

1998 BCI Bat Conservation and Management Workshop
Portal, AZ
Summary of Capture Data

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Session I

Day 01: 10 June 1998: 2000 — 2200 (Start Temp: 56.7F, End Temp: 53F)
 Location **G**: Portal, Cave Creek, across from VIC and upstream towards Idlewild Campground.
 GPS Coord: 31° 53' 52.5" N – 109° 09' 44.6" W
 Site #1: One 18-foot net over quiet pool in stream (30'w x 20'l)
Lasionycteris noctivagans, silver-haired bat 1 male
Tadarida brasiliensis, Mexican free-tailed bat 1 female (nr)

Site #2: Two 18-foot mist nets; one over quiet pool in stream (10'w x45'l) under heavy vegetation and one 18-foot net across trail next to stream.
Myotis volans, long-legged myotis 1 male

Site #3: One AustBat Harp trap over ripply section of stream under juniper and between locust trees.
Myotis californicus, California myotis 1 unknown

Site #4: One 18-foot mist net over quiet pool in stream (15'w x 30'l) open above w/a swoop-zone of 50'w x 250'l
Tadarida brasiliensis, Mexican free-tailed bat 13 (4 females (nr) 9 males)

Site #5 One 42-foot mist net over quiet pool in stream (15'w x 20'l) and over dry river bank.
Myotis thysanodes, fringed myotis 1 males
Tadarida brasiliensis, Mexican free-tailed bat 1 males
Grand Total Species = 5
Grand Total Individuals = 19

Day 02: 11 June 1998: 1930 — 2200 (Start Temp: 68F; End Temp: 56F)
 Location **B**: South Fork, Cave Creek, along creek near water over road.
 GPS Coord: 31° 52' 21.8" N – 109° 10' 59.3" W
 Site #1: One 18-foot mist net over quiet pool (6'w x 10'l; swoop same) under over-hanging vegetation
Eptesicus fuscus, big brown bat 1 male
Myotis auriculus, southwestern myotis 1 unknown
Myotis thysanodes, fringed myotis 1 male

Site #2: One 18-foot mist net over quiet pool (5'w x 10'l) just around a bend in the stream flanked by huge rock on west side (swoop zone approx. 100') and one 8-foot net set with the 18-foot net to make a "V" along the bank; funneling bats into the main net.
Antrozous pallidus, pallid bat 1 male
Eptesicus fuscus, big brown bat 2 males
Myotis californicus, California myotis 1 male
Myotis volans, long-legged myotis 1 male
Pipistrellus hesperus, western pipistrelle 2 males

Site #3: Large AustBat Trap set over stream and under juniper downstream from water over road.
Myotis californicus, California myotis 4 (1 female (nr), 3 males)
Myotis volans, long-legged myotis 1 male

Site #4: One 30-foot and two 18-foot mist nets set within sight of each other, over stream with overhanging vegetation above, up from water over road (no pools, mostly-dry bed; swoop zone 20'w x 100'l)
Antrozous pallidus, pallid bat 1 male
Corynorhinus townsendii, Townsend's big-eared bat 4 females (p)
Eptesicus fuscus, big brown bat 2 (1 female (nr), 1 male)
Myotis auriculus, southwestern myotis 5 (4 females (1nr, 3p), 1 male)
Myotis californicus, California myotis 4 (1 female (p), 3 males)
Myotis thysanodes, fringed myotis 1 males
Myotis volans, long-legged myotis 3 females (1p, 2nr) — one "grey phase"
Pipistrellus hesperus, western pipistrelle 6 males
Grand Total Species = 8
Grand Total Individuals = 42

Day 03: 12 June 1998: 1930 — 2215 (Start Temp: 80F, End Temp: 72F)

Location **D**: Sunny Flats Campground
 GPS Coord: 31° 53' 04.1" N – 109° 10' 42.4" W
 Site #1: Along creek at back end of campground. One 42-foot mist net across 8'w x 30'l pool and dry riverbed with virtually unlimited swoop-zone and minimal overhanging vegetation.

Eptesicus fuscus, big brown bat 1 male

Site #2: Upstream from Cave Creek and South Fork confluence. One large AustBat Harp Trap set beneath juniper between bank and encroaching black locusts.

Antrozous pallidus, pallid bat 1 male
Lasiurus noctivagans, silver-haired bat 1 male
Myotis auriculus, southwestern myotis 5 (4 females (p), 1 unknown)
Myotis californicus, California myotis 3 (2 females (nr), 1 male)

Site #3 Downstream from water over road at campground entrance, across from site #2. One 42-foot mist net over a 6'w x 6'l pool with a 10'w and 30'l swoop-zone under overhanging vegetation.

Antrozous pallidus, pallid bat 1 male
Lasiurus cinereus, hoary bat 2 males
Myotis californicus, California myotis 1 male

Site #4 Upstream from water over road at campground entrance. One 42-foot mist net and one 30-foot mist net set at either end of a 10'w x 20'l pool with a 20'w x 150'l swoop zone under overhanging vegetation.

Eptesicus fuscus, big brown bat 1 male
Idionycteris phyllotis, lappet-browed bat 1 male
Lasiurus cinereus, hoary bat 1 male
Myotis auriculus, southwestern myotis 3 (2 females (nr), 1 male)
Tadarida brasiliensis, Mexican free-tailed bat 3 (2 females (nr), 1 male)
Grand Total Species = 8
Grand Total Individuals = 24

Day 04: 13 June 1998: 1930— 2310 (Start Temp: 70F, End Temp: 55F)

Location **A**: Southwestern Research Station Swimming Pool

GPS Coord: 31° 53' 01.8" N – 109° 12' 19.6" W

Site #1: Two 30-foot mist nets and two 42-foot mist nets set around perimeter of pool and across to form a rectangle flanking the available water. Pool size, 20'w x 75'l (swoop zone 20'w x 120'l).

Lasiurus noctivagans, silver-haired bat 2 males
Lasiurus cinereus, hoary bat 4 (3 males, 1 unknown)
Pipistrellus hesperus, western pipistrelle 4 males
Tadarida brasiliensis, Mexican free-tailed bat 2 (1 female (nr), 1 male)
Grand Total Species = 4
Grand Total Individuals = 12

Location **E**: Cave Creek Canyon, Stewart Campground (1940 — 2200; Start Temp: 77F, End Temp: 62F)

GPS Coord: 31° 53' 24.1" N – 109° 10' 06.9" W

Site #2: One 18-foot mist net and one 42-foot mist net set under Stewart bridge over a 5'w x 5'l section of stream with a 10'w x 100'l swoop zone.

Myotis auriculus, southwestern myotis 4 (2 females (1 nr, 1p), 2 males)
Myotis californicus, California myotis 1 male
Myotis volans, long-legged myotis 2 males
Pipistrellus hesperus, western pipistrelle 4 males
Grand Total Species = 4
Grand Total Individuals = 11

Summary of Capture Results: Session I – June 10 thru 13, 1998

One (1) 8-foot, Eight (8) 18-foot, Four (4) 30-foot, Seven (7) 42-foot Mist Nets, and Three (3) Large Austbat Harp Traps (Total Net/Trap Hours = 60.55)

<i>Antrozous pallidus</i> , pallid bat		4 males
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat		4 females (p)
<i>Eptesicus fuscus</i> , big brown bat		7 (1 female (nr), 6 males)
<i>Idionycteris phyllotis</i> , lappet-browed bat		1 male
<i>Lasionycteris noctivagans</i> , silver-haired bat		4 males
<i>Lasiurus cinereus</i> , hoary bat		7 (6 males, 1 unknown)
<i>Myotis auriculus</i> , southwestern myotis		18 (11 females (4p, 7nr), 5 males, 2 unknown)
<i>Myotis californicus</i> , California myotis		15 (4 females (1p, 3nr), 10 males, 1 unknown)
<i>Myotis thysanodes</i> , fringed myotis		3 males
<i>Myotis volans</i> , long-legged myotis		8 (3 females (1p, 2nr), 5 males)
<i>Pipistrellus hesperus</i> , western pipistrelle		16 males
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat		20 (8 females (nr), 12 males)
Total species	=	12
Total individuals	=	107

Session II

Day 01: 15 June 1998: 1930 — 2215 (Start Temp: 71F, End Temp: 66F)

Location **G**: Cave Creek across from USFS Visitor Information Center and downstream.

GPS Coord: 31° 53' 52.5" N – 109° 09' 44.6" W

Site #1: One 18-foot mist net over 10'w x 30'l pool in stream with a swoop zone of 20'w x 100'l.

<i>Eptesicus fuscus</i> , big brown bat		3 males
<i>Lasiurus cinereus</i> , hoary bat		3 males
<i>Myotis auriculus</i> , southwestern myotis		1 female (p)
<i>Myotis californicus</i> , California myotis		2 (1 female (nr), 1 unknown)
<i>Pipistrellus hesperus</i> , western pipistrelle		1 male
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat		1 unknown

Site #2: One large AustBat Harp Trap down stream from Site #1 above.

<i>Eptesicus fuscus</i> , big brown bat		1 male
<i>Lasionycteris noctivagans</i> , silver-haired bat		1 male
<i>Myotis auriculus</i> , southwestern myotis		2 females (p)
<i>Myotis californicus</i> , California myotis		3 males
<i>Myotis thysanodes</i> , fringed myotis		1 male
<i>Myotis velifer</i> , cave myotis		1 male

Site #3: One 30-foot and one 18-foot mist net over two different pools in stream (about 8'w x 30'l with a 30'w x 100'l swoop zone), down stream from Site #2

<i>Eptesicus fuscus</i> , big brown bat		4 males
<i>Idionycteris phyllotis</i> , lappet-browed bat		1 male
<i>Lasionycteris noctivagans</i> , silver-haired bat		1 male
<i>Lasiurus cinereus</i> , hoary bat		4 males
<i>Myotis californicus</i> , California myotis		1 female (p)
<i>Myotis thysanodes</i> , fringed myotis		2 (1 female (p), 1 male)
<i>Myotis velifer</i> , cave myotis		1 male
<i>Pipistrellus hesperus</i> , western pipistrelle		5 males
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat		1 male

Site #4: Two 18-foot mist nets; one over a 6'w x 10'l pool (6'w x 10'l swoop zone) with tight over-hanging vegetation and one over a 10'w x 25'l pool (10'w x 150'l swoop zone) with vegetation about 12-20 feet overhead.

<i>Eptesicus fuscus</i> , big brown bat		8 males
<i>Lasionycteris noctivagans</i> , silver-haired bat		1 male
<i>Lasiurus cinereus</i> , hoary bat		3 males
<i>Lasiurus xanthinus</i> , desert yellow bat		1 female (nr?)
<i>Myotis auriculus</i> , southwestern myotis		1 female (p)
<i>Myotis thysanodes</i> , fringed myotis		2 (1 female (nr), 1 male)
<i>Pipistrellus hesperus</i> , western pipistrelle		1 male
Grand Total Species	=	11
Grand Total Individuals	=	57

Day 02: 16 June 1998: 1930 — 2200 (Start Temp: 79F, End Temp: 72F)
 Location D: Cave Creek, across from Vista Point access pull-out
 GPS Coord: 31° 53' 08.7" N – 109° 10' 29.4" W
 Site #1: One 18-foot mist net over a 4'w x 8'l pool with a nearly unlimited swoop zone.

<i>Lasiurus cinereus</i> , hoary bat	4 males
<i>Myotis auriculus</i> , southwestern myotis	4 females (p)
<i>Myotis californicus</i> , California myotis	1 male
<i>Myotis thysanodes</i> , fringed myotis	3 (2 females (1p, 1nr), 1 male)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	2 males

Site #2: One 30-foot mist net over a pool in the stream 8'l x 30'w with a similar (8x30) swoop zone.

<i>Idionycteris phyllotis</i> , lappet-browed bat	1 male
<i>Lasiurus cinereus</i> , hoary bat	3 males
<i>Myotis auriculus</i> , southwestern myotis	4 (3 females (p), 1 unknown)
<i>Myotis californicus</i> , California myotis	2 (1 female (p), 1 male)
<i>Myotis thysanodes</i> , fringed myotis	1 male
<i>Myotis volans</i> , long-legged myotis	1 male
<i>Pipistrellus hesperus</i> , western pipistrelle	1 male
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	2 (1 male, 1 unknown)

Site #3: Two 18-foot mist nets set in a "V" over a 10'w x 20'l pool in stream and dry creek bed

<i>Antrozous pallidus</i> , pallid bat	1 male
<i>Myotis auriculus</i> , southwestern myotis	1 female (p)
<i>Pipistrellus hesperus</i> , western pipistrelle	1 male

Site #4: One Austbat Harp Trap over water in stream between encroaching and overhanging vegetation

<i>Myotis californicus</i> , California myotis	1 male
<i>Myotis volans</i> , long-legged myotis	1 female (nr)

Site #5: One 18-foot mist net set over a 6'w x 25'l pool in stream with a swoop zone of 15'w x 75'l

<i>Myotis auriculus</i> , southwestern myotis	1 female (nr)
<i>Pipistrellus hesperus</i> , western pipistrelle	1 male
Grand Total Species	= 9
Grand Total Individuals	= 36

Day 03: 17 June 1998: 1930 — 2230 (Start Temp: 74F, Stop Temp: 63F)
 Location F: Cave Creek at Idlewild Campground both up and down stream from water over road at entrance.
 GPS Coord: 31° 53' 38.3" N – 109° 09' 58.7" W
 Site #1: Two 18-foot mist nets over still pools under overhanging vegetation, one each up stream and down stream from water over road at entrance. Swoop-zone virtually unlimited.

<i>Antrozous pallidus</i> , pallid bat	2 males
<i>Choeronycteris mexicana</i> , Mexican long-tongued bat	1 female (p)
<i>Lasionycteris noctivagans</i> , silver-haired bat	2 males
<i>Myotis auriculus</i> , southwestern myotis	3 males
<i>Myotis velifer</i> , cave myotis	2 males
<i>Myotis volans</i> , long-legged myotis	3 (1 female (nr), 2 males)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	1 male

Site #2: One Large AustBat Harp trap up stream from water over road at entrance, flanked by encroaching willows. Swoop-zone virtually unlimited

<i>Eptesicus fuscus</i> , big brown bat	2 males
<i>Lasiurus cinereus</i> , hoary bat	1 male
<i>Myotis auriculus</i> , southwestern myotis	3 males
<i>Myotis thysanodes</i> , fringed myotis	1 male
<i>Myotis volans</i> , long-legged myotis	1 male
<i>Pipistrellus hesperus</i> , western pipistrelle	1 male

Site #3: One 18-foot mist nets set diagonally across stream over a still pool 8'w x 40'l w/a swoop zone 8'w x 150'l. Net set under over-hanging vegetation

<i>Idionycteris phyllotis</i> , lappet-browed bat	2 males
<i>Lasionycteris noctivagans</i> , silver-haired bat	2 males
<i>Lasiurus cinereus</i> , hoary bat	4 males
<i>Myotis thysanodes</i> , fringed myotis	2 males
<i>Myotis velifer</i> , cave myotis	1 male

Site #4: Two 18-foot mist nets set in a "V" over a 8'w x 24'l pool along a bend in the stream covered by over-hanging vegetation.

<i>Antrozous pallidus</i> , pallid bat	1 male
<i>Eptesicus fuscus</i> , big brown bat	3 males
<i>Myotis auriculus</i> , southwestern myotis	4 (3 females (p), 1 male)
<i>Myotis californicus</i> , California myotis	1 male
<i>Myotis thysanodes</i> , fringed myotis	1 male
<i>Myotis velifer</i> , cave myotis	4 males
<i>Myotis volans</i> , long-legged myotis	1 female (nr)
<i>Pipistrellus hesperus</i> , western pipistrelle	1 male
Grand Total Species	= 13
Grand Total Individuals	= 50

Day 04: 18 June 1998: 1930 — 2210 (Start Temp: 71F, End Temp: 60F)

Location **B**: South Fork of Cave Creek Canyon both upstream and downstream from water over road.

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

Site #1: One 18-foot mist net downstream from water crossing at a 4'w x 8'l pool (swoop zone: 10'w x 50'l)

<i>Antrozous pallidus</i> , pallid bat	1 male
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	1 male
<i>Lasiurus cinereus</i> , hoary bat	4 males
<i>Myotis californicus</i> , California myotis	1 male
<i>Myotis volans</i> , long-legged myotis	1 male
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	1 male

Site #2: One 30-foot mist net upstream from water over road below overhanging Arizona Cypress and above a 4'w x 50'l section of stream with a swoop zone of 30'w x 150'l

<i>Antrozous pallidus</i> , pallid bat	2 males
<i>Eptesicus fuscus</i> , big brown bat	5 males
<i>Lasiorycteris noctivagans</i> , silver-haired bat	2 males
<i>Lasiurus cinereus</i> , hoary bat	3 males
<i>Myotis californicus</i> , California myotis	1 male
<i>Myotis thysanodes</i> , fringed myotis	1 male
<i>Pipistrellus hesperus</i> , western pipistrelle	5 males
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	1 male
Grand Total Species	= 10
Grand Total Individuals	= 29

Location **H**: Silver Creek — 20:00 - 23:00 (Start Temp: 77F, End Temp: 66F)

GPS Coord: 31° 55' 54.9" N – 109° 05.1" W

Site #1: One 18-foot mist net along bend in dry streambed. Pool size: non-existent, swoop zone: unlimited.

<i>Myotis californicus</i> , California myotis	2 (1 female (p), 1 male)
<i>Myotis thysanodes</i> , fringed myotis	1 male
<i>Pipistrellus hesperus</i> , western pipistrelle	1 male

Site #2: One large AustBat harp trap over still water in stream upstream 25 yards from Site #1

<i>Eptesicus fuscus</i> , big brown bat	2 (1 male, 1 unknown)
<i>Lasiurus cinereus</i> , hoary bat	1 male
<i>Leptonycteris curasoae</i> , lesser long-nosed bat	1 male
<i>Myotis californicus</i> , California myotis	7 (3 females (2 p, 1 nr), 4 males)
<i>Myotis thysanodes</i> , fringed myotis	1 male

Site #3: One 8-foot mist net between heavy vegetation along small wet spot in stream 5'w x 15'l w/a swoop zone of 8'w x 40'l

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	1 male
<i>Eptesicus fuscus</i> , big brown bat	2 females (p)
<i>Lasiorycteris noctivagans</i> , silver-haired bat	1 male
<i>Lasiurus cinereus</i> , hoary bat	1 male
<i>Myotis auriculus</i> , southwestern myotis	1 female (p)
<i>Myotis californicus</i> , California myotis	1 female (p)
<i>Myotis thysanodes</i> , fringed myotis	3 males
<i>Myotis volans</i> , long-legged myotis	1 female (p)
<i>Pipistrellus hesperus</i> , western pipistrelle	14 (6 females (p), 8 males)
Grand Total Species	= 10
Grand Total Individuals	= 41

Summary of Capture Results: Session II – June 14 thru 19, 1998

One (1) 8-foot, Fifteen (15) 18-foot, Three (3) 30-foot Mist Nets and Four (4) Large Austbat Harp Traps (Total Net/Trap Hours = 63.82)

<i>Antrozous pallidus</i> , pallid bat		7 males
<i>Choeronycteris mexicana</i> , Mexican long-tongued bat		1 female (p)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat		2 males
<i>Eptesicus fuscus</i> , big brown bat		30 (2 females (p), 27 males, 1 unknown)
<i>Idionycteris phyllotis</i> , lappet-browed bat		4 males
<i>Lasionycteris noctivagans</i> , silver-haired bat		10 males
<i>Lasiurus cinereus</i> , hoary bat		31 males
<i>Lasiurus xanthinus</i> , western yellow bat		1 female (nr)
<i>Leptonycteris curasoae</i> , lesser long-nosed bat		1 male
<i>Myotis auriculus</i> , southwestern myotis		25 (17 females (16p, 1nr), 7 males, 1 unknown)
<i>Myotis californicus</i> , California myotis		23 (8 females (6p, 2nr), 14 males, 1 unknown)
<i>Myotis thysanodes</i> , fringed myotis		19 (4 females (2p, 2nr), 15 males)
<i>Myotis velifer</i> , cave myotis		9 males
<i>Myotis volans</i> , long-legged myotis		9 (4 females (1p, 3nr), 5 males)
<i>Pipistrellus hesperus</i> , western pipistrelle		32 (6 female (p), 26 male)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat		9 (7 male, 2 unknown)
Total species	=	16
Total individuals	=	213

Session III

Day 01: 20 June 1998: 1930 — 2300 (Start Temp: 86F, End Temp 70F)

Location **G**: Across from USFS Visitors Center, Cave Creek Canyon, Coronado National Forest Portal, Arizona'

GPS Coord: 31° 53' 52.5" N – 109° 09' 44.6" W

Site #1: One 8-foot mist net and one 18-foot mist net over a 6'w x 6'l and 12'w x 25'l pool in the stream about 15 yards apart with a 12'w x 50'l swoop zone.

<i>Eptesicus fuscus</i> , big brown bat		2 males
<i>Idionycteris phyllotis</i> , lappet-browed bat		1 male
<i>Lasiurus cinereus</i> , hoary bat		3 males
<i>Myotis californicus</i> , California myotis		1 male
<i>Myotis ciliolabrum</i> , western small-footed myotis		1 male
<i>Myotis thysanodes</i> , fringed myotis		1 female (nr)
<i>Myotis volans</i> , long-legged myotis		1 male
<i>Pipistrellus hesperus</i> , western pipistrelle		3 (2 males, 1 unknown)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat		1 male

Site #2: One large AustBat harp trap down-stream about 15 yards from Site #1 under over hanging vegetation along running section of creek

<i>Eptesicus fuscus</i> , big brown bat		12 males
<i>Lasiurus blossevillii</i> , western red bat		1 unknown
<i>Lasiurus cinereus</i> , hoary bat		1 male
<i>Myotis auriculus</i> , southwestern myotis		3 (1 female (p), 2 males)
<i>Myotis californicus</i> , California myotis		3 (1 female (nr), 2 males)
<i>Myotis thysanodes</i> , fringed myotis		1 female (p)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat		25 (12 females (p), 13 males)

Site #2: Two 18-foot mist nets over two pools in stream, open from above, 10'w x 60'l and 9'w x 36'l respectively with a combined swoop zone of 25'w x 120'l

<i>Eptesicus fuscus</i> , big brown bat		7 (2 females (p), 5 males)
<i>Lasiurus cinereus</i> , hoary bat		2 males
<i>Myotis auriculus</i> , southwestern myotis		1 female (p)
<i>Myotis californicus</i> , California myotis		2 females (1p, 1l)
<i>Myotis ciliolabrum</i> , western small-footed myotis		1 male
<i>Myotis thysanodes</i> , fringed myotis		1 female (l)
<i>Myotis volans</i> , long-legged myotis		1 male
<i>Pipistrellus hesperus</i> , western pipistrelle		5 males
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat		10 (4 females (2p, 2 unknown), 6 males)

Site #3: Two 18-foot mist nets over 8'w x 20'l pools in stream with a swoop zone of 10'w x 40'l

<i>Antrozous pallidus</i> , pallid bat	1 unknown
<i>Choeronycteris mexicana</i> , Mexican long-tongued bat	1 female (l)
<i>Eptesicus fuscus</i> , big brown bat	1 male
<i>Lasiurus cinereus</i> , hoary bat	2 males
<i>Myotis californicus</i> , California myotis	1 male
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 male
<i>Myotis thysanodes</i> , fringed myotis	1 male
<i>Myotis volans</i> , long-legged myotis	1 female (p)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	1 male
Grand Total Species	= 13
Grand Total Individuals	= 100

Day 02: 21 June 1998: 1930— 2230 (Start Temp: 82F, End Temp: 67F)

Location **F**: Cave Creek, up-stream and down stream from the Idlewild campground

GPS Coord: 31° 53' 38.3" N – 109° 09' 58.7" W

Site #1: Two 18-foot mist nets over two small pools in stream 8'w x 50'l and 10'w x 20'l respectively with unlimited swoop zones.

<i>Antrozous pallidus</i> , pallid bat	1 male
<i>Lasiurus blossevillii</i> , western red bat	1 female (p)
<i>Lasiurus cinereus</i> , hoary bat	1 male
<i>Myotis auriculus</i> , southwestern myotis	4 (1 female (p), 3 males)
<i>Myotis californicus</i> , California myotis	1 male
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 male
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	3 (1 female (p), 1 male, 1 unknown)

Site #2: One large AustBat harp trap over stream bed just upstream from entrance between and under encroaching willows

<i>Antrozous pallidus</i> , pallid bat	1 male
<i>Myotis auriculus</i> , southwestern myotis	2 (1 female (nr), 1 male)
<i>Myotis californicus</i> , California myotis	1 female (p)
<i>Myotis volans</i> , long-legged myotis	1 male

Site #3: One 18-foot mist net over a still pool 8'w x 40'l w/a swoop zone 8'w x 150'l. Net set under overhanging vegetation

<i>Eptesicus fuscus</i> , big brown bat	2 males
<i>Lasiurus blossevillii</i> , red bat	1 female (nr)
<i>Lasiurus cinereus</i> , hoary bat	3 males
<i>Myotis auriculus</i> , southwestern myotis	1 male
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 male
<i>Myotis volans</i> , long-legged myotis	1 male

Site #4: One 18-foot and one 30-foot mist net set 100 yards upstream from Site #3 over small pools in stream, 4'w x 8'l (swoop zone 30'w x 60'l under overhanging vegetation) and 8'w x 10'l (swoop zone: 10'w x 40'l open from above) respectively

<i>Eptesicus fuscus</i> , big brown bat	1 male
<i>Lasiurus cinereus</i> , hoary bat	4 males
<i>Myotis volans</i> , long-legged myotis	1 male
Grand Total Species	= 9
Grand Total Individuals	= 32

Day 03: 22 June 1998: 1945— 2300 (Start Temp: 75F, End Temp: 64F)

Location **D**: Stream locations in Sunny Flats campground.

GPS Coord: 31° 53' 04.1" N – 109° 10' 42.4" W

Site #1: AustBat harp trap set between encroaching vegetation along South Fork branch of creek

<i>Myotis auriculus</i> , southwestern myotis	1 female (p)
<i>Myotis californicus</i> , California myotis	1 male
<i>Myotis volans</i> , long-legged myotis	1 male
<i>Pipistrellus hesperus</i> , western pipistrelle	1 male

Site #2: One 30-foot mist net set aside harp trap and one 18-foot mist net set over water (pool size: 3'w x 5'l, swoop zone: unlimited) under over-hanging vegetation

<i>Antrozous pallidus</i> , pallid bat	2 males
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	2 (1 female (p), 1 male)
<i>Eptesicus fuscus</i> , big brown bat	1 male
<i>Lasionycteris noctivagans</i> , silver-haired bat	1 male
<i>Lasiurus cinereus</i> , hoary bat	3 males
<i>Myotis auriculus</i> , southwestern myotis	7 (6 females (4p, 2nr), 1 male)
<i>Myotis thysanodes</i> , fringed myotis	2 males

Site #3: One 18-foot mist net across small (10'w x 10'l, swoop zone: unlimited) still pool in stream under overhanging vegetation

<i>Antrozous pallidus</i> , pallid bat	1 male
<i>Lasiurus cinereus</i> , hoary bat	3 males
<i>Myotis thysanodes</i> , fringed myotis	1 male

Site #4: One 18-foot mist net and one 30-foot mist net set in a "V" over a small pool (5'w x 35'l, swoop zone: unlimited) in stream with no over-hanging vegetation above

<i>Lasionycteris noctivagans</i> , silver-haired bat	1 male
<i>Lasiurus cinereus</i> , hoary bat	9 (8 males, 1 unknown)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	3 males

Site #5: One 42-foot mist net set under sycamore branches where stream opens up and crosses entrance into campground (no pool available, swoop zone unlimited)

<i>Eptesicus fuscus</i> , big brown bat	1 male
<i>Idionycteris phyllotis</i> , lappet-browed bat	2 males
<i>Lasionycteris noctivagans</i> , silver-haired bat	1 male
<i>Lasiurus cinereus</i> , hoary bat	5 males
<i>Myotis californicus</i> , California myotis	1 unknown

Site #6: One 8-foot mist net and two 18-foot mist nets over small pools (8'w x 10'l) in stream bed upstream from sites 3, 4, and 5 (open from above, swoop zone unlimited)

<i>Eptesicus fuscus</i> , big brown bat	2 (1 female (p) 1male)
<i>Lasionycteris noctivagans</i> , silver-haired bat	2 males
<i>Lasiurus cinereus</i> , hoary bat	8 males
<i>Myotis auriculus</i> , southwestern myotis	1 male
<i>Myotis thysanodes</i> , fringed myotis	2 males
<i>Pipistrellus hesperus</i> , western pipistrelle	1 male
Grand Total Species	= 12
Grand Total Individuals	= 66

Day 04: 23 June 1998: 2000 — 2300 (Start Temp: 75F, End Temp: 65F)

Location **H**: Silver Creek Stream ½ way between Portal and Paradise along Paradise road

GPS Coord: 31° 55' 54.9" N – 109° 05.1" W

Site #1: One AustBat trap over dry stream bed under juniper and next to large rock outcrop (swoop zone unlimited)

<i>Lasiurus cinereus</i> , hoary bat	2 males
<i>Myotis californicus</i> , California myotis	7 (3 females (p), 4males)

Site #2: One 18-foot mist net across narrow, shallow stream just down stream from Site #1. (pools non-existent, swoop zone unlimited)

<i>Antrozous pallidus</i> , pallid bat	2 males
<i>Choeronycteris mexicana</i> , Mexican long-tongued bat	1 female (l)
<i>Lasiurus cinereus</i> , hoary bat	1 male
<i>Leptonycteris curasoae</i> , lesser long-nosed bat	4 males
<i>Myotis auriculus</i> , southwestern myotis	3 (2 females (p), 1 unknown)
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 male
<i>Myotis thysanodes</i> , fringed myotis	2 males
<i>Pipistrellus hesperus</i> , western pipistrelle	1 male

Site #3: One 8-foot mist net 50-yards down stream from Site #2 over shallow narrow pool (8'w x 12'l, swoop-zone unlimited)

<i>Antrozous pallidus</i> , pallid bat	2 males
<i>Lasionycteris noctivagans</i> , silver-haired bat	2 males
<i>Lasiurus cinereus</i> , hoary bat	2 males
<i>Leptonycteris curasoae</i> , lesser long-nosed bat	1 unknown
<i>Myotis auriculus</i> , southwestern myotis	1 female (nr)
<i>Myotis californicus</i> , California myotis	3 (1 female (p), 2 males)
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 female (p)
<i>Myotis thysanodes</i> , fringed myotis	2 males
<i>Pipistrellus hesperus</i> , western pipistrelle	8 (5 female (p), 2 males, 1 unknown)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	1 male

Site #4: Two 18-foot mist nets along curves in stream over dry creek bed 200 yards down stream from Site #3 (swoop-zone unlimited)

<i>Antrozous pallidus</i> , pallid bat	2 (1 female (nr), 1 male)
<i>Eptesicus fuscus</i> , big brown bat	1 male
<i>Leptonycteris curasoae</i> , lesser long-nosed bat	7 males
<i>Myotis californicus</i> , California myotis	1 female (p)
Grand Total Species	= 12
Grand Total Individuals	= 58

Summary of Capture Results: Session III – June 19 thru June 24, 1997

Three (3) 8-foot, Seventeen (17) 18-foot, Three (3) 30-foot, One (1) 42-foot Mist Nets and Four (4) Large AustBat Harp Traps (Total Net/Trap Hours = 90)

<i>Antrozous pallidus</i> , pallid bat	12 (1 female (nr), 10 males, 1 unknown)
<i>Choeronycteris mexicana</i> , Mexican long-tongued bat	2 females (l)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	2 (1 female (p), 1 male)
<i>Eptesicus fuscus</i> , big brown bat	30 (3 females (p), 27 males)
<i>Idionycteris phyllotis</i> , Allen's lappet-browed bat	3 males
<i>Lasionycteris noctivagans</i> , silver-haired bat	7 males
<i>Lasiurus blossevillii</i> , desert red bat	3 (2 females (1p, 1nr), 1 unknown)
<i>Lasiurus cinereus</i> , hoary bat	49 (48 males, 1 unknown)
<i>Leptonycteris curasoae</i> , lesser long-nosed bat	12 (11 males, 1 unknown)
<i>Myotis auriculus</i> , southwestern myotis	24 (12 females (8p, 4nr), 11 males, 1 unknown)
<i>Myotis californicus</i> , California myotis	22 (9 females (7p, 1l, 1nr), 12 males, 1 unknown)
<i>Myotis ciliolabrum</i> , small-footed myotis	7 (1 female (l), 6 males)
<i>Myotis thysanodes</i> , fringed myotis	13 (3 females (1p, 1l, 1nr), 10 males)
<i>Myotis volans</i> , long-legged myotis	7 (1 female (p), 6 males)
<i>Pipistrellus hesperus</i> , western pipistrelle	19 (5 females (p), 12 males, 2 unknown)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	44 (17 females (15p, 2 unknown), 26 males, 1 unk)
Total species	= 16
Total individuals	= 256

**1998 Bat Conservation and Management Workshop
Summary of Capture Results – June 9 thru June 24, 1998**

Five (5) 8-foot, Forty (40) 18-foot, Ten (10) 30-foot, Eight (8) 42-foot Mist Nets, and Eleven (11) Large AustBat Harp Traps (Total Net/Trap Hours = 214.27)

<i>Antrozous pallidus</i> , pallid bat	23 (1 female (nr), 21 males, 1 unknown)
<i>Choeronycteris mexicana</i> , Mexican long-tongued bat	3 females (1p, 2l)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	8 (5 females (p), 3 males)
<i>Eptesicus fuscus</i> , big brown bat	67 (6 females (5p, 1nr), 60 males, 1 unknown)
<i>Idionycteris phyllotis</i> , lappet-browed bat	8 males
<i>Lasionycteris noctivagans</i> , silver-haired bat	21 males
<i>Lasiurus blossevillei</i> , desert red bat	3 (2 females (1p, 1nr), 1 unknown)
<i>Lasiurus cinereus</i> , hoary bat	87 (85 males, 2 unknown)
o <i>Lasiurus xanthinus</i> , western yellow bat	1 female (nr)
<i>Leptonycteris curasoae</i> , lesser long-nosed bat	13 (12 males, 1 unknown)
<i>Myotis auricolus</i> , southwestern myotis	67 (40 females (28p, 12nr), 23 males, 4 unknown)
† <i>Myotis californicus</i> , California myotis	60 (21 females (14p, 1l, 6nr), 36 males, 3 unknown)
† <i>Myotis ciliolabrum</i> , small-footed myotis	7 (1 female (l), 3 nr)
<i>Myotis thysanodes</i> , fringed myotis	35 (7 female (3p, 1l, 3nr), 28 males)
<i>Myotis velifer</i> , cave myotis	9 males
<i>Myotis volans</i> , long-legged myotis	24 (8 female (3p, 5nr), 16 males)
<i>Pipistrellus hesperus</i> , western pipistrelle	67 (11 female (p), 54 males, 2 unknown)
* <i>Tadarida brasiliensis</i> , Mexican free-tailed bat	73 (25 females (15p, 8nr, 2?), 45 males, 3 unknown)
Total species	= 18
Total individuals	= 576

NOTES:

- o this record represents the first time *Lasiurus xanthinus* has been caught in the Portal area during the BCI workshops, previous records of this species in the Portal area include captures by Barbour and Davis over the SWRS swimming pool in the 1960's and captures by Hoffmeister along Cave Creek and at Herb Martyr Dam sometime in the 1970's and 1980's.
- * all pregnant females came in late one nite (after 2130) on 20 June 1998 (except for a single pregnant female on 21 June); indicating perhaps a migratory population was intercepted and/or pregnant female *Tadarida brasiliensis* might be using Statue Cave as a transitory roost during their northward migration. (Also, this is the first year since 1995 that regular emergences were observed from Statue Cave in the South Fork of Cave Creek Canyon.)
- † all identifications of *Myotis ciliolabrum* and *Myotis californicus* were confirmed using AnaBat software while recording the vocalizations of hand-released individuals after each night's netting session. All vocalizations with minimum-frequency limits clearly at or above 50kHz were attributed to *Myotis californicus* while those with minimum frequencies at 40kHz were attributed to *Myotis ciliolabrum* (see: O'Farrell, M.J. Use of Echolocation Calls for the Identification of Free-flying Bats, *1997 Transactions of the Western Section of the Wildlife Society* 33:1-8, and O'Farrell, M.J., et.al. Qualitative Identification of Free-flying Bats Using the AnaBat Detector, *J.Mamm.* Feb.99 (in press)).