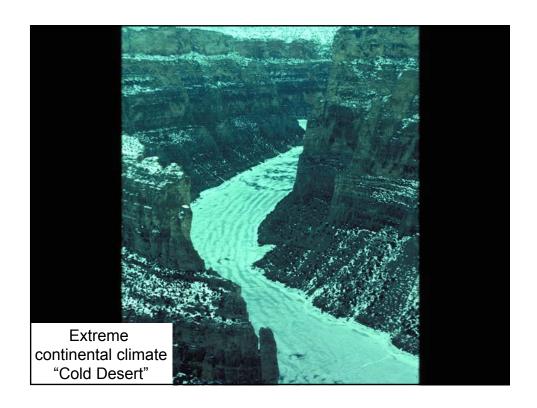
Yellowtail Dam Ft. Smith, Montana

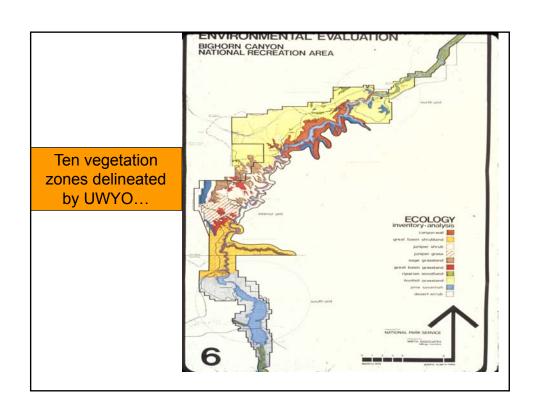
> NRA 120,000 acres

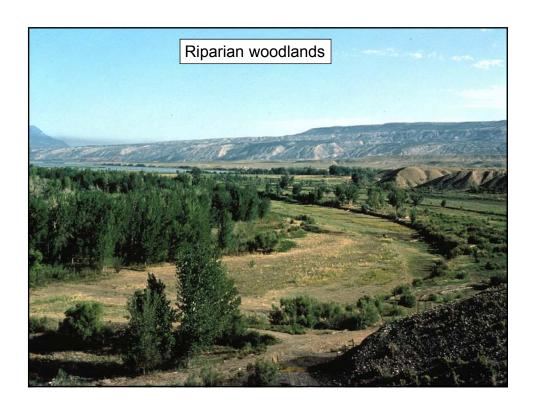
Bighorn Lake 71 miles

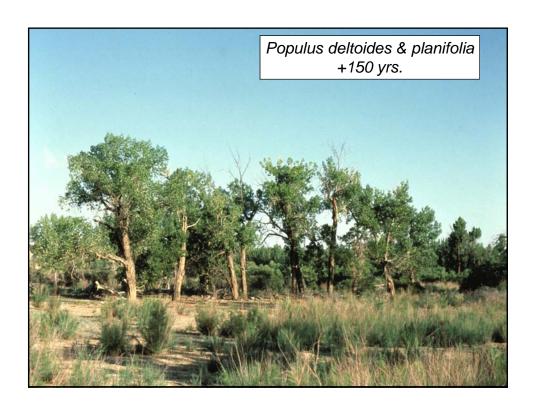


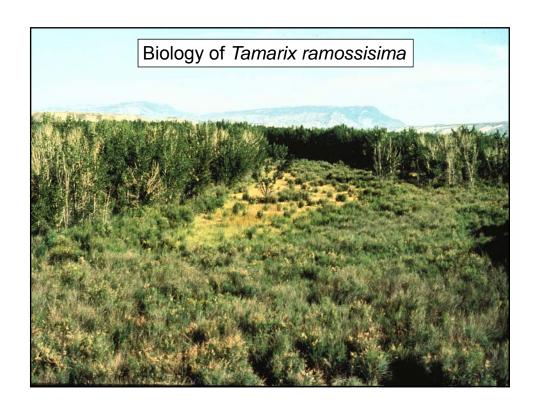


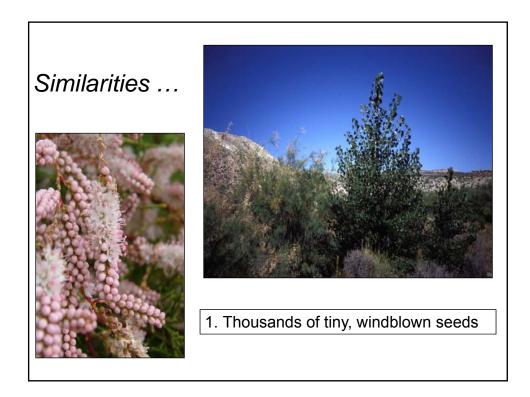














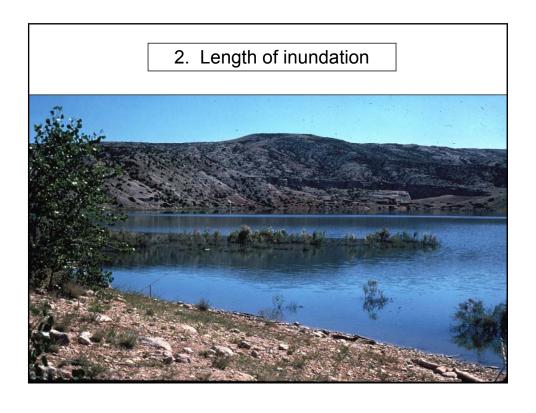


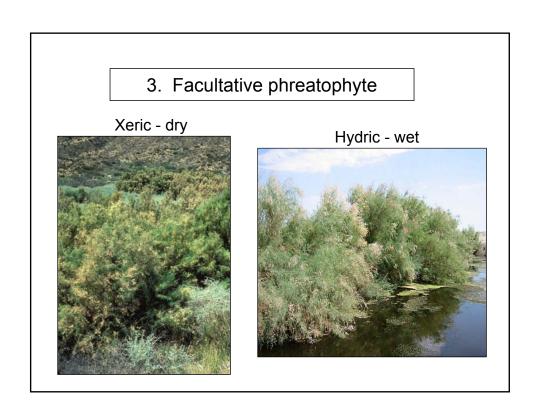
## Differences...

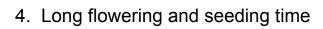
1. Halophytic – salt tolerant





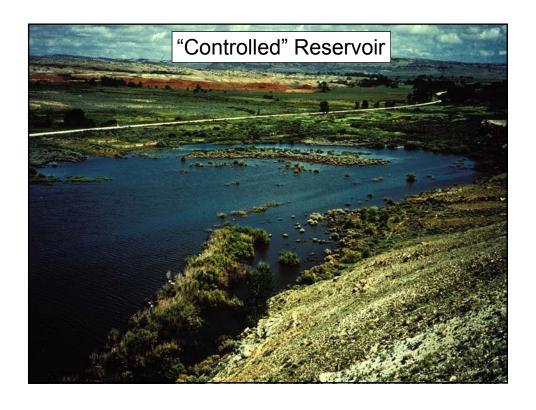


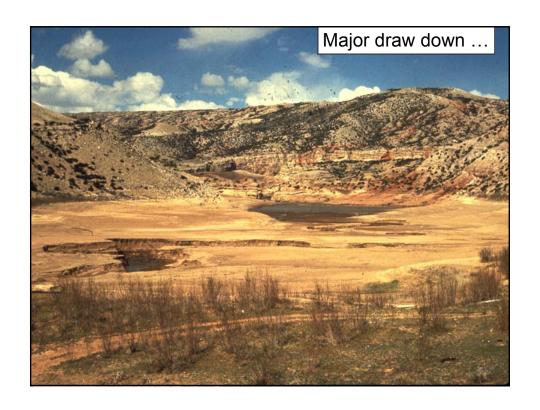


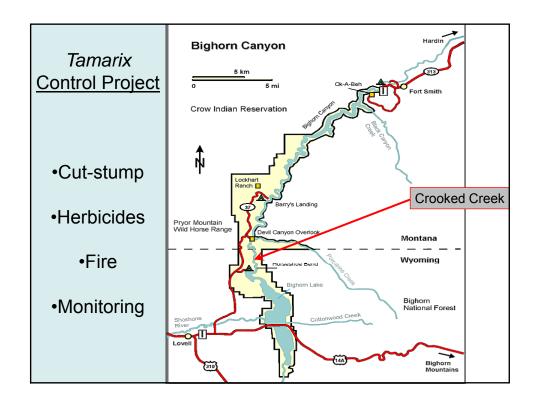


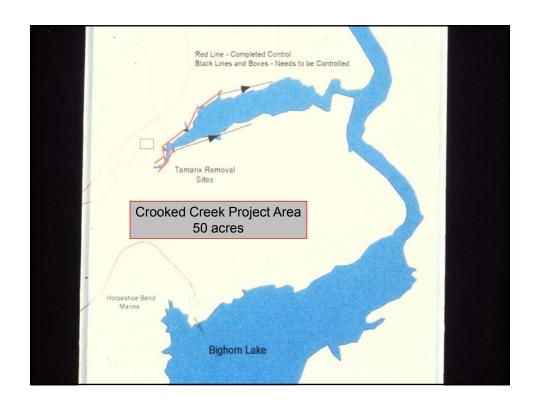






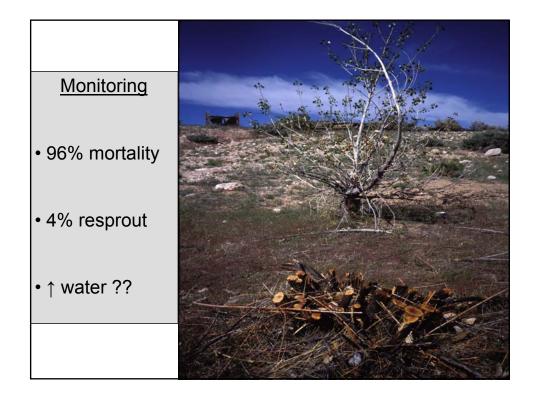
















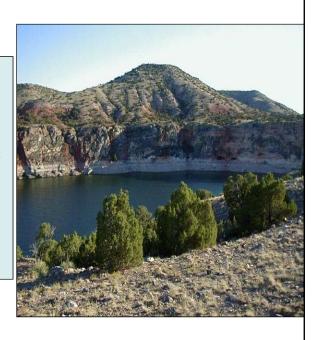
Record high water & "bathtub rings"...

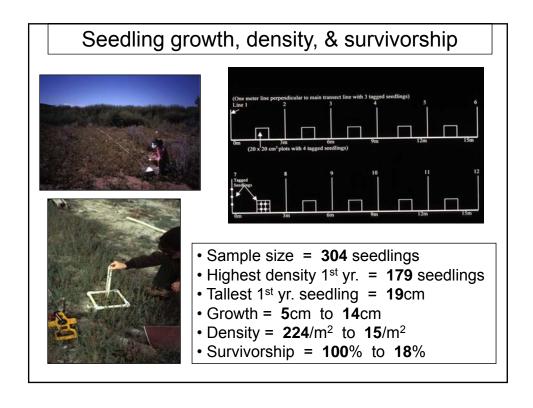


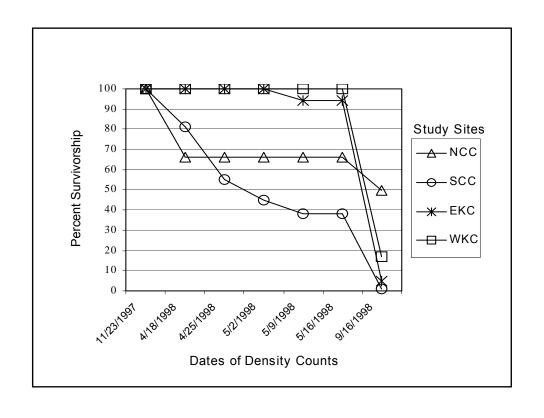


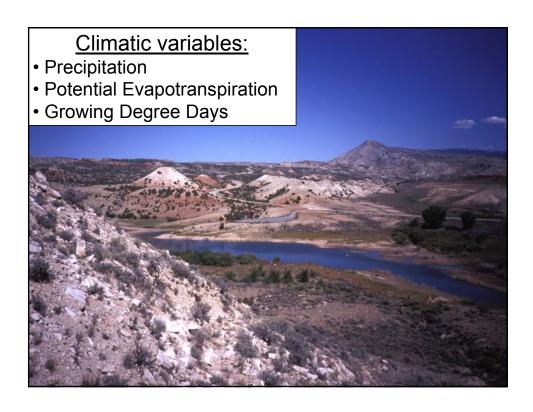
### Previous Research

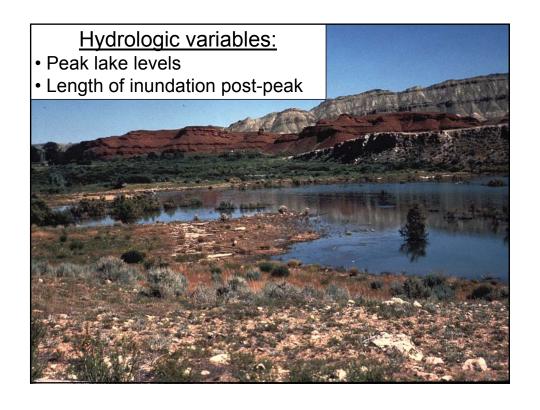
- No data this far north
- No seedling field work
- Main emphasis on control
- Anecdotal information











# Mature shrub age distribution & stand density





- Samples size = 178 shrubs
- 4 elevations (distinct bathtub rings?)
- 4 aspects
- NO site differences for age distribution or stand density.

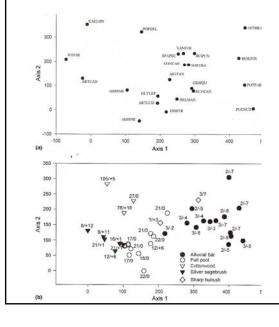


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#### RESEARCH RESULTS

- Low annual peak lake levels appear to promote successful establishment of Tamarix ramossisima.
- Warmer years with higher PET also appear to promote successful establishment of Tamarix ramossisima.

# CM Russell NWR, MT (see pdf, Lesica & Miles 2004, in Data folder)



- DCA axis 1 correlated with age of woody plants and elevation; interpreted as succession
- Axis 2 separated silver sagebrush from mature cottonwoods
- Tamarisk recruited during drawdowns following high water
- They could have improved their visual presentation!

L&M suggest strategic management considering geomorphology, vegetation diversity and critical wildlife habitat; controlling cattle and beavers is important for cottonwood and willow regeneration

