Biological Control of Saltcedar
Carlsbad, NM

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Environmental Applications and Research
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Project Overview

• Releases initiated in 2004
• Posidi ecotype of *Diorhabda elongata*
• Beetles released in cages and sleeve-bags
2004 site was in a basin just outside of levy road

Flooding occurred mid April and during over-wintering period

Predation

Yellowing from leafhopper damage
2005 site in lake bed
Before grasshopper invasion

After grasshopper invasion
Summary

• No success establishing beetles at either site/year
  – Flooding in 2004
  – Grasshoppers in 2005
  – Predation issues in both years
2006 Plan

• 2 sites?
  – Still scoping out good locations
    • Avoid standing water
    • Avoid grasshoppers (kochia correlated?)
    • Secure
    • Accessible
    • On approved BOR land

• Use cages and sleeve-bags
• Beetle availability still uncertain
2006 ?