

# 2006 BCI Bat Conservation and Management Workshop – Mammoth Cave, KY

KY: Edmonson County

## Summary of Capture Data

K. Gaukler/BCI

### Session I

Day 01: 17 August 2006

Location #1: MACA. Small ravines down from Good Springs Church. Start Time: 1940 End Time: 2205. Start Temp: 25.9°C End Temp: 24.2°C

Site #1: One 2.6-meter net and one 6-meter net set in an L-formation over small pool in intermittent stream and trail, plus one 2.6-meter net and one 6-meter net set past hill in an L-formation over small pool in intermittent stream and trail.

<i>Eptesicus fuscus</i> , big brown bat		1 unknown
<i>Myotis septentrionalis</i> , northern myotis		7 (5 females (1j-nr, 3pl, 1u), 2 males)
Total species	=	2
Total individuals	=	8

Site #2: One large harp trap set amongst vegetation on narrow part of rocky trail sloping down approximately 40 meters to small stream.

Total species	=	0
Total individuals	=	0

Location #2: MACA. Mill Run along Northside River on Maple Springs Loop. Start Time: 1940 End Time: 2200. Start Temp: N/A End Temp: N/A

Site #1: One 2.6-meter net set over small pool in stream, plus one 6-meter net and one 12-meter net set parallel over pool in stream (approximately 30 meters from 2.6-meter net).

<i>Lasiurus borealis</i> , eastern red bat		1 unknown
<i>Myotis septentrionalis</i> , northern myotis		7 (6 females (nr), 1 male)
Total species	=	2
Total individuals	=	8

Site #2: One harp trap set in stream bed over water approximately 70 meters from road/bridge and 10 meters from Site #1.

<i>Myotis septentrionalis</i> , northern myotis		2 (1 female (pl), 1 male)
<i>Myotis sodalis</i> , Indiana myotis		1 male
Total species	=	2
Total individuals	=	3

Location #3: MACA. Buffalo Road. Start Time: 1940 End Time: 2200. Start Temp: N/A End Temp: N/A

Site #1: One triple-high 9-meter net and two triple-high 6-meter nets set parallel over dirt road.

Total species	=	0
Total individuals	=	0
<b>Grand Total Species</b>	=	<b>4</b>
<b>Grand Total Individuals</b>	=	<b>19</b>

Day 02: 18 August 2006

Location #1: MACA. Sloan's Crossing Pond. Start Time: 1930 End Time: 2200. Start Temp: 25.5°C End Temp: 25.1°C

Site #1: One large harp trap set over parking lot observation deck walkway.

Total species	=	0
Total individuals	=	0

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f = female, m = male, a = adult, j = juvenile

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive, s = scrotal, u = unknown  
unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive

Site #2: Three 12-meter nets, plus two 9-meter nets set end to end along northern edge of pond.  
*Corynorhinus rafinesquii*, Rafinesque's big-eared bat 2 males  
*Lasiurus borealis*, eastern red bat 15 (5 females (3nr, 2j-nr), 8 males (2nr, 5s, 1j-nr), 2 u)  
*Myotis septentrionalis*, northern myotis 18 (9 females (5pl, 3nr, 1j-nr), 7 males (nr), 2 u)  
*Pipistrellus subflavus*, eastern pipistrelle 2 males  
Total species = 4  
Total individuals = 37

Location #2: Coach Cave. Start Time: 1900 End Time: 2145. Start Temp: N/A End Temp: N/A

Site #1: One triple-high 6-meter net set in front of cave entrance and one triple-high 9-meter net set over paved road in front of cave entrance.  
*Eptesicus fuscus*, big brown bat 4 (1 female (nr), 3 males)  
*Lasiurus borealis*, red bat 1 female (nr)  
*Myotis grisescens*, gray myotis 38 (23 females (20nr, 3j-nr), 15 males (13nr, 2j-nr))  
*Pipistrellus subflavus*, eastern pipistrelle 14 (4 females (nr), 10 males (9nr, 1j-nr))  
Total species = 4  
Total individuals = 57

Location #3: James Cave. Start Time: 1945 End Time: 2230. Start Temp: 25.7°C End Temp: N/A

Site #1: One harp trap set approximately 6 meters from James Cave entrance.  
*Myotis grisescens*, gray myotis 24 (5 females (3nr, 2j-nr), 18 males (1s, 10nr, 7j-nr), 1u)  
Total species = 1  
Total individuals = 24

Site #2: One 2.6-meter net set over railroad tracks with heavy vegetation creating flyway, plus one 6-meter net set along fence next to James Cave entrance, and one triple-high 9-meter net set over railroad tracks at gate entrance to cave complex.  
*Eptesicus fuscus*, big brown bat 2 males (1s, 1nr)  
*Myotis grisescens*, gray myotis 30 (11 females (1pl, 5nr, 5j-nr), 18 males, 1 u)  
*Pipistrellus subflavus*, eastern pipistrelle 4 (2 females (1nr, 1j-nr), 2 males (1s, 1nr))  
Total species = 3  
Total individuals = 36  
**Grand Total Species = 6**  
**Grand Total Individuals = 154**

Day 03: 19 August 2006

Location #1: MACA. Dixon Cave. Start Time: 1930 End Time: 2200. Start Temp: 27.5°C End Temp: N/A

Site #1: One harp trap set on path with wood fence between cave entrance and trap.  
Total species = 0  
Total individuals = 0

Site #2: One 6-meter net and one 9-meter net set on either side of harp trap blocking escape routes, plus one 9-meter net set on hill above cave entrance behind observation deck.  
*Eptesicus fuscus*, big brown bat 5 (3 females (1pl, 1nr, 1j-nr), 2 males)  
*Myotis lucifugus*, little brown myotis 5 (4 males, 1 unknown)  
*Myotis septentrionalis*, northern myotis 1 male  
*Myotis sodalis*, Indiana myotis 1 male (s)  
*Pipistrellus subflavus*, eastern pipistrelle 2 males (1j-s, 1j-nr)  
Total species = 5  
Total individuals = 14

Location #2: MACA. Mammoth Cave Historic Entrance. Start Time: 1930 End Time: 2200. Start Temp: N/A  
End Temp: N/A

Site #1: One 9-meter net set over path just before stairs into cave entrance and one 12-meter net set above cave entrance and between road, plus one triple-high 6-meter net set over road past cave entrance.

<i>Eptesicus fuscus</i> , big brown bat	3 (1 female (nr), 2 males (1s, 1nr))
<i>Lasiurus borealis</i> , red bat	2 (1 female (nr), 1 male)
<i>Myotis leibii</i> , eastern small-footed myotis	1 female (nr)
<i>Myotis septentrionalis</i> , northern myotis	2 females (1pl, 1nr)
<i>Pipistrellus subflavus</i> , eastern pipistrelle	2 (1 female (nr), 1 male)
Total species =	5
Total individuals =	10

Location #2: MACA. Long Cave. Start Time: 1910 End Time: 2200. Start Temp: N/A End Temp: N/A

Site #1: One harp trap set at cave entrance with nets extending out in either direction (see Site #2).

Total species =	0
Total individuals =	0

Site #2: One 6-meter net, two 9-meter nets and one 12-meter net strung end to end on either side of harp trap (listed above) directly in front of cave entrance.

<i>Eptesicus fuscus</i> , big brown bat	4 (2 females (1pl, 1nr), 2 males)
<i>Lasiurus borealis</i> , red bat	1 male (s)
<i>Myotis grisescens</i> , gray myotis	1 female (nr)
<i>Myotis septentrionalis</i> , northern myotis	4 (1 female (pl), 3 males)
<i>Myotis sodalis</i> , Indiana myotis	2 males
Total species =	5
Total individuals =	12
<b>Grand Total Species =</b>	<b>8</b>
<b>Grand Total Individuals =</b>	<b>36</b>

Day 04: 20 August 2006

Location #1: MACA. Echo River Springs. Start Time: 1910 End Time: 2300. Start Temp: 24.9°C End Temp: 23.6°C

Site #1: Two harp traps set over water at spring and one triple-high 9-meter net set downstream over large pool.

<i>Lasiurus borealis</i> , red bat	5 (3 females (nr), 2 unknown)
<i>Myotis septentrionalis</i> , northern myotis	1 female (nr)
<i>Nycticeius humeralis</i> , evening bat	2 males
<i>Pipistrellus subflavus</i> , eastern pipistrelle	2 males (1s, 1nr)
Total species =	4
Total individuals =	10

Site #2: Seven 12-meter nets strung end to end along steep embankment leading down to Echo River Springs.

<i>Corynorhinus rafinesquii</i> , Rafinesque's big-eared bat	1 male (j-nr)
<i>Lasiurus borealis</i> , red bat	10 (4 females (1nr, 3j-nr), 4 males (2nr, 2j-nr), 2u)
<i>Myotis septentrionalis</i> , northern myotis	5 males (nr)
<i>Pipistrellus subflavus</i> , eastern pipistrelle	2 males
Total species =	4
Total individuals =	18
<b>Grand Total Species =</b>	<b>5</b>
<b>Grand Total Individuals =</b>	<b>28</b>

**Summary of Capture Results – Session I: 16 - 21 August 2006**

Four 2.6-meter mist nets, Six 6-meter mist nets, Seven 9-meter mist nets, Thirteen 12-meter mist nets,  
Four triple-high 6-meter mist nets, Three triple-high 9-meter mist nets, and Eight harp traps  
(Total net/hrs = 78)

<i>Corynorhinus rafinesquii</i> , Rafinesque's big-eared bat		3 males
<i>Eptesicus fuscus</i> , big brown bat		19 (7 f (2pl, 4nr, 1j-nr), 11 m (2s, 9nr), 1 u)
<i>Lasiurus borealis</i> , red bat		35 (15 f (10nr, 5j-nr), 14 m (6s, 4nr, 2j-nr), 6 u)
<i>Myotis grisescens</i> , gray myotis		93 (40 f (1pl, 29nr, 10j-nr), 51 m (1s, 41nr, 9j-nr), 2 u)
<i>Myotis leibii</i> , eastern small-footed myotis		1 female (nr)
<i>Myotis lucifugus</i> , little brown myotis		5 (4 m, 1 u)
<i>Myotis septentrionalis</i> , northern myotis		47 (25 f (11pl, 11nr, 2j-nr, 1u), 20 m (nr), 2 u)
<i>Myotis sodalis</i> , Indiana myotis		4 m (nr)
<i>Nycticeius humeralis</i> , evening bat		2 m (nr)
<i>Pipistrellus subflavus</i> , eastern pipistrelle		28 (7 f (6nr, 1j-nr), 21 m (2s, 16nr, 1j-s, 2j-nr))
<b>Total Species</b>	<b>=</b>	<b>10</b>
<b>Total Individuals</b>	<b>=</b>	<b>237</b>

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f = female, m = male, a = adult, j = juvenile

p = pregnant, l = lactating, pl = post-lactating, nr = non-reproductive, s = scrotal, u = unknown  
unless otherwise noted, all bats are assumed adult and males are assumed to be non-reproductive