

**1999 BCI Bat Conservation and Management Workshop  
Portal, AZ**

AZ: Cochise County, Coronado National Forest, Chiricahua Mountains  
Summary of Capture Data

J.Tyburec/BCI

**ANABAT TRAINING WORKSHOP**

Day 01: 25 May 1999 – 19:30-21:00  
 Weather: Start Temp: 75°F End Temp: 68°F – Clear skies, no wind.  
 Location **B**: South Fork of Cave Creek Canyon near water crossing on road  
 GIS Coord: 31° 52' 21.8" N – 109° 10' 59.3 W  
 Site #1: One large Aust-Bat Harp Trap set just down stream from water crossing on road, beneath overhanging vegetation and encroaching willows.

|   |                           |
|---|---------------------------|
| <i>Antrozous pallidus</i> , pallid bat                  | 1 male                    |
| <i>Eptesicus fuscus</i> , big brown bat                 | 1 male                    |
| <i>Myotis auriculus</i> , southwestern myotis           | 2 (1 female (nr), 1 male) |
| <i>Myotis californicus</i> , California myotis          | 5 males                   |
| <i>Myotis ciliolabrum</i> , western small-footed myotis | 2 males                   |
| <i>Myotis volans</i> , long-legged myotis               | 2 (1 female (nr), 1 male) |
| <i>Pipistrellus hesperus</i> , western pipistrelle      | 1 male                    |
| <i>Tadarida brasiliensis</i> , Mexican free-tailed bat  | 1 male                    |
| Total species =   | 8                         |
| Total individuals =                                     | 15                        |

Site #2: Three mist-nets set along stream; one 30-foot net set upstream from water over road underneath overhanging Arizona cypress, and one 30-foot net plus one 18-foot net set in a V-arrangement downstream from water over road and trap site over small still pool in stream (25' long x 8' wide) between vegetation and large boulder and under overhanging vegetation.

|   |                                 |
|---|---------------------------------|
| <i>Antrozous pallidus</i> , pallid bat                    | 6 males                         |
| <i>Corynorhinus townsendii</i> , Townsend's big-eared bat | 3 (1 male, 2 females (1p, 1nr)) |
| <i>Eptesicus fuscus</i> , big brown bat                   | 1 male                          |
| <i>Lasionycteris noctivagans</i> , sliver-haired bat      | 1 male                          |
| <i>Myotis auriculus</i> , southwestern myotis             | 6 (3 males, 3 females (nr))     |
| <i>Myotis ciliolabrum</i> , western small-footed myotis   | 1 male                          |
| <i>Myotis thysanodes</i> , fringed myotis                 | 2 males                         |
| <i>Myotis velifer</i> , cave myotis                       | 2 males                         |
| <i>Pipistrellus hesperus</i> , western pipistrelle        | 1 male                          |
| Total species =   | 9                               |
| Total individuals =                                       | 23                              |

Day 02: 26 May 1999 – 19:30-22:00  
 Weather: Start Temp: 61°F End Temp: 58°F – Clear skies, slight breeze.  
 Location **K**: Silver Creek between Portal and Paradise near new wildlife water tank.  
 GIS Coord: 31° 55' 54.9" N – 109° 05.1" W  
 Site #1: One 18-foot net across streambed over small (3' x 3' pool) under overhanging vegetation.

|   |  |
|---|--|
| <i>Antrozous pallidus</i> , pallid bat                    | 1 male                                 |
| <i>Corynorhinus townsendii</i> , Townsend's big-eared bat | 1 female (p)                           |
| <i>Myotis californicus</i> , California myotis            | 7 (2 males, 2 females (nr), 3 unknown) |
| <i>Myotis volans</i> , long-legged myotis                 | 1 male                                 |
| <i>Pipistrellus hesperus</i> , western pipistrelle        | 1 female (nr)                          |
| Total species =   | 5                                      |
| Total individuals =                                       | 11                                     |

Site #2: Two 18-foot nets over water for wildlife tank in a v-arrangement

|  |                            |
|--|----------------------------|
| <i>Myotis auriculus</i> , southwestern myotis  | 3 females (nr)             |
| <i>Myotis californicus</i> , California myotis | 3 (1 male, 2 females (nr)) |
| <i>Myotis thysanodes</i> , fringed myotis      | 3 females (nr)             |
| <i>Myotis volans</i> , long-legged myotis      | 4 (3 males, 1 female (nr)) |
| Total species =                                | 4                          |
| Total individuals =                            | 13                         |

Site #3: One Large Austbat Harp Trap over dry section of creek upstream from spring, under overhanging cedar tree and between vegetation and rock cliff

|   |                                       |
|---|---------------------------------------|
| <i>Choeronycteris mexicana</i> , Mexican long-tongued bat | 1 female (p)                          |
| <i>Myotis auriculus</i> , southwestern myotis             | 1 female (nr)                         |
| <i>Myotis californicus</i> , California myotis            | 16 (9 males, 7 females (1p, 1f, 5nr)) |
| <i>Myotis ciliolabrum</i> , western small-footed myotis   | 1 male                                |
| <i>Myotis volans</i> , long-legged myotis                 | 4 (2 males, 2 females (nr))           |
| Total species =   | 5                                     |
| Total individuals =                                       | 23                                    |

Day 03: 27 May 1999 – 19:30-21:30

Weather: Start Temp: 65°F End Temp: 60°F – Partly cloudy skies, slight breeze.

Location F: Creek side locations downstream from Stewart Bridge, Cave Creek Canyon

GIS Coord: 31° 53' 24.13" N – 109° 10' 6.9" W

Site #1: One 18-foot mist net set diagonally across 10' wide x 30' long pool in stream under overhanging vegetation

|   |                             |
|---|-----------------------------|
| <i>Antrozous pallidus</i> , pallid bat                  | 4 males                     |
| <i>Eptesicus fuscus</i> , big brown bat                 | 7 males                     |
| <i>Lasionycteris noctivagans</i> , silver-haired bat    | 1 male                      |
| <i>Lasiurus cinereus</i> , hoary bat                    | 1 male                      |
| <i>Myotis auriculus</i> , southwestern myotis           | 4 (2 males, 2 females (nr)) |
| <i>Myotis californicus</i> , California myotis          | 3 females (nr)              |
| <i>Myotis ciliolabrum</i> , western small-footed myotis | 1 male                      |
| <i>Myotis thysanodes</i> , fringed myotis               | 3 (1 male, 2 females (nr))  |
| <i>Myotis velifer</i> , cave myotis                     | 1 male                      |
| <i>Myotis volans</i> , long-legged myotis               | 1 female (nr)               |
| <i>Tadarida brasiliensis</i> , Mexican free-tailed bat  | 1 male                      |
| Total species =   | 11                          |
| Total individuals =                                     | 27                          |

Site #2: One Large Austbat Harp Trap over water between and under vegetation just upstream from huge saddle-shaped boulder with pool

|  |                            |
|--|----------------------------|
| <i>Eptesicus fuscus</i> , big brown bat                | 4 males                    |
| <i>Lasionycteris noctivagans</i> , silver-haired bat   | 3 males                    |
| <i>Lasiurus cinereus</i> , hoary bat                   | 1 male                     |
| <i>Myotis auriculus</i> , southwestern myotis          | 3 (2 males, 1 female (nr)) |
| <i>Myotis californicus</i> , California myotis         | 3 (2 males, 1 female (nr)) |
| <i>Myotis velifer</i> , cave myotis                    | 2 males                    |
| <i>Myotis volans</i> , long-legged myotis              | 1 female (nr)              |
| <i>Pipistrellus hesperus</i> , western pipistrelle     | 1 male                     |
| <i>Tadarida brasiliensis</i> , Mexican free-tailed bat | 2 males                    |
| Total species =  | 9 species                  |
| Total individuals =                                    | 20 individuals             |

Site #3: Two 18-foot mist nest along end of downstream side of Stewart Bridge completely covering opening, with western net over 5' wide x 30' long pool of water

|   |                       |
|---|-----------------------|
| <i>Choeronycteris mexicana</i> , Mexican long-tongued bat | 2 females (1p, 1nr)   |
| <i>Eptesicus fuscus</i> , big brown bat                   | 1 male                |
| <i>Myotis californicus</i> , California myotis            | 6 (1 male, 5 unknown) |
| <i>Myotis ciliolabrum</i> , western small-footed myotis   | 1 male                |
| <i>Myotis velifer</i> , cave myotis                       | 2 males               |
| <i>Myotis volans</i> , long-legged myotis                 | 4 males               |
| Total species =   | 6                     |
| Total individuals =                                       | 16                    |

**Summary of Capture Results: 25 May thru 27 May, 1999**  
**7 Eighteen-foot Mist Nets, 2 Thirty-foot Mist Nets, and 3 Large AustBat Harp Traps**  
**(24 net/trap-hours total)**

|   |  |
|---|--|
| <i>Antrozous pallidus</i> , pallid bat                      | 12 males   |
| <i>Choeronycteris mexicana</i> , Mexican long-tongued bat   | 3 females (2p, 1nr)                                  |
| <i>Corynorhinus townsendii</i> , Rafinesque's big-eared bat | 4 (1 male, 3 females (2p, 1nr))                      |
| <i>Eptesicus fuscus</i> , big brown bat                     | 14 males   |
| <i>Lasionycteris noctivagans</i> , silver-haired bat        | 5 males  |
| <i>Lasiurus cinereus</i> , hoary bat                        | 2 males  |
| <i>Myotis auriculus</i> , southwestern myotis               | 19 (8 males, 11 females (nr))                        |
| <i>Myotis californicus</i> , California myotis              | 43 (20 males, 15 females (1p, 1l, 13 nr), 8 unknown) |
| <i>Myotis ciliolabrum</i> , western small-footed bat        | 6 males  |
| <i>Myotis thysanodes</i> , fringed myotis                   | 8 (3 males, 5 females (nr))                          |
| <i>Myotis velifer</i> , cave myotis                         | 7 males  |
| <i>Myotis volans</i> , long-legged myotis                   | 17 (11 males, 6 females (nr))                        |
| <i>Pipistrellus hesperus</i> , western pipistrelle          | 4 (3 males, 1 female (nr))                           |
| <i>Tadarida brasiliensis</i> , Mexican free-tailed bat      | 4 males  |
| <b>Total species</b>  | <b>= 14</b>  |
| <b>Total individuals</b>                                    | <b>= 148</b>   |

**BAT CONSERVATION AND MANAGEMENT WORKSHOP – SESSION I**

Day 01: 30 May 1999 – 19:30-22:00  
Weather: Start Temp: 71°F; End Temp: 60°F – High thin clouds, clearing with slight breeze.  
Location **K**: Creek locations near the downstream end of John Hands Campground along the road to Herb Martyr  
GIS Coord: 31° 50' 15" 109° 09' 44"  
Site#1: One Large Austbat Harp Trap suspended over stream between rocky cliffs near spillway

Total species = 0  
Total individuals = 0

Site #2: One 18-foot mist net over a 3' wide x 9' long pool in stream with 12' wide x 20' long swoop zone

|  |        |
|--|--------|
| <i>Antrozous pallidus</i> , pallid bat | 1 male |
| <i>Lasiurus cinereus</i> , hoary bat   | 1 male |
| Total species                          | = 2    |
| Total individuals                      | = 2    |

Site #3: One 18-foot mist net over an 8' wide x 25' long pool in stream just downstream from Site#1

|                                      |        |
|--------------------------------------|--------|
| <i>Lasiurus cinereus</i> , hoary bat | 1 male |
| Total species                        | = 1    |
| Total individuals                    | = 1    |

Site #4: One 18-foot mist net over a 10' wide x 30' long pool in stream set at a bend in the stream between a 20' high bank and overhanging sycamore vegetation

|   |                |
|---|----------------|
| <i>Antrozous pallidus</i> , pallid bat    | 2 males        |
| <i>Eptesicus fuscus</i> , big brown bat   | 1 female (nr)  |
| <i>Lasiurus cinereus</i> , hoary bat      | 1 male         |
| <i>Myotis volans</i> , long-legged myotis | 2 females (nr) |
| Total species                             | = 4            |
| Total individuals                         | = 6            |

Day 02: 31 May 1999 – 19:30-22:30  
Weather: Start Temp: 72°F End Temp: 58°F – High thin clouds, clearing with slight intermittent breeze.  
Location **F**: Creek side locations downstream from Stewart Bridge  
GIS Coord: 31° 53' 24.1" N – 109° 10' 3.9" W  
Site #1: One 18-foot mist net over pool in stream

|  |               |
|--|---------------|
| <i>Eptesicus fuscus</i> , big brown bat        | 1 female (nr) |
| <i>Myotis sp.</i> , unknown                    | 5 males       |
| <i>Myotis auriculus</i> , southwestern myotis  | 1 male        |
| <i>Myotis californicus</i> , California myotis | 2 males       |
| <i>Myotis volans</i> , long-legged myotis      | 1 female (nr) |
| Total species                                  | = 4           |
| Total individuals                              | = 10          |

Site #2: One 30-foot mist net between vegetation and large saddle-shaped boulder over 6' wide x 20' long deep still pool in stream

|   |              |
|---|--------------|
| <i>Choeronycteris mexicana</i> , Mexican long-tongued bat | 1 female (p) |
| <i>Eptesicus fuscus</i> , big brown bat                   | 2 males      |
| <i>Leptonycteris curasoae</i> , lesser long-nosed bat     | 1 male       |
| <i>Myotis auriculus</i> , southwestern myotis             | 3 males      |
| <i>Myotis volans</i> , long-legged myotis                 | 1 male       |
| <i>Pipistrellus hesperus</i> , western pipistrelle        | 1 male       |
| Total species   | = 6          |
| Total individuals   | = 9          |

Site #3: One 18-foot mist net over quiet pool in stream

|   |                           |
|---|---------------------------|
| <i>Eptesicus fuscus</i> , big brown bat                 | 4 males                   |
| <i>Lasiurus noctivagans</i> , silver-haired bat         | 1 male                    |
| <i>Lasiurus cinereus</i> , hoary bat                    | 3 males                   |
| <i>Myotis auriculus</i> , southwestern myotis           | 2 females (nr)            |
| <i>Myotis californicus</i> , California myotis          | 4 males                   |
| <i>Myotis ciliolabrum</i> , western small-footed myotis | 1 male                    |
| <i>Myotis thysanodes</i> , fringed myotis               | 1 male                    |
| <i>Myotis velifer</i> , cave myotis                     | 2 males                   |
| <i>Myotis volans</i> , long-legged myotis               | 2 (1 male, 1 female (nr)) |
| Total species   | = 9                       |
| Total individuals                                       | = 20                      |

Site #4: One Large Austbat Harp Trap set over dry creek bed near bend in water course

|   |  |
|---|--|
| <i>Antrozous pallidus</i> , pallid bat                  | 3 males  |
| <i>Eptesicus fuscus</i> , big brown bat                 | 2 males  |
| <i>Myotis auriculus</i> , southwestern myotis           | 1 female (nr)                                      |
| <i>Myotis californicus</i> , California myotis          | 8 (5 males, 3 females (nr))                        |
| <i>Myotis ciliolabrum</i> , western small-footed myotis | 1 male   |
| <i>Myotis velifer</i> , cave myotis                     | 4 (3 males, 1 female (nr))                         |
| <i>Myotis volans</i> , long-legged myotis               | 3 females (nr) – 1 with a plain white plastic band |
| Total species   | = 7  |
| Total individuals                                       | = 22   |

Site #5: One 18-foot mist net set over dry creek bed near site #4

|   |         |
|---|---------|
| <i>Eptesicus fuscus</i> , big brown bat | 2 males |
| Total species                           | = 1     |
| Total individuals                       | = 2     |

Site #6: One 30-foot mist net and two 18-foot mist nets set at downstream side of Stewart Bridge with 18-foot nets right up against bridge, covering entire opening and 30-foot net set about 5-feet downstream from the westernmost 18-foot net

|   |                                       |
|---|---------------------------------------|
| <i>Idionycteris phyllotis</i> , Allen's lappet-browed bat | 2 males                               |
| <i>Lasiurus cinereus</i> , hoary bat                      | 1 male                                |
| <i>Leptonycteris curasoae</i> , lesser long-nosed bat     | 1 male                                |
| <i>Myotis auriculus</i> , southwestern myotis             | 1 female (nr)                         |
| <i>Myotis californicus</i> , California myotis            | 2 males                               |
| <i>Myotis ciliolabrum</i> , western small-footed myotis   | 1 male                                |
| <i>Myotis velifer</i> , cave myotis                       | 4 (2 males, 1 female (nr), 1 unknown) |
| <i>Myotis volans</i> , long-legged myotis                 | 8 (6 males, 2 females (nr))           |
| <i>Pipistrellus hesperus</i> , western pipistrelle        | 2 males                               |
| Total species   | = 9                                   |
| Total individuals   | = 22                                  |

Site #7: One 8-foot and one 18-foot mist net set over small pool in stream

|   |                           |
|---|---------------------------|
| <i>Myotis ciliolabrum</i> , western small-footed myotis | 2 (1 male, 1 female (nr)) |
| <i>Myotis thysanodes</i> , fringed myotis               | 1 male                    |
| Total species   | = 2                       |
| Total individuals                                       | = 3                       |

Day 03: 01 June 1999 – 19:30-22:00

Weather: Start Temp: 75°F End Temp: 59°F -- Partly cloudy, slight breeze

Location **B**: South Fork of Cave Creek Canyon

GIS Coord: 31° 52' 21.8" N – 109° 10' 59.3 W

Site #1: One 30-foot and one 18-foot mist net set parallel to each other, 10-feet apart over dry stream  
*Corynorhinus townsendii*, Townsend's big-eared bat 1 male  
*Eptesicus fuscus*, big brown bat 5 males  
*Idionycteris phyllotis*, Allen's lappet-browed bat 1 male  
*Lasiurus cinereus*, hoary bat 1 male  
*Pipistrellus hesperus*, western pipistrelle 1 male  
Total species = 5  
Total individuals = 9

Site #2: One 18-foot net set across dry stream bed, upstream from water crossing in road  
*Antrozous pallidus*, pallid bat 2 males  
*Eptesicus fuscus*, big brown bat 1 male  
*Idionycteris phyllotis*, Allen's lappet-browed bat 1 male  
Total species = 3  
Total individuals = 4

Site #3: One 30-foot net set across dry stream bed, under Arizona cypress branches over-hanging flyway  
*Antrozous pallidus*, pallid bat 1 male  
*Corynorhinus townsendii*, Townsend's big-eared bat 2 (1 male, 1 female (p))  
*Lasiurus cinereus*, hoary bat 1 male  
*Myotis auriculus*, southwestern myotis 1 female (p)  
*Myotis californicus*, California myotis 2 (1 male, 1 unknown)  
*Myotis thysanodes*, fringed myotis 1 male  
*Pipistrellus hesperus*, western pipistrelle 2 males  
*Tadarida brasiliensis*, Mexican free-tailed bat 1 male  
Total species = 8  
Total individuals = 11

Site #4: Trip-lines set over water crossing in road  
*Eptesicus fuscus*, big brown bat 16 males  
*Lasiurus noctivagans*, silver-haired bat 2 males  
*Myotis auriculus*, southwestern myotis 1 male  
*Myotis thysanodes*, fringed myotis 1 male  
*Pipistrellus hesperus*, western pipistrelle 6 males  
Total species = 5  
Total individuals = 26

Site #5: One Large Austbat Harp Trap set over water downstream from water crossing under vegetation  
*Antrozous pallidus*, pallid bat 2 males  
*Myotis auriculus*, southwestern myotis 14 (6 males, 8 females (nr))  
*Myotis californicus*, California myotis 13 (11 males, 2 females (nr))  
*Myotis ciliolabrum*, western small-footed myotis 7 (6 males, 1 female (nr))  
*Myotis thysanodes*, fringed myotis 1 male  
*Myotis volans*, long-legged myotis 9 (3 males, 6 females (2p, 4nr))  
*Pipistrellus hesperus*, western pipistrelle 4 males  
Total species = 7  
Total individuals = 50

Day 04: 02 June 1999  
Weather: Start Temp: 66°F End Temp: 61°F – Very gusty winds which finally died down by 9:45pm  
Location *f*: 19:30-22:30 – Cloudt's Cattle Tank (Cess Pool) along road to Paradise  
GIS Coord: 31° 55' 20" 109° 09' 44"

Site #1: Three 42-foot mist nets and one 30-foot mist net set in a huge V-pattern over water  
*Antrozous pallidus*, pallid bat 2 males  
*Corynorhinus townsendii*, Townsend's big-eared bat 1 male  
*Lasiurus xanthinus*, western yellow bat 1 female (nr)  
*Myotis californicus*, California myotis 2 females (nr)  
*Myotis velifer*, cave myotis 1 female (nr)  
*Pipistrellus hesperus*, western pipistrelle 1 male  
*Tadarida brasiliensis*, Mexican free-tailed bat 1 male  
Total species = 7  
Total individuals = 9

Location *J*: 19:30-22:00 – Silver Creek drainage along road to Paradise  
Site #1: One 18-foot mist net over very small pool in otherwise dry streambed with unlimited swoop zone  
*Antrozous pallidus*, pallid bat 1 male

|  |                           |
|--|---------------------------|
| <i>Myotis auriculus</i> , southwestern myotis  | 1 male                    |
| <i>Myotis californicus</i> , California myotis | 2 (1 male, 1 female (nr)) |
| <i>Myotis volans</i> , long-legged myotis      | 1 female (nr)             |
| Total species                                  | = 4                       |
| Total individuals                              | = 5                       |

Site #2: One Large Austbat Harp Trap over dry section of stream between large rock cliff and encroaching juniper vegetation near bend in water course upstream from Site #1

|   |                           |
|---|---------------------------|
| <i>Antrozous pallidus</i> , pallid bat                  | 1 male                    |
| <i>Myotis californicus</i> , California myotis          | 2 (1 male, 1 female (nr)) |
| <i>Myotis ciliolabrum</i> , western small-footed myotis | 1 male                    |
| <i>Myotis volans</i> , long-legged myotis               | 1 male                    |
| Total species   | = 4                       |
| Total individuals                                       | = 5                       |

Site #3: Two 18-foot mist nets set in a V-formation over water-for-wildlife tank downstream from Sites #1 and #2

|  |                             |
|--|-----------------------------|
| <i>Eptesicus fuscus</i> , big brown bat        | 2 males                     |
| <i>Myotis auriculus</i> , southwestern myotis  | 5 (3 males, 2 females (nr)) |
| <i>Myotis californicus</i> , California myotis | 2 (1 male, 1 female (nr))   |
| <i>Myotis thysanodes</i> , fringed myotis      | 1 female (nr)               |
| <i>Myotis volans</i> , long-legged myotis      | 2 males                     |
| Total species                                  | = 5                         |
| Total individuals                              | = 12                        |

Location A: 19:30-24:00 – Swimming Pool at the Southwestern Research Station

GIS Coord: 31° 53' 1.8" 109° 12' 19.6"

Site #1: Two 30-foot and one 42-foot mist nets ringing the pool on three sides and extending across shallow end

|  |                            |
|--|----------------------------|
| <i>Eptesicus fuscus</i> , big brown bat                | 2 males                    |
| <i>Lasiurus noctivagans</i> , silver-haired bat        | 1 male                     |
| <i>Lasiurus cinereus</i> , hoary bat                   | 2 males                    |
| <i>Myotis auriculus</i> , southwestern myotis          | 3 (2 males, 1 female (nr)) |
| <i>Myotis volans</i> , long-legged myotis              | 1 male                     |
| <i>Tadarida brasiliensis</i> , Mexican free-tailed bat | 24 males                   |
| Total species  | = 6                        |
| Total individuals                                      | = 33                       |

### Summary of Capture Results: 30 May thru 02 June, 1999

**1 Eight-foot Mist Nets, 13 Eighteen-foot Mist Nets, 7 Thirty-foot Mist Nets, 4 Forty-two-foot Mist Nets 1 Set of Trip-lines, and 4 Large AustBat Harp Traps  
(90.5 net/trap-hours total)**

|   |  |
|---|--|
| <i>Antrozous pallidus</i> , pallid bat                      | 15 males   |
| <i>Choeronycteris mexicana</i> , Mexican long-tongued bat   | 1 female (p)                                     |
| <i>Corynorhinus townsendii</i> , Rafinesque's big-eared bat | 4 (3 males, 1 female (p))                        |
| <i>Eptesicus fuscus</i> , big brown bat                     | 38 (36 males, 2 females (nr))                    |
| <i>Idionycteris phyllotis</i> , Allen's lappet-browed bat   | 4 males  |
| <i>Lasiurus noctivagans</i> , silver-haired bat             | 4 males  |
| <i>Lasiurus cinereus</i> , hoary bat                        | 11 males   |
| <i>Lasiurus xanthinus</i> , western yellow bat              | 1 female (nr)                                    |
| <i>Leptonycteris curasoae</i> , lesser long-nosed bat       | 2 males  |
| <i>Myotis auriculus</i> , southwestern myotis               | 33 (17 males, 16 females (1p, 15 nr))            |
| <i>Myotis californicus</i> , California myotis              | 39 (28 males, 10 females (nr), 1 unknown)        |
| <i>Myotis ciliolabrum</i> , western small-footed bat        | 13 (11 males, 2 females (nr))                    |
| <i>Myotis thysanodes</i> , fringed myotis                   | 6 (5 males, 1 female (nr))                       |
| <i>Myotis velifer</i> , cave myotis                         | 11 (7 males, 3 females (nr), 1 unknown)          |
| <i>Myotis volans</i> , long-legged myotis                   | 31 (15 males, 16 females (2p, 14 nr))            |
| <i>Pipistrellus hesperus</i> , western pipistrelle          | 17 males   |
| <i>Tadarida brasiliensis</i> , Mexican free-tailed bat      | 26 males   |
| <b>Total species</b>  | <b>= 17</b>                                      |
| <b>Total individuals</b>                                    | <b>= 256 (+5 unidentified <i>Myotis</i> sp.)</b> |

### BAT CONSERVATION AND MANAGEMENT WORKSHOP – SESSION II

Day 01: 04 June 1999 – 19:30-22:00

Weather: Start Temp: 68°F – End Temp: 54°F / Clear skies, breezy.  
 Location E: Cave Creek, about 1/4-mile upstream from Stewart Bridge  
 GIS Coord: 31° 53' 17.9" N 109° 10' 21.6" W  
 Site #1: One 18-foot mist net set over small rocky pool (12' wide x 30' long with virtually unlimited swoop zone) at widest part of stream

|  |               |
|--|---------------|
| <i>Myotis auriculus</i> , southwestern myotis  | 1 female (nr) |
| <i>Myotis californicus</i> , California myotis | 1 male        |
| <i>Myotis volans</i> , long-legged myotis      | 1 female (p)  |
| Total species                                  | = 3           |
| Total individuals                              | = 3           |

Site #2: One Large Austbat Harp Trap downstream from site #1 over stream but no real pool where stream narrows and curves

|   |   |
|---|---|
| <i>Myotis auriculus</i> , southwestern myotis           | 3 (2 males, 1 female (p))                   |
| <i>Myotis californicus</i> , California myotis          | 30 (16 males, 14 females (3 p, 11nr))       |
| <i>Myotis ciliolabrum</i> , western small-footed myotis | 4 (2 males, 2 females (nr))                 |
| <i>Myotis thysanodes</i> , fringed myotis               | 1 female (p)                                |
| <i>Myotis velifer</i> , cave myotis                     | 4 (3 males, 1 female (nr))                  |
| <i>Myotis volans</i> , long-legged myotis               | 5 (2 males, 2 females (1p, 1nr), 1 unknown) |
| Total species   | = 6   |
| Total individuals                                       | = 47  |

Site #3: One 18-foot mist net set over small pool in stream (4' wide x 10' long) with a 50' long swoop zone

|   |                     |
|---|---------------------|
| <i>Corynorhinus townsendii</i> , Townsend's big eared bat | 2 females (p)       |
| <i>Lasiurus cinereus</i> , hoary bat                      | 1 male              |
| <i>Myotis auriculus</i> , southwestern myotis             | 3 females (2p, 1nr) |
| <i>Myotis thysanodes</i> , fringed myotis                 | 1 male              |
| <i>Myotis volans</i> , long-legged myotis                 | 1 male              |
| <i>Pipistrellus hesperus</i> , western pipistrelle        | 2 males             |
| <i>Tadarida brasiliensis</i> , Mexican free-tailed bat    | 3 males             |
| Total species   | = 7                 |
| Total individuals   | = 13                |

Site #4: One 18-foot mist net set over small pool in stream (5' wide x 20' long) with a swoop zone > 100'

|   |  |
|---|--|
| <i>Antrozous pallidus</i> , pallid bat                    | 1 male   |
| <i>Corynorhinus townsendii</i> , Townsend's big-eared bat | 4 (2 males, 2 unknown)                         |
| <i>Lasiurus cinereus</i> , hoary bat                      | 1 male   |
| <i>Myotis auriculus</i> , southwestern myotis             | 13 (6 males, 6 females (1 p, 5 nr), 1 unknown) |
| <i>Myotis californicus</i> , California myotis            | 4 (3 males, 1 female (nr))                     |
| <i>Myotis ciliolabrum</i> , western small-footed myotis   | 1 male   |
| <i>Myotis thysanodes</i> , fringed myotis                 | 1 male   |
| <i>Myotis velifer</i> , cave myotis                       | 3 (2 males, 1 female (nr))                     |
| <i>Myotis volans</i> , long-legged myotis                 | 2 (1 male, 1 female (nr))                      |
| Total species   | = 9  |
| Total individuals   | = 30   |

Site #5: Two 18-foot mist nets set parallel, approximately 10' apart, over still pool in stream (10' wide x 30' long) with unlimited swoop zone

|   |   |
|---|---|
| <i>Antrozous pallidus</i> , pallid bat                    | 1 male                                  |
| <i>Corynorhinus townsendii</i> , Townsend's big-eared bat | 1 female (p)                            |
| <i>Lasiurus cinereus</i> , hoary bat                      | 1 male                                  |
| <i>Myotis auriculus</i> , southwestern myotis             | 10 (3 males, 5 females (nr), 2 unknown) |
| <i>Myotis californicus</i> , California myotis            | 1 unknown                               |
| <i>Myotis thysanodes</i> , fringed myotis                 | 1 male                                  |
| <i>Myotis velifer</i> , cave myotis                       | 1 male                                  |
| <i>Myotis volans</i> , long-legged myotis                 | 2 females (nr)                          |
| <i>Pipistrellus hesperus</i> , western pipistrelle        | 1 male                                  |
| <i>Tadarida brasiliensis</i> , Mexican free-tailed bat    | 1 female (p)                            |
| Total species   | = 10                                    |
| Total individuals   | = 20                                    |

Day 02: 05 June 1999 – 19:30-22:30  
 Weather: Start Temp: 62°F – End Temp: 55°F / Clear skies, no wind.

Location **F**: Downstream from Stewart Bridge along creek towards Idlewild Campground  
GIS Coord: 31° 53' 34.0" N - 109° 10' 01.7" W  
Site #1: One Large Austbat Harp Trap set over stream where vegetation forms a tunnel

|   |                                   |
|---|-----------------------------------|
| <i>Lasionycteris noctivagans</i> , silver-haired bat    | 1 male                            |
| <i>Lasiurus blossevillii</i> , western red bat          | 1 female (p)                      |
| <i>Myotis auriculus</i> , southwestern myotis           | 8 (3 males, 5 females (3p, 2 nr)) |
| <i>Myotis californicus</i> , California myotis          | 6 (4 males, 2 females (nr))       |
| <i>Myotis ciliolabrum</i> , western small-footed myotis | 2 (1 male, 1 female (nr))         |
| <i>Myotis velifer</i> , cave myotis                     | 2 (1 male, 1 unknown)             |
| <i>Myotis volans</i> , long-legged myotis               | 5 (1 male, 4 females (2 p, 2nr))  |
| Total species   | = 7                               |
| Total individuals                                       | = 25                              |

Site #2: One 18-foot mist net set over 8' wide x 30' long pool in stream with a 10' wide x 50' long swoop zone

|   |                             |
|---|-----------------------------|
| <i>Eptesicus fuscus</i> , big brown bat                 | 3 males                     |
| <i>Lasionycteris noctivagans</i> , silver-haired bat    | 2 males                     |
| <i>Lasiurus blossevillii</i> , western red bat          | 1 female (nr)               |
| <i>Myotis auriculus</i> , southwestern myotis           | 5 (3 males, 2 females (nr)) |
| <i>Myotis californicus</i> , California myotis          | 6 (5 males, 1 female (nr))  |
| <i>Myotis ciliolabrum</i> , western small-footed myotis | 1 male                      |
| <i>Myotis thysanodes</i> , fringed myotis               | 2 (1 male, 1 female (nr))   |
| <i>Myotis velifer</i> , cave myotis                     | 1 male                      |
| <i>Myotis volans</i> , long-legged myotis               | 3 males                     |
| <i>Pipistrellus hesperus</i> , western pipistrelle      | 1 male                      |
| <i>Tadarida brasiliensis</i> , Mexican free-tailed bat  | 1 female (nr)               |
| Total species   | = 11                        |
| Total individuals                                       | = 26                        |

Site #3: Two 18-foot and one 30-foot mist nets set against the downstream side of Stewart Bridge with the 18-foot nets completely covering the bridge opening and the 30-foot net set parallel to the others approximately 6-feet down stream. No water under nets or bridge

|  |               |
|--|---------------|
| <i>Antrozous pallidus</i> , pallid bat             | 1 male        |
| <i>Eptesicus fuscus</i> , big brown bat            | 1 male        |
| <i>Lasiurus xanthinus</i> , western yellow bat     | 1 female (nr) |
| <i>Myotis californicus</i> , California myotis     | 3 males       |
| <i>Myotis velifer</i> , cave myotis                | 1 male        |
| <i>Myotis volans</i> , long-legged myotis          | 1 female (p)  |
| <i>Pipistrellus hesperus</i> , western pipistrelle | 1 male        |
| Total species                                      | = 7           |
| Total individuals                                  | = 9           |

Day 03: 06 June 1999/19:30 – 22:30 (Bats were seen flying at 19:05, well before nets were up)

Weather: Start Temp: 69°F – End Temp: 62°F / Clear skies, no wind.

Location **H**: Portal Preserve

GIS Coord: 31° 54' 30.6" N - 109° 09' 22.1" W

Site#1: One 18-foot net over deep pool (about 15' in diameter) downstream from Spofford's

|   |   |
|---|---|
| <i>Antrozous pallidus</i> , pallid bat                    | 1 male                                  |
| <i>Eptesicus fuscus</i> , big brown bat                   | 20 (18 males, 1 female (nr), 1 unknown) |
| <i>Idionycteris phyllotis</i> , Allen's lappet-browed bat | 1 male                                  |
| <i>Lasionycteris noctivagans</i> , silver-haired bat      | 1 male                                  |
| <i>Lasiurus blossevillii</i> , western red bat            | 1 male                                  |
| <i>Myotis auriculus</i> , southwestern myotis             | 2 (1 male, 1 unknown)                   |
| <i>Myotis californicus</i> , California myotis            | 5 (4 males, 1 female (nr))              |
| <i>Myotis ciliolabrum</i> , western small-footed myotis   | 1 male                                  |
| <i>Myotis thysanodes</i> , fringed myotis                 | 4 (3 males, 1 female (nr))              |
| <i>Myotis velifer</i> , cave myotis                       | 3 (1 male, 2 females (nr))              |
| <i>Myotis volans</i> , long-legged myotis                 | 3 (1 male, 2 females (nr))              |
| <i>Pipistrellus hesperus</i> , western pipistrelle        | 2 males                                 |
| Total Species   | = 12                                    |
| Total Individuals   | = 44                                    |

Site #2: Two 18-foot nets and one 30-foot net covering long shallow pool (about 10' x 30') in stream and dry creek bed downstream from Site#1

|   |   |
|---|---|
| <i>Antrozous pallidus</i> , pallid bat                    | 1 male                                  |
| <i>Eptesicus fuscus</i> , big brown bat                   | 21 (18 males, 1 female (nr), 2 unknown) |
| <i>Idionycteris phyllotis</i> , Allen's lappet-browed bat | 1 unknown                               |
| <i>Lasionycteris noctivagans</i> , silver-haired bat      | 1 male                                  |
| <i>Lasiurus xanthinus</i> , yellow bat                    | 1 female (nr)                           |
| <i>Myotis auriculus</i> , southwestern myotis             | 2 (1 male, 1 female (nr))               |
| <i>Myotis californicus</i> , California myotis            | 2 (1 male, 1 unknown)                   |
| <i>Myotis thysanodes</i> , fringed myotis                 | 6 (2 males, 4 females (nr))             |
| <i>Myotis volans</i> , long-legged myotis                 | 5 (4 males, 1 female (p))               |

Total Species = 9

Total Individuals = 40

Site #3: Large Aust Bat Harp Trap set at end of long shallow pool (about 6' x 50') under vegetation.

|   |  |
|---|--|
| <i>Antrozous pallidus</i> , pallid bat                  | 3 males                                      |
| <i>Eptesicus fuscus</i> , big brown bat                 | 61 (57 males, 3 females (2p, 1f), 1 unknown) |
| <i>Lasiurus blossevillii</i> , western red bat          | 5 (3 males, 2 females (1p, 1nr))             |
| <i>Myotis auriculus</i> , southwestern myotis           | 9 (3 males, 6 females (3p, 3nr))             |
| <i>Myotis californicus</i> , California myotis          | 37 (25 males, 12 females (3p, 9nr))          |
| <i>Myotis ciliolabrum</i> , western small-footed myotis | 1 male                                       |
| <i>Myotis thysanodes</i> , fringed myotis               | 8 (4 males, 4 females (1p, 3nr))             |
| <i>Myotis velifer</i> , cave myotis                     | 9 (8 males, 1 female (nr))                   |
| <i>Myotis volans</i> , long-legged myotis               | 12 (9 males, 3 females (2p, 1nr))            |
| <i>Pipistrellus hesperus</i> , western pipistrelle      | 2 males                                      |

Total Species = 10

Total Individuals = 147

Day 04: 07 June 1999 – 19:30-22:00

Weather: Start Temp: 70°F – End Temp: 60°F / Clear skies, no wind.

Location J: Silver Creek Drainage near new "water-for-wildlife" tank.

GIS Coord: 31° 55' 54.9" N – 109° 0' 5.1" W

Site #1: Two 18-foot nets set in a V-formation over shallow pool in stream with unlimited swoop zone

|   |                                  |
|---|----------------------------------|
| <i>Antrozous pallidus</i> , pallid bat                    | 2 males                          |
| <i>Corynorhinus townsendii</i> , Townsend's big-eared bat | 1 female (nr)                    |
| <i>Lasiurus cinereus</i> , hoary bat                      | 1 male                           |
| <i>Myotis auriculus</i> , southwestern myotis             | 2 (1 male, 1 female (nr))        |
| <i>Myotis californicus</i> , California myotis            | 5 (2 males, 3 females (1p, 2nr)) |
| <i>Myotis ciliolabrum</i> , western small-footed myotis   | 1 female (nr)                    |
| <i>Myotis thysanodes</i> , fringed myotis                 | 4 (3 males, 1 female (nr))       |
| <i>Myotis volans</i> , long-legged myotis                 | 1 female (p)                     |

Total species = 8

Total individuals = 17

Site #2: Two 18-foot mist nets set over water-for-wildlife tank downstream from Site #1

|   |                                 |
|---|---------------------------------|
| <i>Eptesicus fuscus</i> , big brown bat                 | 2 (1 male, 1 female (p))        |
| <i>Myotis auriculus</i> , southwestern myotis           | 1 female (p)                    |
| <i>Myotis californicus</i> , California myotis          | 3 (1 male, 2 females (1p, 1nr)) |
| <i>Myotis ciliolabrum</i> , western small-footed myotis | 1 female (nr)                   |
| <i>Myotis thysanodes</i> , fringed myotis               | 3 males                         |
| <i>Myotis velifer</i> , cave myotis                     | 1 male                          |
| <i>Myotis volans</i> , long-legged myotis               | 3 (2 females (nr), 1 unknown)   |
| <i>Pipistrellus hesperus</i> , western pipistrelle      | 3 (2 males, 1 female (p))       |

Total species = 8

Total individuals = 17

Site #3: One Large Austbat Harp Trap set in stream between rock wall and overhanging vegetation

|   |                                    |
|---|------------------------------------|
| <i>Antrozous pallidus</i> , pallid bat                    | 1 male                             |
| <i>Choeronycteris mexicana</i> , Mexican long-tongued bat | 1 female (p)                       |
| <i>Myotis auriculus</i> , southwestern myotis             | 1 female (nr)                      |
| <i>Myotis californicus</i> , California myotis            | 10 (6 males, 4 females (1p, 3 nr)) |
| <i>Myotis ciliolabrum</i> , western small-footed myotis   | 7 (1 male, 6 females (1p, 5nr))    |
| <i>Myotis volans</i> , long-legged myotis                 | 1 female (nr)                      |

Total species = 6

Total individuals = 21

**Summary of Capture Results: 04 June thru 07 June, 1999**  
**13 Eighteen-foot Mist Nets, 4 Thirty-foot Mist Nets, and 4 Large AustBat Harp Traps**  
**(57.5 net/trap–hours total)**

|   |  |
|---|--|
| <i>Antrozous pallidus</i> , pallid bat                      | 11 males   |
| <i>Choeronycteris mexicana</i> , Mexican long-tongued bat   | 1 female (p)   |
| <i>Corynorhinus townsendii</i> , Rafinesque's big-eared bat | 8 (2 males, 4 females (3p, 1 nr), 2 unknowns)        |
| <i>Eptesicus fuscus</i> , big brown bat                     | 108 (98 males, 6 females (3 p, 1l, 2nr), 4 unknowns) |
| <i>Idionycteris phyllotis</i> , Allen's lappet-browed bat   | 2 (1 male, 1 unknown)                                |
| <i>Lasionycteris noctivagans</i> , silver-haired bat        | 5 males  |
| <i>Lasiurus blossevillii</i> , western red bat              | 8 (4 males, 4 females (2p, 2nr))                     |
| <i>Lasiurus cinereus</i> , hoary bat                        | 4 males  |
| <i>Lasiurus xanthinus</i> , western yellow bat              | 2 females (nr)                                       |
| <i>Myotis auriculus</i> , southwestern myotis               | 60 (23 males, 33 females (11p, 22 nr), 4 unknowns)   |
| <i>Myotis californicus</i> , California myotis              | 113 (71 males, 40 females (9p, 31 nr), 2 unknowns)   |
| <i>Myotis ciliolabrum</i> , western small-footed bat        | 19 (8 males, 11 females (1p, 10nr))                  |
| <i>Myotis thysanodes</i> , fringed myotis                   | 31 (19 males, 12 females (2p, 10nr))                 |
| <i>Myotis velifer</i> , cave myotis                         | 25 (19 males, 5 females (nr), 1 unknown)             |
| <i>Myotis volans</i> , long-legged myotis                   | 45 (22 males, 21 females (9p, 12 nr), 2 unknowns)    |
| <i>Pipistrellus hesperus</i> , western pipistrelle          | 12 (11 males, 1 female (p))                          |
| <i>Tadarida brasiliensis</i> , Mexican free-tailed bat      | 5 (3 males, 2 females (1p, 1nr))                     |
| <b>Total species</b>  | <b>= 17</b>  |
| <b>Total individuals</b>                                    | <b>= 459</b>   |

**Summary of All Capture Results: 25 May thru 07 June, 1999**  
**1 Eight-foot Mist Nets, 33 Eighteen-foot Mist Nets, 13 Thirty-foot Mist Nets, 4 Forty-two-foot Mist**  
**Nets, 1 Set of Trip-lines, and 16 Large AustBat Harp Traps**  
**(172 net/trap–hours total)**

|   |  |
|---|--|
| <i>Antrozous pallidus</i> , pallid bat                      | 38 males   |
| <i>Choeronycteris mexicana</i> , Mexican long-tongued bat   | 5 females (4p, 1nr)                                      |
| <i>Corynorhinus townsendii</i> , Rafinesque's big-eared bat | 16 (6 males, 8 females (6p, 2nr), 2 unknown)             |
| <i>Eptesicus fuscus</i> , big brown bat                     | 160 (148 males, 8 females (3 p, 1l, 4nr), 4 unknowns)    |
| <i>Idionycteris phyllotis</i> , Allen's lappet-browed bat   | 6 (5 males, 1 unknown)                                   |
| <i>Lasionycteris noctivagans</i> , silver-haired bat        | 14 males   |
| <i>Lasiurus blossevillii</i> , western red bat              | 8 (4 males, 4 females (2p, 2nr))                         |
| <i>Lasiurus cinereus</i> , hoary bat                        | 17 males   |
| <i>Lasiurus xanthinus</i> , western yellow bat              | 3 females (nr)   |
| <i>Leptonycteris curasoae</i> , lesser long-nosed bat       | 2 males  |
| <i>Myotis auriculus</i> , southwestern myotis               | 112 (48 males, 60 females (12 p, 48 nr), 4 unknowns)     |
| <i>Myotis californicus</i> , California myotis              | 195 (119 males, 65 females (10p, 1l, 54nr), 11 unknowns) |
| <i>Myotis ciliolabrum</i> , western small-footed bat        | 38 (25 males, 13 females (1p, 12 nr))                    |
| <i>Myotis thysanodes</i> , fringed myotis                   | 45 (27 males, 18 females (2p, 16 nr))                    |
| <i>Myotis velifer</i> , cave myotis                         | 43 (33 males, 8 females (nr), 2 unknown)                 |
| <i>Myotis volans</i> , long-legged myotis                   | 93 (48 males, 43 females (11p, 32nr), 2 unknowns)        |
| <i>Pipistrellus hesperus</i> , western pipistrelle          | 33 (31 males, 2 females (1p, 1nr))                       |
| <i>Tadarida brasiliensis</i> , Mexican free-tailed bat      | 35 (33 males, 2 females (1p, 1nr))                       |
| <b>Total species</b>  | <b>= 18</b>  |
| <b>Total individuals</b>                                    | <b>= 863</b>   |