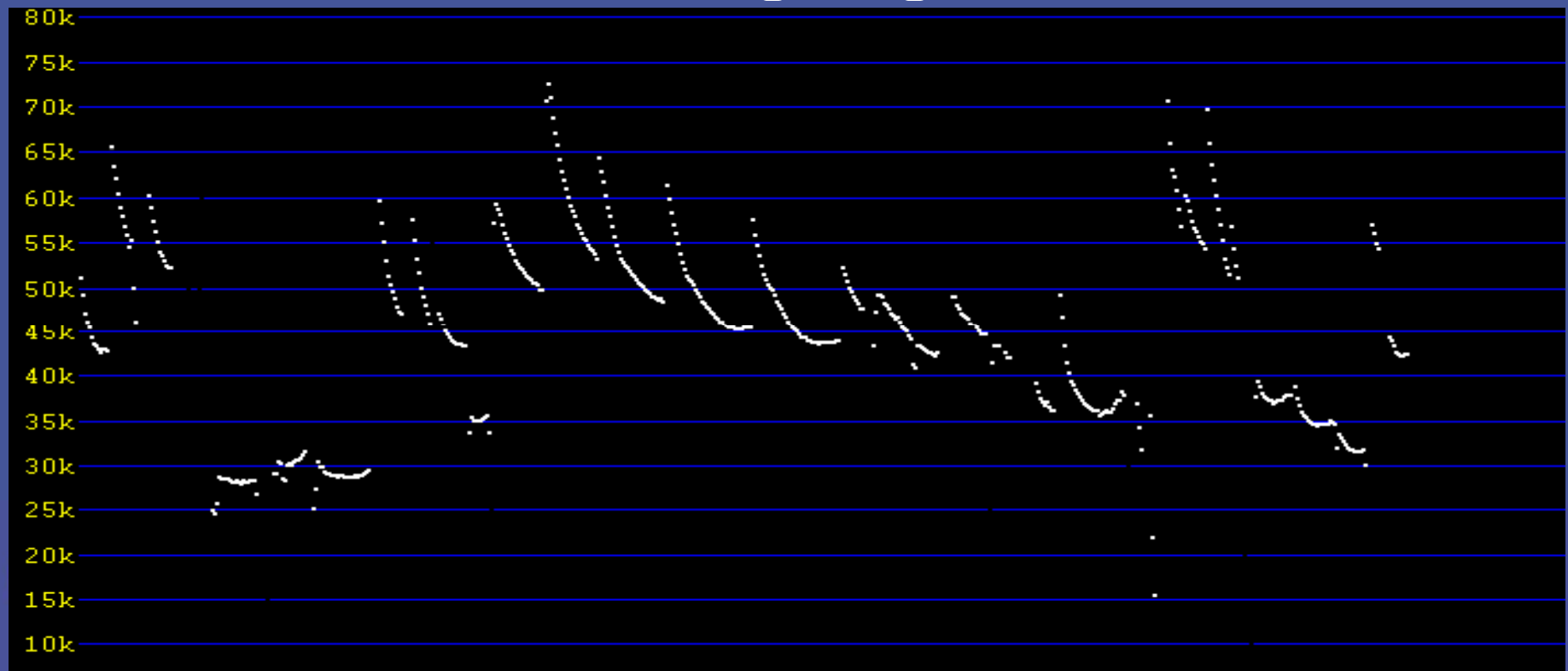


Lower Colorado River Multi-Species Conservation Program

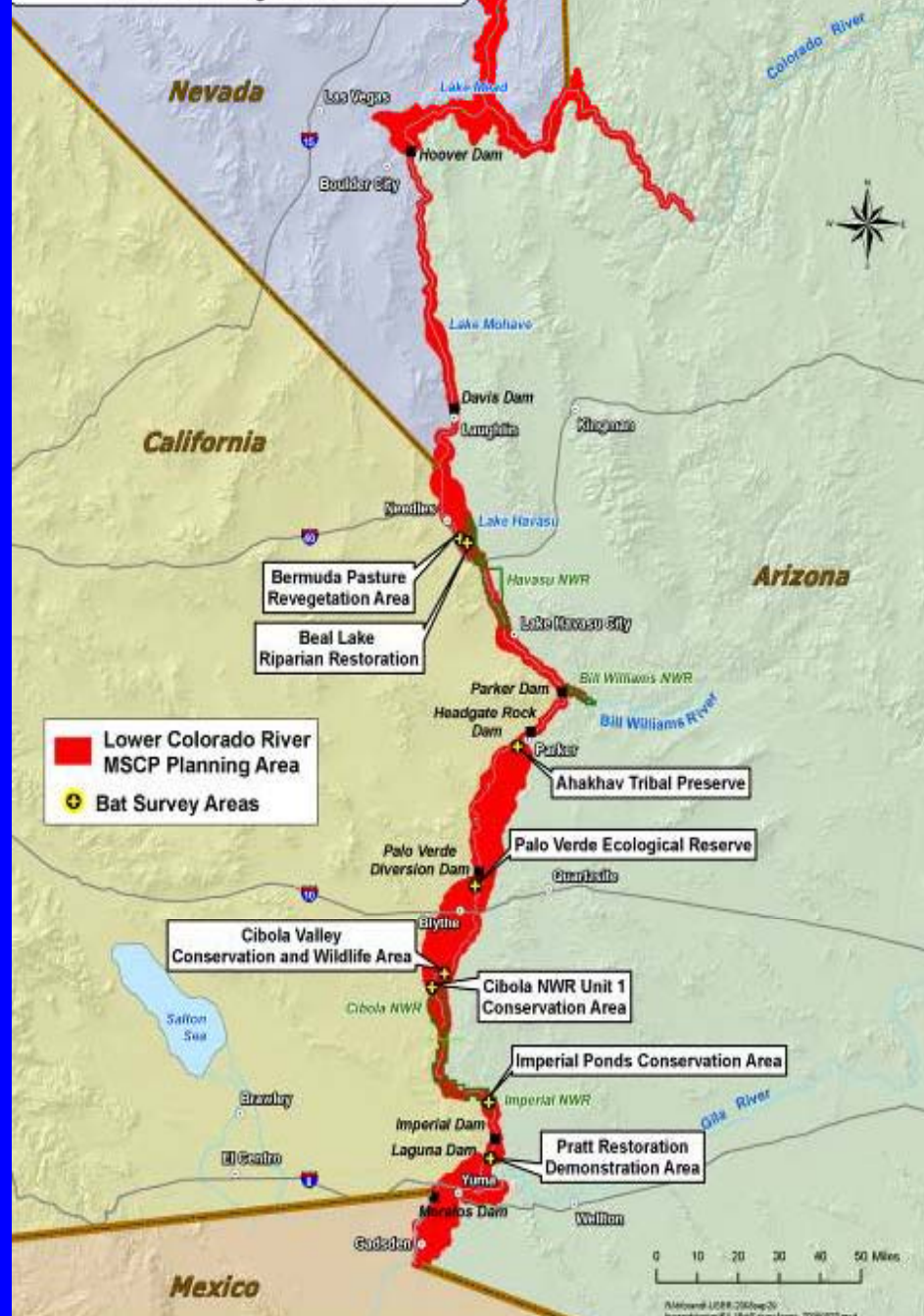


Balancing Resource Use and Conservation

Post Development Bat Monitoring 2009 Highlights



LCR MSCP Post-Development Bat Survey Areas



MONITORING AREAS

Beal Riparian Restoration Area

Ahakhav Preserve

Palo Verde Ecological Reserve

Cibola Valley Conservation Area

Cibola National Wildlife Refuge Unit #1

Imperial Ponds Conservation Area

Pratt Restoration Area



Sapling Cottonwood

Intermediate Cottonwood

Mesquite

Saltcedar

Agriculture

Study Design

CVCA/CNWR#1 and Imperial Ponds/Pratt combined to provide adequate sample

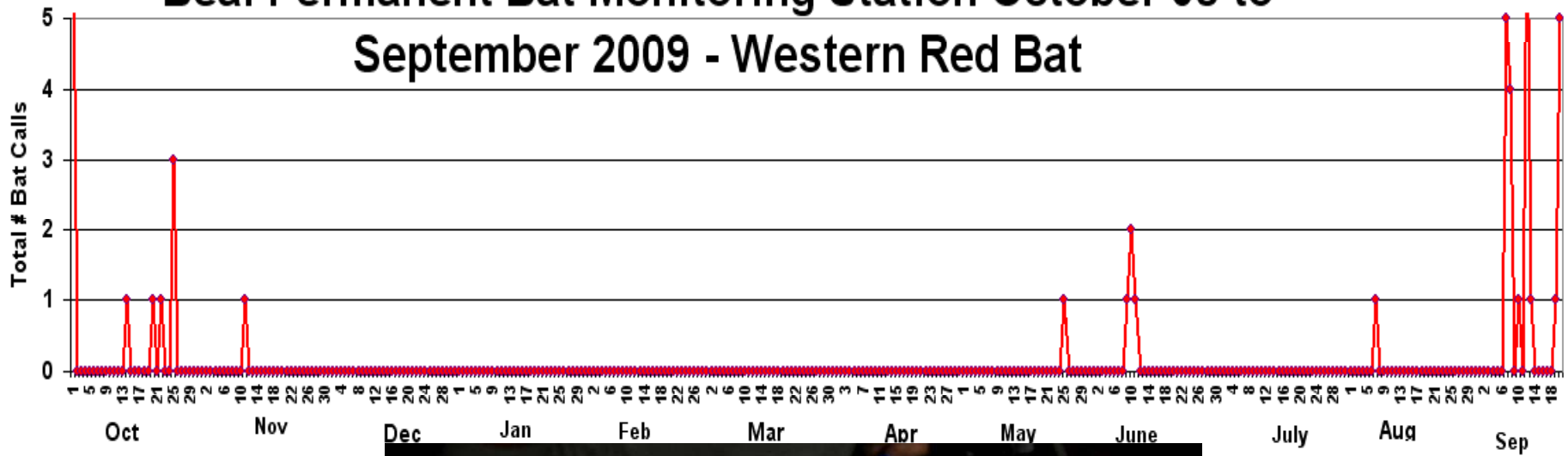
- At least 3 of 5 habitat types monitored/study area
- 3 bat detectors deployed in each habitat type so that at least 9 detectors deployed on any given night
- Surveys conducted for 2 days every quarter at each study area - all 4 seasons are sampled each year

Beal Riparian Restoration Area

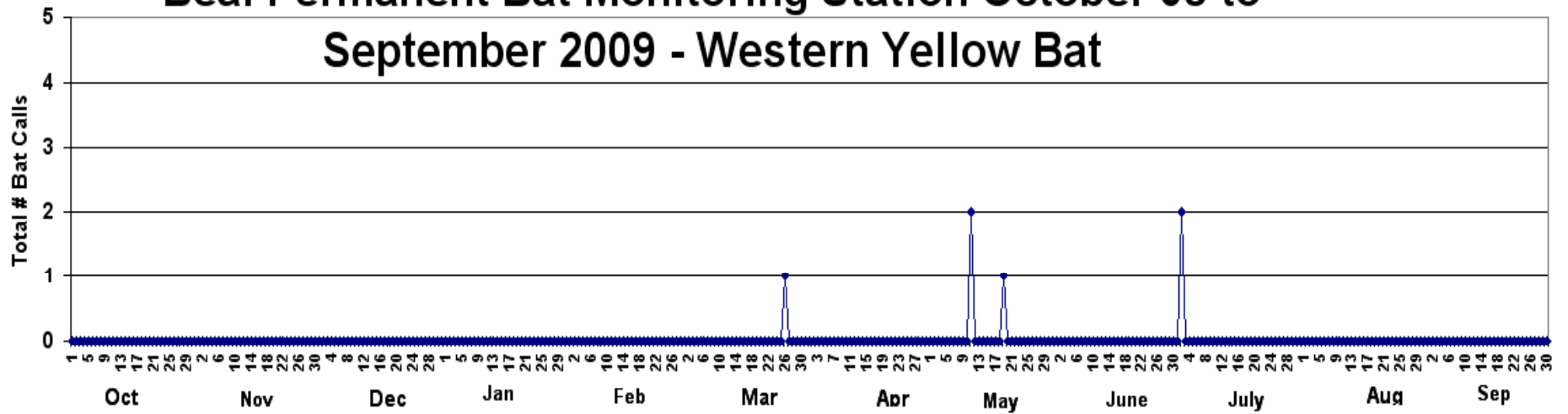
Species	FY07	FY08	FY09	All Years
Western Red Bat	3	0	2	5
Western Yellow Bat	9	1	0	10
California Leaf-Nosed Bat	7	3	3	13
Townsend's Big-Eared Bat	1	0	2	3
All other species	1607	2292	3594	7493
Total call minutes	1627	2296	3601	7524



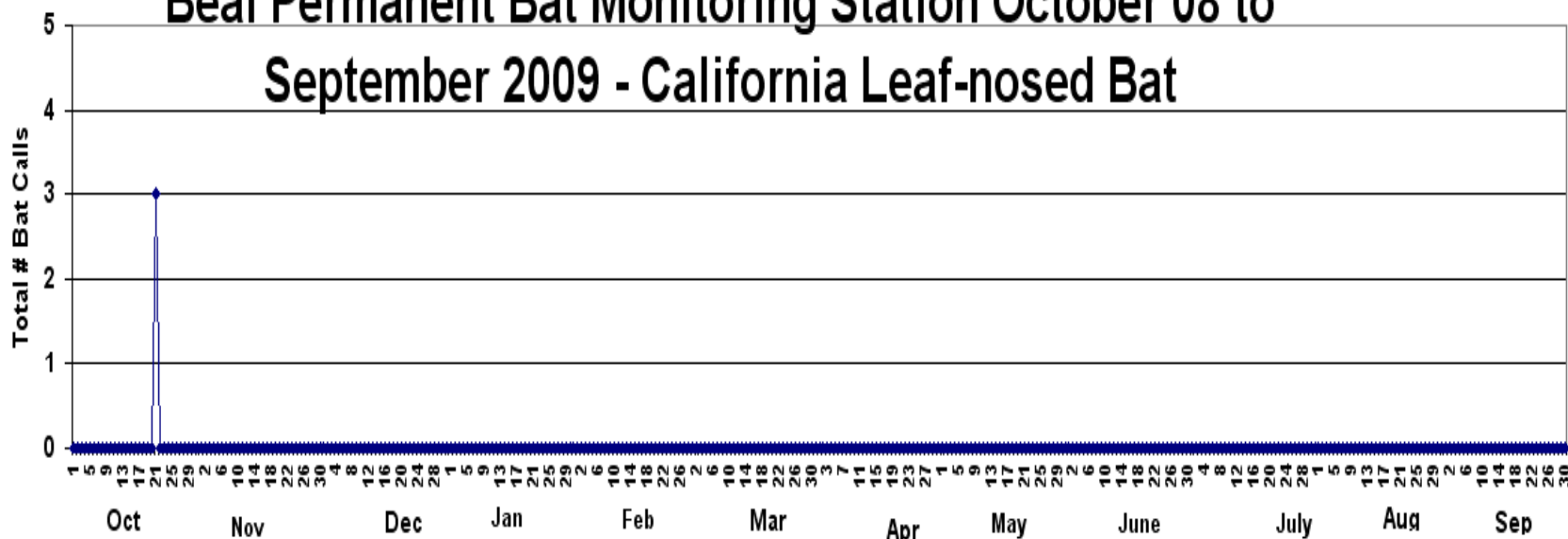
Beal Permanent Bat Monitoring Station October 08 to September 2009 - Western Red Bat



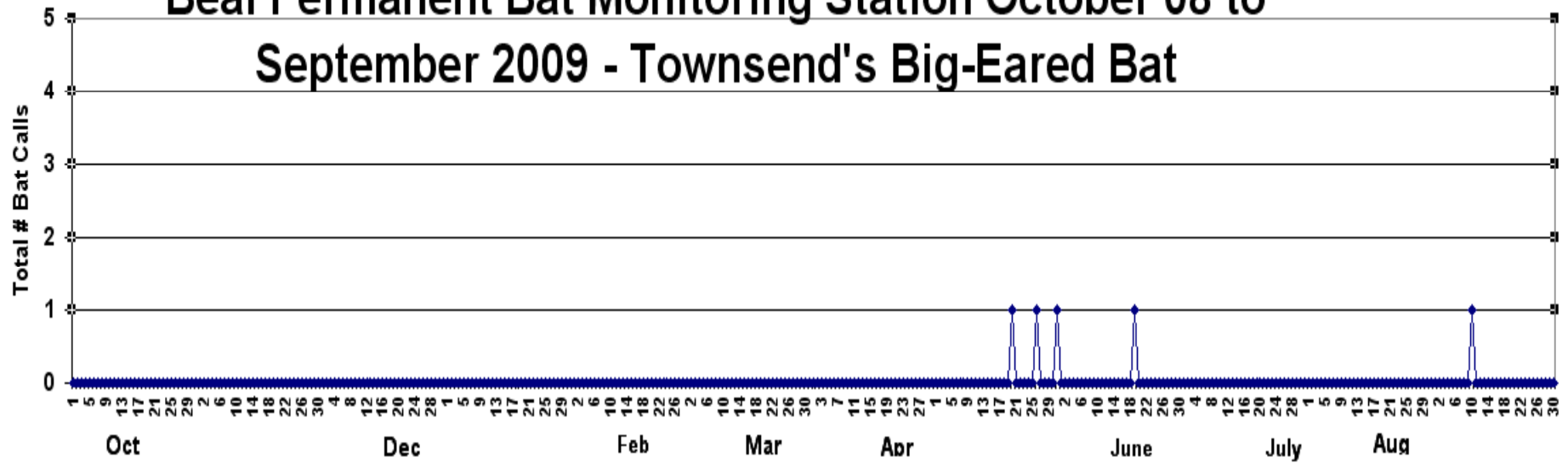
Beal Permanent Bat Monitoring Station October 08 to September 2009 - Western Yellow Bat



Beal Permanent Bat Monitoring Station October 08 to September 2009 - California Leaf-nosed Bat



Beal Permanent Bat Monitoring Station October 08 to September 2009 - Townsend's Big-Eared Bat



'Ahakhav Preserve

Species	FY08	FY09	Both Years
Western Red Bat	2	180	182
Western Yellow Bat	69	203	272
California Leaf-Nosed Bat	37	67	104
Townsend's Big-Eared Bat	1	1	2
All other species	7238	11372	18610
Total call minutes	7347	11823	19170

'Ahakhav Preserve

Species	FY08	FY09	Both Years
Western Red Bat	2	180	182
Western Yellow Bat	69	203	272
California Leaf-Nosed Bat	37	67	104
Townsend's Big-Eared Bat	1	1	2
All other species	7238	11372	18610
Total call minutes	7347	11823	19170

'Ahakhav Preserve

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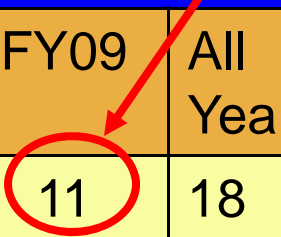


Palo Verde Ecological Reserve

Species	FY07	FY08	FY09	All Years
Western Red Bat	6	1	11	18
Western Yellow Bat	0	0	1	1
California Leaf-Nosed Bat	22	3	23	48
Townsend's Big-Eared Bat	0	0	1	48
All other species	1380	1349	2229	4958
Total call minutes	1408	1353	2265	5026

Palo Verde Ecological Reserve

Species	FY07	FY08	FY09	All Years
Western Red Bat	6	1	11	18
Western Yellow Bat	0	0	1	1
California Leaf-Nosed Bat	22	3	23	48
Townsend's Big-Eared Bat	0	0	1	48
All other species	1380	1349	2229	4958
Total call minutes	1408	1353	2265	5026

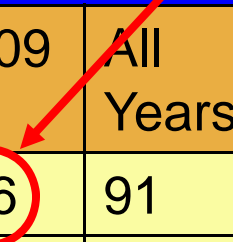


Cibola Valley Conservation Area & Cibola NWR Unit #1 Conservation Area

Species	FY07	FY08	FY09	All Years
Western Red Bat	4	1	86	91
Western Yellow Bat	0	0	13	13
California Leaf-Nosed Bat	48	70	54	172
Townsend's Big-Eared Bat	1	0	6	7
All other species	1288	2677	7433	11398
Total call minutes	1341	2748	7592	11681

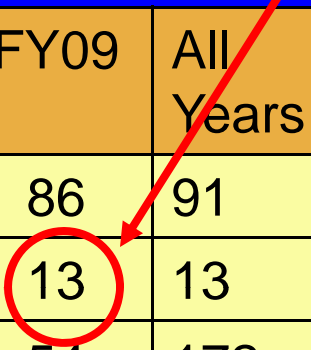
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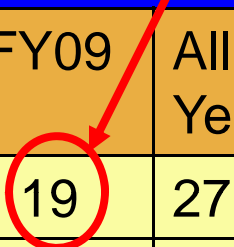


Imperial Ponds Conservation Area & Pratt Restoration Area

Species	FY07	FY08	FY09	All Years
Western Red Bat	7	1	19	27
Western Yellow Bat	0	4	7	11
California Leaf-Nosed Bat	63	63	75	201
Townsend's Big-Eared Bat	4	0	1	5
All other species	3914	4424	6404	14742
Total call minutes	3988	4492	6506	14900

Imperial Ponds Conservation Area & Pratt Restoration Area

Species	FY07	FY08	FY09	All Years
Western Red Bat	7	1	19	27
Western Yellow Bat	0	4	7	11
California Leaf-Nosed Bat	63	63	75	201
Townsend's Big-Eared Bat	4	0	1	5
All other species	3914	4424	6404	14742
Total call minutes	3988	4492	6506	14900



**Completion of Intensive Acoustic
Sampling**

Data Analysis

**Transition to Permanent Bat
Monitoring Stations**