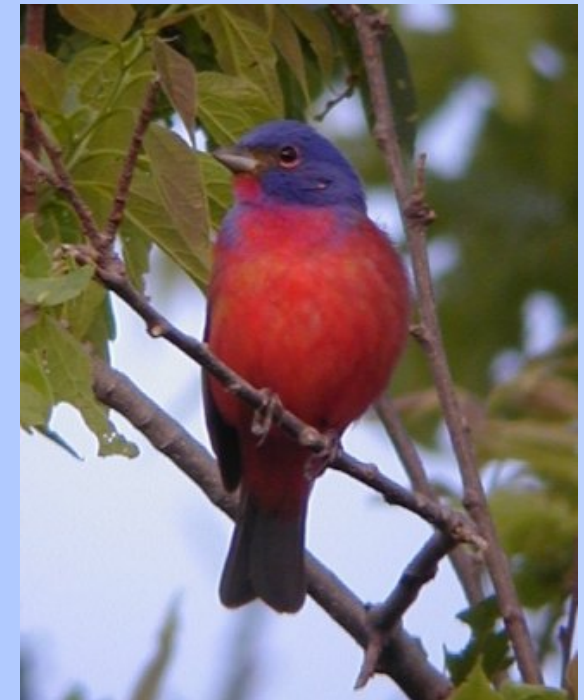


# **EFFECTS OF SALT CEDAR CONTROL MEASURES ON WILDLIFE, PECOS RIVER, NEW MEXICO**



**2006: 2nd Year  
of a 3-Year  
Research Effort**





# Acoustic Bat Surveys



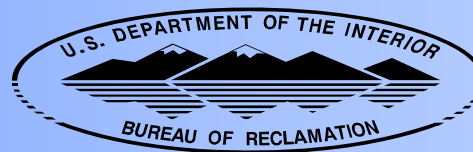
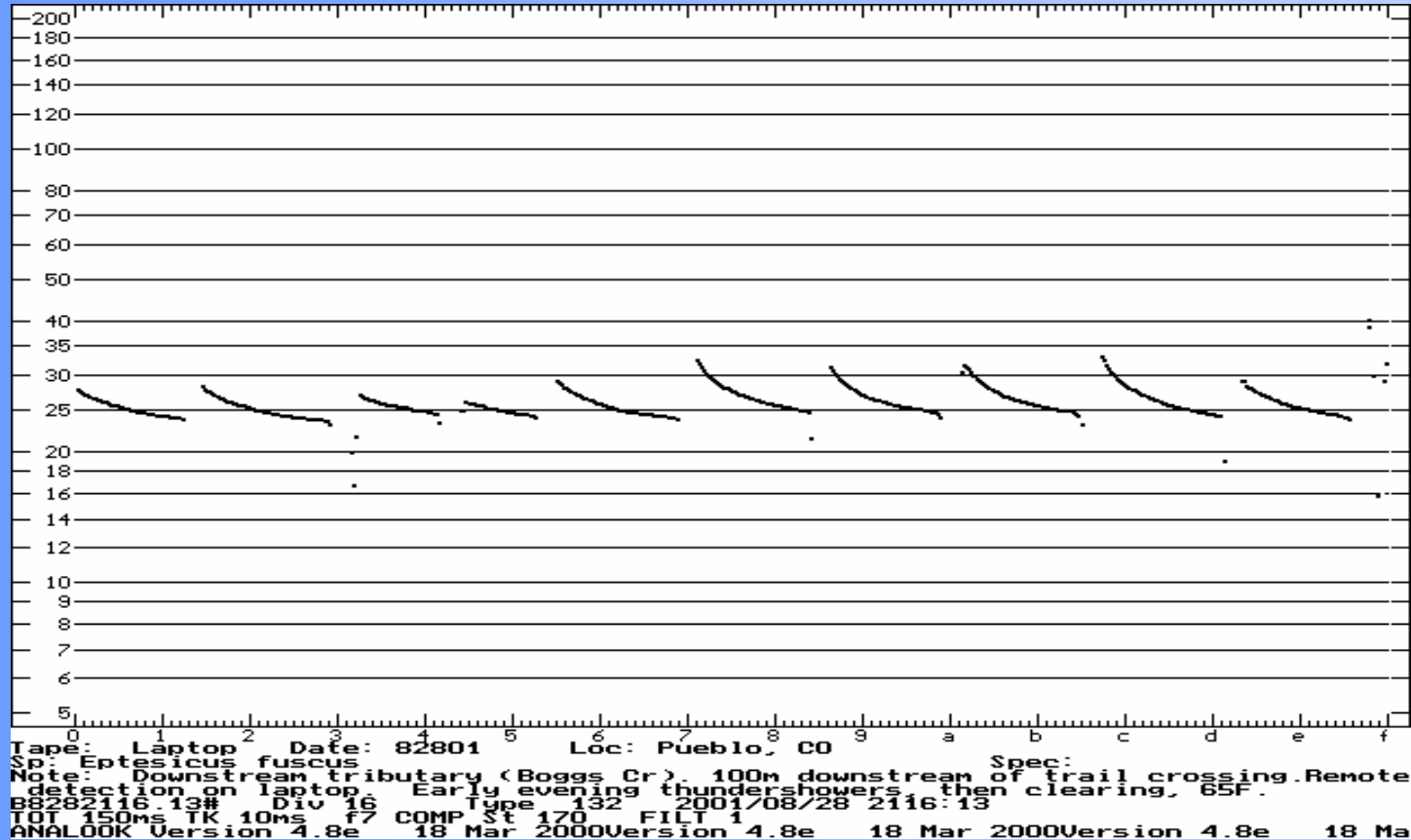
Setting out an  
Anabat Bat  
Detector at  
Scott's New  
Release Site





- Anabat Bat Detectors Record Ultrasonic Bat Calls on Compact Flash Cards.
- Detectors record all night
- Calls can be identified to species &/or species groups

## A Bat Call File Looks Like This:





- There were approximately 20,000 bat call files recorded for the 2006 Field Season for the Pecos River sites.
- Sampling was conducted 3 times during May, June & July
- Species identified by comparing calls to a library of known call signatures



## **Acoustic Bat Sampling Conducted at:**

### **2 Treatment Sites:**

Biocontrol (Scott O'Meara's New  
Saltcedar Leaf Beetle Release Site) &

Aerial Herbicide Near Dayton Road

**2 Control Sites:** Seven Rivers Waterfowl Area &  
Brantley Wildlife Area Adjacent to Pecos

**1 Native Site:** Black River



# Avian Point Counts



- All Birds Heard & Observed are Recorded for 5 Minutes Per Point.



- 10 to 12 Points per Site Were Sampled 3 Times in May, June & July.
- Avian Point Counts Were Conducted at the Same Times & Locations as the Acoustic Bat Surveys.





- Data Analysis to be Conducted Winter of 06/07
- 2007 Will Continue Avian Point Counts & Acoustic Bat Surveys (Final Year) At Saltcedar Treatment, Control & Native Sites on the Pecos
- Riparian Butterfly Surveys Were Conducted on the Pecos in 2005
- Wildlife Research Also Conducted on the Arkansas, Rio Grande & Canadian Rivers

