

# Lower Colorado River Multi-Species Conservation Program



*Balancing Resource Use and Conservation*

## Exciting Updates in the World of Bats on the LCR



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Bureau of Reclamation



# Covered and Evaluation Bat Species

Western Red Bat  
(*Lasiurus blossevillii*)



Townsend's  
Big-Eared Bat  
(*Corynorhinus townsendii*)



California Leaf-Nosed Bat  
(*Macrotus californicus*)



Western Yellow Bat  
(*Lasiurus xanthinus*)



# New Permanent Acoustic Station

- Installed at the 'Ahakhav Tribal Preserve on April 7



# New Permanent Acoustic Station

- Area chosen is a large opening surrounded by cottonwood-willow and mesquite plantings

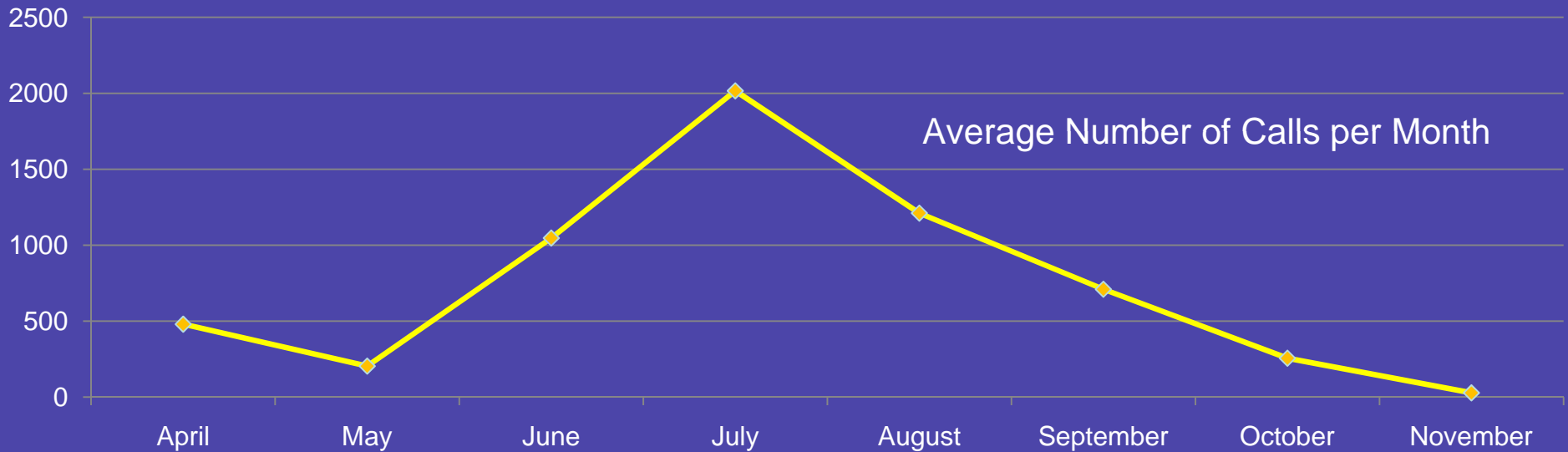
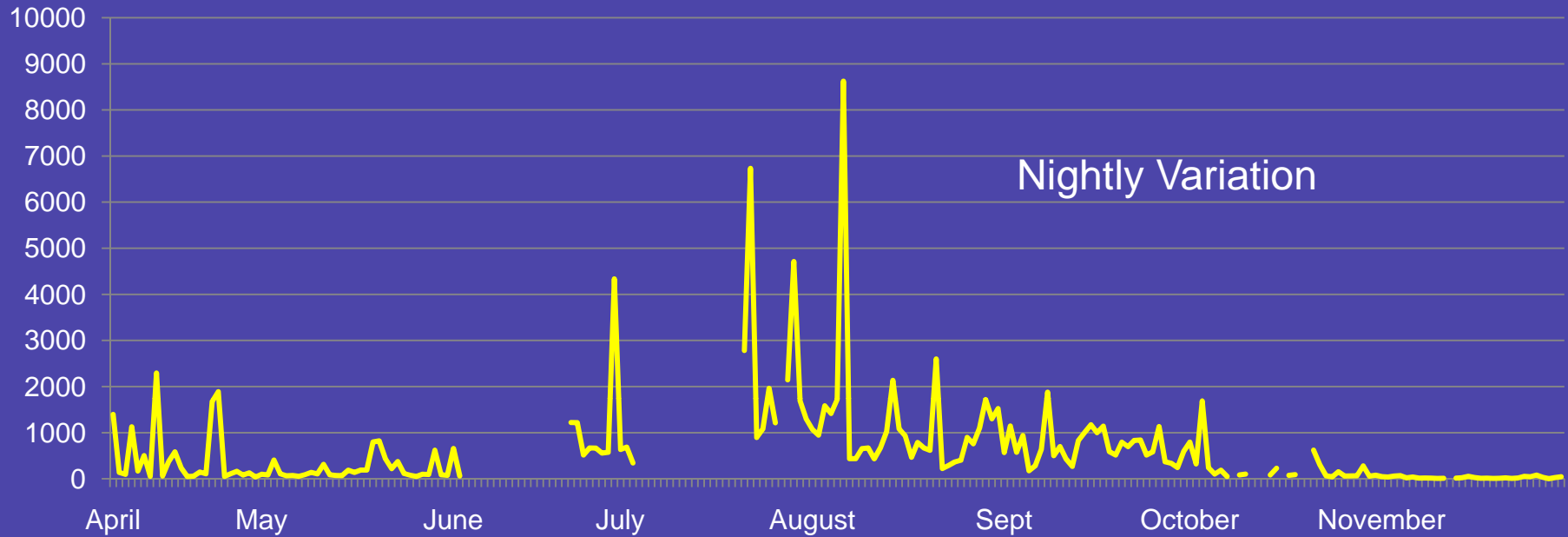


# New Permanent Acoustic Station

- Collects full spectrum .wav files
- Data downloads to portable drive

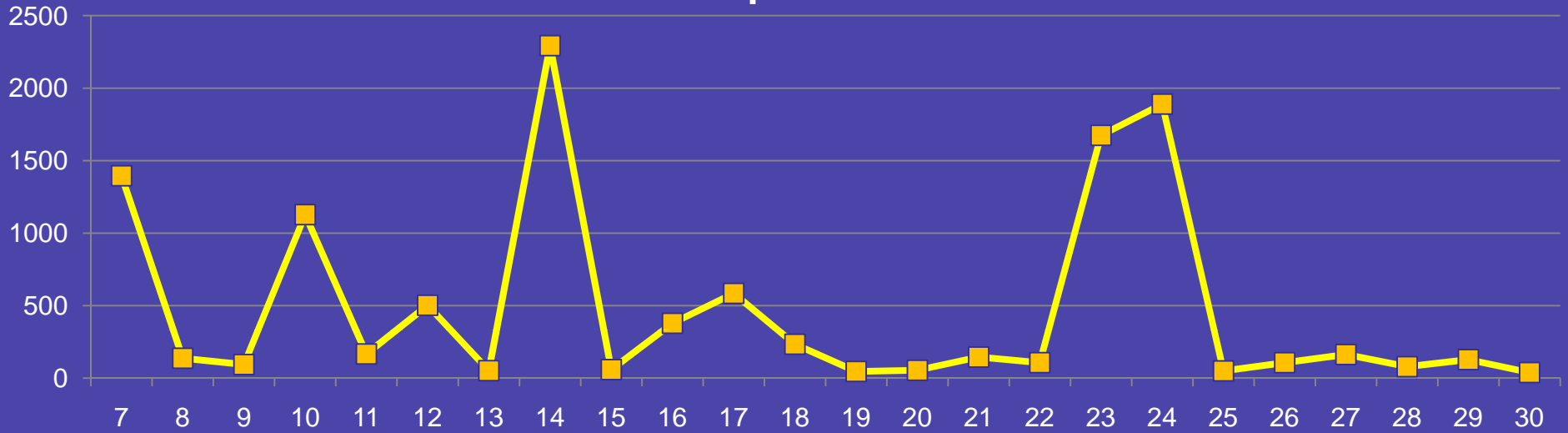


# Preliminary Results

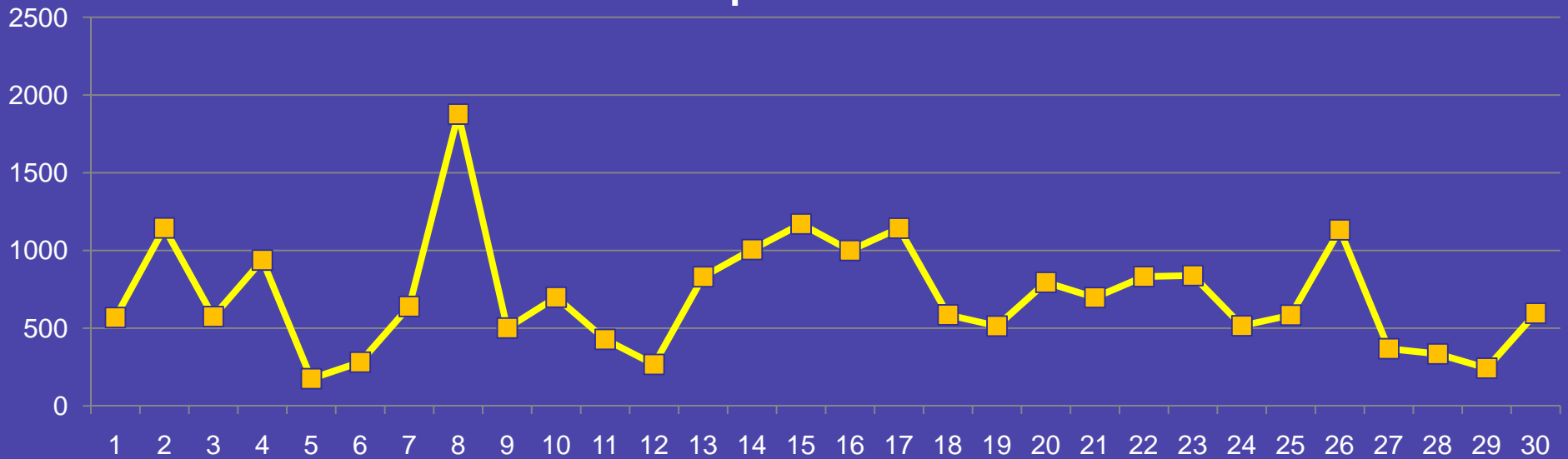


# Preliminary Results

April



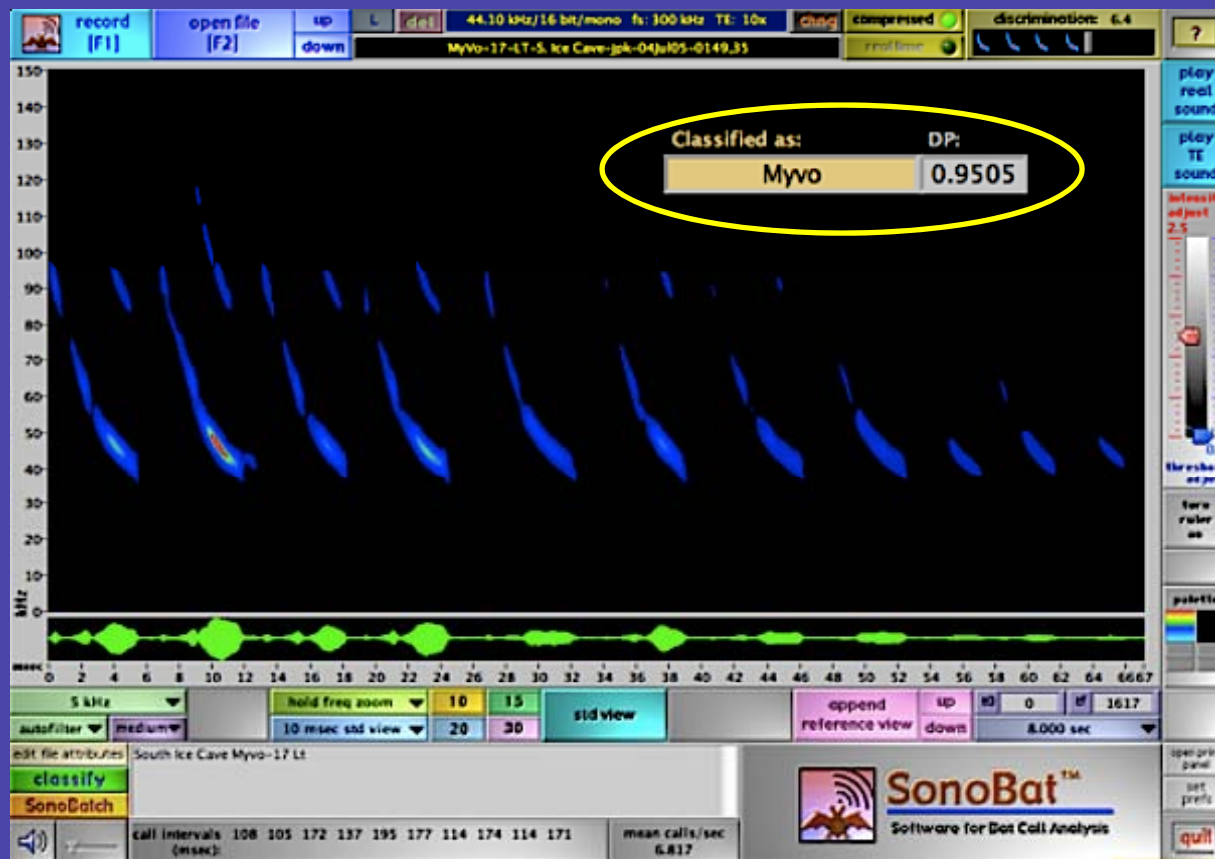
September





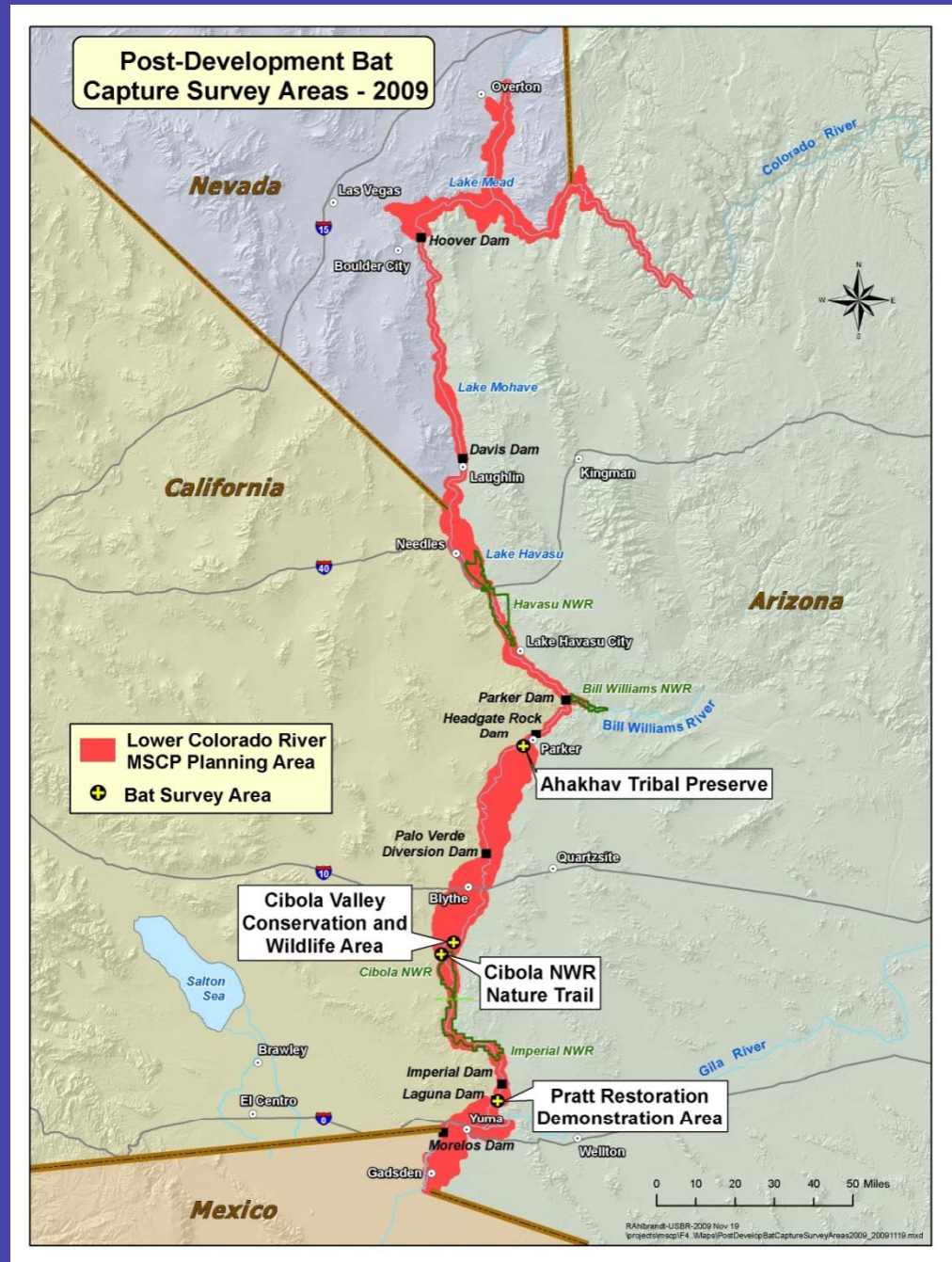
# Preliminary Results

- Some data loss due to various malfunctions
- Most bugs worked out by end of July
- No species analysis yet!



# Capture Survey Areas

- 4 sites monitored once each month from May-September
- Two triple high net sets were used at all sites



# Summary of 2009 Results

- A total of 526 bats of 12 species were captured from 20 survey nights
- 23 California leaf-nosed bats captured
- 12 western yellow bats captured
- 5 western red bats captured





# The Big News

- The first capture ever recorded of a western red bat along the mainstem lower Colorado River was in February 2009
- Four additional red bats were captured in August and September (1 more at Ahakhav and 3 at CVCA)



# The Other Big News

- Rediscovery of the Arizona Myotis (*Myotis occultus*) on the LCR
- Genetic samples were sequenced and were confirmed to be *Myotis occultus*



# Summary of all sites 2007-2009

- 789 bats of 12 species have been captured from 52 survey nights
- 56 California leaf-nosed bats captured
- 23 western yellow bats captured
- 5 western red bats captured (all in 2009)



# What's going on in 2010?

- Capture surveys will continue at all but the Pratt site in 2010 using the same protocol as 2009
- Due to the success at CVCA, the similar Palo Verde Ecological Reserve north of Blythe, CA will replace Pratt





# Upcoming Research

- CA leaf-nosed bat population genetic study
- Telemetry study to determine roosting characteristics of red and yellow bats
- Determine where the LCR Arizona Myotis fits taxonomically



# Questions?



[www.LCRMSCP.gov](http://www.LCRMSCP.gov)