

**BCI Bat Conservation and Management Workshop**  
**Carter Caves State Resort Park, Carter County KY**  
 September 19-24, 2000  
 Summary of Capture Data

J.Tyburec/BCI

Pre-Course: 19 September 2000  
 Location #1: Picnic shelter near Smoky Valley Lake

|   |   |  |            |
|---|---|--|------------|
| <i>Myotis lucifugus</i> , little brown myotis |   |  | 2 male (a) |
| Total species                                 | = |  | 1          |
| Total individuals                             | = |  | 2          |

Day 01: 20 September 2000 – Start Time: 20:00; End Time: 22:30 – Start Temp: 69F; End Temp: 64F  
 (Severe, fast-moving thunderstorm developing by 22:30)

Location #1: CCSRP, Cave Branch Creek near Laurel Cave entrance and downstream to park entrance.  
 Site #1: One 18-foot mist net under bridge to Laurel Cave, one 18-foot mist net over small shallow pool in stream about 50-yards downstream, and one 18-foot mist net over small deep pool between vegetation about 25-yards downstream.

|                                    |   |  |            |
|------------------------------------|---|--|------------|
| <i>Lasiurus borealis</i> , red bat |   |  | 1 male (a) |
| Total species                      | = |  | 1          |
| Total individuals                  | = |  | 1          |

Site #2: CCSRP, Cave Branch Creek about 1/4-mile downstream from Laurel Cave entrance. One large Ausbat Harp Trap set over water, between and under vegetation in creek.

|   |   |  |             |
|---|---|--|-------------|
| <i>Lasiurus borealis</i> , red bat                  |   |  | 2 males (a) |
| <i>Pipistrellus subflavus</i> , eastern pipistrelle |   |  | 2 males (a) |
| Total species                                       | = |  | 2           |
| Total individuals                                   | = |  | 4           |

Site #3: CCSRP, Cave Branch Creek, just downstream from Site #2. One 8-foot and one 18-foot mist net set over small pools (8' wide x 20' long) in creek.

|  |   |  |            |
|--|---|--|------------|
| <i>Myotis septentrionalis</i> , northern long-eared myotis |   |  | 1 male (a) |
| Total species  | = |  | 1          |
| Total individuals  | = |  | 1          |

Site #4: CCSRP, Cave Branch Creek, downstream from Site #3. One 18-foot mist net over 15' x 20' pool in creek, one 42-foot mist net over 18' x 40' pool in creek further downstream, and one 18-foot mist net over water further downstream.

|   |          |  |             |
|---|----------|--|-------------|
| <i>Eptesicus fuscus</i> , big brown bat             |          |  | 1 male (a)  |
| <i>Pipistrellus subflavus</i> , eastern pipistrelle |          |  | 1 male (sa) |
| Total species                                       | =        |  | 2           |
| Total individuals                                   | =        |  | 2           |
| <b>GRAND TOTAL SPECIES</b>                          | <b>=</b> |  | <b>4</b>    |
| <b>GRAND TOTAL INDIVIDUALS</b>                      | <b>=</b> |  | <b>8</b>    |

Day 02: 21 September 2000 – Start Time: 19:30; End Time: 22:15 – Start Temp: 63F; End Temp: 52F  
 (Clear skies, no wind.)

Location #1: CCSRP, Horn Hollow, Upper Entrance to Laurel Cave.  
 Site #1: One 18-foot mist net near entrance to cave.

|  |   |  |                           |
|--|---|--|---------------------------|
| <i>Myotis lucifugus</i> , little brown myotis              |   |  | 3 males (a)               |
| <i>Myotis septentrionalis</i> , northern long-eared myotis |   |  | 2 (1 male (a), 1 unknown) |
| <i>Pipistrellus subflavus</i> , eastern pipistrelle        |   |  | 1 male                    |
| Total species  | = |  | 3                         |
| Total individuals  | = |  | 6                         |

Site #2: One 18-foot and one 30-foot mist net set in a "v" formation over creek upstream from cave entrance, between and under vegetation.

|                                    |   |  |            |
|------------------------------------|---|--|------------|
| <i>Lasiurus borealis</i> , red bat |   |  | 1 male (a) |
| Total species                      | = |  | 1          |
| Total individuals                  | = |  | 1          |

**a = adult, sa = sub-adult, j = juvenile, nr = non-reproductive, pl = post lactating**  
**unless otherwise noted, assume all bats are adult/non-reproductive**

Location #2: CCSRP, Horn Hollow, Upper Entrance to Horn Hollow Cave  
 Site #1: One 18-foot mist net set near entrance to cave.  
*Myotis lucifugus*, little brown myotis 2 (1 male (a), 1 female (a))  
 Total species = 1  
 Total individuals = 2

Site #2: Two 18-foot mist nets set upstream from cave entrance, one over water in creek, one over trail beside creek.  
*Pipistrellus subflavus*, eastern pipistrelle 1 male (a)  
 Total species = 1  
 Total individuals = 1

Location #3: CCSRP, Horn Hollow, Lower Entrance to Horn Hollow Cave  
 Site #1: One large Ausbat Harp Trap set in front of cave entrance, one 30-foot mist net set near cave entrance, and one 18-foot mist net set downstream from cave entrance over small pool in creek.  
*Myotis sodalis*, Indiana myotis 1 male (a) — trap caught  
 Total species = 1  
 Total individuals = 1  
**GRAND TOTAL SPECIES= 5**  
**GRAND TOTAL INDIVIDUALS = 11**

Day 03: 22 September 2000 – Cloudy with rain, then clearing by end of evening.  
 Location #1: CCSRP, Lower entrance to Bat Cave near Natural Bridge – Start Time: 19:45; End Time: 23:00 – Start Temp: 64F; End Temp: 59F  
 Site #1: One 18-foot mist net set over water in creek near downstream end of Natural Bridge (removed at 20:15 after brief heavy downpour), one 30-foot mist net set at downstream end of Natural Bridge (no bats caught in this net), and one 18-foot mist net set near gated entrance to Bat Cave.  
*Myotis lucifugus*, little brown myotis 7 (6 males (3a, 3j), 1 unknown)  
*Myotis sodalis*, Indiana myotis 55 (50 males (44a, 6j), 4 females (3a, 1j), 1 unknown)  
*Pipistrellus subflavus*, eastern pipistrelle 2 females, a (1nr, 1pl)  
 Total species = 3  
 Total individuals = 64

Location #2: CCSRP, Forest and trail sites near upper entrance to Bat Cave – Start Time: 20:00; End Time: 22:30 – Start Temp: 67F; End Temp: 63F  
 Site #1: Three 18-foot mist nets set along road corridor leading from maintenance shed to Bat Cave. One net right at forest entrance, other two nets over small puddles formed by road ruts. (All but one *Myotis septentrionalis* (m) caught in a single net over puddle furthest from maintenance shed.)  
*Lasiurus borealis*, red bat 1 female (a)  
*Myotis septentrionalis*, northern long-eared myotis 3 (2 males (a), 1 female (a))  
*Myotis sodalis*, Indiana myotis 1 male (a)  
 Total species = 3  
 Total individuals = 5

Site #2: One large Ausbat Harp Trap and one 18-foot mist net set along horse trail on either side of path leading to upper entrance of Bat Cave. One 8-foot mist net set at end of path, between trees flanking entrance to Bat Cave. (All bats were caught in 8-foot net.)  
*Myotis lucifugus*, little brown myotis 3 males (2a, 1unk)  
*Myotis sodalis*, Indiana myotis 5 males (a)  
 Total species = 2  
 Total individuals = 8  
**GRAND TOTAL SPECIES= 5**  
**GRAND TOTAL INDIVIDUALS = 77**

Day 04: 23 September 2000 – Cloudy and humid, turning rainy by end of evening.  
 Location #1: CCSRP, Upper entrance of Cascade Cave – Start Time: 19:30; End Time: 20:30 – Start Temp: 71F; End Temp: 70F  
 Site #1: One 30-foot mist net set at entrance and two 18-foot "double high" nets set just outside entrance.  
*Myotis lucifugus*, little brown myotis 1 male (a)  
*Myotis sodalis*, Indiana myotis 9 (8 males (a), 1 unknown)  
 Total species = 2  
 Total individuals = 10

Location #2: CCSRP, Lower entrance to Laurel Cave – Start Time: 19:45; End Time 22:00 – Start Temp:  
**a = adult, sa = sub-adult, j = juvenile, nr = non-reproductive, pl = post lactating**  
**unless otherwise noted, assume all bats are adult/non-reproductive**

unknown; End Temp: unknown. (Conditions damp with condensation on net.)

Site #1: One 30-foot mist net set within entrance to laurel, blocking off about 3/4ths of flyway.

|   |                                  |  |
|---|----------------------------------|--|
| <i>Eptesicus fuscus</i> , big brown bat             |                                  | 1 female (a, nr)                           |
| <i>Myotis sodalis</i> , Indiana myotis              |                                  | 16 (14 males (13a, 1j), 2 females (a, nr)) |
| <i>Pipistrellus subflavus</i> , eastern pipistrelle |                                  | 2 (1 male (a), 1 female (a, nr))           |
|   | Total species =                  | 3  |
|   | Total individuals =              | 19   |
|   | <b>GRAND TOTAL SPECIES =</b>     | <b>3</b>                                   |
|   | <b>GRAND TOTAL INDIVIDUALS =</b> | <b>29</b>                                  |

**Summary of Capture Results: September 20 thru 23, 2000**

**2 Eight-foot Mist Nets, 20 Eighteen-foot Mist Nets, 5 Thirty-foot Mist Nets, 1 Forty-two-foot Mist Net and 3 Large AusBat Harp Traps  
(74.5 net/trap-hours total)**

|  |                            |   |
|--|----------------------------|---|
| <i>Eptesicus fuscus</i> , big brown bat                    |                            | 2 (1 male, 1 female)                                |
| <i>Lasiurus borealis</i> , eastern red bat                 |                            | 5 (4 males, 1 female)                               |
| <i>Myotis lucifugus</i> , little brown myotis              |                            | 16 (14 males (10a, 3j, 1unk.), 1 female, 1 unknown) |
| <i>Myotis septentrionalis</i> , northern long-eared myotis |                            | 6 (4 males, 1 female, 1 unknown)                    |
| <i>Myotis sodalis</i> , Indiana myotis                     |                            | 87 (79 males (72a, 7j), 6 females, 2 unknown)       |
| <i>Pipistrellus subflavus</i> , eastern pipistrelle        |                            | 9 (6 males (5a, 1sa), 3 females (2nr, 1pl))         |
|  | <b>Total species =</b>     | <b>6</b>  |
|  | <b>Total individuals =</b> | <b>125</b>  |

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unless otherwise noted, assume all bats are adult/non-reproductive**