

# BCI BAT CONSERVATION AND MANAGEMENT WORKSHOP

20-29 July 2008 – Tulelake CA

## Capture Report

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### Session I Bat Conservation and Management Workshop

Day 1: 20 July 2008

Location 1: Lava Beds National Monument, Skull Ice Cave. Start Time: 2045; End Time: 2345. Start Temp: 77.5°F; End Temp: 74°F.

GPS: 41° 43'52.5"; 121° 30'38.13" Elevation: 4567 ft.

Site 1: One 3H 9-meter mist net and one large harp trap set right in cave entrance at drip-line.

<i>Antrozous pallidus</i> , pallid bat	4 (3 males (a, s), 1 unknown)
<i>Eptesicus fuscus</i> , big brown bat	11 (2 females (a, nr), 5 males (5a (3nr, 2s), 4 unknown)
<i>Myotis californicus</i> , California myotis	1 a, nr
<i>Myotis lucifugus</i> , little brown myotis	10 (3 females (a, nr), 6 males (a, nr), 1 unknown)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	1 unknown
Total species	5
Total individuals	27

Site 2: One single high 60-foot mist net set at ground level above entrance in juniper scrub habitat

<i>Lasiurus cinereus</i> , hoary bat	1 male (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat	1 male (a, nr)
<i>Myotis californicus</i> , California myotis	1 male (a, nr)
Total species	3
Total individuals	3

Location 2: Lava Beds National Monument, Merrill and Bear Paw Caves. Start Time: 2100; End Time: 2400. Start Temp: 77.5°F; End Temp: 74°F.

GPS: 41° 43'27"; 121° 33'19" Elevation: 4905 ft.

Site 1: Merrill Cave entrance, north of road between Merrill and Bear Paw. One 2.6-meter net set in front of cave entrance and one 6-meter mist net set above entrance.

<i>Antrozous pallidus</i> , pallid bat	1 male (a,s)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	3 females (1a, l; 2sa, nr)
<i>Myotis californicus</i> , California myotis	3 (1 female (a, nr); 2 males (a; 1nr, 1s))
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 male (a,s)
<i>Myotis evotis</i> , long-eared myotis	1 female (a, nr)
<i>Myotis lucifugus</i> , little brown myotis	1 male (a, nr)
Total species	6
Total individuals	10

Site 2: Merrill Cave entrance, main tourist entrance. One 6-meter mist net set in front of entrance across from stairs to main tourist entrance.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	2 (female (1a, nr; 1sa, nr))
Total species	1
Total individuals	2

Site 3: Merrill Cave entrance, main tourist entrance. One large harp trap set about 10-meters in front of gate at entrance.

<i>Eptesicus fuscus</i> , big brown bat	1 male (a,s)
<i>Myotis californicus</i> , California myotis	10 males (9a (8nr, 1s), 1sa (nr))
<i>Myotis ciliolabrum</i> , western small-footed myotis	3 males (a, nr)
<i>Myotis evotis</i> , long-eared myotis	2 females (a, l)
<i>Myotis lucifugus</i> , little brown myotis	2 (1 female (j, nr), 1 male (a, s))
<i>Myotis unknown</i> , unknown myotis	1 unknown
Total species	5
Total individuals	19

Site 4: Bear Paw Cave entrance, just south of road between Merrill and Bear Paw. One 3H

<i>Antrozous pallidus</i> , pallid bat	1 unknown
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	1 male (a, nr)
<i>Eptesicus fuscus</i> , big brown bat	2 males (1a, nr; 1a, s)
<i>Myotis californicus</i> , California myotis	2 males (1 a, nr; 1a, s)

<i>Myotis evotis</i> , long-eared myotis	2 males (a, nr)
<i>Myotis volans</i> , long-legged myotis	2 males (a, nr)
Total species	6
Total individuals	10
<b>Grand Total Species</b>	<b>11</b>
<b>Grand Total Individuals</b>	<b>71</b>

Day 2: 21 July 2008

Location 1: Lava Beds National Monument, Heppe Ice Cave.

GPS: 41° 41' 43"; 121° 33' 19" Elevation: 5292 ft.

Site 1 Ridge above large entrance, one 3H-42' net set between juniper trees. Start Time: 2100, End Time: 2330. Start Temp: 67.1°F, End Temp: 66.2°F.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	1 male (a, s)
<i>Eptesicus fuscus</i> , big brown bat	8 (1 female (a, nr), 7 males (a, nr))
<i>Myotis evotis</i> , long-eared myotis	1 male (a, nr)
Total species	3
Total individuals	10

Site 2: Ridge above large entrance, one large harp trap set between trees over trail. Start Time: 2100, End Time: 2330. Start Temp: 67.1°F, End Temp: 66.2°F.

<i>Myotis evotis</i> , long-eared myotis	2 unknown
Total species	1
Total individuals	2

Site 3: Small Entrance, one 18' net set in entrance at drip-line. Start Time: 2030, End Time: 2400. Start Temp: 70.5°F, End Temp: 62°F.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	1 male (a, s)
<i>Eptesicus fuscus</i> , big brown bat	10 (1 female (sa, nr), 8 males (7a (2nr, 5s), 1 sa, nr), 1 unk)
<i>Myotis californicus</i> , California myotis	1 male (a, nr)
<i>Myotis ciliolabrum</i> , western small-footed myotis	2 (1 female (a, nr), 1 male (a, nr))
<i>Myotis evotis</i> , long-eared myotis	6 (1 female (a, nr), 5 males (a; 3nr, 2s))
<i>Myotis lucifugus</i> , little brown myotis	3 males, a (3nr, 2s)
<i>Myotis volans</i> , long-legged myotis	9 (1 female (a, nr), 8 males (6a (2nr, 4s), 2 sa, nr))
Total species	7
Total individuals	32

Site 4: One 18-foot net set along edge of ice pool at bottom of cave. Start Time: 2030, End Time: 2400. Start Temp: 70.5°F, End Temp: 62°F.

<i>Eptesicus fuscus</i> , big brown bat	3 males, adult (2nr, 1s)
<i>Myotis volans</i> , long-legged myotis	2 male, a, nr
Total species	2
Total individuals	5

Site 5: Large Entrance, one 41' net and one 3H-42' net set end-to-end in entrance. Start Time 2100, End Time: 2400. Start Temp: 65.3°F, End Temp: 59.1°F.

<i>Eptesicus fuscus</i> , big brown bat	19 (1 female (a, nr), 18 males, adult (6nr, 2s, 10td))
<i>Myotis californicus</i> , California myotis	1 male, adult (td)
<i>Myotis evotis</i> , long-eared myotis	7 (4 females, adult (2l, 1nr, 1pl), 3 males, adult (1nr, 2td))
<i>Myotis lucifugus</i> , little brown myotis	3 (1 female, adult (nr), 2 males, adult (1nr, 1s))
Total species	4
Total individuals	30
<b>Grand Total species</b>	<b>7</b>
<b>Grand Total individuals</b>	<b>79</b>

Day 3: 22 July 2008

Location 1: Modoc National Forest, Payne Springs, dry meadow. Start Time: 2030; End Time: 2330. Start Temp: 62.6°F, End Temp: 48°F.

GPS: 41° 33' 9.2"; 121° 33' 51.4" Elevation: 7390 ft.

Site 1: Two large harp traps set side-by-side at then end of the meadow between vegetation.

<i>Myotis evotis</i> , long-eared myotis	1 male (a,nr)
Total species	1
Total individuals	1

Site 2: One 3H, 30-foot mist net set over forest road between vegetation.

<i>Eptesicus fuscus</i> , big brown bat	4 males, adult (1nr, 2s, 1td)
<i>Lasionycteris noctivagans</i> , silver-haired bat	1 male (a, nr)
<i>Myotis evotis</i> , long-eared myotis	1 female (a, pl)
<i>Myotis lucifugus</i> , little brown myotis	2 males, adult (1s, 1td)
Total species	4
Total individuals	8

Site 3: One 3H, 42-foot mist net set over dry meadow between vegetation.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	3 females, adult (1l, 2pl)
<i>Eptesicus fuscus</i> , big brown bat	1 male (a,nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat	1 female (a,nr)
<i>Myotis unknown</i> , unknown myotis	1 unknown
<i>Myotis evotis</i> , long-eared myotis	1 male (a,s)
Total species	5
Total individuals	7

Location 2: Modoc National Forest, Payne Springs, wet meadow just off road. Start Time: 2100, End Time: 2430.  
Start Temp: 59.9°F, End Temp: 52.7°F.

Site 1: One 18-foot mist net, one 30-foot mist net, and two 42-foot mist nets set in a box configuration over large pool in wet meadow.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	2 females (a, l)
<i>Eptesicus fuscus</i> , big brown bat	5 males, adult (1nr, 4s)
<i>Lasionycteris noctivagans</i> , silver-haired bat	10 males, adult (2nr, 4s, 4td)
<i>Myotis californicus</i> , California myotis	1 male (a, nr)
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 male (a, nr)
<i>Myotis evotis</i> , long-eared myotis	5 males, adult (3nr, 2s)
<i>Myotis lucifugus</i> , little brown myotis	2 males (a, nr)
<i>Myotis volans</i> , long-legged myotis	4 (1 female (a, nr), 3 males (a, nr))
Total species	8
Total individuals	30

Site 2: Two 30-foot mist nets and one 42-foot mist net set over small pool in wet meadow.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	1 female (a,l)
<i>Lasionycteris noctivagans</i> , silver-haired bat	3 males
<i>Myotis evotis</i> , long-eared myotis	1 male (a, s)
<i>Myotis volans</i> , long-legged myotis	4 (1 female (a,nr), 3 males (2a,nr; 1sa,nr))
Total species	4
Total individuals	9
<b>Grand total species</b>	<b>8</b>
<b>Grand Total Individuals</b>	<b>55</b>

Day 4: 23 July 2008

Location 1: Lava Beds National Monument, Cave Loop Road

GPS: 41 42'10.3" 121 31'09.6" Elevation: 5069 ft.

Site 1: Sunshine Cave, one 8-foot mist net set in entrance. Start Time: 2045, End Time: 2130. Start Temp: 65.3°F, End Temp: 58°F.

<i>Corynorhinus townsendii</i> , Townsend's big eared bat	1 male, adult (s)
<i>Eptesicus fuscus</i> , big brown bat	2 males (1 sa, s; 2 a, s)
<i>Myotis evotis</i> , long-eared myotis	1 male (a, s)
<i>Myotis lucifugus</i> , little brown myotis	1 male (a, s)
Total species	4
Total individuals	5

Site 2: Natural Bridge Cave, one 3H 30-foot mist net set in entrance plus one 42 foot net set in juniper scrub above entrance. Start Time: 2045, End Time: 2130. Start Temp: 68°F, End Temp: 58°F.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	6 females, adult (1nr, 5pl)
<i>Eptesicus fuscus</i> , big brown bat	1 unknown
<i>Myotis unknown</i> , unknown myotis	1 female (a,nr)
Total species	3
Total individuals	8

Site 3: Natural Bridge Cave, one 2H 30-foot mist net plus one 8-foot mist net set in entrance. Start Time: 2045, End Time: 2145. Start Temp: 80°F, End Temp: 72°F.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	3 females, adult (2nr, 1pl)
Total species	1
Total individuals	3

Site 4: Natural Bridge Cave, one 3H 30-foot mist net set in entrance. Start Time: 2050. End Time: 2150. Start Temp: 69°F, End Temp: 58°F.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	9 (4 females, adult (2nr, 2pl), 5 males, adult (3nr, 2s)
<i>Eptesicus fuscus</i> , big brown bat	3 males, adult (1nr, 2s)
<i>Myotis californicus</i> , California myotis	1 male (a,nr)
Total species	3
Total individuals	14
<b>Grand Total Species</b>	<b>5</b>
<b>Grand Total Individuals</b>	<b>30</b>

### Summary: 20-23 July 2009

Four large harp traps, three 8-foot mist nets, five 18-foot mist nets, five 30-foot mist nets, four 42-foot mist nets, one 60-foot mist net, one 2H 30-foot mist net, one 3H 18-foot mist net, three 3H 30-foot mist nets, and two 3H 42-foot mist nets.

TOTAL: 79.75 net/trap-hours

<i>Antrozous pallidus</i> , pallid bat	6 (4 males (a, s), 2 unknown)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	33 (24 females (21a (5l, 6nr, 10pl), 3sa, nr), 9 m, a (4nr, 5s)
<i>Eptesicus fuscus</i> , big brown bat	70 (5 f (4a, nr; 1sa, nr), 59 m, a (25nr, 21s, 11td), 6 unk)
<i>Lasiurus cinereus</i> , hoary bat	1 male (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat	16 (1 female (a, nr), 15 male (14a (6nr, 4s, 4td), 1sa, nr))
<i>Myotis californicus</i> , California myotis	21 (1 female (a, nr), 20 males (19a (15nr, 3, s 1td), 1sa, nr))
<i>Myotis ciliolabrum</i> , western small-footed myotis	7 (1 female (a, nr), 6 males, adult (5nr, 1s))
<i>Myotis evotis</i> , long-eared myotis	31 (9 f, a (4l, 3nr, 2pl), 20 m, a (11nr, 7s, 2td), 2 unk))
<i>Myotis lucifugus</i> , little brown myotis	25 (5 f (4a, nr; 1sa, nr), 19 m, a (10nr, 8s, 1td), 1 unk))
<i>Myotis volans</i> , long-legged myotis	21 (3 f, a (nr), 18 m (15a, (11nr, 4ss), 3sa, nr)
<i>Myotis</i> unknown, unknown myotis	2 (1 f, a, nr; 1 unk)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	1 unknown
Unknown	1 unknown
<b>Total species</b>	<b>11</b>
<b>Total individuals</b>	<b>235</b>

### Session II Acoustic Monitoring Workshop

Day 1: 25 July 2008

Location 1: Lava Beds National Monument, Skull Cave. Start Time: 2045, End Time: 2415. Start Temp: 66°F, End Temp: 62°F.

GPS: 41° 43'52.5"; 121° 30'38.13" Elevation: 4567 ft.

Site 1: One 3H, 30-toof mist net set in entrance at drip-line

<i>Antrozous pallidus</i> , pallid bat	6 males, adult (1nr, 6s)
<i>Eptesicus fuscus</i> , big brown bat	17 males, adult (11nr, 6s)
<i>Myotis ciliolabrum</i> , western small-footed myotis	4 (1 female (a,nr), 3 males (a,nr))
<i>Myotis lucifugus</i> , little brown myotis	5 (2 females (a,nr), 3 males, adult (2nr, 1s))
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	9 females (1l, 7nr, 1pl)
Total species	5
Total individuals	41

Site 2: One 60-foot mist net set above entrance in juniper scrub.

<i>Antrozous pallidus</i> , pallid bat	1 male, adult (td)
<i>Eptesicus fuscus</i> , big brown bat	3 males, adult (2nr, 1s)
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 male (a,nr)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	4 (3 females, adult (1l, 1nr, 1pl), 1 unknown)
Total species	4
Total individuals	9

Location 2: Lava Beds National Monument, Merrill Ice Cave. Start Time 2100, End Time 2430. Start Temp: 65.4°F, End Temp: 60°F.

GPS: 41° 43' 27"; 121° 33' 19" Elevation: 4905 ft.

Site 1: Two 30-foot mist nets set parallel in entrance under road.

<i>Antrozous pallidus</i> , pallid bat	1 male (a,s)
<i>Eptesicus fuscus</i> , big brown bat	4 (1 female (a,nr), 3 males, adult (1nr, 2s))
<i>Myotis ciliolabrum</i> , western small-footed myotis	4 (1 female (a, nr), 3 males, adult (1nr, 2s))
<i>Myotis lucifugus</i> , little brown myotis	17 (1 female, sub-adult (nr), 16 males, adult (s))
<i>Myotis volans</i> , long-legged myotis	2 males, adult (s)
Total species	5
Total individuals	28

Site 2: One 3H, 42-foot mist net set above second entrance

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	1 male (a.s)
<i>Myotis lucifugus</i> , little brown myotis	3 males (2 adult, s; 1 sa, nr)
Total species	2
Total individuals	4

Site 3: One 18-foot mist net set in entrance across from main tourist entrance.

<i>Eptesicus fuscus</i> , big brown bat	1 male (a,s)
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 male (a,s)
Total species	2
Total individuals	2

Site 4: One large harp trap set in main tourist entrance.

<i>Eptesicus fuscus</i> , big brown bat	1 male (a.s)
<i>Myotis ciliolabrum</i> , western small-footed myotis	2 males, adult (1nr, 1s)
<i>Myotis evotis</i> , long-eared myotis	3 (1 female (a,l), 1 male (a.s), 1 unknown)
<i>Myotis lucifugus</i> , little brown myotis	6 males (a.s)
Total species	4
Total individuals	12

Site 5: One 8-foot mist net set in between junipers along trail to main entrance.

<i>Myotis evotis</i> , long-eared myotis	1 male (a, nr)
Total species	1
Total individuals	1
<b>Grand Total Species</b>	<b>8</b>
<b>Grand Total Individuals</b>	<b>97</b>

Day 2: 26 July 2008

Location 1: Lava Beds National Monument, Heppe Ice Cave

GPS: 41° 41' 43"; 121° 33' 19" Elevation: 5292 ft.

Site 1: One 18-foot mist net and one 3H, 42-foot mist net set in large entrance. Start Time: 2045, End Time: 2345. Start Temp: 74.5°F, End Temp: 61.2°F

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	1 male (a,s)
<i>Eptesicus fuscus</i> , big brown bat	7 (6 males (a,s), 1 unknown)
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 male (a.s)
<i>Myotis evotis</i> , long-eared myotis	3 (1 female (a,nr), 2 males (a,s))
<i>Myotis lucifugus</i> , little brown myotis	1 male (a,nr)
<i>Myotis volans</i> , long-legged myotis	2 (1 female (a,nr), 1 male (a,nr))
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	4 (2 females, adult (1nr, 1p), 2 males (a,nr))
Total species	7
Total individuals	19

Site 2: One 18-foot mist net set in small entrance. Start Time: 2045, End Time: 2345. Start Temp: 77°F, End Temp: 62°F.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	4 males, adult (1nr, 3s)
<i>Eptesicus fuscus</i> , big brown bat	4 males, adult (s)
<i>Myotis californicus</i> , California myotis	2 males, adult (s)
<i>Myotis ciliolabrum</i> , western small-footed myotis	5 males, adult (1nr, 4s)
<i>Myotis evotis</i> , long-eared myotis	4 (2 females (a, nr), 2 males, adult (1nr, 1s))
<i>Myotis lucifugus</i> , little brown myotis	15 (2 females, adult (1l, 1nr), 13 males, adult (1nr, 12s))

<i>Myotis volans</i> , long-legged myotis	4 males, adult (2nr, 2s)
<i>Myotis cilical</i> , cryptic small-footed/California myotis	1 male (a, nr)
Total species	7
Total individuals	39
<b>Grand Total Species</b>	<b>8</b>
<b>Grand Total Individuals</b>	<b>58</b>

Day 3: 27 July 2008

Location 1: Modoc National Forest near Payne Spring off Forest Road .

GPS: 41° 33'9.2"; 121° 33' 51.4" Elevation: 7390 ft.

Site 1: One 3H, 30-foot mist net and one 3H, 42-foot mist net set along forest road near dry meadow. Start Time: 2130, End Time: 2400. Start Temp: 51.9°F, End Temp: 46°F.

<i>Eptesicus fuscus</i> , big brown bat	3 (1 female (a, nr), 2 males (a, nr))
<i>Lasionycteris noctivagans</i> , silver-haired bat	1 male (a, nr)
<i>Myotis evotis</i> , long-eared myotis	2 males (a, nr)
Total species	3
Total individuals	6

Site 2: Two 8-foot mist nets, three 18-foot mist nets and two 30-foot mist nets in a box set around two small pools in the wet meadow near the Undertaker's Camp turn-off. Start Time: 2100, End Time: 2300. Start Temp: 65°F, End Temp: 52°F.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	2 females (a, l)
<i>Eptesicus fuscus</i> , big brown bat	4 males (a, s)
<i>Lasiurus cinereus</i> , hoary bat	1 unknown
<i>Lasionycteris noctivagans</i> , silver-haired bat	13 males (1 nr, 12 s)
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 male (a, s)
<i>Myotis evotis</i> , long-eared myotis	4 males, adult (1nr, 3s)
<i>Myotis volans</i> , long-legged myotis	2 (1 female (a, nr), 1 male (a, nr))
Total species	7
Total individuals	27

Site 3: Two large harp traps set in conjunction with nets at Site 2. Start Time: 2100, End Time: 2300. Start Temp: 65°F, End Temp: 52°F.

<i>Eptesicus fuscus</i> , big brown bat	2 males, adult (s)
<i>Lasionycteris noctivagans</i> , silver-haired bat	1 male (a, s)
<i>Myotis ciliolabrum</i> , western small-footed myotis	2 males (a, s)
<i>Myotis evotis</i> , long-eared myotis	5 males, adult (1nr, 4s)
<i>Myotis lucifugus</i> , little brown myotis	1 male (a, s)
Total species	5
Total individuals	11
<b>Grand Total Species</b>	<b>8</b>
<b>Grand Total Individuals</b>	<b>44</b>

Day 4: 28 July 2008

Location 1: Lava Beds National Monument, Big Ice Cave. Start Time 2100, End Time: 2300. Start Temp: 71.4°F, End Temp: 64.2°F.

Site 1: One 3H, 30-foot mist net and one 3H, 18-foot mist net set parallel over forest road near cave.

GPS: 41° 41'43" 121° 28'42" Elevation: 4632 ft.

<i>Antrozous pallidus</i> , pallid bat	1 male (a, td)
<i>Eptesicus fuscus</i> , big brown bat	2 males, adult (1nr, 1td)
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 male (a, nr)
<i>Myotis evotis</i> , long-eared myotis	5 males, adult (4nr, 1td)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	1 female (a, nr)
Total species	5
Total individuals	10

Location 2: Big Ice Cave. Start Time 2030, End Time: 2300. Start Temp: 71.2°F, End Temp: 67°F.

Site 1: One 18-foot net in main entrance and one 18-foot mist net in secondary entrance; both set right along drip-line.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	6 (3 female (a, l))
<i>Eptesicus fuscus</i> , big brown bat	3 males (a, s)
<i>Myotis ciliolabrum</i> , western small-footed myotis	2 males (a, s)

<i>Myotis evotis</i> , long-eared myotis	8 (3 females, adult (1l, 2nr), 5 males, adult (s))
<i>Myotis lucifugus</i> , little brown myotis	2 males, adult (s)
<i>Myotis thysanodes</i> , fringed myotis	5 (4 females (3l, 1pl), 1 male (a,s))
Total species	6
Total individuals	29

Site 2: Three large harp traps set in twilight zones of each of two entrances, and in upper entrance.

<i>Antrozous pallidus</i> , pallid bat	1 male (a, s)
<i>Eptesicus fuscus</i> , big brown bat	1 male (a, s)
<i>Myotis evotis</i> , long-eared myotis	4 (2 females (a, l), 2 males, adult (1nr, 1s))
<i>Myotis lucifugus</i> , little brown myotis	1 male (a, s)
Total species	4
Total individuals	7
<b>Grand Total Species</b>	<b>9</b>
<b>Grand Total Individuals</b>	<b>46</b>

### Summary: 25-28 July 2008

Six large harp traps, three 8-foot mist nets, eight 18-foot mist nets, four 30-foot mist nets, one 60-foot mist net, three 3H 30-foot mist nets, and four 3H 42-foot mist nets.

TOTAL: 81 net/trap-hours

<i>Antrozous pallidus</i> , pallid bat	10 males, adult (1nr, 7s, 2td)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	14 (5 females (a, l), 8 males, adult (1nr 7s), 1 unknown)
<i>Eptesicus fuscus</i> , big brown bat	52 (2 females (a, nr), 49 males, adult (17nr, 31s, 1td), 1unk)
<i>Lasiurus cinereus</i> , hoary bat	1 unknown
<i>Lasionycteris noctivagans</i> , silver-haired bat	15 males, adult (2nr 13s)
<i>Myotis californicus</i> , California myotis	1 males (a, s)
<i>Myotis ciliolabrum</i> , western small-footed myotis	24 (3 females (a, nr), 21 males, adult (7nr, 14s))
<i>Myotis cili/cal</i> , cryptic California/small-footed myotis	1 male (a, nr)
<i>Myotis evotis</i> , long-eared myotis	39 (9 female, a (4l, 5nr), 29 male, a (11nr, 17s, 1td), 1 unk)
<i>Myotis lucifugus</i> , little brown myotis	51 (5f (4a (1l, 3nr), 1sa, nr), 46m (45a (4 nr, 41s), 1 sa, nr))
<i>Myotis volans</i> , long-legged myotis	13 (2 females (a, nr), 11 males, adult (4nr, 7s))
<i>Myotis thysanodes</i> , fringed myotis	5 (4 females, adult (3l, 1pl), 1 male (a,s))
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	18 (15 female, adult (2l, 10nr, 2pl, 1p), 2 male (a, nr), 1 unk)
<b>Grand Total Species</b>	<b>12</b>
<b>Grand Total individuals</b>	<b>245</b>

### Complete Summary: 20-28 July 2008

Ten large harp traps, six 8-foot mist nets, thirteen 18-foot mist nets, nine 30-foot mist nets, four 42-foot mist nets, two 60-foot mist nets, one 2H 30-foot mist net, one 3H 18-foot mist net, six 3H 30-foot mist nets, and six 3H 42-foot mist nets.

TOTAL: 160.75 net/trap-hours

<i>Antrozous pallidus</i> , pallid bat	16 (14 males, adult (1nr, 11s, 2td), 2 unknown)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	47 (29 f (26a (10l, 6nr, 10pl), 3 sa, nr, 17 m (5nr, 12s), 1 u.)
<i>Eptesicus fuscus</i> , big brown bat	122 (7f (6a, nr; 1 sa, nr), 108m (106a (42nr, 52s, 12 td), 1sa, nr), 7unk)
<i>Lasiurus cinereus</i> , hoary bat	2 (1 male (a,nr), 1 unknown)
<i>Lasionycteris noctivagans</i> , silver-haired bat	31 (1 f (a.nr), 30 m (29a (8nr, 71s, 4td), 1sa, a))
<i>Myotis californicus</i> , California myotis	23 (1 f (a,nr), 22 m (21a (15nr, 5s, 1td), 1sa, nr))
<i>Myotis ciliolabrum</i> , western small-footed myotis	31 (4 f (a,nr), 27m, a (12nr, 15s))
<i>Myotis cili/cal</i> , cryptic California/small-footed myotis	1 male (a, nr)
<i>Myotis evotis</i> , long-eared myotis	70 (18 f, a (8l, 8nr, 2pl), 49 m, a (22nr, 24 s, 3td), 3 unk)
<i>Myotis lucifugus</i> , little brown myotis	76 (10f (8a (1l, 7nr), 2sa (nr), 65m (64a (14 nr, 49s, 1td), 1sa, nr) 1 unk)
<i>Myotis thysanodes</i> , fringed myotis	5 (4f, a (3l, 1pl), 1m (a, s))
<i>Myotis volans</i> , long-legged myotis	34 (5f (a, nr), 29m (26a (15nr, 11s),
<i>Myotis unknown</i> , unknown myotis	2 (1 f (a,nr), 1 unk))
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	19 (15f, a (2l, 10nr, 2pl, 1p), 2m (a.nr), 2unk)
Unknown	1 unk
<b>Total species</b>	<b>12</b>
<b>Total individuals</b>	<b>480</b>

a = adult, sa = sub-adult, f = female, m = male, nr = non-reproductive, p = pregnant, l = lactating, pl = post-lactating, s = scrotal, td = testes descended, unk = unknown

