

2009 BCI Bat Conservation and Management Workshop – Portal, AZ
 AZ: Cochise County, Coronado National Forest, Chiricahua Mountains
 Summary of Capture Data

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Session I

Day 01: 06 May 2009

Location #1: South Fork of Cave Creek Canyon just upstream from bridge.

Start time: 1930h; Start Temp: 68.3°F

End Time: 2300h; End Temp: 62.4°F; dry, clear, light breeze.

UTM: 12R 0671855 east, 3527667 north

Site #1: One 18-foot (6m) single high set under overhanging vegetation.

Myotis auriculus, southwestern myotis 1 male (a, nr)

Myotis californicus, California myotis 2 male (a, nr)

Total species = 2

Total individuals = 3

Site #2: One 30-foot (9m) triple-high net set between rock wall and vegetation.

Eptesicus fuscus, big brown bat 1 male (a, nr)

Myotis auriculus, southwestern myotis 4 (1 female (a, nr), 3 males (a, nr))

Myotis californicus, California myotis 2 males (a, nr)

Myotis thysanodes, fringed myotis 1 male (a, nr)

Myotis volans, long-legged myotis 2 (1 male (a, nr), 1 female (a, nr))

Total species = 5

Total individuals = 10

Location #2: South Fork of Cave Creek Canyon just downstream from bridge.

Start time: 1930h; Start Temp: 68°F

End Time: 2230h; End Temp: 62°F; clear and calm.

UTM: 12R 0671950 east, 3527740 north (NAD27)

Site #1: One large harp trap between encroaching and under overhanging vegetation.

Eptesicus fuscus, big brown bat 1 male (a, nr)

Lasiurus borealis, western red bat 1 male (a, nr)

Myotis auriculus, southwestern myotis 1 male (a, nr)

Myotis californicus, California myotis 12 (1 female (a, nr), 11 males)

Total species = 4

Total individuals = 15

Site #2: One single-high, 18-foot (6m) mist net set just down stream from site #1.

Myotis californicus, California myotis 4 males (a, nr)

Myotis volans, long-legged myotis 1 male (a, nr)

Total species = 2

Total individuals = 5

Site #3: One triple-high, 18-foot (6m) mist net set just down stream from site #2, around bend where large rock juts out into stream.

Eptesicus fuscus, big brown bat 8 males (a, nr)

Lasionycteris noctivagans, silver-haired bat 1 male (a, nr)

Lasiurus cinereus, hoary bat 1 male (a, nr)

Myotis californicus, California myotis 2 males (a, nr)

Total species = 4

Total individuals = 12

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Location #3: South Fork of Cave Creek Canyon downstream from bridge.
 Start time: 1915h; Start Temp: 70°F
 End Time: 2200h; End Temp: 61.5°F; clear and calm.
 UTM: 12R 0672157 east, 3527847 north (NAD27); clear, calm
 Site #1: One large harp trap between encroaching and under overhanging vegetation.

<i>Myotis auriculus</i> , southwestern myotis			2 (1 female (a, nr), 1 male (a, nr))
<i>Myotis californicus</i> , California myotis			4 males (a, nr)
<i>Myotis volans</i> , long-legged myotis			1 female (a, nr)
Total species	=		3
Total individuals	=		7

Site #2: Two 18-foot (6m) mist nets set parallel over a 10x15-foot pool in stream with a 15x20-foot swoop zone.

<i>Lasiurus cinereus</i> , hoary bat			2 males (a, nr)
<i>Myotis thysanodes</i> , fringed myotis			1 male (a, nr)
<i>Myotis unknown</i> , unknown myotis			1 unknown (escaped)
Total species	=		2
Total individuals	=		4

Location #4: South Fork of Cave Creek Canyon downstream from bridge.
 Start time: 1930h; Start Temp: 71°F
 End Time: 2230h; End Temp: 66°F; clear and calm.
 UTM: 12R 0672392 east; 3528206 north (NAD27); clear, calm
 Site #1: One large harp trap between encroaching and under overhanging vegetation.

<i>Antrozous pallidus</i> , pallid bat			1 male (a, nr)
<i>Eptesicus fuscus</i> , big brown bat			1 male (a, nr)
<i>Myotis volans</i> , long-legged myotis			1 female (a, nr)
Total species	=		3
Total individuals	=		3

Site #2: One 18-foot (6m) mist net and one 30-foot (9m) mist net set over small pool in creek with a swoop zone of 18x18 feet.

<i>Eptesicus fuscus</i> , big brown bat			4 males (3a, nr; 1a, s)
<i>Lasionycteris noctivagans</i> , silver-haired bat			1 male (a, nr)
<i>Pipistrellus (Permimyotis) hesperus</i> , western pipistrelle			1 male (a, nr)
Total species	=		3
Total individuals	=		6

Day 02: 07 May 2009

Location #1: Stewart campground, creek locations upstream from Idlewilde campground.
 Start time: 1945h, Start Temp: 72.6°F
 End Time: 2230h, End Temp: 67.1°F; very light wind, clear.
 UTM: 12R 0673378 east; 3529681 north (NAD27)
 Site #1: One large harp trap set in creek between and under vegetation.

<i>Myotis thysanodes</i> , fringed myotis			1 male (a, nr)
<i>Myotis velifer</i> , cave myotis			1 male (a, nr)
<i>Myotis volans</i> , long-legged myotis			2 females (a, 1p, 1nr)
Total species	=		3
Total individuals	=		4

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Site #2: Three 18-foot (6m) mist nets set parallel across stream.

<i>Eptesicus fuscus</i> , big brown bat		2 males (a, nr)
<i>Lasiurus cinereus</i> , hoary bat		3 females (a, nr)
<i>Myotis californicus</i> , California myotis		1 male (a, nr)
<i>Myotis volans</i> , long-legged myotis		2 (1 female (a, nr), 1 male (a, nr))
Total species	=	4
Total individuals	=	8

Location #2: Idlewilde campground, creek locations upstream from back of campground at "big rock" site.

Start time: 1930h, Start Temp: 72°F

End Time: 2230h, End Temp: 63.9°F; light wind, clear.

UTM: 12R 0673410 east; 3529739 north (NAD27)

Site #1: One 8-foot (2.6m) mist net and one 42-foot (12m) mist net set in a V-configuration over an 8x20-foot pool in the stream with a swoop zone of 10x40 feet.

<i>Eptesicus fuscus</i> , big brown bat		1 male (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat		1 male (a, nr)
<i>Lasiurus cinereus</i> , hoary bat		1 male (a, nr)
Total species	=	3
Total individuals	=	3

Site#2: One large harp trap set in creek between encroaching and under over-hanging vegetation.

<i>Myotis auriculus</i> , southwestern myotis		1 male (a, nr)
<i>Myotis volans</i> , long-legged myotis		1 male (a, nr)
Total species	=	2
Total individuals	=	2

Location #3: Idlewilde campground, creek locations just upstream from entrance.

Start time: 1915h, Start Temp: 71°F

End Time: 2230h, End Temp: 64°F; light wind, clear.

UTM: 12R 0673485 east; 3529920 north (NAD27)

Site #1: On single-high 18-foot (6m) mist net set over creek.

<i>Eptesicus fuscus</i> , big brown bat		1 female (a, nr)
<i>Myotis auriculus</i> , southwestern myotis		1 male (a, nr)
<i>Myotis californicus</i> , California myotis		1 female (a, nr)
Total species	=	3
Total individuals	=	3

Site #2: One triple high 18-foot (6m) mist net set over creek.

<i>Eptesicus fuscus</i> , big brown bat		1 female (a, nr)
<i>Lasiurus cinereus</i> , hoary bat		3 (2 males (a, nr), 1 unknown (escaped))
Total species	=	2
Total individuals	=	4

Site#3: One large harp trap set in creek between encroaching and under over-hanging vegetation.

<i>Myotis auriculus</i> , southwestern myotis		1 female (a, nr)
<i>Myotis californicus</i> , California myotis		2 (1 female (a, nr), 1 male (a, nr))
<i>Myotis ciliolabrum</i> , western small-footed myotis		1 unknown
Total species	=	3
Total individuals	=	4

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Location #4: Creek locations at Idlewilde, just downstream from bridge at entrance and campsite #1.
 Start time: 2000h, Start Temp: 71°F
 End Time: 2230, End Temp: 64°F; clear and calm.
 UTM: 12R 0673485 east; 3529920 north (NAD27)
 Site #1: One 30-foot (9m) double-high mist net set across stream and bank upstream from bridge.

<i>Lasionycteris noctivagans</i> , silver-haired bat			3 males (a, nr)
<i>Lasiurus cinereus</i> , hoary bat			3 (2 females (a, nr), 1 male (a, nr))
<i>Myotis auriculus</i> , southwestern myotis			2 females (a, nr)
<i>Myotis californicus</i> , California myotis			1 male (a, nr)
<i>Myotis thysanodes</i> , fringed myotis			1 female (a, nr)
<i>Myotis velifer</i> , cave myotis			1 male (a, nr)
<i>Myotis volans</i> , long-legged myotis			1 male (a, nr)
Total species	=		7
Total individuals	=		12

Site #2: One 18-foot (6m) triple-high mist net set over narrow section of flowing stream and banks.

<i>Antrozous pallidus</i> , pallid bat			1 male (a, nr)
<i>Eptesicus fuscus</i> , big brown bat			3 (1 female (a, nr), 2 males (a, nr))
<i>Lasionycteris noctivagans</i> , silver-haired bat			3 (1 female (a, nr), 2 males (a, nr))
<i>Lasiurus blossevillii</i> , western red bat			1 male (a, nr)
<i>Lasiurus cinereus</i> , hoary bat			3 (2 females (a, nr), 1 male (a, nr))
<i>Myotis californicus</i> , California myotis			3 (1 female (a, nr), 2 males (a, nr))
<i>Myotis volans</i> , long-legged myotis			2 (1 female (a, nr), 1 male (a, nr))
Total species	=		7
Total individuals	=		16

Day 03: 08 May 2009

Location #1: Creek locations downstream from the USFS Visitor Information Center.
 Start time: 1930h; Start Temp: 70.8°F
 End Time: 2230h; End Temp: 68.1°F; clear, light breeze.
 UTM: 12R 0673948 east; 3530404 north (NAD27)
 Site #1: One large harp trap set in stream.

<i>Antrozous pallidus</i> , pallid bat			2 males (a, nr)
<i>Eptesicus fuscus</i> , big brown bat			3 males (a, nr)
<i>Myotis californicus</i> , California myotis			2 males (a, nr)
<i>Myotis ciliolabrum</i> , western small-footed myotis			2 males (a, nr)
<i>Myotis velifer</i> , cave myotis			2 females (1a, p; 1a, nr)
<i>Myotis volans</i> , long-legged myotis			3 males (a, nr)
Total species	=		6
Total individuals	=		14

Site #2: Two 18-foot (6m) mist nets and one 42-foot (12m) mist net set over dry sections of creek.

<i>Antrozous pallidus</i> , pallid bat			2 males (1a, nr; 1a, s)
<i>Eptesicus fuscus</i> , big brown bat			2 males (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat			4 (1 female (a, nr), 3 males (a, nr))
<i>Lasiurus blossevillii</i> , western red bat			1 unknown
<i>Lasiurus cinereus</i> , hoary bat			3 females (2a, nr; 1a, p)
<i>Myotis californicus</i> , California myotis			1 female (a, nr)
<i>Myotis volans</i> , long-legged myotis			1 male (a, nr)
Total species	=		7
Total individuals	=		14

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Location #2: Creek locations across from the USFS Visitor Information Center.
 Start time: 1930h; Start Temp: 69.9°F
 End Time: 2230h; End Temp: 64°F; clear and calm.
 UTM: 12R 0673893 east; 3530416 north (NAD27)
 Site #1: Two 18-foot (6m) triple high mist nets over creek bed and on 8-foot (2.6m) mist net over a 10x30-foot pool in creek with a 10x75-foot swoop zone.

<i>Antrozous pallidus</i> , pallid bat	1 male (a, nr)
<i>Eptesicus fuscus</i> , big brown bat	7 (2 females (a, nr), 5 males (a, nr))
<i>Idionycteris phyllotis</i> , Allen's lappet browed bat	1 male (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat	7 (1 female (a, nr), 6 males (a, nr))
<i>Lasiurus cinereus</i> , hoary bat	1 male (a, nr)
<i>Lasiurus xanthinus</i> , western yellow bat	1 male (a, nr)
<i>Myotis volans</i> , long-legged myotis	2 females (a, nr)
<i>Myotis</i> unknown (escaped)	1 male (a, nr)
<i>Pipistrellus (Permimyotis) hesperus</i> , western pipistrelle	2 males (a, nr)
Total species	= 8
Total individuals	= 23

Location #3: Creek locations upstream from the USFS Visitor Information Center, near diversion channel.
 Start time: 1915h; Start Temp: 68.3°F
 End Time: 2245h; End Temp: 64.4°F; calm and clear.
 UTM: 12R 0673736 east; 3530248 north (NAD27)
 Site #1: One large harp trap over diversion channel under and between vegetation.

<i>Eptesicus fuscus</i> , big brown bat	2 male (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat	1 male (a, nr)
<i>Myotis auriculus</i> , southwestern myotis	2 males (a, nr)
<i>Myotis californicus</i> , California myotis	4 (1 female (a, nr), 3 males (a, nr))
<i>Myotis thysanodes</i> , fringed myotis	3 males (a, nr)
<i>Myotis volans</i> , long-legged myotis	1 female (a, nr)
Total species	= 6
Total individuals	= 13

Site #2: One triple-high 18-foot (6m) mist net and one single-high 8-foot (2.6m) mist net set over an 18x375-foot pool in creek with an 18x300 foot swoop zone.

<i>Antrozous pallidus</i> , pallid bat	1 male (a, nr)
<i>Eptesicus fuscus</i> , big brown bat	6 (1 female (a, nr) 4 males (a, nr), 1 unknown)
<i>Lasionycteris noctivagans</i> , silver-haired bat	5 males (a, nr)
<i>Lasiurus cinereus</i> , hoary bat	4 (2 female (a, nr), 1 male (a, nr), 1 unknown (escape))
<i>Myotis auriculus</i> , southwestern myotis	1 female (a, nr)
<i>Myotis californicus</i> , California myotis	2 females (a, nr)
<i>Myotis thysanodes</i> , fringed myotis	1 female (a, nr)
<i>Myotis velifer</i> , cave myotis	2 female (a, p)
<i>Myotis volans</i> , long-legged myotis	1 female (a, nr)
<i>Pipistrellus (Permimyotis) hesperus</i> , western pipistrelle	1 male (a, nr)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	1 male (a, nr)
Total species	= 11
Total individuals	= 25

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Day 04: 09 May 2009
 Location #1: Chiricahua Mountains, Barfoot wet meadow.
 Start time: 2000h; Start Temp: 62.1°F
 End Time: 2300; End Temp: 52.7°F; cool, clear, slightly breezy.
 UTM: 12R 0662737 east; 3532391 north (NAD27)
 Site #1: One double-high 30-foot (9m) mist net near harp trap and six 42-foot (12m) mist nets set end to end in two parallel sets running along a 1x100 foot pool in meadow with a 100x300 foot swoop zone.

<i>Corynorhinus townsendii</i> , Townsend's big-eared bat		1 female (a, nr)
<i>Eptesicus fuscus</i> , big brown bat		3 males (a, nr)
<i>Myotis auriculus</i> , southwestern myotis		7 (5 females (a, nr), 2 males (a, nr))
<i>Myotis thysanodes</i> , fringed myotis		1 male (a, nr)
Total species	=	4
Total individuals	=	12

Site #2: One large harp trap near small pool of open water at spring house in meadow.

<i>Myotis auriculus</i> , southwestern myotis		4 (2 females (a, nr), 2 males (a, nr))
<i>Myotis thysanodes</i> , fringed myotis		1 male (a, nr)
<i>Myotis volans</i> , long-legged myotis		1 male (a, nr)
Total species	=	3
Total individuals	=	6

Location #2: Portal, Southwestern Research Station.

Start time: 1900h; Start Temp: 70°F
 End Time: 2300; End Temp: 56.1°F; cool, clear, calm.
 GPS: 31°53'02.2" N; 109°12'32.5" W (NAD27)

Site #1: One triple-high, 18-foot (6m) mist net set along road-side of pool plus two 42-foot (12m) mist nets set along long edge of pool, plus two 30-foot (9m) mist nets set parallel along shallow end of pool.

<i>Eptesicus fuscus</i> , big brown bat		1 male (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat		3 males (a, nr)
<i>Lasiurus cinereus</i> , hoary bat		6 (3 females (a, nr), 2 males (a, nr), 1 unknown (escaped))
<i>Myotis velifer</i> , cave myotis		1 male (a, nr)
<i>Tadarida brasiliensis</i> , Mexican free tailed bat		14 (1 female (a, nr), 12 males (a, nr), 1 unk. (escaped))
Total species	=	5
Total individuals	=	25

Site #2: One large harp trap set in creek near pool.

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

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Summary of Capture Results — Session I: 06-09 May 2009

Two 8-foot (2.6m) nets, Thirteen 18-foot (6m) nets, Two 30-foot (9m) nets, Ten 42-foot (12m) nets, Six 3H 18-foot (6m) net stacks, One 3H-30-foot (9m) net stack, One 3H-42-foot (12m) net stack, One 2H 18-foot (6m) net stack, One 2H 30-foot (9m) net stack, and Ten large harp traps.

(Total net/trap-hours = 145.5)

<i>Antrozous pallidus</i> , pallid bat		8 males (4nr, 4s)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat		1 female (a, p)
<i>Eptesicus fuscus</i> , big brown bat		47 (7 females (1p, 6nr), 39 males (1s, 38nr), 1 unknown)
<i>Idionycteris phyllotis</i> , Allen's lappet-browed bat		1 male (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat		29 (3 females (nr), 26 males (nr))
<i>Lasiurus blossevillii</i> , western red bat		3 (2 males (a, nr), 1 unknown)
<i>Lasiurus cinereus</i> , hoary bat		30 (16 females (1p, 15nr), 10 males (nr), 3 unknown)
<i>Lasiurus xanthinus</i> , western yellow bat		1 male (a, nr)
<i>Myotis auriculus</i> , southwestern myotis		28 (14 females (a, nr), 14 males (a, nr))
<i>Myotis californicus</i> , California myotis		43 (9 females (2l, 7nr), 34 males (a, nr))
<i>Myotis ciliolabrum</i> , western small-footed myotis		3 (2 males (a, nr), 1 unknown)
<i>Myotis unknown</i> , unknown-escaped myotis		2 unknown
<i>Myotis thysanodes</i> , fringed myotis		10 (2 females (a, nr), 8 males (a, nr))
<i>Myotis velifer</i> , cave myotis		7 (4 females (3p, 1nr), 3 males (a, nr))
<i>Myotis volans</i> , long-legged myotis		23 (12 females (1p, 11nr), 11 males (a, nr))
<i>Pipistrellus (Permimyotis) hesperus</i> , western pipistrelle		4 males (a, nr)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat		15 (1 female (a, nr), 13 males (a, nr), 1 unknown)
Total species	=	16
Total individuals	=	255

Session II

Day 01: 12 May 2009

Location #1: Cave Creek, upstream from Stewart Bridge, downstream from Vista Point.

Start time: 1930; Start Temp: °F

End Time: 2300; End Temp: 59°F; clear and calm.

UTM: R12 0672848 east; 3529140 north (NAD27)

Site #1: One 18-foot (6m) mist net and one 8-foot (2.6m) mist net set over pools in the creek

<i>Myotis californicus</i> , California myotis		2 males (a, nr)
<i>Myotis velifer</i> , cave myotis		2 (1 female (a, nr), 1 male (a, s))
Total species	=	2
Total individuals	=	4

Site #2: One triple-high 18-foot (6-m) net set over pool in creek.

<i>Eptesicus fuscus</i> , big brown bat		5 males (a, nr)
<i>Lasiurus cinereus</i> , hoary bat		1 female (a, nr)
<i>Myotis auriculus</i> , southwestern myotis		3 (1 female (a, l), 2 males (a, nr))
<i>Myotis californicus</i> , California myotis		2 males (a, nr)
<i>Myotis thysanodes</i> , fringed myotis		1 male (a, nr)
<i>Myotis volans</i> , long-legged myotis		3 (1 female (a, nr), 2 males (a, nr))
Total species	=	6
Total individuals	=	15

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Site #3: One large harp trap over creek, between willows and under over-hanging vegetation.

<i>Choeronycteris mexicana</i> , Mexican long-tongued bat		1 female (a, p)
<i>Eptesicus fuscus</i> , big brown bat		1 male (a, nr)
<i>Myotis auriculus</i> , southwestern myotis		1 male (a, nr)
<i>Myotis californicus</i> , California myotis		5 males (4a, nr; 1a, s)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat		1 male (a, nr)
Total species	=	5
Total individuals	=	9

Location #2: Cave Creek, upstream from Stewart Bridge, across from first pull-out.

Start time: 1930; Start Temp: °F

End Time: 2230; End Temp: 59°F; clear and calm.

GPS: 31°53'22.78" N; 109°9'56.38S" W (NAD83)

Site #1: One 8-foot (2.6m) mist net, two 18-foot (6m) mist nets set parallel over a 10x100 foot pool in stream with a 10x200 foot long swoop zone.

<i>Eptesicus fuscus</i> , big brown bat		4 males (a, nr)
<i>Lasiurus cinereus</i> , hoary bat		1 male (a, nr)
<i>Myotis californicus</i> , California myotis		1 unknown (escaped)
<i>Myotis thysanodes</i> , fringed myotis		1 female (a, nr)
Total species	=	4
Total individuals	=	7

Site #2: One triple-high 18-foot (6m) mist net set over a 10x100 foot pool in stream with a 10x200 foot long swoop zone.

<i>Eptesicus fuscus</i> , big brown bat		1 male (a, nr)
<i>Lasiurus cinereus</i> , hoary bat		1 male (a, nr)
<i>Myotis californicus</i> , California myotis		2 males (a, nr)
<i>Myotis thysanodes</i> , fringed myotis		1 female (a, nr)
<i>Myotis volans</i> , long-legged myotis		1 female (a, nr)
Total species	=	5
Total individuals	=	6

Site #3: One large harp trap over creek, between willows and under over-hanging vegetation.

<i>Antrozous pallidus</i> , pallid bat		2 males (a, nr)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat		1 female (a, p)
<i>Lasiurus cinereus</i> , hoary bat		2 (1 female (a, nr), 1 male (a, nr))
<i>Myotis auriculus</i> , southwestern myotis		6 (4 females (a, nr), 2 males (a, nr))
<i>Myotis californicus</i> , California myotis		16 (2 females (a, nr), 14 males (a, nr))
<i>Myotis ciliolabrum</i> , western small-footed myotis		1 female (a, nr)
<i>Myotis thysanodes</i> , fringed myotis		2 males (a, nr)
<i>Myotis velifer</i> , cave myotis		1 female (a, nr)
<i>Myotis volans</i> , long-legged myotis		2 (1 female (a, nr), 1 male (a, nr))
<i>Pipistrellus (Parastrellus) hesperus</i> , western pipistrelle		1 male (a, nr)
Total species	=	10
Total individuals	=	34

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Location #3: Cave Creek, creek locations near Stewart Bridge
 Start time: 1900h; Start Temp: [degrees]°F
 End Time: 2240h; End Temp: 59°F [comment on conditions].
 GPS: 31°53'22.78" N; 109°9'56.38S" W (NAD83)
 Site #1: Two 18-foot (6m) mist nets and one 30-foot (9m) mist net set parallel over a 3x15foot pool in creek with a 5x25 foot swoop zone.

<i>Eptesicus fuscus</i> , big brown bat			1 male (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat			2 males (1a, nr; 1 a, s)
<i>Lasiurus cinereus</i> , hoary bat			2 (1 female (a, nr), 1 male (a, s))
<i>Myotis auriculus</i> , southwestern myotis			2 females (a, nr)
<i>Myotis velifer</i> , cave myotis			1 male (a, nr)
<i>Pipistrellus (Perimyotis) hesperus</i> , western pipistrelle			1 male (a, s)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat			1 male (a, nr)
Total species	=		7
Total individuals	=		10

Day 02: 13 May 2009

Location #1: Idlewilde Campground, downstream from bridge at entrance

Start time: 1930 Start Temp: 73°F

End Time: 2230 End Temp: 63°F; clear conditions, slightly breezy.

UTM: 12R 0673516N; 3529968E (NAD27)

Site #1: One 8-foot net set in conjunction with a harp trap over dry portion of creek bed.

<i>Eptesicus fuscus</i> , big brown bat			1 male (a, nr)
Total species	=		1
Total individuals	=		1

Site #2: One large harp trap set in conjunction with an 8-foot mist net over dry portion of creek bed.

<i>Leptonycteris yerbabuenae</i> , lesser long-nosed bat			1 male (a, nr)
<i>Myotis californicus</i> , California myotis			1 male (a, nr)
Total species	=		2
Total individuals	=		2

Site #3: One 30-foot (9-meter) mist net set over trickle of water in creek just downstream from bridge.

<i>Myotis californicus</i> , California myotis			1 male (a, nr)
<i>Myotis velifer</i> , cave myotis			1 female (a, nr)
Total species	=		2
Total individuals	=		2

Site #4: One triple-high, 18-foot (6-meter) mist net set down from 8-foot net/trap combo over dry section of creek.

<i>Antrozous pallidus</i> , pallid bat			3 males (a, nr)
<i>Lasiurus cinereus</i> , hoary bat			1 female (a, nr)
<i>Myotis auriculus</i> , southwestern myotis			1 female (a, l)
<i>Myotis californicus</i> , California myotis			1 male (a, nr)
<i>Myotis velifer</i> , cave myotis			2 (1 female (a, nr), 1 male (a, nr))
<i>Myotis volans</i> , long-legged myotis			1 female (a, nr)
Total species	=		6
Total individuals	=		9

*plus one whiskered screech owl

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Location #2: Idlewilde Campground, upstream from bridge.
 Start time: 1900 Start Temp: 73°F
 End Time: 2230 End Temp: 63°F; clear conditions, slightly breezy.
 UTM: 12R 0673516N; 3529968E (NAD27)
 Site #1: One double-high, 30-foot (9-meter) mist net set over

<i>Lasiurus cinereus</i> , hoary bat			1 female (a, nr)
<i>Myotis auriculus</i> , southwestern myotis			1 male (a, nr)
<i>Myotis californicus</i> , California myotis			3 (1 female (a, nr), 2 males (a, nr))
<i>Myotis volans</i> , long-legged myotis			2 males (a, nr)
Total species	=		4
Total individuals	=		7

Site #2: One triple-high, 18-foot (6-meter) mist net set over creek.

<i>Lasionycteris noctivagans</i> , silver-haired bat			1 male (a, nr)
<i>Lasiurus cinereus</i> , hoary bat			1 male (a, nr)
Total species	=		2
Total individuals	=		2

Site #3: One single-high, 42-foot (12-meter) mist net set over creek closest to bridge.

<i>Lasionycteris noctivagans</i> , silver-haired bat			1 male (a, nr)
<i>Leptonycteris yerbabuenae</i> , lesser long-nosed bat			1 male (a, nr)
<i>Myotis californicus</i> , California myotis			2 males (a, nr)
<i>Myotis thysanodes</i> , fringed myotis			1 male (a, nr)
<i>Myotis volans</i> , long-legged myotis			1 female (a, nr)
Total species	=		5
Total individuals	=		6

Location #3: Idlewilde Campground, upstream from end of campground.

Start time: 1900 Start Temp: 73°F
 End Time: 2230 End Temp: 63°F; clear conditions, slightly breezy.
 GPS: 31°53'22.79" N: 109°9'56.38" W (NAD27)

Site #1: Three 18-foot (6-meter) mist nets set parallel along section of stream

<i>Lasiurus cinereus</i> , hoary bat			1 female (a, nr)
<i>Myotis californicus</i> , California myotis			5 (3 females (a, nr), 2 males (a, s))
<i>Myotis velifer</i> , cave myotis			1 female (a, nr)
Total species	=		3
Total individuals	=		7

Day 03: 14 May 2009
 Location #1: Lower Cave Creek, upstream from the USDA Forest Service Visitor Information Center.
 Start time: 1930 Start Temp: 75.3°F
 End Time: 2330 End Temp: 67°F; clear and calm.
 GPS: 31°53'47.256" N; 109°10'2.352" W (WGS84)
 Site #1: Two 18-foot (6-meter) and one 30-foot (9-meter) nets set parallel at diversion channel.

<i>Antrozous pallidus</i> , pallid bat	1 male (a, s)
<i>Choeronycteris mexicana</i> , Mexican long-tongued bat	2 females (a, p)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	1 female (a, p)
<i>Eptesicus fuscus</i> , big brown bat	3 (1 female (a, nr), 2 males (a, s))
<i>Lasiurus cinereus</i> , hoary bat	2 (1 female (a, nr), 1 male (a, s))
<i>Myotis auriculus</i> , southwestern myotis	1 female (a, nr)
<i>Myotis californicus</i> , California myotis	1 male (a, nr)
<i>Myotis velifer</i> , cave myotis	1 male (a, s)
<i>Pipistrellus (Perimyotis) hesperus</i> , western pipistrelle	1 male (a, s)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	2 female (a nr)
Total species	= 10
Total individuals	= 15

Location #2: Lower Cave Creek, downstream from USDA Forest Service Visitor Information Center.
 Start time: 1930 Start Temp: 75.3°F
 End Time: 2330 End Temp: 67°F, clear and calm.
 UTM: 12R 0673948 east; 3530404 north.
 Site #1: Two large harp traps (one with a 30-foot mist net) covering dry parts of creek.

<i>Choeronycteris mexicana</i> , Mexican long-tongued bat	2 females (a, p)
<i>Lasiurus cinereus</i> , hoary bat	1 male (a, nr)
<i>Myotis auriculus</i> , southwestern myotis	2 males (a, nr)
<i>Myotis californicus</i> , California myotis	2 males (a, nr)
<i>Myotis velifer</i> , cave myotis	1 male (a, nr)
<i>Myotis volans</i> , long-legged myotis	4 (1 female (a, l), 3 males (a, nr))
Total species	= 6
Total individuals	= 12

Site #2: Two 18-foot (6m), one 42-foot (12m), one triple-high 18-foot (6m), one 30-foot (9m), and one triple-high 42-foot (12m), set parallel along a 300-foot (100m) stretch of creek.

<i>Antrozous pallidus</i> , pallid bat	2 males (1 nr, 1s)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	1 male (a, nr)
<i>Eptesicus fuscus</i> , big brown bat	15 (2 females (a, nr), 12 males (10nr, 2s), 1 unknown)
<i>Idionycteris phyllotis</i> , Allen's lappet-browed bat	3 males (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat	5 males (a, nr)
<i>Lasiurus borealis</i> , western red bat	2 females (a, nr)
<i>Lasiurus cinereus</i> , hoary bat	6 (2 females (a, nr), 3 males (a, nr), 1 unknown)
<i>Leptonycteris yerbabuenae</i> , lesser long-nosed bat	1 female (a, p)
<i>Myotis auriculus</i> , southwestern myotis	2 males (a, nr)
<i>Myotis californicus</i> , California myotis	8 (7 males (a, nr), 1 unknown)
<i>Myotis thysanodes</i> , fringed myotis	1 male (a, nr)
<i>Myotis velifer</i> , cave myotis	1 female (a, nr)
<i>Myotis volans</i> , long-legged myotis	2 (1 male (a, nr), 1 unknown)
Total species	= 13
Total individuals	= 49

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Day 04:	15 May 2009		
Location #1:	Southwestern Research Station, creek behind the dorms.		
Start time:	1930 Start Temp: 61.7°F		
End Time:	2215 End Temp: 56°F.		
GPS:	31°52'59.3" N; 109°12'20.9" W (NAD27)		
Site #1:	One 18-foot (6m) and two 30-foot (9m) nets over 15x100' pool w/a 20x100' swoop zone.		
<i>Lasionycteris noctivagans</i> , silver-haired bat			1 male (a, s)
<i>Lasiurus cinereus</i> , hoary bat			1 male (a, s)
<i>Myotis velifer</i> , cave myotis			1 male (a, s)
Total species	=		3
Total individuals	=		3
Location #2:	Southwestern Research Station, swimming pool.		
Start time:	1930, Start Temp: 61.7°F		
End Time:	2230, End Temp: 56°F, clear, cool, slight breeze.		
GPS:	31°53'2.2" N; 109°12'32.5" W (NAD27)		
Site #1:	One triple-high 18-foot (6m) net at road side pool edge, plus two 42-foot (12m) nets along the pool's long sides, and one 30-foot (9m) net set on a pivot pole over shallow end.		
<i>Lasiurus cinereus</i> , hoary bat			1 male (a, nr)
<i>Pipistrellus (Perimyotis) hesperus</i> , western pipistrelle			1 male (a, nr)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat			3 males (a, nr)
Total species	=		3
Total individuals	=		5
Location #3:	Southwestern Research Station, creek near meadow, behind animal housing.		
Start time:	1945, Start Temp: 61°F		
End Time:	2300, End Temp: 56°F.		
GPS:	m		
Site #1:	One large harp trap set along road leading to creek under and between vegetation.		
<i>Myotis auriculus</i> , southwestern myotis			1 female (a, nr)
Total species	=		1
Total individuals	=		1
Site #2:	One 42-foot (12m) mist net set at junction of road and creek.		
<i>Idionycteris phyllotis</i> , Allen's lappet-browed bat			1 male (a, nr)
<i>Myotis auriculus</i> , southwestern myotis			1 male (a, nr)
<i>Myotis velifer</i> , cave myotis			1 male (a, nr)
Total species	=		3
Total individuals	=		3
Site #3:	One triple-high 42-foot (12m) net and one triple-high 18-foot (6m) net set over creek.		
<i>Eptesicus fuscus</i> , big brown bat			3 males (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat			1 male (a, nr)
<i>Lasiurus cinereus</i> , hoary bat			2 (1 female (a, nr), 1 male (a, nr))
<i>Myotis auriculus</i> , southwestern myotis			1 male (a, nr)
<i>Myotis velifer</i> , cave myotis			3 males (a, nr)
<i>Myotis volans</i> , long-legged myotis			3 females (a, nr)
<i>Pipistrellus (Perimyotis) hesperus</i> , western pipistrelle			1 male (a, nr)
Total species	=		7
Total individuals	=		14

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Site #4: One 8-foot (2.6m) mist net set over a 20x20-foot pool in creek with a 20x50-foot swoop zone, downstream from road crossing where creek becomes more overgrown.

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

Acoustic Captures:

On 14 May 2009 passive Pettersson detectors were deployed near in between the two locations that were physically being netted and trapped. In addition, Chris Corben and a crew of participants were actively monitoring bats with Anabat equipment across from the net location. A total of 21 species were "captured" either physically or acoustically at the site; with 5 species only caught in nets, 2 species only caught on passive acoustic equipment and 3 species only recorded with active acoustic monitoring. Joe Szewczak confirmed the identities of passively recorded calls. Results are summarized in the table below.

Species	# of physical captures	captured with passive acoustic	captured with active acoustic
<i>Antrozous pallidus</i> , pallid bat	3	✓	✓
<i>Choeronycteris mexicana</i> , Mexican long-tongued bat	4	✓	
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	2		
<i>Eptesicus fuscus</i> , big brown bat	18	✓	✓
<i>Eumops perotis</i> , western mastiff bat			✓
<i>Idionycteris phyllotis</i> , Allen's lappet-browed bat	3	✓	✓
<i>Lasionycteris noctivagans</i> , silver-haired bat	5	(maybe)	✓
<i>Lasiurus blossevillii</i> , western red bat	2		
<i>Lasiurus cinereus</i> , hoary bat	9		
<i>Lasiurus xanthinus</i> , western yellow bat		✓	
<i>Leptonycteris yerbabuena</i> , lesser long-nosed bat	1		
<i>Myotis auriculus</i> , southwestern myotis	5	✓	✓
<i>Myotis californicus</i> , California myotis	11	✓	✓
<i>Myotis ciliolabrum</i> , western small-footed myotis			✓
<i>Myotis thysanodes</i> , fringed myotis	1	✓	✓
<i>Myotis velifer</i> , cave myotis	3	✓	✓
<i>Myotis volans</i> , long-legged myotis	6	(maybe)	
<i>Nyctinomops femorosaccus</i> , pocketed free-tailed bat			✓
<i>Nyctinomops macrotis</i> , big free tailed bat		✓	
<i>Pipistrellus (Perimyotis) hesperus</i> , western pipistrelle	1	✓	✓
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	2	✓	✓
TOTAL SPECIES CAPTURED	16	12	14

Summary of Capture Results — Session II: 12-15 May 2009

Six 8-foot (2.6m) nets, Twelve 18-foot (6m) nets, Six 30-foot (9m) nets, Five 42-foot (12m) nets, One 2H-30-foot (9m) net, Seven 3H-18-foot (6m) net, Two 42-foot (12m) net, and Six large harp traps.

(Total net/trap-hours = 150.75)

<i>Antrozous pallidus</i> , pallid bat	8 males (2s, 6nr)
<i>Choeronycteris mexicana</i> , Mexican long-tongued bat	5 females (a, p)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	3 (2 females (a, p), 1 male (a, nr))
<i>Eptesicus fuscus</i> , big brown bat	34 (3 females (a, nr), 30 males (4s, 26 nr), 1 unknown)
<i>Idionycteris phyllotis</i> , Allen's lappet-browed bat	4 males (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat	12 males (2s, 10nr)
<i>Lasiurus blossevillii</i> , western red bat	2 females (a, nr)
<i>Lasiurus cinereus</i> , hoary bat	25 (10 females (a, nr), 14 males (3s, 11nr), 1 unknown)
<i>Leptonycteris yerbabuena</i> , lesser long-nosed bat	3 (1 female (a, p), 2 males (a, nr))
<i>Myotis auriculus</i> , southwestern myotis	22 (10 females (2l, 8nr), 12 males (a, nr))
<i>Myotis californicus</i> , California myotis	53 (6 females (a, nr), 45 males (3s, 42nr), 2 unknown)
<i>Myotis ciliolabrum</i> , western small-footed myotis	1 female (a, nr)
<i>Myotis thysanodes</i> , fringed myotis	7 (2 females (a, nr), 5 males (an, nr))
<i>Myotis velifer</i> , cave myotis	16 (6 females (a, nr), 10 males (3s, 7nr))
<i>Myotis volans</i> , long-legged myotis	19 (9 females (1l, 8nr), 9 males (a, nr), 1 unknown)
<i>Pipistrellus (Perimyotis) hesperus</i> , western pipistrelle	5 males (2s, 3nr)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	7 (2 females (a, nr), 5 males (a, nr))
Total species	= 17
Total individuals	= 226

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive

Unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Summary of Capture Results — Session I thru II: 6-15 May 2009

Eight 8-foot (2.6m) mist nets, Twenty-six 18-foot (6m) mist nets, Ten 30-foot mist (9m) nets, Fifteen 42-foot (12m) mist nets, One 2H-18-foot (6m) net stacks, Two 2H-30-foot (9m) net stack, Thirteen 3H-18-foot (6m) net stacks, One 3H-30-foot (9m) net stacks, One 3H-42-foot (12m) net stacks, and Sixteen harp traps

(Total net/trap-hrs = 305.25)

<i>Antrozous pallidus</i> , pallid bat	16 males (6s, 10nr)
<i>Choeronycteris mexicana</i> , Mexican long-tongued bat	5 females (a, p)
<i>Corynorhinus townsendii</i> , Townsend's big-eared bat	4 (3 females (a, p), 1 male (a, nr))
<i>Eptesicus fuscus</i> , big brown bat	81 (10 females (1p, 9nr), 69 males (5s, 64nr), 2 unknown)
<i>Idionycteris phyllotis</i> , Allen's lappet-browed bat	5 males (a, nr)
<i>Lasionycteris noctivagans</i> , silver-haired bat	41 (3 females (a, nr), 38 males (2s, 36nr))
<i>Lasiurus blossevillii</i> , western red bat	5 (2 females (a, nr), 3 males (a, nr), 1 unknown)
<i>Lasiurus cinereus</i> , hoary bat	55 (26 females (1p, 25nr), 24 males (3s, 21nr), 4 unk)
<i>Lasiurus xanthinus</i> , western yellow bat	1 male (a, nr)
<i>Leptonycteris yerbabuenae</i> , lesser long-nosed bat	3 (1 female (a, p), 2 males (a, nr))
<i>Myotis auriculus</i> , southwestern myotis	50 (24 females (2l, 22nr), 26 males (a, nr))
<i>Myotis californicus</i> , California myotis	96 (15 females (2l, 13nr), 79 males (3s, 76nr), 2 unknown)
<i>Myotis ciliolabrum</i> , western small-footed myotis	4 (1 female (a, nr), 2 males (a, nr), 1 unknown)
<i>Myotis thysanodes</i> , fringed myotis	17 4 females (a, nr), 13 males (a, nr))
<i>Myotis</i> unknown, Unknown myotis	2 (1 male (unknown), 1 unknown)
<i>Myotis velifer</i> , cave myotis	23 (10 females (3 p, 7nr), 13 males (3 s, 10 nr))
<i>Myotis volans</i> , long-legged myotis	42 (21 females (1p, 1l, 19nr), 20 males (a, nr), 1 unknown)
<i>Pipistrellus hesperus</i> , western pipistrelle	9 males (2s, 7nr)
<i>Tadarida brasiliensis</i> , Mexican free-tailed bat	22 (3 females (a, nr), 19 males (a, nr), 1 unknown)
Total species	= 18
Total individuals	= 481

Notable captures and other observations:

This marks our 18th year netting bats at this location. Some sites have been regularly netted each year for this entire period. During this time, populations of most bat species appear to be relatively stable based upon netting data. We have seen a decline in overall captures for the past three years. Historically captures have ranged from a high of 7.2 bats per net/trap-hour (1994) to a low of 2 bats per net/trap-hour (2005). In 2007 thru 2009, we have caught less than 2 bats per net/trap-hour (1.2-1.6 bats per net/trap-hour). Overall, captures for all species (except red bats and big brown bats) in 2009 were well below average, most notably pipistrelles and Townsend's big-eared bats. We have caught an average of 58 pipistrelles and 14 big-eared bats over the years and in 2009 we only caught 9 and 4 of these species respectively. The lack of pipistrelles is especially puzzling.

This year also marks the first year that *Leptonycteris* was captured before 30 May. Three individuals were captured, two on 13 May and one on 14 May. Most notably, a pregnant female (covered in bright orange pollen) was captured for the first time ever at this location, at this time. The local agave population had yet to begin putting up stalks during our survey period. Unfortunately, we were not equipped to collect pollen from this individual.

This year we also caught more female tree bats (especially hoary bats) than in any other year. This could be explained by the early timing of our survey effort. We began netting on 6 May, which is two weeks earlier than the previous earliest start-date for the workshop. It is possible that female bats migrate thru the area in advance of the males. Longer-term capture efforts in the spring would be required to test this theory.

Tadarida brasiliensis did not seem to be in residence at Statue Cave during our survey period this year.

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