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Photo: A. Kniowski

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16. Abstract

The Indiana bat (*Myotis sodalis*) is a tree roosting species found throughout the eastern United States that is federally listed as endangered by the U.S. Fish and Wildlife Service. A more detailed understanding of summer roosting and foraging habitat for Indiana bats is needed for effective conservation and management. The objectives of this research included identifying and describing aspects of the summer ecology of this species, especially selection of tree roosts and foraging habitat in the Big Darby Creek area in Ohio. During the 2008–2010 seasons, we captured 55 Indiana bats and radiotracked 51 individuals.

We tracked bats to 56 roost trees 474 times (bat roost days). Roosts were largely clustered in riparian woodland habitat along the Big Darby Creek. Roost trees were of 11 different species but two of the trees could not be identified. Eight of the trees were alive, two were declining, and the rest were dead or in a greater stage of decay. Roost trees were found relatively close to water, and tended to be dead or decaying, a high percentage of loose bark, and a dominant canopy class, when compared to other available trees. We calculated 33 home ranges. Average home range size was 210.5 ± 130.6 SD ha (0.84 ± 0.52 SD mi^2) for fixed kernel and 374.2 ± 359.6 SD ha (1.49 ± 1.44 SD mi^2) for minimum convex polygon. Bats selected for woodland and water habitats, and avoided cropland at multiple spatial scales. Although most foraging flights occurred within the riparian corridor, bats also moved outside the corridor to upland areas.

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Introduction

The Indiana bat (*Myotis sodalis*) is a small (7-10g), tree roosting species found throughout the eastern United States. Winter roosts of this bat are in caves and abandoned mines (U.S. Fish and Wildlife Service 2007), whereas summer roosts are reported in floodplain forest (Humphrey et al. 1977), upland woods (Gardner et al. 1991), wetlands (Kurta et al. 1996), and pasture (Kurta et al. 1993). Declining populations led to the Indiana bat being listed as endangered on 11 March 1967 by the U.S. Fish and Wildlife Service. A management priority since 1967 has been protection of hibernacula (U.S. Fish and Wildlife Service 2007). However, protection of hibernacula has not stopped the decline in the number of Indiana bats. Survey data show a range-wide decrease of about 300,000 bats since 1980 (Clawson 2002).

Although their major hibernacula are protected, foraging and roosting habitat of the Indiana bat continue to be altered by stream channelization, urban sprawl, and conversion of forests to agricultural land (Kurta and Kennedy 2002). A more detailed understanding of summer roosting and foraging habitat for Indiana bats is needed for effective conservation and management.

Prior to our study, pregnant and/or lactating female Indiana bats were recorded from 11 sites in Ohio (U.S. Fish and Wildlife Service, unpublished data), but information on maternity roost trees was quite limited. The first maternity colony of Indiana bats in Ohio was discovered in a dead tree in 1996 in Warren County (Belwood 2002). This tree was in a residential subdivision and was not known to support a maternity colony of bats until it was cut down to prevent falling on a nearby house. During summer 2006, six lactating female Indiana bats were captured along the Big Darby Creek in Pickaway County, Ohio. The discovery of a potential Indiana bat maternity colony in central Ohio provides an excellent opportunity to collect information on the bats' summer habitat requirements and ecology in an agriculturally-dominated landscape.

Information on the summer habitat requirements of Indiana bats in an agriculturally-dominated landscape is essential to conservation of this species in the Midwest. Indiana bat females and their young typically roost under loose bark of dead, dying, or living trees (Cope et al. 1974) but will also use crevices and cavities (Kurta et al. 1993). Previous studies in the Midwest showed that Indiana bats select large-diameter living and dead trees with loose or exfoliating bark for roosting and that exposure to sunlight is an important characteristic influencing roost suitability (Humphrey et al. 1977, Kurta et al. 1993). Indiana bats have been documented foraging in forested riparian areas in Indiana, Missouri, and Kentucky (LaVal and LaVal 1980, Kessler et al. 1981, Brack 1983) however, habitat selection during foraging flights is poorly understood. The use and importance of forested riparian areas in Ohio as Indiana bat roosting and foraging habitat has not been adequately studied. Likewise, little is known about adult and juvenile Indiana bat reproductive, survival, and return rates.

Statement of the Problem

The Indiana bat is a federally endangered species that is present (or potentially present) within all 88 Ohio Counties. ODOT's roadway program is associated with several activities that result in impacts to the bat. In accordance with the Endangered Species Act of 1973, federal agencies are required "to insure that any action authorized, funded, or carried out by such agency is not likely to jeopardize the continued existence of any endangered or threatened species or result in the destruction or adverse modification of any habitat of such species determined to be critical unless an exemption has been granted." As a result, ODOT (often acting on FHWA's behalf and using federal funds) must plan and implement its program in a manner that avoids or minimizes impacts to the Indiana bat. To accomplish this goal, ODOT, FHWA, and the USFWS have established a streamlined and predictable programmatic consultation process for assessing and minimizing ODOT's potential impact to the Indiana bat. Two key components of the programmatic consultation are;

- to establish actions that ODOT will undertake to avoid, minimize, and mitigate impacts to the bat, and
- to establish actions that ODOT will take to contribute toward the recovery of the species.

The current study focuses on the summer ecology of the Indiana bat within the Big Darby watershed, which provides an important initial step in addressing both of these components of the programmatic consultation agreement. An overall goal of the study is to provide information on those aspects of the behavioral ecology of the Indiana bat that are most relevant for the conservation and recovery of the species, especially those that address ODOT's commitment to complying with the Endangered Species Act while implementing its roadway construction and maintenance program. The more information that is learned about the Indiana bat and its behavior in Ohio, the more effective ODOT will be in planning projects and avoiding impacts to the bat on a project specific and statewide level.

Objectives of the Study

1). Determine characteristics of trees used by Indiana bats for roosting and rearing of offspring.

2). Determine characteristics of patches of habitat surrounding roost trees to identify habitats that are ecologically important for conservation of Indiana bats.

3). Determine characteristics of foraging habitats used by Indiana bats during the summer.

4). Determine the proportion of females that return to the same maternity colony area among successive years.

5). Determine the summer and annual survival rates of adult and juvenile bats.

6). Determine the proportion of adult females that give birth each year.

7). Determine the return rates of juvenile bats to the maternity roosting area from one year to the next.

Methods

Study Area

We carried out our study along Big Darby Creek in Pickaway County, Ohio USA approximately 35 km (21.7 mi) south of the city of Columbus (Figure 1), and 18 km (1.1 mi) from the confluence of the Big Darby Creek and Scioto River. Big Darby Creek is typically 14 m (46 ft) wide and up to 2 m (6.5 ft) deep through the study area. Riparian woodland occurs in a band between 10–150 m (33–492 ft) wide on either side of the stream. Row-crop agriculture heavily dominates the study area; scattered trees line the occasional field edge and upland forested areas are limited to small, widely scattered woodlots, small creek banks, and steep topographic features. Small clumps of residential areas are present in limited fashion, scattered about with small urban centers of grain elevators and gravel pits in typical Midwestern style. Here, Big Darby Creek provides a brief change from the typical mosaic. Its tree-lined banks and floodplain provide a corridor of sorts—although sometimes thin and by no means straight. We found floodplain and lowland forest communities composed primarily of Common Hackberry (*Celtis occidentalis*), Box Elder (*Acer negundo*), Silver Maple (*Acer saccharinum*), American Elm (*Ulmus americana*) while Sugar Maple (*Acer saccharum*), White Ash (*Fraxinus americana*), Common Hackberry, and Shagbark Hickory (*Carya ovata*) were prevalent in upland areas.

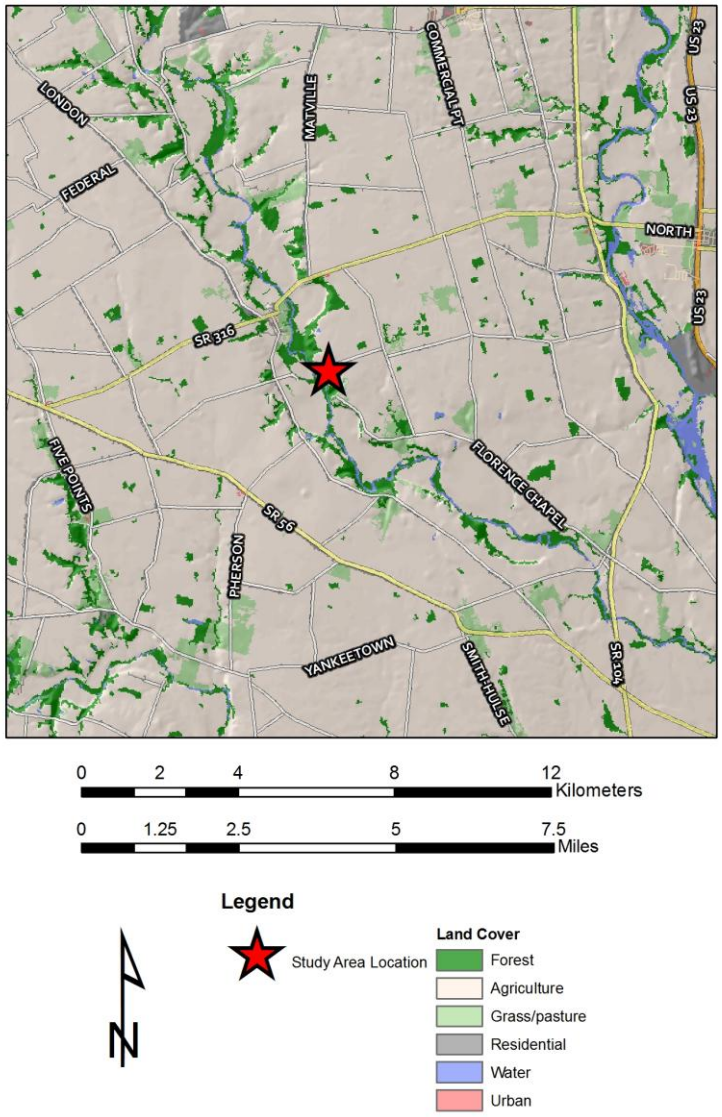

Figure 1. Landcover map of the Big Darby watershed and the location of field work.

Field Sampling

We established 21 netting sites along Big Darby Creek (Figure 2). The sites were scattered along a 14 km (8.68 mi) section of the creek bounded in the north by state route 316 and in the south by state route 104. We captured bats using 4-tier mist nets (38 mm [1.5 in], mesh), 6–12 m (19.7–39.4 ft) in length and up to 8 m (26 ft) in height, placed across access roads, trails, or dry channels adjacent to the creek (Gardner et al. 1989; Figure 3). Nets were occasionally placed directly across the creek, or some distance from it as conditions allowed. All sites were located on private property. Nets were opened around sunset and monitored at approximately 10 minute intervals until 12-1 AM.

For each captured bat, we identified the species and recorded sex, reproductive condition, and age (adult or juvenile) using standard techniques (Kurta et al. 1996). We attached lightweight radio transmitters (0.36 g, [0.0126 oz] LB-2N, Holohil Systems Ltd., Carp, Ontario, Canada) to the backs of captured Indiana Bats with surgical cement (Perma-Type, The Permatype Company Inc., Plainvillle, Connecticut, USA) or eyelash adhesive (LashGrip, A.I.I., Los Angeles, CA, USA). Often, a small patch of hair was trimmed be before placement of the transmitter. Bats received lipped metal bands (2.4 mm [0.1 in], Porzana Ltd., East Sussex, UK) and released at the capture site within a few minutes following capture (Figure 4).

We used handheld three element yagi antennas and Advanced Telemetry Systems telemetry receivers (R2000, R4000, Isanti, Minnesota, USA) to locate radio-tagged bats during the day. Bats were located every day until the transmitter detached or could no longer be located. We recorded the location of each day roost using a hand-held GPS unit. Throughout the season and according to their use and logistical considerations, emergence counts were conducted on roost trees. Trees were watched beginning at dusk and the bats leaving the tree were counted until five minutes after the last bat emerged or until it was too dark to see.

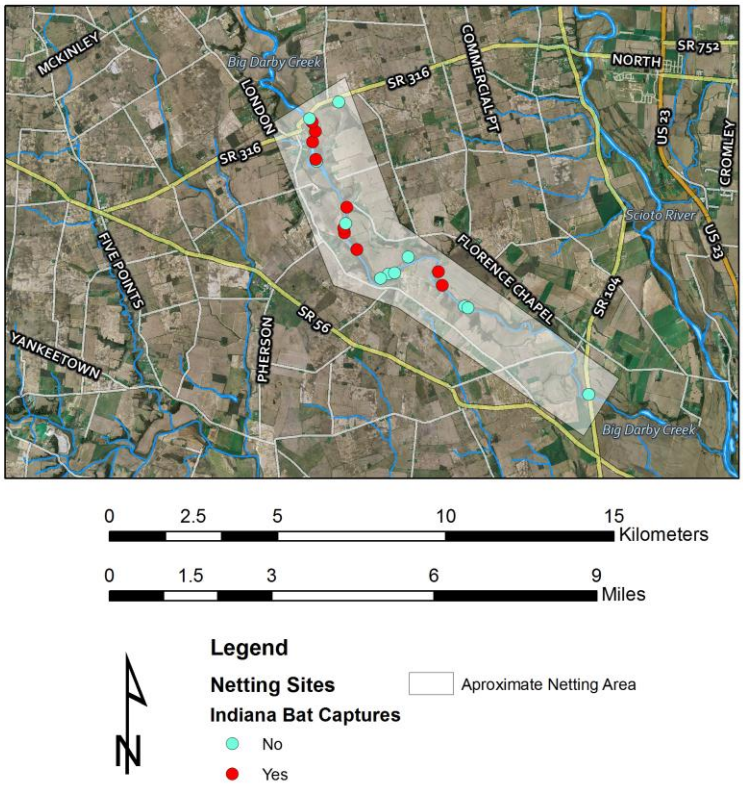

Figure 2. Locations of mist-netting for Indiana bats, 2008–2010.

Figure 3. Setting up a mist net in the Big Darby study area.
Image by A. Kniowski

Figure 4. Indiana bat with band (left), and a radiotransmitter (right) prior to release.
Images by A. Kniowski

Roost Data Analysis

We recorded characteristics of roost trees (Figure 5) including height, species, diameter at breast height (DBH), decay state, canopy class, a visual estimate of the percent bark remaining, the presence of possible roosting locations (loose bark, cavity, or split), and canopy cover in four directions (north, south, east, and west) from the base of the tree with a concave densiometer. Decay state followed Hunter (1990, pg. 159), with seven categories: 1 = live, 2 = declining, 3 = dead, 4 = loose bark, 5 = clean, 6 = broken, 7 = decomposed. 'Live' refers to a live tree, 'declining' refers to a live tree with some limb loss, 'dead' refers to a dead tree with bark and twigs retained, 'loose bark' refers to a dead tree with few twigs remaining, some limb loss, but bark is retained but loose, 'clean' refers to a dead tree with substantial limb loss and little bark remaining, 'broken' refers to a dead tree that has broken into a snag with no bark retained, and 'decomposed' refers to a stump. We placed each tree into one of four canopy class categories: 1 = emergent, 2 = dominant, 3 = mid-story, 4 = suppressed, following Oliver and Larson (1996, pg. 154). Emergent refers to trees occupying the highest stratum in the overstory and appear to 'emerge' above the dominant overstory; dominant refers to trees also in the overstory and often forms the upper continuous canopy, mid-story refers to trees occupying the upper parts of the understory, and suppressed refers to trees occupying the lower level of the understory and are typically inhibited by shade from the dominants. To evaluate the patch of habitat surrounding the roost trees, we recorded the same characteristics, with the exception of height and canopy cover, for all trees > 10 cm (4.0 in) DBH within a 0.1 ha (0.25 acre) circular plot centered on each roost tree. All vegetation measurements were recorded during the year of first discovery of the roost location.

Figure 5. Measuring roost tree characteristics. Image by A. Kniowski

We classified each roost tree as primary or secondary based on its observed use as a day roost by Indiana bats. Trees classified as primary met one or both of the following criteria: more than 30 bats emerged from the tree at dusk in a single night, or the tree accounted for > 5% of the total bat roost days (one bat, tracked to a roost one day = one bat roost day) recorded during the study. The remaining roost trees were classified as secondary. Comparison between primary and secondary roosts was made using a multi-response permutation procedure (MRPP, Mielke 2001). This procedure is similar in function to a MANOVA test but is based on nonparametric randomization techniques and is appropriate for data where parametric distributional assumptions are not met. In all cases in this study we used Sørensen distance as the MRPP distance measure. We made multiple comparisons between individual variables using Mann-Whitney U tests. P-values were adjusted for false discovery rate according to Benjamini and Hochberg's (1995) procedures.

Roost trees were compared to non-roost/available trees in the following manner. All roost trees were > 21 cm (8.4 in) DBH, were classified as canopy class 3 or higher, and (with the exception of one tree) had at least one visually identified roost type present. We compared roost trees to all other trees within the plots that met the minimum characteristics defined above. To avoid pseudoreplication where plots overlapped, we removed plot data from the dataset such that the total number of plots was maximized, the plot of the most used (bat roost days) tree was selected, or randomly if they were otherwise equal. We statistically compared roost to available trees with an MRPP followed by Mann-Whitney U tests adjusted for false discovery rate among multiple comparisons (Benjamini and Hochberg 1995).

The orientation of roost trees with respect to the surrounding landscape was evaluated at two spatial scales by comparing the distance of roost trees and random points to different habitat types and edge where edge was defined as the line between any two different habitat types. We buffered all roost trees at two distances (described below) and generated 100 random points within these areas using R (R Development Core Team 2010) and the package *spsurvey* (Kincaid 2009). All roost trees with the exception of one were in areas of > 30% canopy cover as classified by 30 m × 30 m (98.4 ft × 98.4 ft) resolution National Land Cover Tree Canopy Layer data (Homer et al. 2004). We therefore restricted random points to areas with > 30% canopy cover.

To determine the reliability of the National Land Cover Tree Canopy Layer data, we compared canopy cover estimates from the GIS coverage to actual estimates for each roost tree. For 56 roost trees, mean canopy cover from the GIS coverage was 70.1 % (SD = 16.1) and 87.2% (SD = 13.9) for actual estimates. The regression between estimated and actual canopy cover was poor ($R = 0.13$, $F_{1,55} = 0.748$, $P = 0.33$), but this was likely affected by the inclusion of trees from a specific coverage type. More importantly, only one roost tree estimated by the GIS coverage to be >30 % canopy cover was actually only 27%. Given that we were only using the GIS estimates to identify locations for coarse-grained landscape analyses, we believed the National Land Cover data were reasonable.

We estimated distances outside the home range that bats could reach with moderate effort. To do so we calculated the distance from each radiolocation during foraging to the bat's nearest day roost. The distances were compiled for all bats and we chose 1200 m and 4000 m (0.75 and 2.5 mi) as values that approximated the 75th and 95th percentiles respectively. We buffered bat roost trees by these values to define available roosting habitat at two spatial scales.

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Study area habitat was classified from 30 m × 30 m (98.4 ft × 98.4 ft) resolution National Land Cover data (Homer et al. 2004). We reclassified available habitats into the following five basic types: cropland, forest, residential (including urban areas), grassland (including pasture), and open water. The data were converted from raster to vector data structure without simplification in ArcGIS. Euclidean distance from each roost tree and random points were calculated to cropland, residential, grassland, open water, and edge. Distance values were compared with MANOVA tests after the cropland, open water, and edge variables were transformed as $ln(x + 1)$ to meet normality assumptions. Post-hoc comparisons were made with t-tests corrected for false discovery rate (Benjamini and Hochberg 1995). All statistical tests

were performed in R (R Development Core Team 2010) with significance assumed where $\alpha \leq 0.05$.

Home Range/Habitat Selection Data Analysis

We also located bats at night during 2009–2010 to determine foraging habitat use and habitat selection at multiple spatial scales. While bats were active during the night, we estimated their location using triangulation with two or three bearings from known locations. Handheld three or four element yagi antennas and Advanced Telemetry Systems telemetry receivers (R2000, R4000, Isanti, Minnesota, USA) were used to determine a bat's most likely bearing from a given location. We recorded synchronized bearings every two or more minutes and alternated between bats active in a given area such that time intervals between bearings on any given bat were three or more minutes apart. Bats were followed from the time they emerged in the evening until all bats in the tracking area roosted for a significant amount of time or until early morning. Because there were often numerous bats with transmitters at any given time, we chose priority bats each night based on the age of the transmitter and the amount of data previously collected.

We used LOCATEIII (Nams 2006) (maximum likelihood estimator (>2 bearings/location) and bi-angulation (2 bearings/location)) to estimate locations during the night and estimate location error. Locations with error ellipses > 300,000 m^2 (74.1 acres) were eliminated. Bearing standard deviation and triangulation error (3 bearings/location, maximum likelihood estimator) were estimated in 2009 and 2010 by recording repeated bearings of fixed transmitters at a variety of distances throughout the study area (White and Garrott 1990). Additionally, location error was estimated by comparing estimated locations of roosted bats with the known roost location. We included day roost location as one point per day with the nocturnal tracking data for calculation of home range.

For those bats with > 50 locations (Leban et al. 2001; Seaman et al. 1999), we used fixed kernel method to calculate the bat's home range. This method has been shown to produce less bias and lower error than other methods (Seaman and Powell 1996). Likelihood cross-validation was employed to choose the smoothing parameter as it provides better fit and less variability than the widely used least squares cross-validation in computer simulations (Horne 2006). Smoothing values were calculated in ANIMAL SPACE USE (Horne and Garton 2009) and manually entered into the Home Range Tools extension for ArcGIS (Rodgers et al. 2007) for home range calculation. We compared differences in home range size between years using a Mann-Whitney U test. To allow easier comparison with other studies, we also used Home Range Tools for ArcGIS (Rodgers et al. 2007) to estimate home range size by calculating the minimum convex polygon that surrounds 95% of location points. Home ranges calculated by the fixed kernel method were used in all statistical analyses.

Study area habitat was classified from 30 m × 30 m (98.4 ft × 98.4 ft) resolution National Land Cover data (Homer et al. 2004). Because urban areas represented < 1% of the study area, we reclassified available habitats into the following five basic types: cropland, forest, residential (including urban areas), grassland (including pasture), and open water. The data were converted

from raster to vector data structure without simplification in ArcGIS for ease of use in later analyses.

We examined the habitat selection of Indiana bats at three spatial scales using a distance based analysis (Conner et al. 2003, Conner and Plowman 2001). By evaluating the average distance to each habitat type, this analysis method avoids habitat misclassification due to telemetry error and allows evaluation of surrounding habitat regardless of whether it is included within the home range (Conner et al. 2003). We desired to define available habitat at a scale relevant to the bats and our study and to examine differences in habitat selection that may be occurring at different scales (Johnson 1980). We observed that although some bats moved considerable distances from their day roost on a regular basis, most movements were restricted to much shorter distances. To estimate distances outside their home range bats could easily reach or could reach with moderate effort, we calculated the distance from each radiolocation during foraging to the bat's nearest day roost. The distances were compiled for all bats and values approximating the 75th and 95th percentiles were chosen. Bat home ranges were buffered by these values to define available habitat at two spatial scales and evaluated against the home range area as detailed below. Additionally, we evaluated habitat selection within the home range by comparing home range areas with the bat's location points.

Distance based habitat analyses were carried out similar to Conner and Plowman (2001). We evaluated placement of the home range within the landscape at two spatial scales by generating 1000 random points (independent random sample) in each home range and available habitat area (home range + buffer area) using R (R Development Core Team 2010) and a package by Kincaid (2009). Linear distance from each point to the nearest representation of each habitat type was calculated using the ArcGIS DISTANCE command. Habitat selection within the home range was evaluated in a similar manner by comparing 1000 random points within the home range to the bat's estimated locations. Ratios of the used versus available habitat distances were evaluated with MANOVA tests to determine the probability of differences between years, ages, and the use of habitats. To evaluate if habitats were used according to their abundance we used one-sample t-tests to determine if the ratio between used and available habitat differed significantly from 1. All habitats were compared pair-wise via paired t-tests to allow ranking of habitats. Data compilation and process automation was handled by R (R Development Core Team 2010) and PYTHON (version 2.5.1, http://www.python.org/). All statistical tests were performed in R (R Development Core Team 2010) with significance assumed where $\alpha \leq 0.05$.

General Results

We conducted mist-netting from June 17 to September 10 in 2008 (29 nights), April 23-September 22 in 2009 (33 nights), and April 20-September 10 in 2010 (36 nights). Overall, we captured bats 1,822 times, including individuals from 9 species (Table 1). Over half of all captures were *Myotis lucifugus*, and nearly 20% of captures were *Eptesicus fuscus*. Indiana bats comprised 3% of all captures.

Table 1. Total captures of bats 2008–2010.

	Total	
Species	**# Cap.**	**% of Total**
Myotis lucifugus	1092	59.93
Eptesicus fuscus	351	19.26
Lasiurus borealis	131	7.19
Myotis septentrionalis	109	5.98
Myotis sodalis	60	3.29
Perimyotis subflavus	42	2.31
Nycticeius humeralis	26	1.43
Lasiurus cinereus	6	0.33
Lasionycteris noctivagans	5	0.27

We captured 55 Indiana bats 60 times (including five recaptures) between July 17, 2008 and September 10, 2010. Most (70%) captures were of adults, and all adult captures were of females except for one adult male. Thirty percent of captures were juveniles (11F, 7M). Among adult females, 18 were captured while lactating, 6 were post-lactating, at least 4 were pregnant, 1 was not reproductive, and the reproductive status of the rest was unknown, but those captured in 2009 and recorded as unknown were likely in the early stages of pregnancy. All confirmed pregnant bats were captured in 2010, on May 26 and June 4. We recorded lactating bats from June 16 to July 24 (pooled across years). The earliest capture date for juvenile Indiana bats was July 12 in 2010 and July 14 in 2009.

Transmitter weight was equal to or less than the recommended 5% of body weight for the majority of bats (n = 35) (Aldridge and Brigham 1988). The remaining bats (n = 25) carried between 5 and 6% of their body weight with the exception of two juvenile bats on which we experimentally placed transmitters (6.2 and 6.9% of body weight) and four bats were released without transmitters. Transmitters remained attached to bats between 0 to 20 days (average = 8 days).

In 2009, the standard deviation of 221 bearings to fixed transmitters was 6.04°. Triangulation error to the fixed transmitters averaged 107 ± 94.8 standard deviation (SD) m (range 8–372 m, n = 39 [351 ± 312 ft) at distances ranging from 199 to 1,250 m (653–4100 ft) (average 667 m [2188 ft], n = 23). Bearing standard deviation to fixed transmitters in 2010 was 5.69° (n = 358). Triangulation error to the fixed transmitters was 73.9 ± 44.8 SD m (range 2–175 m, n = 53) (242 ± 147 ft, range 6.6–574 ft) and distances ranged from 128 to 1,256 m (average 648 m, n = 12) (420–4120 ft, average 2125 ft). Average error of bi-angulation estimates of roosted bats was 285 ± 302 SD m (range 45–845 m, n = 8) (935 ± 991 SD ft, range 148–2772 ft); maximum likelihood estimates averaged 149 ± 122 SD m (range 5–436 m, n = 42) (489 ± 400 SD ft; range 16–1430 ft).

Mist-netting data and roost emergence data indicated that the Indiana bats begin arriving in the summer roosting area during April, and continue until sometime in September. The

earliest date an Indiana bat was captured in the study area was April 21 (in 2010), and bats were observed emerging from a roost in April 29 (2010). The latest date for a capture of an Indiana bat was September 3 (in 2008), and the terminal date for roost emergence was September 11 in 2008, September 16 in 2009, and September 13 in 2010.

Figure 6. View of the hind foot and calcar of *M. lucifugus* (top) and *M. sodalis* (bottom). Images by A. Kniowski

Objective 1). Determine characteristics of trees used by Indiana bats for roosting and rearing of offspring.

We tracked the bats to 56 roost trees 474 times (bat roost days). Each bat was tracked to its day roost for an average of 8 days (range 0 to 20 days) including four bats that were never tracked to a roost. On average, bats switched roost trees twice while their transmitter was attached or about every 4 days. Sixteen days was the longest consecutive use of a tree we documented, but thirteen bats did not switch roosts while their transmitter was attached.

Roosts were largely clustered in riparian woodland habitat along the Big Darby Creek (Figure 7), with a majority of the most-commonly used trees located within a smaller section of the creek (Figure 8). Roost trees were of 11 different species but two of the trees could not be identified. Eight of the trees were alive, two were declining, and the rest were dead or in a greater stage of decay. All roost trees, with the exception of one live Cottonwood (*Populus deltoides*), had at least one visually identified possible roost location. We conducted 93 emergence counts throughout the study. Maximum observed emergence was 109 bats but average emergence was 22 bats including all counts, or 34 bats excluding zero counts. Six trees were classified primary roost trees. The remaining 50 trees were classified as secondary. Table 2 provides a summary of roost and plot tree characteristics.

Our radiotelemetry data and emergence data clearly illustrate substantial variation in use by bats among the roosts. For example, we recorded 34 of the 51 radio-tagged bats using Tree #6 at least once, for a total of 177 roost days over 2 years. In years 2009 and 2010, this roost consistently had the highest emergence counts among roosts, with a high of 97 on June 16 2009 and a high of 109 on May 19 2010. Other primary roosts were typically used by 3-4 radio-tagged bats and maximum emergence counts usually ranged between 40 and 60. Secondary roosts received relatively little use by the population as a group, although an individual bat may have used these roosts occasionally (total roost days ranged from 1 to 21 for secondary roosts). There was also some evidence that young may have been reared in some secondary roosts, although this was difficult to confirm. It is also notable that all roosts, even primary roosts, received variable amounts of use during the summer, with periods of no use by bats.

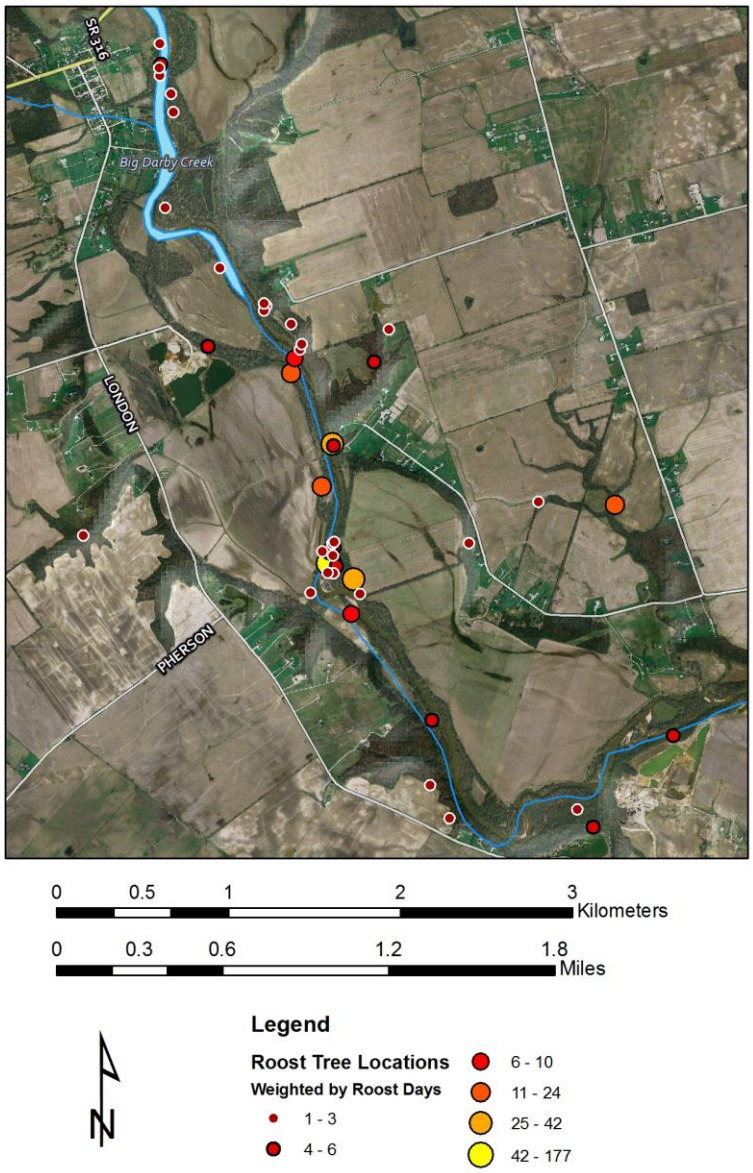

Figure 7. Roost site locations for Big Darby, 2008-2010.

There was a significant difference between physical characteristics of primary and secondary roost trees ($A = 0.032$, $\delta = 0.164$, $P = 0.013$). However, post-hoc analysis failed to show significant difference between primary and secondary roosts in regard to any one variable (DBH, canopy class, percent bark remaining, decay state, height, or average canopy cover; $P > 0.1$ in all cases). The lack of significant differences among univariate characteristics may be a result of a small sample of primary roosts. As a group, primary roost trees tended to be a large dbh (34-62 cm dbh/13-24 in dbh), with 90-95% bark remaining, 76-97% canopy cover, and all primary roosts had an advanced decay state (level 4) (Appendix 3). However, individual characteristics of primary roost trees were within the range observed for secondary roost trees (Figure 9). All primary roost trees were *Ulmus Americana*.

Roost tree #6 received the greatest amount of use by bats as indicated by telemetry data and exit data. This tree was at the larger end of the range of roost trees, but still within the range for either primary or secondary roost trees. It had a 61 cm (24 in) DBH, 24 m (79 ft) in height, 90% bark remaining, and a decay class 4 (Appendix 3).

All primary roosts and many secondary roosts were associated with loose bark, and roosting beneath bark appears the most common roost type in other studies as well (Britzke et al. 2006; Kurta et al. 2002).

We were concerned that our method of identifying primary and secondary roosts might have obfuscated potential relationships between roost structure and bat use. Because of the important practical implications of this aspect of the research, we used an alternative analytical approach, in which we did not classify primary or secondary roosts but rather used a regression approach using bat roost days as the dependent variable. The regression approach does not require a discreet classification (primary vs. secondary) of roost type. We used a stepwise regression strategy, with the following independent variables: DBH, distance to water, distance to nearest roost tree, bark retention (arcsine transformed). We also created an interaction variable by multiplying DBH with proportion bark retention. We conducted two levels of analysis: one with untransformed bat roost data and another with *ln*-transformed bat roost days (because of the high number for roost #6). No variables or combination of variables were related to untransformed bat roost days, and for transformed bat roost days only DBH*bark approached significance ($r = 0.31$, $P = 0.02$; the family-wise error rate was 0.01). In other words, no single characteristic, or simple combinations of characteristics, is useful for predicting secondary versus primary roost use.

Roosting patterns by recaptured bats:

Of the five bats recaptured in different years, 4 were radiotracked to roosts in 2 different years (one was not radiotagged the first year it was captured). Bats 15442 and 15504 re-used a roost in both years: 15442 used roost #13 in 2009 and 2010, and 15504 used roost #6 in 2009 and 2010 (Table 3).

Interestingly, all 5 bats used roost #6 in at least one year, and in each of these cases they used the roost as much or more often than other roosts. For example, in 2009 bat 15504 used roost #6 five times and roost #34 five times, and in 2010 it used roost #6 four times and roost #35 once. The substantial use of roost #6 is also reflected by the communal use of these recaptured bats. For example, bats 13456, 8270, and 15504 were concurrently monitored during September 2009, and all three were found sharing roost #6 on September 3, 4, 5, and 6.

In addition to daytime roosting, we also documented nighttime roosting or resting sites. One site of interest was the use of the State Route 316 bridge by an Indiana bat as a nighttime roost in August 2008. There was evidence that other Indiana bats were using this bridge as a resting site as well, including additional bat species.

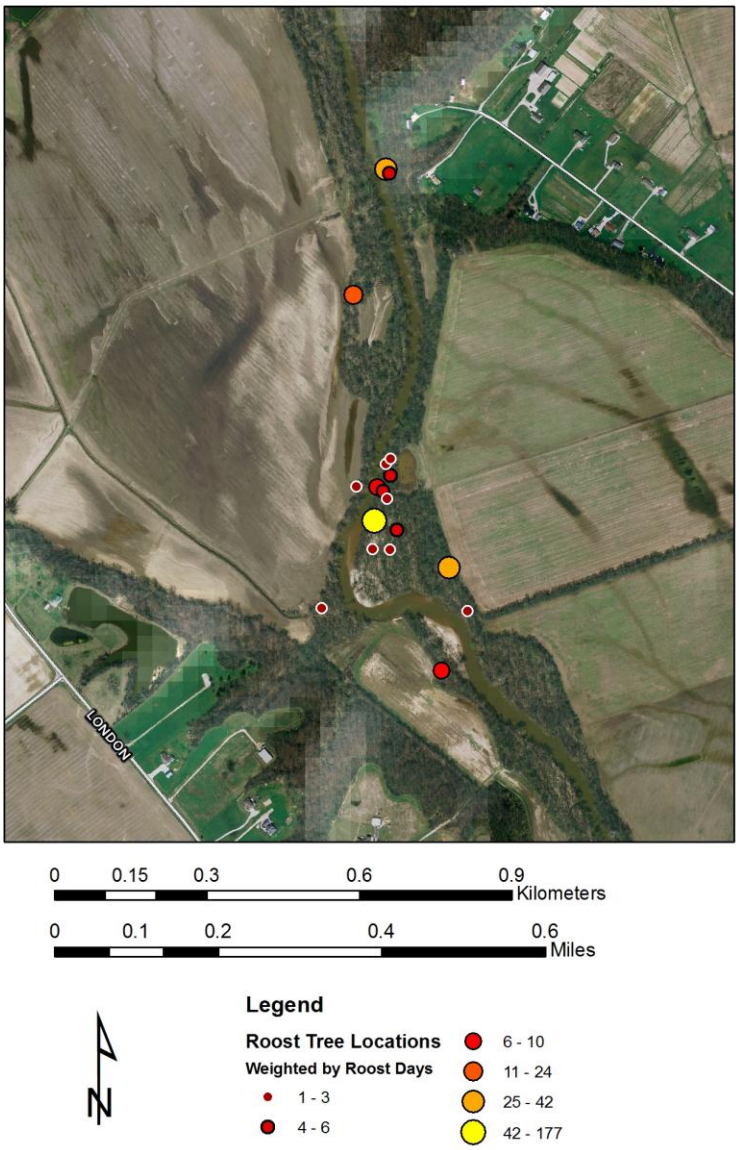

Figure 8. Distribution of roost sites and relative use by Indiana bats within the core of the study area on Big Darby Creek, 2008-2010.

Objective 2). Determine characteristics of patches of habitat surrounding roost trees to identify habitats that are ecologically important for conservation of Indiana bats.

Sixteen trees within the plots met the criteria for available roosting habitat. There was a significant difference between available roost trees and used roost trees ($\Lambda = 0.257$, $\delta = 0.241$, $P = 0.025$). Specifically, there was a difference in canopy class ($U = 619$, $P = 0.018$), percent remaining bark ($U = 629$, $P = 0.018$), and decay state ($U = 274$, $P = 0.018$). No difference was found in DBH ($U = 350$ $P = 0.186$).

Roost trees were not located randomly in the landscape at either spatial scale (Wilks' $\Lambda = 0.830$, $F_{5, 150} = 6.17$, $P < 0.001$; Wilks' $\Lambda = 0.908$, $F_{5, 150} = 3.05$, $P = 0.012$, for the 4000 m (2.5 mi) and 1200 m (0.75 mi) spatial scales respectively). At the 4000 m (2.5 mi) scale, roost trees were closer to water ($t_{90} = -5.03$, $P > 0.001$) than random locations. No other distances were found to be significantly different ($P \geq 0.1$ in all cases). Similarly, at the 1200 m (0.75 mi) scale roost trees were closer to water ($t_{104} = -3.63$, $P = 0.002$) than random locations but no other distances were significantly different ($P > 0.1$ in all cases).

Mean distance between primary roosts and water was 200.8 m (SD = 409.6) (658.6 ±1343.5 ft), and 285.9 m (SD = 506.8) (937.8 ±1662.3 ft) between secondary roosts and water. In each case the water body was a stream. The range of distances between primary roosts and water (7–1035 m [23–3395 ft]) was within the range of distances for secondary roosts (0–1754 m [0–5753 ft]). However, 5 of 6 (83%) primary roosts were within 100 m (328 ft) of water, whereas 34 of 50 (68%) of secondary roosts were within this range of water. Roost tree #6 had the shortest distance (7 m [23 ft]) to water of all primary roost trees, but multiple secondary roosts had shorter distances to water than roost tree #6.

Table 2. Mean ± standard error of charateristics of Indiana bat roost and plot trees 2008–2010. Roost trees classified as primary met one or both of the following conditions; more than 30 bats emerged from the tree at dusk or the tree accounted for > 5% of the total bat roost days (one bat, tracked to a roost one day = one roost day) recorded during the study. The remaining trees were classified as secondary. Available plot trees were > 21 cm DBH (8.4 in), were classified as canopy class 3 or higher, and had at least one visually identified roost type.

							Trees With Roost Type Present (%)				
		N	DBH[a] (cm) (in below)	Bark Remaining (%)	Decay State[b]	Canopy Class[c]	Bark	Cavity	Split	Height (m) (ft)	Canopy Cover (%)
Roost Trees	*All*	56	47.3 ± 2.23 18.9 ± 0.89	68.8 ± 4.42	3.77 ± 0.19	1.68 ± 0.07	83.9 ± 4.95	12.5 ± 4.46	12.5 ± 4.46	22.2 ± 0.73 72.8 ± 2.39	87.2 ± 1.86
	Primary	6	54.8 ± 4.32 21.9 ± 1.73	91.7 ± 1.05	4.00 ± 0.00	1.50 ± 0.22	100 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	23.8 ± 1.42 78.1 ± 4.69	85.9 ± 2.77
	Secondary	50	46.3 ± 2.42 18.5 ± 0.97	66.1 ± 4.81	3.74 ± 0.21	1.70 ± 0.08	82.0 ± 5.49	14.0 ± 5.00	14.0 ± 5.00	22.0 ± 0.80 72.2 ± 2.62	87.4 ± 2.06
Plot Trees	*All*	1438	27.5 ± 0.42 11.0 ± 0.17	98.7 ± 0.26	1.23 ± 0.02	2.56 ± 0.03	1.04 ± 0.27	1.32 ± 0.30	1.39 ± 0.10	-	-
	Available	16	41.0 ± 3.12 16.4 ±1.25	83.3 ± 8.26	2.56 ± 0.43	2.19 ± 0.19	37.5 ± 12.5	56.3 ± 12.8	6.25 ± 6.25	-	-

[a] DBH = Diameter at breast height.
[b] Seven categories; 1 = live, 2 = declining, 3 = dead, 4 = loose bark, 5 = clean, 6 = broken, 7 = decomposed (Hunter 1990)
[c] Four categories; 1 = emergent, 2 = dominant, 3 = mid-story, 4 = suppressed. (Oliver and Larson 1996).

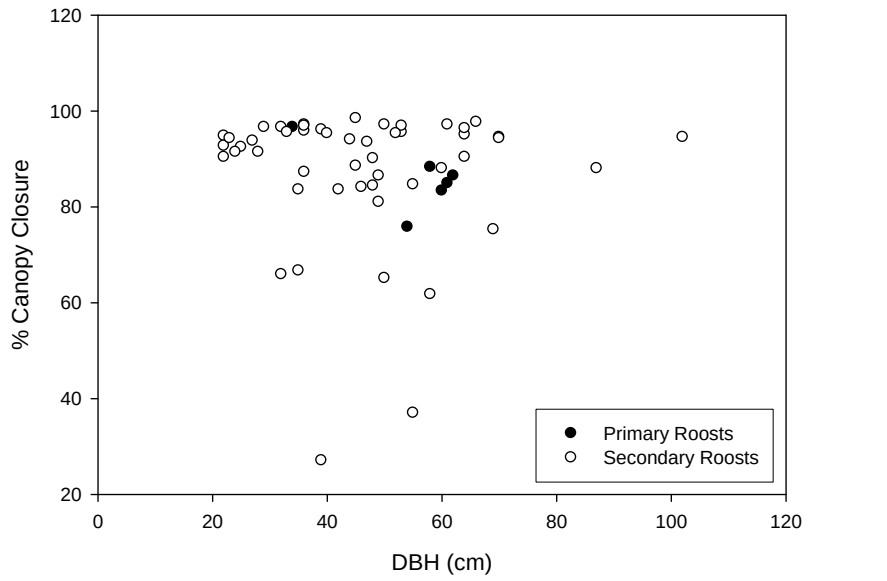

Figure 9. Comparisons of select physical characteristics between primary and secondary roosts. Bottom graph depicts box plots with medians, quartiles, and 95% confidence intervals.

Table 3. Roost use by Indiana bats recaptured during 2008-2010, at Big Darby Creek.

Bat ID	Year	Dates radiotracked	Roost No.
13452	2010	5/27–6/7	6, 7
13456	2008	9/5–9/10	2,3,4,5
	2009	8/31–9/11	6, 36, 40
15442	2009	7/25–7/29	13, 20, 22
	2010	6/15–6/21	6,13,48,49
15504	2009	8/23–9/10	6, 30,31,32,33,34,43
	2010	6/17–6/28	6, 35
8270	2009	8/31–9/10	6,38
	2010	7/23–7/25	8,48,49

Objective 3). Determine characteristics of foraging habitats used by Indiana bats during the summer.

We obtained sufficient sample sizes to calculate 33 home ranges for 32 individuals (Table 4). Average size of fixed kernel estimates was 210.5 ± 130.6 SD ha (0.84 ± 0.52 SD mi^2) while home ranges calculated using the minimum convex polygon method averaged 374.2 ± 359.6 SD ha (1.49 ± 1.44 SD mi^2). One bat was represented in two different years. To ensure data independence, only data from its most recent year were used in the following statistical analyses. Bats were tracked to their day roost location for an average of 8 days (range 0 to 20 days). Nocturnal tracking data were collected over an average of 6 days (range 2 to 12 days) with a median time between points of 4 minutes (average 110 minutes; range 3 minutes to 5 days, 22 hours and 58 minutes). Three bearings per location were used most commonly—two bearings/location comprised < 3% of all locations. Home range size did not differ between years ($U = 129$, $P = 0.98$).

Ninety-five percent of bats' movements were within 4000 m (2.5 mi) of their nearest day roost location and 75% of all recorded movements were within 1200 m (0.75 mi). Bats did not use habitat randomly at any spatial scale (Wilks' $\Lambda = 0.020$, $F_{5, 25} = 244.9$, $P < 0.001$; Wilks' $\Lambda = 0.057$, $F_{5, 25} = 83.14$, $P < 0.001$; Wilks' $\Lambda = 0.137$, $F_{5, 25} = 31.43$, $P<0.001$; for the 4000 m (2.5 mi), 1200 m (0.75 mi), and home range analysis scales respectively). Age of bat and year of study had no influence on habitat selection at any scale ($P > 0.1$). Compared to areas within 4000 m (2.5 mi) of their home range, bats were, on average, closer to forest ($t_{31} = -32.2$, $P < 0.001$), open water ($t_{31} = -22.3$, $P < 0.001$), and grassland ($t_{31} = -7.94$, $P < 0.001$), and farther from cropland ($t_{31} = 5.42$, $P < 0.001$) than would be expected by chance. Distances to residential areas were similar between used and available habitats ($t_{31} = -0.67$, $P = 0.51$). Compared to areas within 1200 m (0.75 mi) of their home range, bats were closer to forest ($t_{31} = -18.8$, $P < 0.001$), open water ($t_{31} = -15.2$, $P < 0.001$) and grassland ($t_{31} = -3.25$, $P = 0.003$), and farther from cropland ($t_{31} = 4.83$, $P < 0.001$) and residential areas ($t_{31} = 2.30$, $P = 0.029$) than would be expected by chance. Within their home range, bats were nearer to forest ($t_{31} = -12.6$, $P < 0.001$) and open water ($t_{31} = -5.68$, $P < 0.001$) and farther from cropland ($t_{31} = 4.75$, $P < 0.001$) than expected by chance, but distances to residential and grassland areas were not significantly different between used and available habitats ($t_{31} = 0.78$, $P = 0.442$; $t_{31} = 0.97$, $P = 0.341$ for residential and grassland areas respectively).

Pair-wise ranking of habitat types indicated distances to cropland were significantly greater than those to any other habitat at any analysis scale (table 5). This is evidenced by the consistently negative (and significant) t-scores as one looks down the column for cropland in table 5. Negative scores indicate larger distance to locations for the habitat type at the top of the column when compared to the habitat type in the row, which is indicative of relative avoidance for the column habitat. Conversely, positive t-scores indicate shorter distances for the habitat at the column heading when compared to the habitat in the row, and an indication of preference for that habitat type. Distances to forest were shorter than those to any other habitat with the exception of open water at the landscape spatial scales. Indeed, there was a shift in relative importance between these two features with spatial scale. Both habitats were used similarly at the landscape scales with no significant difference between them, and both were significantly preferred over other habitats, but distance to forest was significantly less that water at the home

range scale (table 5). Nevertheless, open water was still strongly preferred over other habitat types at the home range scale, as indicated by the positive t-scores for all habitat types except forest.

Our nocturnal tracking revealed that bats selectively foraged near woodland and water during the night at all spatial scales, although their relative importance shifted with scale. Bats appeared to be avoiding cropland at all scales while foraging at night. The spatial distribution of home ranges reflected the preference for woodland/water habitat, as the home ranges were typically clustered along the riparian woodland habitat each year, much like the roost sites (Figure 10).

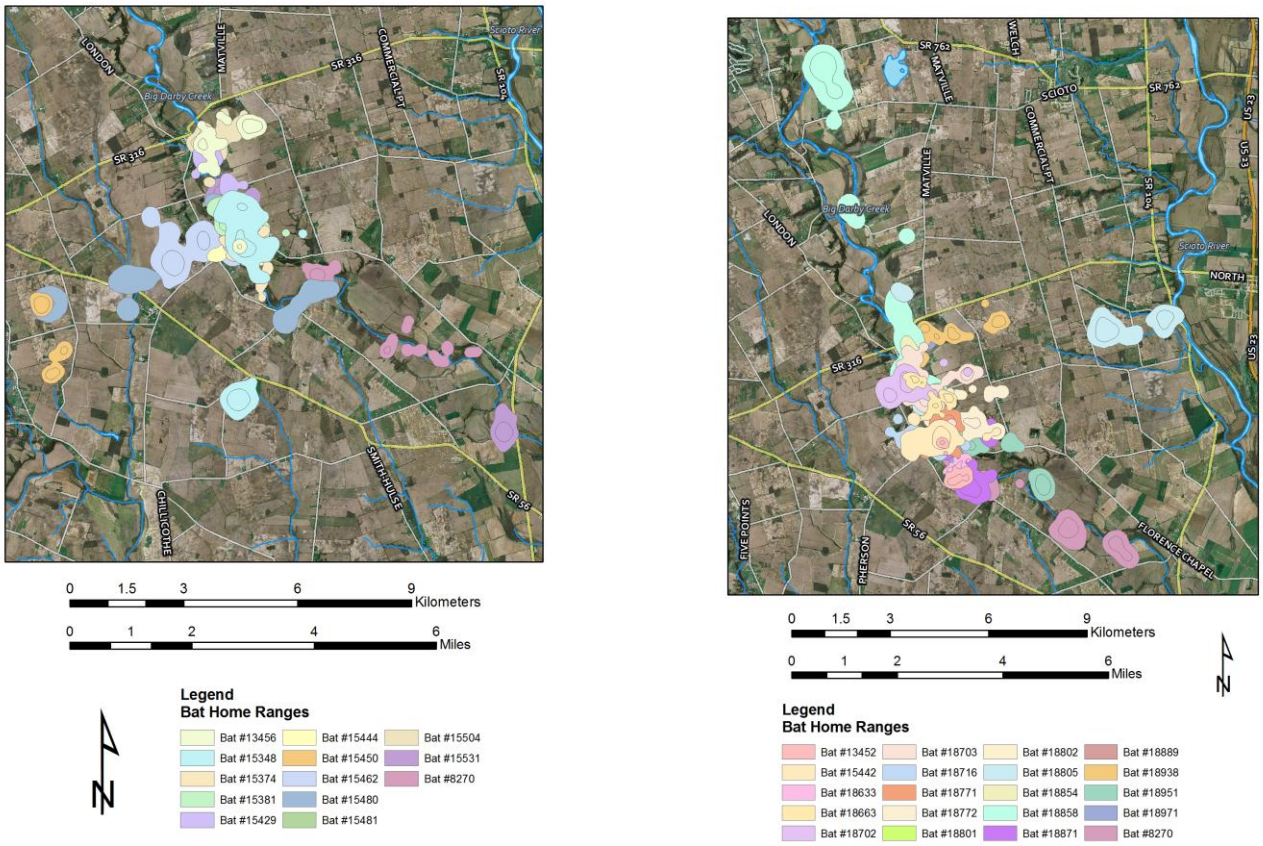

Figure 10. Spatial distribution of home ranges (95% fixed kernel contours) of Indiana bats in 2009 (left) and 2010 (right).

Table 4. Summary of home range estimation for Indiana bats (*Myotis sodalis*) captured in Pickaway Co., Ohio USA, 2008–2010.

Comment [A3]: This table was still miss sorted – it's fixed now.

	Home range Size (ha)					
Bat #	95% Fixed Kernel	95% MCP	Age	Sex	# Locations	# Days tracked
8270 *(2009)*	162.7	487.8	adult	f	62	8
8270 *(2010)*	338.6	471.0	adult	f	111	2
13452	59.9	71.1	adult	f	96	2
13456	134.9	328.6	adult	f	67	3
15348	323.7	724.0	adult	f	109	5
15374	110.5	94.1	juv	f	69	6
15381	180.9	95.5	adult	f	72	9
15429	192.1	229.7	juv	m	93	7
15442	190.8	117.0	adult	f	78	6
15444	106.8	66.8	juv	f	90	11
15450	179.9	1118.8	adult	f	49	4
15462	353.3	262.6	juv	f	106	9
15480	525.4	1339.1	juv	m	95	9
15481	83.8	43.7	juv	m	85	9
15504	154.3	318.5	juv	f	100	10
15531	208.8	924.4	juv	f	68	5
18633	54.2	75.0	adult	f	116	6
18663	92.6	149.6	adult	f	85	7
18702	207.6	272.0	adult	f	77	12
18703	272.4	398.3	adult	f	83	9
18716	138.9	102.7	adult	f	47	3
18771	148.8	126.2	adult	f	90	6
18772	250.6	261.7	adult	f	98	6
18801	112.7	54.0	adult	f	48	4
18802	144.4	78.2	adult	f	50	5
18805	342.0	1061.2	adult	f	85	5
18854	111.1	265.6	adult	f	55	4
18858	657.4	1065.1	adult	f	77	4
18871	309.0	394.7	juv	f	97	6
18889	75.6	74.1	adult	f	89	7
18938	242.9	678.8	adult	f	100	4
18951	243.1	345.8	juv	f	78	4
18971	235.4	252.0	juv	m	56	5
Average	*210.5*	*374.2*			*81*	*6*
Average (mi^2)	*0.84*	*1.49*				

[a] MCP = minimum convex polygon.
[b] Juv. = juvenile.
[c] M = male, F = female.
[d] Includes night tracking radiolocation estimates and one day roost location per day.

Table 5. Ranking matrix of habitat used by Indiana bats in Pickaway Co., Ohio USA, 2008–2010. Values represent paired comparisons of average distances to habitat types (t-values (p-values)) as row - column.

		Habitat				
Spatial scale		cropland	forest	residential	grassland	open water
4000 m	cropland		7.15(0.00)	5.59(0.00)	6.31(0.00)	7.20(0.00)
(2.5 mi)	forest	-7.15(0.00)		-14.53(0.00)	-8.74(0.00)	0.26(0.80)
	residential	-5.59(0.00)	14.53(0.00)		8.47(0.00)	13.45(0.00)
	grassland	-6.31(0.00)	8.74(0.00)	-8.47(0.00)		8.05(0.00)
	open water	-7.20(0.00)	-0.26(0.80)	-13.45(0.00)	-8.05(0.00)	
1200 m	cropland		7.40(0.00)	4.26(0.00)	5.69(0.00)	7.48(0.00)
(0.75 mi)	forest	-7.40(0.00)		-11.18(0.00)	-6.00(0.00)	-0.38(0.72)
	residential	-4.26(0.00)	11.18(0.00)		5.89(0.00)	11.32(0.00)
	grassland	-5.69(0.00)	6.00(0.00)	-5.89(0.00)		5.94(0.00)
	open water	-7.48(0.00)	0.38(0.72)	-11.32(0.00)	-5.94(0.00)	
Home range	cropland		8.49(0.00)	4.04(0.00)	4.64(0.00)	5.69(0.00)
	forest	-8.49(0.00)		-10.53(0.00)	-11.27(0.00)	-4.95(0.00)
	residential	-4.04(0.00)	10.53(0.00)		2.33(0.03)	5.27(0.00)
	grassland	-4.64(0.00)	11.27(0.00)	-2.33(0.03)		5.20(0.00)
	open water	-5.69(0.00)	4.95(0.00)	-5.27(0.00)	-5.20(0.00)	

At night, most foraging bats traveled along the Big Darby riparian woodland corridor. However, we observed a few bats exhibiting long distance movements and use of upland woodlands for foraging and roosting. Although bats largely avoided croplands, they were capable of flying over the croplands to locate more preferred habitat elsewhere (Figure 11). For example, bat #18805 moved nearly 8 km (5 mi) east from the study area and used areas near the Scioto River. It is important to note that these overland movements may have occurred more frequently than is represented here, as the signals from some bats were lost during periods in the night during monitoring which may have been due to sudden long distance movements that went undocumented. Nevertheless, we were able to document use of remote woodland patches for roosting and foraging at night.

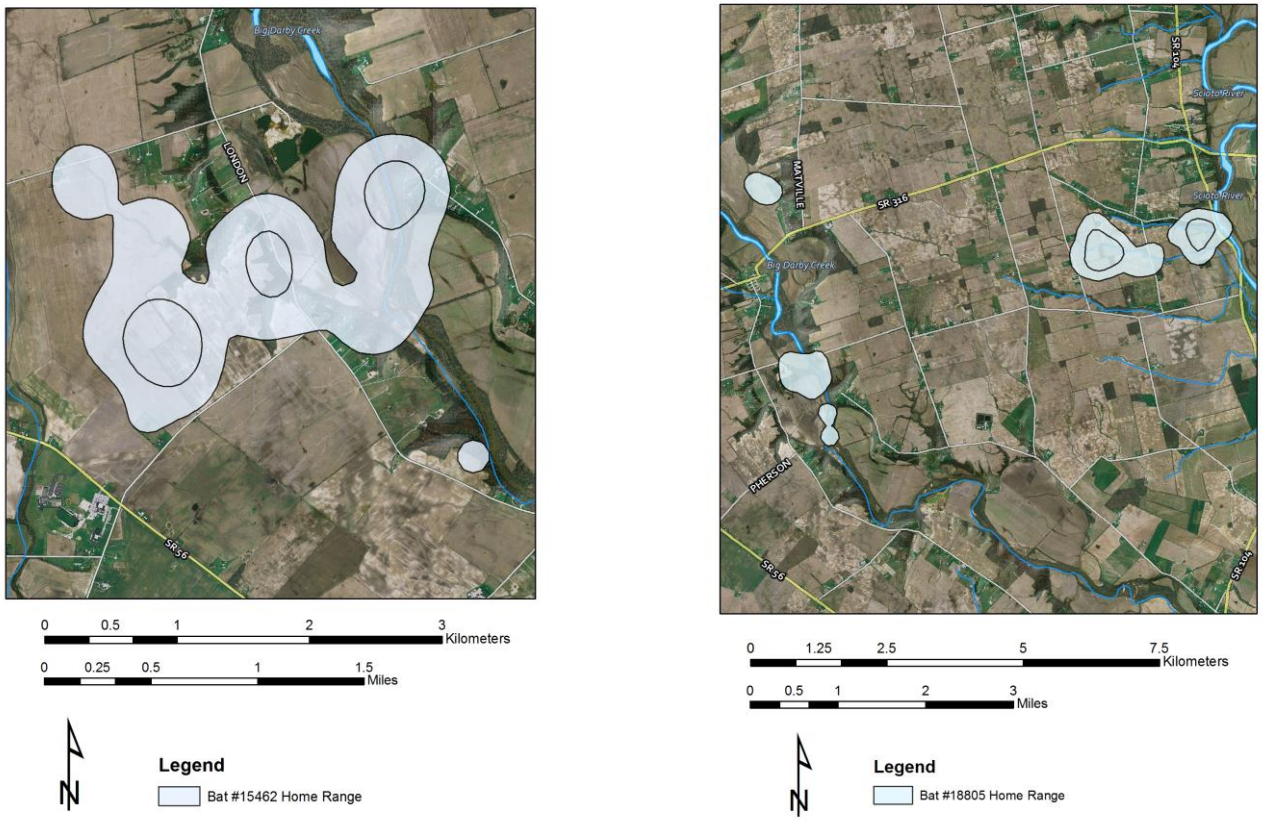

Figure 11. Fixed kernel home ranges (95 & 50% contours) for two Indiana bats, illustrating use of woodland patches adjacent to, and some distance from, the Big Darby Creek riparian corridor.

Objective 4). Determine the proportion of females that return to the same maternity colony area among successive years.

Although our capture data were too limited to calculate return rates, we did record recaptures which suggests that females are returning to the maternity area each year, if not the actual roost tree. Indeed, > 8% of our total captures of Indiana bats were recaptures of bats marked from previous years. Each of the five Indiana bats we recaptured were females captured in different years. One bat (#8270) was also originally captured during a previous survey by another team in 2007, and our last recapture for this bat was in 2010. This bat used the riparian area heavily, and there was a high level of spatial overlap between years (Figure 12). Two bats we recaptured were originally captured as juveniles and later captured as adults; in both cases these bats were captured the following year and were reproductive (either lactating or post-lactating).

Objective 5). Determine the summer and annual survival rates of adult and juvenile bats.

Capture rates and especially recaptures were too low to calculate summer and annual survival rates.

Objective 6). Determine the proportion of adult females that give birth each year.

Among adult females, 18 were captured while lactating, 6 were post-lactating, at least 4 were pregnant, 1 was not reproductive, and the reproductive status of the rest was unknown. It is likely that most of the females with unknown reproductive status were pregnant, but they were either captured early in their gestation or we were cautious in our identification of pregnancies. All pregnant bats were captured in 2010, on May 26 and June 4. We recorded lactating bats from June 16 to July 24 (pooled across years). All of the adult females with unknown reproductive status were captured prior to, or during, the pregnancy phase, except for one female captured in June. If the bat with unknown reproductive status is considered non-reproductive and included in the sample, then we recorded at least 93% (n = 30) of the adult females producing young in a given year (pooling data across years).

Objective 7). Determine the return rates of juvenile bats to the maternity roosting area from one year to the next.

The small sample size limits our ability to address this objective. We did not capture a sufficient number of juvenile bats to provide a reliable 'return rate' for juveniles. However, as mentioned above (Objective 4), two females we originally captured as juveniles were recaptured in subsequent years as adults (see Figure 13 for one example). That we captured juvenile bats in each year of the study was indicative of some level of reproductive success, as was the return of these two individuals as adults.

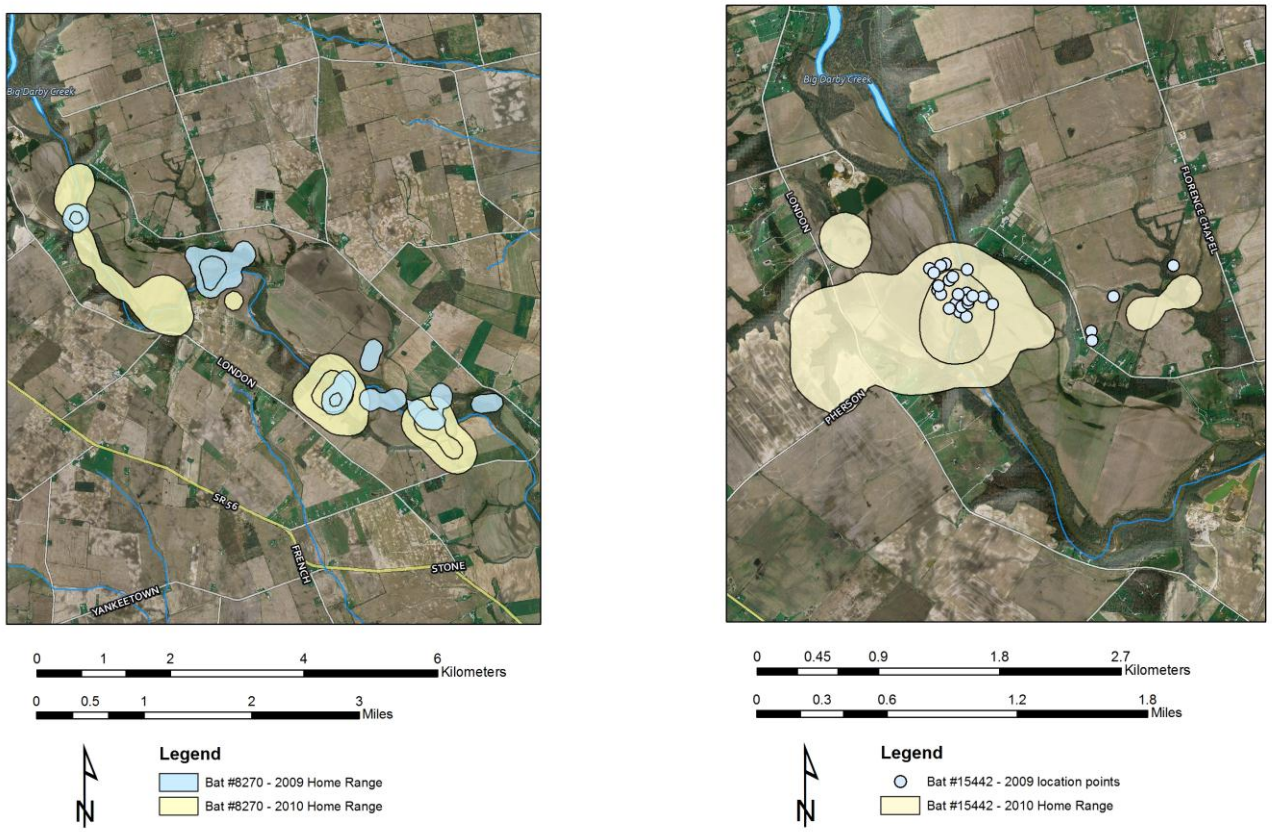

Figure 12. Fixed kernel home ranges (95 & 50% contours) for Indiana bats monitored in successive years, illustrating between-year site fidelity.

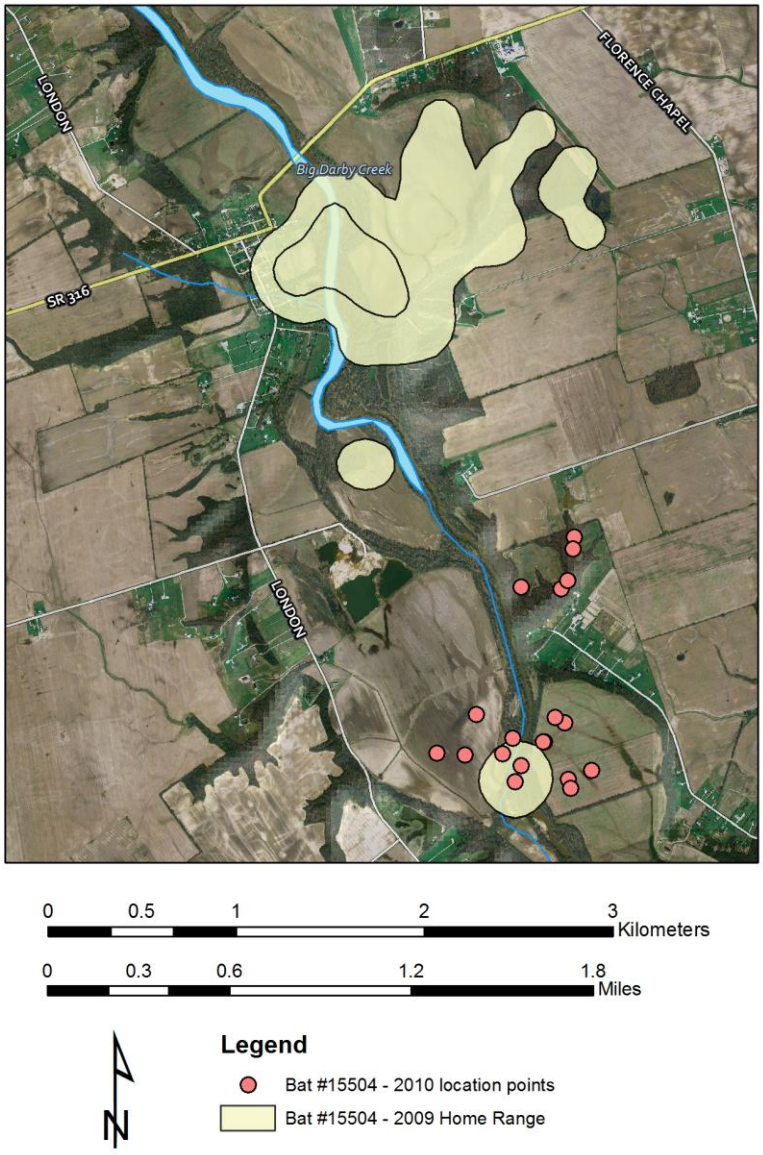

Figure 13. Home range during 2009 and 2010 locations for Indiana bat #15504. This bat was originally captured as a juvenile and returned as an adult.

Conclusions and Recommendations

Our results illustrate the importance of riparian woodland habitat for Indiana bat roosting and foraging, particularly in an agricultural landscape. The radiotelemetry data and emergence data indicate that some roost trees are used more heavily by bats than others (primary vs secondary roosts). Bats will continue to use these roosts across years, and our limited data suggests that natal females will return to the area to reproduce in subsequent years.

Roost tree characteristics

We identified a difference between primary and secondary roosts in relative use by bats, with primary roosts being used by a majority of the radiotagged bats in multiple years. Although our quantitative analysis suggested a difference in characteristics between primary and secondary roosts, no single characteristic, or combination, emerged as reliably different. Our study documented a greater number of secondary roosts used by IB than previous publications, and this is likely due to our relatively large number of bats that were tagged and intensively monitored. The picture that emerged in our study is that the characteristics of secondary roosts are highly variable. Similarly, Kurta et al. (2002) were unable to identify distinguishing characteristics between roost types. Given the similarities between roost tree types and that bat use of roost trees may vary annually, we caution against an emphasis in discriminating between primary and secondary roost characteristics.

Nevertheless, some generalizations can be made for roosts used by Indiana bats in this study. Most primary roosts were dead trees with DBH > 51 cm (20 in), > 90% loose bark, and associated with an emergent or dominant canopy and a surrounding canopy cover > 80%. Secondary roosts had more variable characteristics, but a similar DBH. Nearly all primary roosts, and most secondary roosts, were located near (< 100 m [328 ft]) from a stream. None of the primary roosts and relatively few of the secondary roosts had cavity or split structures used by bats; the most common roosting structure was apparently loose bark, which is also consistent with previous studies (Britzke et al. 2003, 2006; Callahan et al. 1997).

Comment [ABK4]: This statement said "All primary roosts" which is false! I changed it to "most".

The characteristics of the roost trees in this study were largely consistent with previous studies (Britzke et al. 2003, 2006; Callahan et al. 1997). However, only 4 out of 56 roost trees (7%) had a DBH < 25 cm (10 in); guidelines currently focus on a minimum 20 cm (8 in) DBH. Exfoliating, or loose, bark was much more important than cavities or splits for roosting structure. Thus, trees with these characteristics near (< 100 m [328 ft]) water should be carefully managed as potential roost sites.

Nighttime tracking revealed night roosting under a bridge by Indiana bats and other species of bats. We did not collect specific measurements of the bridge, but it was of a concrete/steel construction typical of highway bridges. More research is needed to determine the use of bridges and how bridge design may augment bat habitat. We noticed that there were obvious guano piles where bats had been using the bridge, so it is relatively easy to document bat use of bridges without actually seeing them roosting in them.

Foraging Habitat

Home ranges were spatially aggregated on roost sites and focused along the Big Darby Creek riparian corridor. Bats clearly displayed an affinity for woodland and hydric habitats for foraging sites, which is consistent with previous studies (Carter 2006). Our results agree with guidelines that identify potential foraging areas as occurring along streams and in floodplain forests. We documented the importance of riparian woodland and open water for Indiana bats at all spatial scales.

Home ranges in our study were relatively large compared to studies from other areas, which may be a reflection of occasional movements outside the creek drainage. Although most bats concentrated their roosting and foraging within and along the riparian corridor, we also observed overland flights to upland woodlots or other riparian areas. Thus, woodland habitat outside the riparian corridor may also be important to Indiana bat, although more research is needed on this issue.

Riparian woodland should be conserved when possible, especially potential roost trees, in agricultural landscapes in Ohio.

Implementation Plan

ODOT's roadway program is associated with several activities that result in impacts to the bat. In accordance with the Endangered Species Act of 1973, federal agencies are required "to insure that any action authorized, funded, or carried out by such agency is not likely to jeopardize the continued existence of any endangered or threatened species or result in the destruction or adverse modification of any habitat of such species determined to be critical unless an exemption has been granted." As a result, ODOT (often acting on FHWA's behalf and using federal funds) must plan and implement its program in a manner that avoids or minimizes impacts to the Indiana bat. To accomplish this goal, ODOT, FHWA, and the USFWS have established a streamlined and predictable programmatic consultation process for assessing and minimizing ODOT's potential impact to the Indiana bat. Two key components of the programmatic consultation are:

- to establish actions that ODOT will undertake to avoid, minimize, and mitigate for impacts to the bat, and
- to establish actions that ODOT will take to contribute toward the recovery of the species.

Results from our study can be used to avoid or minimize impacts to bats by focusing survey efforts or guidance in interpreting maps, with respect to habitats preferred by Indiana bats during the summer in Ohio. Our results clearly illustrate the preferred use by bats of riparian woodland habitat for roosting and foraging. Our results can assist with the identification of potential roost trees, or sites where roost trees may be likely. Most primary roosts were dead trees with DBH > 51 cm (20 in), > 90% loose bark, and associated with an emergent or dominant canopy and a surrounding canopy cover > 80%. Nearly all primary roosts, and most secondary roosts, were located near (< 100 m [328 ft]) from a stream.

Comment [ABK5]: Again this was a false statement.

We provided more information regarding the seasonal window when Indiana bats are likely to occur on their summer grounds. We captured Indiana bats from April 21 to September 3, and recorded emergence from roosts from April 29 to September 16 (pooling across years). The reproductive period, as indicated by noticeably pregnant and lactating females occurred from May 26 through July 24, and the first volant juveniles were captured on July 12. Thus, the Indiana bat summer season at the Big Darby Creek extends from mid-April to mid-September. Removal of potential roost trees or similar habitat alteration, if necessary, should take place outside this 'window'.

Likewise, our results provide a spatial scale with regard to the distance from a riparian corridor bats are likely to travel, which should assist in assessments of potential impact or mitigation. For example, our radiotelemetry revealed that 95% of bat movements were within 4000 m (2.5 mi) of their nearest day roost location and 75% of all recorded movements were within 1200 m (0.75 mi).

This project also highlights potential areas for future research, in the event that additional projects are required. These include radiotelemetry efforts to identify more large-scale

movements and roosting, continued work on quantifying site fidelity and roost site dynamics, and the use of bridges as rest locations and potential roosts.

Bibliography

Aldridge, H. D. J. N., and R. M. Brigham. 1988. Load Carrying and Maneuverability in an Insectivorous Bat: A Test of The 5% "Rule" of Radio-Telemetry. Journal of mammalogy 69**:**pp. 379-382.

Belwood, J. J. 2002. Endangered bats in suburbia: observations and concerns for the future. Pages 193 – 198 *in* A. Kurta and J. Kennedy, editors. The Indiana bat: biology and management of an endangered species. Bat Conservation International, Austin, Texas, USA.

Benjamini, Y., and Y. Hochberg. 1995. Controlling the False Discovery Rate: A Practical and Powerful Approach to Multiple Testing. Journal of the Royal Statistical Society. Series B 57:289-300.

Brack, V. W. Jr. 1983. The nonhibernating ecology of bats in Indiana with emphasis on the endangered Indiana bat, *Myotis sodalis*. Dissertation, Purdue University, West Lafayette, Indiana, USA.

Britzke, E., M. Harvey, and S. Loeb. 2003. Indiana bat, *Myotis sodalis*, maternity roosts in the southern United States. Southeastern Naturalist 2**:**235-242.

Britzke, E., A. Hicks, S. Von Oettingen, and S. Darling. 2006. Description of spring roost trees used by female Indiana bats (*Myotis sodalis*) in the Lake Champlain Valley of Vermont and New York. American Midland Naturalist 155**:**181-187.

Callahan, E., R. Drobney, and R. Clawson. 1997. Selection of summer roosting sites by Indiana bats (*Myotis sodalis*) in Missouri. Journal of Mammalogy 78**:**818-825.

Carter, T. 2006. Indiana bats in the Midwest: The importance of hydric habitats. Journal of Wildlife Management 70**:**1185-1190.

Clawson, R. L. 2002. Trends in Population Size and Current Status. Pages 2-8 *in* A. Kurta and J. Kennedy, editors. The Indiana bat: biology and management of an endangered species. Bat Conservation International, Austin, TX.

Conner, L. M., and B. W. Plowman. 2001. Using Euclidean Distances to Assess Nonrandom Habitat Use. Pages 275-290 *in* J. J. Millspaugh and J. M. Marzluff, editors. Radio Tracking and Animal Populations. Academic Press, San Diego, California, USA.

Conner, L. M., M. D. Smith, and L. W. Burger. 2003. A Comparison of Distance-Based and Classification-Based Analyses of Habitat Use. Ecology 84**:**526-531.

Cope, J. B., A. R. Richter, and R. S. Mills. 1974. A summer concentration of the Indiana

bat, *Myotis sodalis*, in Wayne County, Indiana. Proceedings of the Indiana Academy of Science 83:482-484.

Gardner, J. E., J. D. Garner, and J. E. Hofmann. 1989. A portable mist netting system for capturing bats with emphasis on *Myotis sodalis* (Indiana bat). Bat Research News, 30:1-8.

Gardner, J. E., J. D. Garner, and J. E. Hofmann. 1991. Summer roost selection and roosting behavior of *Myotis sodalis* (Indiana bat) in Illinois. Final report. Illinois Natural History Survey, Champaign, USA.

Humphrey, S. R., A. R. Richter, and J. B. Cope. 1977. Summer habitat and ecology of the endangered Indiana bat, *Myotis sodalis*. Journal of Mammalogy 58:334-346.

Hunter, M. L. 1990. Wildlife, forests, and forestry :principles of managing forests for biological diversity. Prentice Hall, Englewood Cliffs, NJ.

Kessler, J. L., W. M. Turnet, and L. Morgan. 1981. A survey for the Indiana bat, *Myotis sodalis*, on Knob Creek, Bullitt County, Kentucky. Transactions of the Kentucky Academy of Science 42:38-40.

Kurta, A., D. King, J. A. Teramino, J. M. Stribley, and K. J. Williams. 1993. Summer roosts of the endangered Indiana bat (*Myotis sodalis*) on the northern edge of its range. American Midland Naturalist 129:132-138.

Kurta, A., S. W. Murray, and D. H. Miller. 2002. Roost Selection and Movements Across the Summer Landscape. Pages 118-129 in A. Kurta and J. Kennedy, editors. The Indiana bat: biology and management of an endangered species. Bat Conservation International, Austin, TX.

Kurta, A., K. J. Williams, and R. Miles. 1996. Ecological, behavioral, and thermal observations of a peripheral population of Indiana bats (*Myotis sodalis*). Pages 102-117 in R. M. R. Barclay and R. M. Brigham, editors. Bats and Forests Symposium, Victoria, British Columbia, October 19-21, 1995. Canadian Research Branch, British Columbia Ministry of Forests, Victoria, Canada.

Homer, C., C. Huang, L. Yang, B. Wylie, and M. Coan. 2004. Development of a 2001 National Landcover Database for the United States. Photogrammetric Engineering and Remote Sensing. Pages 829-840 *in* .

Horne J. S. 2006. Likelihood cross-validation versus least squares cross-validation for choosing the smoothing parameter in kernel home-range analysis. Journal of Wildlife Management 70**:**641.

Horne, J. S., and E. O. Garton. 2009. Animal Space Use 1.3. Available online at: <http://www.cnr.uidaho.edu/population_ecology/animal_space_use> 1.3).

Johnson, D. H. 1980. The Comparison of Usage and Availability Measurements for Evaluating Resource Preference. Ecology 61**:**pp. 65-71.

Kincaid, T. 2009. spsurvey: Probability Survey Design and Analysis Functions.

Kurta, A., and S. W. Murray. 2002. Philopatry And Migration Of Banded Indiana Bats (*Myotis sodalis*) And Effects Of Radio Transmitters. Journal of Mammalogy 83**:**585-589.

Kurta, A.,and J. Kennedy, editors. 2002. The Indiana bat: biology and management of an endangered species. Bat Conservation International, Austin, TX.

LaVal, R. K., and M. L. LaVal. 1980. Ecological studies and management of Missouri bats, with emphasis on cave dwelling species. Terrestrial Report 8. Missouri Department of Conservation, Jefferson City, USA.

Leban, F. A., M. J. Wisdom, E. O. Garton, B. K. Johnson, and J. G. Kie. 2001. Effect of Sample Size on the Performance of Resource Selection Analyses. Pages 291-307 *in* J. J. Millspaugh and J. M. Marzluff, editors. Radio Tracking and Animal Populations. Academic Press, San Diego, California, USA.

Mielke, P. W., and K. J. Berry. 2001. Permutation methods :a distance function approach. Springer, New York.

Nams, V. O. 2006. Locate III User's Guide. Pacer Computer Software, Tatamagouche, Nova Scotia, Canada.

Oliver, C. D., and B. C. Larson. 1996. Forest Stand Dynamics. Update Edition. John Wiley & Sons, Inc., New York.

R Development Core Team. 2010. R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing, Vienna, Austria.

Rodgers, A. R., A. P. Carr, H. L. Beyer, L. Smith, and J. G. Kie. 2007. HRT: Home Range Tools for ArcGIS. Ontario Ministry of Natural Resources, Centre for Northern Forest Ecosystem Research, Thunder Bay, Ontario, Canada.

Seaman, D. E., and R. A. Powell. 1996. An Evaluation of the Accuracy of Kernel Density Estimators for Home Range Analysis. Ecology 77**:**pp. 2075-2085.

Seaman, D. E., J. J. Millspaugh, B. J. Kernohan, G. C. Brundige, K. J. Raedeke, and R. A. Gitzen. 1999. Effects of Sample Size on Kernel Home Range Estimates. The Journal of Wildlife Management 63**:**739-747.

U.S. Fish and Wildlife Service. 2007. Indiana Bat (*Myotis sodalis*) Draft Recovery Plan: First Revision. U.S. Fish and Wildlife Service, Fort Snelling, MN 258pp.

White, G. C., and R. A. Garrott. 1990. Analysis of wildlife radio-tracking data. Academic Press, San Diego.

Appendices

Appendix 1. Net site locations and descriptions, 2008-2010.

Site #	Description	UTM	Easting	Northing
1	Maintained grass road along creek bank	17	319301	4395974
2	Maintained grass road near creek	17	319416	4395392
3	Creek sub-channel. Flowing during high water, dry or standing pools at normal water levels.	17	320625	4392778
4	Maintained grass road near creek	17	319383	4396284
5	Main creek channel	17	327511	4388467
6	Main creek channel	17	321551	4392049
7	Maintained grass road along creek bank	17	319296	4396565
8	Unmaintained road and small creek channel near main creek	17	321325	4391918
9	Main creek channel	17	322143	4392560
10	Maintained grass road near creek	17	319392	4395451
11	Maintained grass road near creek	17	319211	4396669
12	Main creek channel	17	321746	4392079
13	Residential driveway through woodlot—upland.	17	320073	4397170
14	Creek sub-channel. Flowing during high water, dry or standing pools at normal water levels.	17	323163	4391709
15	Maintained grass road near creek	17	323051	4392121
16	Main creek channel	17	323820	4391087
17	Creek sub-channels. Flowing during high water, dry or standing pools at normal water levels.	17	320249	4393271
18	Main creek channel	17	320233	4393412
19	Main creek channel	17	323925	4391045
20	Maintained and unmaintained grass roads near creek	17	320319	4394038
21	Main creek channel	17	320280	4393548

Appendix 2. Mistnetting data by site during bat monitoring at Big Darby Creek, 2008-2010.

Night #	Site #	Date and Time Nets Opened	Date and Time Nets Closed	Sky Cover	Wind[a]	Bats Captured	Net Nights[b]	Bats/Net Night	Net Area (m^2)
1	*1*	7/17/08 21:05	7/18/08 1:05			21	2	10.5	93.9
2	*2*	7/18/08 21:10	7/19/08 0:00	20%	0	12	2	6.0	72.6
3	*3*	7/23/08 21:00	7/24/08 0:00	30%	1	10	1	10.0	63.9
4	*4*	7/24/08 21:05	7/25/08 0:50	20%	0	16	1	16.0	85.2
5	*5*	7/25/08 21:00	7/26/08 0:17	50%	0	9	2	4.5	93.9
6	*6*	7/29/08 21:00	7/30/08 1:00	10%	1	21	2	10.5	115.2
7	*3*	8/1/08 20:50	8/2/08 0:05	70%	1	4	2	2.0	93.9
8	*7*	8/4/08 21:20	8/4/08 21:45	80%	0	1	1	1.0	63.9
9	*8*	8/5/08 20:55	8/6/08 0:35	95%	1	19	3	6.3	153.9
10	*3*	8/6/08 20:55	8/7/08 0:21	40%	0	20	3	6.7	123.9
11	*9*	8/8/08 20:57	8/9/08 1:00	0%	3	33	2	16.5	115.2
12	*7*	8/11/08 20:45	8/12/08 0:30	10%	1	13	2	6.5	93.9
13	*10*	8/12/08 20:39	8/13/08 0:38	20%	1	31	2	15.5	72.6
14	*1*	8/13/08 20:35	8/14/08 0:00	80%	2	37	3	12.3	153.9
15	*11*	8/15/08 20:40	8/16/08 0:35	10%	1	22	3	7.3	123.9
16	*12*	8/18/08 20:50	8/19/08 0:02			22	3	7.3	160.2
17	*13*	8/19/08 20:30	8/20/08 0:00	50%	3	7	2	3.5	93.9
18	*14*	8/20/08 20:40	8/21/08 0:12	45%	1	25	3	8.3	160.2
19	*15*	8/21/08 20:40	8/22/08 0:20	70%	2	15	3	5.0	153.9
20	*16*	8/22/08 20:35	8/23/08 1:10	0%	1	26	2	13.0	130.2
21	*8*	8/25/08 20:35	8/26/08 0:00	50%	3	4	3	1.3	153.9
22	*6*	8/26/08 20:35	8/27/08 0:00	95%	2	8	2	4.0	130.2
23	*7*	8/29/08 20:10	8/29/08 20:25	90%	1	1	3	0.3	160.2
24	*7*	9/2/08 20:15	9/3/08 0:35	10%	0	13	3	4.3	160.2

Appendix 2, continued.

Night #	Site #	Date and Time Nets Opened	Date and Time Nets Closed	Sky Cover	Wind[a]	Bats Captured	Net Nights[b]	Bats/Net Night	Net Area (m^2)
25	*1*	9/3/08 20:08	9/4/08 1:05	3%	0	29	3	9.7	153.9
26	*10*	9/4/08 20:05	9/5/08 0:10	90%	1	13	2	6.5	87.6
27	*3*	9/8/08 20:15	9/9/08 0:00	40%	1	10	3	3.3	175.2
28	*14*	9/9/08 20:05	9/10/08 0:00	50%	2	26	3	8.7	153.9
29	*4*	9/10/08 20:07	9/11/08 0:00	30%	2	3	3	1.0	175.2
30	*8*	4/23/09 20:30	4/24/09 0:00	55%	1	2	3	0.7	145.2
31	*3*	4/27/09 20:30	4/28/09 0:05	80%	2	3	3	1.0	160.2
32	*15*	5/3/09 20:30	5/4/09 0:00	95%	1	5	3	1.7	151.5
33	*1*	5/5/09 20:35	5/6/09 0:45	25%	1	44	3	14.7	190.2
34	*14*	5/11/09 20:35	5/12/09 1:00	30%	2	49	3	16.3	194.1
35	*7*	5/12/09 20:35	5/13/09 0:00	20%	1	6	3	2.0	153.9
36	*11*	5/18/09 20:45	5/19/09 0:00	10%	1	4	3	1.3	136.5
37	*10*	5/20/09 20:50	5/21/09 0:30	5%	2	33	3	11.0	136.5
38	*12*	5/21/09 21:30	5/22/09 0:15	5%	1	13	3	4.3	179.1
39	*3*	5/22/09 20:50	5/23/09 0:00	95%	1	12	3	4.0	194.1
40	*14*	6/5/09 21:30	6/6/09 1:15	20%	2	45	3	15.0	179.1
41	*17*	6/12/09 21: 30	6/13/09 0:45	100%	0	9	3	3.0	179.1
42	*3*	6/13/09 21:15	6/14/09 0:00	40%	1	3	3	1.0	194.1
43	*18*	6/15/09 21:15	6/16/09 1:00	75%	1	17	3	5.7	215.4
44	*17*	6/17/09 21:05	6/18/09 1:30	50%	3	20	4	5.0	211.5
45	*1*	6/18/09 21:30	6/19/09 1:00	70%	1	37	3	12.3	190.2
46	*19*	6/24/09 21:10	6/25/09 1:05	30%	1	19	2	9.5	170.4
47	*8*	6/26/09 21:05	6/27/09 0:15	30%	1	6	4	1.5	217.8

Appendix 2, continued.

Night #	Site #	Date and Time Nets Opened	Date and Time Nets Closed	Sky Cover	Wind[a]	Bats Captured	Net Nights[b]	Bats/Net Night	Net Area (m²)
48	*4*	6/29/09 20:55	6/30/09 1:20	50%	1	12	4	3.0	224.1
49	*17*	7/2/09 21:10	7/3/09 0:25	100%	3	25	4	6.3	196.5
50	*1*	7/13/09 21:30	7/14/09 0:50	20%	1	39	3	13.0	190.2
51	*3*	7/14/09 20:55	7/15/09 0:30	50%	1	18	4	4.5	224.1
52	*14*	7/21/09 21:05	7/22/09 1:00	75%	1	63	3	21.0	194.1
53	*17*	7/24/09 21:05	7/25/09 1:25	50%	1	20	4	5.0	181.5
54	*18*	8/3/09 21:02	8/4/09 0:50	50%	1	37	3	12.3	194.1
55	*15*	8/19/09 20:55	8/20/09 0:00	80%	3	14	2	7.0	93.9
56	*11*	8/21/09 20:45	8/22/09 0:40	45%		20	4	5.0	254.1
57	*1*	8/22/09 20:45	8/23/09 0:05	97%	1	11	3	3.7	190.2
58	*19*	8/25/09 20:30	8/26/09 1:05	10%	1	20	2	10.0	170.4
59	*3*	8/26/09 20:15	8/27/09 0:10	20%	0	5	4	1.3	224.1
60	*17*	8/30/09 20:10	8/31/09 1:25	40%	2	8	4	2.0	181.5
61	*14*	9/9/09 19:55	9/10/09 0:00	50%	1	15	3	5.0	179.1
62	*17*	9/22/09 19:30	9/23/09 0:00		1	7	4	1.8	196.5
63	*1*	4/20/10 20:20	4/21/10 0:40	20%	1	25	3	8.3	190.2
64	*17*	4/21/10 20:30	4/22/10 0:00	10%	1	4	4	1.0	211.5
65	*17*	4/29/10 20:35	4/30/10 0:35	0%	1	12	4	3.0	211.5
66	*14*	5/4/10 20:55	5/5/10 0:30	5%	1	27	3	9.0	194.1
67	*4*	5/5/10 20:40	5/5/10 23:50	15%	3	12	4	3.0	181.5
68	*17*	5/10/10 20:45	5/11/10 0:50	90%	2	22	4	5.5	211.5
69	*15*	5/19/10 20:45	5/20/10 0:15	20%	1	34	4	8.5	209.1
70	*3*	5/20/10 20:45	5/21/10 0:15	40%	1	9	5	1.8	247.8

Appendix 2, continued.

Night #	Site #	Date and Time Nets Opened	Date and Time Nets Closed	Sky Cover	Wind[a]	Bats Captured	Net Nights[b]	Bats/Net Night	Net Area (m²)
71	*1*	5/25/10 20:45	5/26/10 0:50	40%	1	31	4	7.8	254.1
72	*17*	5/26/10 20:50	5/27/10 0:00		1	16	5	3.2	241.5
73	*20*	6/4/10 21:05	6/5/10 0:35	100%	1	19	4	4.8	209.1
74	*11*	6/14/10 20:45	6/14/10 22:45	98%	0	10	3	3.3	136.5
75	*15*	6/15/10 20:55	6/15/10 21:35	20%		24	4	6.0	221.7
76	*20*	6/16/10 21:00	6/17/10 0:15	10%	1	13	4	3.3	243.0
77	*8*	6/24/10 21:20	6/25/10 0:00	10%	3	12	3	4.0	213.0
78	*14*	6/25/10 21:35	6/26/10 0:45	80%	1	32	3	10.7	194.1
79	*1*	6/28/10 21:00	6/29/10 0:15	75%	0	27	4	6.8	254.1
80	*17*	7/12/10 20:55	7/13/10 0:55		0	17	6	2.8	305.4
81	*20*	7/13/10 21:00	7/14/10 1:00	10%	0	38	4	9.5	264.3
82	*15*	7/21/10 21:00	7/22/10 0:00	40%	1	21	4	5.3	209.1
83	*16*	7/26/10 20:55	7/27/10 0:00	40%	2	29	2	14.5	170.4
84	*10*	7/28/10 20:55	7/29/10 0:00	80%	1	16	3	5.3	102.6
85	*4*	7/29/10 20:50	7/30/10 0:10	34%	1	16	4	4.0	202.8
86	*20*	8/4/10 20:50	8/4/10 22:20	20%	2	6	4	1.5	264.3
87	*17*	8/6/10 20:50	8/7/10 1:05	30%	2	27	5	5.4	275.4
88	*14*	8/18/10 20:30	8/19/10 1:00	25%	1	50	4	12.5	254.1
89	*18*	8/19/10 20:30	8/20/10 1:00	15%	1	29	3	9.7	215.4
90	*1*	8/24/10 20:20	8/25/10 0:00	73%	1	3	4	0.8	254.1
91	*20*	8/25/10 20:30	8/26/10 1:00	60%	2	6	4	1.5	264.3
92	*2*	8/30/10 20:15	8/31/10 0:00	40%	1	7	4	1.8	166.5
93	*21*	8/31/10 20:15	9/1/10 0:00	15%	1	11	2	5.5	170.4

Appendix 2, continued.

Night #	Site #	Date and Time Nets Opened	Date and Time Nets Closed	Sky Cover	Wind[a]	Bats Captured	Net Nights[b]	Bats/Net Night	Net Area (m^2)
94	*17*	9/1/10 20:15	9/2/10 1:00	30%	1	8	5	1.6	275.4
95	*15*	9/3/10 20:15	9/4/10 0:00	25%	2	32	5	6.4	230.4
96	*4*	9/8/10 20:05	9/9/10 0:00	20%	1	5	5	1.0	224.1
97	*9*	9/9/10 20:15	9/10/10 0:00	5%	1	39	3	13.0	175.2
98	*14*	9/10/10 20:00	9/11/10 0:00	10%	1	21	3	7.0	194.1

[a] Beaufort's wind scale (0–12, where 0 = calm and 12 = hurricane)

[b] Defined as one net or set of nets placed between two poles and operated for at least a portion of the night. All nets may not have been open continually during the night

Appendix 3. Characteristics of Indiana bat primary roost trees 2008–2010.

Tree #	Species	DBH[a] (cm)	DBH[a] (in)	Bark Remaining (%)	Decay class[b]	Canopy class[c]	Roost Types Present			Height (m)	Height (ft)	Canopy Cover (%)
							Bark	Cavity	Split			
6	*Ulmus americana*	61	24	90	4	2	y			24	79	84.90
7	*Ulmus americana*	58	23	95	4	2	y			18	59	88.28
11	*Ulmus americana*	54	21	90	4	1	y			25	82	75.78
26	*Ulmus americana*	34	13	95	4	2	y			22	72	96.61
49	*Ulmus americana*	60	24	90	4	1	y			28	92	83.33
55	*Ulmus americana*	62	24	90	4	1	Y			26	85	86.46

[a] DBH = Diameter at breast height.
[b] Seven categories; 1 = live, 2 = declining, 3 = dead, 4 = loose bark, 5 = clean, 6 = broken, 7 = decomposed (Hunter 1990)
[c] Four categories; 1 = emergent, 2 = dominant, 3 = mid-story, 4 = suppressed (Oliver and Larson 1996).

Appendix 4. Characteristics of Indiana bat secondary roost trees 2008–2010.

Tree #	Species	DBH[a] (cm)	DBH[a] (in)	Bark Remaining (%)	Decay class[b]	Canopy class[b]	Roost Types Present			Height (m)	Height (ft)	Canopy Cover (%)
							Bark	Cavity	Split			
1	*Fraxinus americana*	48	19	45	4	2	y			16	52	90.10
2	*Ulmus americana*	46	18	30	4	2	y			15	49	84.11
3	*Ulmus americana*	64	25	40	4	2	y			17	56	95.05
4	*Fraxinus pennsylvanica*	36	14	35	4	2	y			13	43	87.24
5	*Populus deltoides*	64	25	35	4	1	y			23	75	96.35
8	Unknown	53	21	0	6	2		y		22	72	95.57
9	*Ulmus americana*	45	18	89	4	2	y			24	79	98.44
10	*Ulmus americana*	64	25	20	4	1	y			24	79	90.36
12	*Ulmus americana*	35	14	70	4	2	y			19	62	83.59
13	*Ulmus americana*	66	26	88	4	2	y			20	66	97.66
14	*Carya ovata*	53	21	85	4	1	y	y		26	85	96.88
15	*Juglans nigra*	32	13	100	1	1			y	22	72	96.61
16	*Ulmus americana*	60	24	15	7	1	y			9.5	31	88.02
17	*Ulmus americana*	39	15	45	4	1	y			16	52	27.08
18	*Ulmus americana*	58	23	90	4	2	y			22	72	61.72
19	*Populus deltoides*	42	17	55	4	1	y			26	85	83.59
20	Unknown	22	9	0	5	2			y	22	72	90.36
21	*Populus deltoides*	52	20	90	4	2	y	y		28	92	95.31
22	*Ulmus americana*	39	15	15	5	2	y			27	89	96.09
23	*Ulmus americana*	55	22	30	6	2	y	y		24	79	84.64
24	*Carya ovata*	36	14	97	1	2	y			28	92	95.83
25	*Acer saccharinum*	70	28	95	2	2	y			23	75	94.53
27	*Carya ovata*	29	11	97	4	2	y		y	19	62	96.61
28	*Ulmus americana*	32	13	40	4	2	y			23	75	65.89
29	*Carya ovata*	50	20	100	1	1	y			29	95	97.14

Appendix 4. Continued.

Tree #	Species	DBH[a] (cm)	DBH[a] (in)	Bark Remaining (%)	Decay class[b]	Canopy class[b]	Roost Types Present			Height (m)	Height (ft)	Canopy Cover (%)
							Bark	Cavity	Split			
30	*Acer saccharinum*	102	40	100	1	1				35	115	94.53
31	*Ulmus americana*	40	16	97	4	2	y			19	62	95.31
32	*Ulmus americana*	49	19	90	4	1	y			25	82	80.99
33	*Acer saccharinum*	28	11	99	3	2			y	24	79	91.41
34	*Acer saccharinum*	61	24	85	4	2	y			25	82	97.14
35	*Ulmus americana*	49	19	85	4	2	y			19	62	86.46
36	*Ulmus americana*	48	19	98	4	2	y			26	85	84.38
37	*Ulmus americana*	22	9	30	6	3	y			13	43	94.79
38	*Ulmus americana*	69	27	95	4	1	y			27	89	75.26
39	*Acer saccharum*	22	9	90	4	2	y			15	49	92.71
40	*Ulmus americana*	27	11	90	4	2	y			17	56	93.75
41	*Quercus bicolor*	36	14	90	4	2	y			22	72	97.14
42	*Populus deltoides*	36	14	20	4	2	y	y		22	72	96.88
43	*Populus deltoides*	47	19	5	5	2			y	23	75	93.49
44	*Juglans nigra*	25	10	100	1	3		y	y	17	56	92.45
45	*Quercus muehlenbergii*	44	17	100	1	2			y	17	56	94.01
46	*Ulmus americana*	45	18	90	4	1	y			26	85	88.54
47	*Acer saccharinum*	70	28	90	2	1	y			27	89	94.27
48	*Acer saccharum*	23	9	35	6	2	y	y		13	43	94.27
50	*Acer saccharinum*	24	9	80	4	2	y			19	62	91.41
51	*Robinia pseudoacacia*	50	20	100	1	1	y			31	102	65.10
52	*Acer saccharum*	35	14	80	4	1	y			30	98	66.67
53	*Ulmus americana*	55	22	40	4	1	y			27	89	36.98
54	*Ulmus americana*	33	13	10	6	2	Y			12	39	95.57
56	*Populus deltoides*	87	34	100	1	1				32	105	88.02

[a] DBH = Diameter at breast height.
[b] Seven categories; 1 = live, 2 = declining, 3 = dead, 4 = loose bark, 5 = clean, 6 = broken, 7 = decomposed (Hunter 1990).
[c] Four categories; 1 = emergent, 2 = dominant, 3 = mid-story, 4 = suppressed (Oliver and Larson 1996).

Appendix 5. Location coordinates and use of roost trees by Indiana bats, 2008–2010. Roost trees classified as primary met one or both of the following conditions; more than 30 bats emerged from the tree at dusk or the tree accounted for > 5% of the total bat roost days recorded during the study. The remaining trees were classified as secondary.

Tree #	Date of First Use	UTM	Easting	Northing	Roostdays	Max emergence	# Different Bats	Years Used	Primary or Secondary
1	9/15/2008	17	320073	4397170	16	15	1	1	Secondary
2	9/15/2008	17	319606	4395067	1	0	1	1	Secondary
3	9/15/2008	17	320202	4393420	1	0	1	1	Secondary
4	9/15/2008	17	320269	4393474	1	0	1	1	Secondary
5	9/15/2008	17	320134	4393180	3	16	1	1	Secondary
6	8/13/2009	17	320238	4393353	177	109	34	2	Primary
7	8/16/2009	17	320384	4393260	42	41	10	2	Primary
8	8/16/2009	17	320243	4393419	9	21	5	2	Secondary
9	8/16/2009	17	320282	4393334	5	0	3	1	Secondary
10	8/13/2009	17	320263	4393396	3	0	2	1	Secondary
11	9/9/2009	17	319390	4397930	4	41	2	1	Primary
12	8/14/2009	17	320268	4393295	2	6	1	1	Secondary
13	9/9/2009	17	321907	4393690	21	5	8	2	Secondary
14	9/11/2009	17	316994	4396193	2	0	1	1	Secondary
15	9/10/2009	17	320020	4394456	15	4	6	2	Secondary
16	8/17/2009	17	320072	4394594	1	0	1	1	Secondary
17	9/8/2009	17	321459	4393710	1	0	1	1	Secondary
18	8/17/2009	17	319862	4394863	1	0	1	1	Secondary
19	9/10/2009	17	320039	4394543	9	6	6	2	Secondary
20	9/11/2009	17	318808	4393513	1	0	1	1	Secondary
21	9/10/2009	17	321779	4391819	5	0	1	1	Secondary
22	9/11/2009	17	321055	4393467	2	0	1	1	Secondary
23	9/10/2009	17	321687	4391923	1	0	1	1	Secondary
24	8/17/2009	17	315090	4391885	3	0	1	1	Secondary
25	8/16/2009	17	320267	4394036	5	2	2	1	Secondary

Appendix 5. Continued.

Tree #	Date of First Use	UTM	Easting	Northing	Roostdays	Max emergence	# Different Bats	Years Used	Primary or Secondary
26	8/16/2009	17	320260	4394044	34	58	4	1	Primary
27	8/17/2009	17	315060	4391841	2	0	1	1	Secondary
28	9/10/2009	17	320829	4392062	1	0	1	1	Secondary
29	8/17/2009	17	315208	4391721	2	0	1	1	Secondary
30	9/8/2009	17	319250	4396231	1	0	1	1	Secondary
31	9/8/2009	17	319254	4396186	2	0	1	1	Secondary
32	9/11/2009	17	319319	4396078	1	0	1	1	Secondary
33	9/11/2009	17	319412	4395683	1	0	1	1	Secondary
34	9/8/2009	17	319262	4396249	5	0	1	1	Secondary
35	9/7/2009	17	320269	4393441	5	0	3	2	Secondary
36	9/11/2009	17	319285	4395417	2	0	1	1	Secondary
37	9/11/2009	17	320018	4394740	1	0	1	1	Secondary
38	9/10/2009	17	322246	4392352	5	0	1	1	Secondary
39	9/7/2009	17	320502	4394523	5	0	1	1	Secondary
40	9/11/2009	17	319333	4395974	3	2	1	1	Secondary
41	9/8/2009	17	320588	4394711	2	0	1	1	Secondary
42	9/10/2009	17	319537	4394611	4	0	1	1	Secondary
43	9/8/2009	17	319255	4396372	3	0	1	1	Secondary
44	7/10/2010	17	319877	4394846	3	0	2	1	Secondary
45	7/10/2010	17	320081	4394625	1	0	1	1	Secondary
46	8/27/2010	17	320254	4393411	4	0	2	1	Secondary
47	8/26/2010	17	320839	4392440	6	0	2	1	Secondary
48	8/27/2010	17	320421	4393175	2	0	1	1	Secondary
49	8/27/2010	17	320196	4393797	24	8	9	1	Primary
50	8/27/2010	17	320234	4393296	1	1	1	1	Secondary
51	7/10/2010	17	319860	4394820	2	22	1	1	Secondary
52	8/26/2010	17	316754	4404802	2	8	1	1	Secondary

Appendix 5. Continued.

Tree #	Date of First Use	UTM	Easting	Northing	Roostdays	Max emergence	# Different Bats	Years Used	Primary or Secondary
53	8/26/2010	17	316623	4404891	4	0	1	1	Secondary
54	8/26/2010	17	320943	4391869	2	0	1	1	Secondary
55	8/26/2010	17	320369	4393057	10	65	3	1	Primary
56	8/27/2010	17	320261	4393464	3	0	2	1	Secondary

Appendix 6. Capture records for Indiana bats captured 2008–2010. Boldface records indicate recaptures.

Capture Date[a]	Site #	Capture Time	Species	Sex[b]	Weight (g)	Weight (oz)	Forearm Length (mm)	Forearm Length (in)	Age[c]	Reproductive Condition	Band # (ODNR)
8/30/2009	17	23:00	*Myotis sodalis*	f	7.3	0.26	41	1.61	adult	pl	8270
7/21/2010	**15**	**22:10**	***Myotis sodalis***	**f**	**8.5**	**0.30**	**39**	**1.54**	**adult**	**pl**	**8270**
7/17/2008	1	0:30	*Myotis sodalis*	f	7.2	0.25	36	1.42	adult	pl	13451
7/23/2008	3	21:25	*Myotis sodalis*	f	7.9	0.28	37	1.46	adult	nr	13452
5/26/2010	**17**	**21:15**	***Myotis sodalis***	**f**	**8.7**	**0.31**	**37**	**1.46**	**adult**	**p**	**13452**
8/11/2008	7	22:45	*Myotis sodalis*	f	6.9	0.24	38	1.50	adult	pl	13453
9/3/2008	1	23:30	*Myotis sodalis*	f	7.1	0.25	37	1.46	juv	nr	13456
8/30/2009	**17**	**23:45**	***Myotis sodalis***	**f**	**7.4**	**0.26**	**38**	**1.50**	**adult**	**pl**	**13456**
5/5/2009	1	22:05	*Myotis sodalis*	f	6.1	0.22	37	1.46	adult	u	15104
5/22/2009	3	21:45	*Myotis sodalis*	f	8	0.28	36	1.42	adult	u	15203
5/22/2009	3	21:45	*Myotis sodalis*	f	6.6	0.23	37	1.46	adult	u	15204
5/22/2009	3	21:45	*Myotis sodalis*	f	7.8	0.28	38	1.50	adult	u	15205
6/5/2009	14	0:50	*Myotis sodalis*	f	9	0.32	39	1.54	adult	u	15241
6/18/2009	1	22:20	*Myotis sodalis*	f	7.4	0.26	37	1.46	adult	l	15290
6/18/2009	1	1:00	*Myotis sodalis*	f	8.5	0.30	41	1.61	adult	u	15307
6/29/2009	4	0:50	*Myotis sodalis*	f	7.9	0.28	37	1.46	adult	l	15336
6/29/2009	4	0:50	*Myotis sodalis*	f	7.9	0.28	37	1.46	adult	l	15337
7/2/2009	17	22:10	*Myotis sodalis*	f	9.2	0.32	39	1.54	adult	l	15348
7/14/2009	3	21:25	*Myotis sodalis*	f	6.5	0.23	38	1.50	adult	l	15372
7/14/2009	3	21:50	*Myotis sodalis*	f	6.5	0.23	37	1.46	juv	nr	15374
7/14/2009	3	23:20	*Myotis sodalis*	f	8.7	0.31	37	1.46	adult	l	15381
7/21/2009	14	23:29	*Myotis sodalis*	m	5.8	0.20	37	1.46	juv	nr	15429
7/24/2009	17	21:35	*Myotis sodalis*	f	7.6	0.27	39	1.54	adult	l	15442

Appendix 6. Continued.

Capture Date[a]	Site #	Capture Time	Species	Sex[b]	Weight (g)	Weight (oz)	Forearm Length (mm)	Forearm Length (in)	Age[c]	Reproductive Condition	Band # (ODNR)
6/4/2010	**20**	**22:20**	***Myotis sodalis***	**f**	**9.3**	**0.33**	**38**	**1.50**	**adult**	**p**	**15442**
7/24/2009	17	22:19	*Myotis sodalis*	f	5.2	0.18	36	1.42	juv	nr	15444
7/24/2009	17	23:00	*Myotis sodalis*	f	8.2	0.29	38	1.50	adult	l	15446
7/24/2009	17	23:40	*Myotis sodalis*	f	8.3	0.29	40	1.57	adult	l	15449
7/24/2009	17	0:05	*Myotis sodalis*	f	7.8	0.28	38	1.50	adult	l	15450
8/3/2009	18	21:02	*Myotis sodalis*	f	6.2	0.22	38	1.50	juv	nr	15462
8/3/2009	18	23:55	*Myotis sodalis*	m	6.2	0.22	36	1.42	juv	nr	15480
8/3/2009	18	0:15	*Myotis sodalis*	m	6.7	0.24	38	1.50	juv	nr	15481
8/22/2009	1	21:10	*Myotis sodalis*	f	7.2	0.25	37	1.46	juv	nr	15504
6/16/2010	**20**	**23:30**	***Myotis sodalis***	**f**	**7.9**	**0.28**	**37**	**1.46**	**adult**	**l**	**15504**
8/30/2009	17	1:25	*Myotis sodalis*	f	6.7	0.24	37	1.46	juv	nr	15531
5/20/2010	3	22:50	*Myotis sodalis*	f	7.8	0.28	38	1.50	adult	u	18633
4/21/2010	17	22:20	*Myotis sodalis*	f	8.3	0.29	37	1.46	adult	u	18663
4/29/2010	17	21:00	*Myotis sodalis*	f	6.2	0.22	37	1.46	adult	u	18670
5/5/2010	4	23:45	*Myotis sodalis*	f	8.1	0.29	39	1.54	adult	u	18702
5/5/2010	4	23:45	*Myotis sodalis*	f	7.6	0.27	37	1.46	adult	u	18703
5/10/2010	17	21:20	*Myotis sodalis*	m	6	0.21	38	1.50	adult	nr	18715
5/10/2010	17	21:50	*Myotis sodalis*	f	7.2	0.25	38	1.50	adult	u	18716
6/4/2010	20	23:20	*Myotis sodalis*	f	9.1	0.32	38	1.50	adult	p	18771
6/4/2010	20	23:40	*Myotis sodalis*	f	9.2	0.32	39	1.54	adult	p	18772
6/16/2010	20	23:15	*Myotis sodalis*	f	7.6	0.27	37	1.46	adult	l	18801
6/16/2010	20	23:40	*Myotis sodalis*	f	8.3	0.29	40	1.57	adult	l	18802
6/16/2010	20	0:08	*Myotis sodalis*	f	8.3	0.29	37	1.46	adult	l	18805

Appendix 6. Continued

Capture Date[a]	Site #	Capture Time	Species	Sex[b]	Weight (g)	Weight (oz)	Forearm Length (mm)	Forearm Length (in)	Age[c]	Reproductive Condition	Band # (ODNR)
6/28/2010	1	22:00	*Myotis sodalis*	f	6.5	0.23	38	1.50	adult	l	18854
6/28/2010	1	23:05	*Myotis sodalis*	f	7.5	0.26	35	1.38	adult	l	18858
6/28/2010	1	23:10	*Myotis sodalis*	f	7.6	0.27	36	1.42	adult	l	18860
7/12/2010	17	22:35	*Myotis sodalis*	f	5.3	0.19	37	1.46	juv	nr	18870
7/12/2010	17	23:05	*Myotis sodalis*	f	6.2	0.22	37	1.46	juv	nr	18871
7/12/2010	17	23:20	*Myotis sodalis*	m	5.6	0.20	36	1.42	juv	nr	18872
7/12/2010	17	23:50	*Myotis sodalis*	m	5.4	0.19	36	1.42	juv	nr	18874
7/13/2010	20	0:10	*Myotis sodalis*	f	8.1	0.29	38	1.50	adult	l	18889
7/28/2010	10	22:00	*Myotis sodalis*	f	8.3	0.29	38	1.50	adult	pl	18938
8/4/2010	20	21:55	*Myotis sodalis*	f	6.8	0.24	37	1.46	juv	nr	18951
8/4/2010	20	21:55	*Myotis sodalis*	m	6.2	0.22	37	1.46	juv	nr	18952
8/6/2010	17	21:25	*Myotis sodalis*	f	6.7	0.24	38	1.50	juv	nr	18954
8/6/2010	17	0:50	*Myotis sodalis*	m	6.6	0.23	39	1.54	juv	nr	18971
8/18/2010	14	1:00	*Myotis sodalis*	f	6.8	0.24	39	1.54	juv	nr	19005

[a] Date of net night start. That is, bats with capture times after midnight are technically captured on the following day.
[b] m = Male, f = Female.
[c] juv = Juvenile.
[d] Reproductive codes: u = unknown, l = lactating, p = pregnant, pl = post lactating, nr = non reproductive.

Appendix 7. Roost tree emergence counts 2008–2010.

Date	Tree #	First Exit	Last Exit	Total Exited
8/13/2008	1	20:35	20:55	8
8/14/2008	1	20:26	20:41	15
8/15/2008	1	20:31	20:45	11
8/19/2008	1	20:31	20:39	9
8/23/2008	1	20:31	20:42	10
8/28/2008	1	20:16	20:24	3
8/29/2008	1	20:11	20:27	2
9/11/2008	5	19:55	20:10	16
9/11/2008	3			0
9/15/2008	5			0
9/15/2008	4			0
4/18/2009	1			0
5/29/2009	12	21:12	21:20	6
5/29/2009	7	21:05	21:25	37
6/1/2009	6	21:07	21:20	64
6/1/2009	9			0
6/4/2009	6	21:01	21:12	82
6/4/2009	10			0
6/4/2009	8	21:07	21:07	1
6/9/2009	5			0
6/9/2009	6	21:21	21:38	91
6/9/2009	7			0
6/12/2009	6	21:09	21:25	78
6/18/2009	1			0
6/22/2009	11	21:19	21:40	41
7/2/2009	7			0
7/2/2009	6	21:18	21:24	2
7/7/2009	7	21:07	21:30	18
7/7/2009	6			0
7/7/2009	15	21:12	21:28	4
7/7/2009	13	21:07	21:23	5
7/12/2009	6	20:58	21:45	65
7/13/2009	11	21:05	21:38	11
7/16/2009	6	20:53	21:35	97
7/16/2009	7	21:06	21:33	10
7/18/2009	7	20:55	21:20	41
7/24/2009	7	20:50	20:56	14
8/1/2009	7	20:52	21:08	14

Appendix 7. Continued.

Date	Tree #	First Exit	Last Exit	Total Exited
8/7/2009	26	20:40	20:52	57
8/7/2009	25	20:50	20:57	2
8/7/2009	6			0
8/13/2009	15			0
8/13/2009	8			0
8/13/2009	22			0
8/13/2009	19	20:42	20:44	6
8/14/2009	12			0
8/14/2009	25	20:38	20:38	2
8/14/2009	9			0
8/14/2009	26	20:38	21:00	58
8/30/2009	7	20:15	20:25	8
9/2/2009	40	20:09	20:09	2
9/2/2009	32			0
9/9/2009	7	20:05	20:16	4
9/9/2009	6	19:52	20:12	32
9/11/2009	6	19:53	20:10	35
9/11/2009	26			0
9/16/2009	6	19:44	19:57	34
9/29/2009	6			0
4/29/2010	6	20:38	20:49	51
4/29/2010	7			0
5/3/2010	6	20:39	20:56	84
5/4/2010	6	20:42	20:55	75
5/5/2010	6	20:41	20:56	79
5/6/2010	6	20:45	20:58	84
5/6/2010	26	20:54	20:54	1
5/7/2010	6	20:39	20:52	86
5/19/2010	6	20:47	21:12	109
6/10/2010	15			0
6/10/2010	6	21:08	21:24	75
6/10/2010	7	21:21	21:30	3
6/11/2010	46			0
6/11/2010	6	21:05	21:19	108
6/17/2010	49	21:10	21:24	8
6/25/2010	6			0
6/29/2010	49	21:12	21:24	7
6/29/2010	50	21:05	21:05	1

Appendix 7. Continued.

Date	Tree #	First Exit	Last Exit	Total Exited
6/30/2010	51	21:04	21:17	22
6/30/2010	8			21
7/6/2010	6	21:05	21:25	57
7/6/2010	52	21:09	21:26	8
7/6/2010	8			0
7/7/2010	25			0
7/7/2010	26			0
7/30/2010	55	20:55	21:09	65
7/30/2010	54			0
7/30/2010	48			0
8/6/2010	6	20:52	21:02	93
8/17/2010	55			0
8/17/2010	6			1
8/17/2010	56			0
9/13/2010	35			0
9/13/2010	7			0
9/13/2010	6			1

Appendix 8. Capture data for bats captured from Big Darby Creek during 2008–2010.

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/17/2008	1	21:10	*Myotis lucifugus*	f	7	37	adult	nr			
7/17/2008	1	21:10	*Myotis lucifugus*	f	7.2	40	adult	nr			
7/17/2008	1	21:10	*Myotis lucifugus*	f	6.8	37	juv	nr			
7/17/2008	1	21:10	*Myotis lucifugus*	f	6.8	36	adult	nr			
7/17/2008	1	21:10	*Myotis lucifugus*	f	6.5	38	adult	nr			
7/17/2008	1	21:10	*Myotis lucifugus*	m	7	39	juv	nr			
7/17/2008	1	21:10	*Myotis lucifugus*	f	7.4	37	adult	pl			
7/17/2008	1	21:10	*Myotis lucifugus*	f	7	38	juv	nr			
7/17/2008	1	21:10	*Myotis lucifugus*	f	7.2	35	juv	nr			
7/17/2008	1	21:10	*Myotis lucifugus*	f	6.8	38	adult	nr			
7/17/2008	1	21:10	*Myotis lucifugus*	f	6.9	37	adult	nr			
7/17/2008	1	23:00	*Eptesicus fuscus*	f	20.2	48	adult	nr			
7/17/2008	1	23:00	*Lasiurus cinereus*	f	23.2	48	juv	nr			
7/17/2008	1	23:05	*Myotis lucifugus*	m	6	35	juv	nr			
7/17/2008	1	23:00	*Myotis lucifugus*	m	8	40	adult	u			
7/17/2008	1	0:10	*Myotis lucifugus*	m	8	38	adult	u			
7/17/2008	1	0:30	*Myotis sodalis*	f	7.2	36	adult	pl	13451	n	
7/17/2008	1	0:30	*Eptesicus fuscus*	f	24	46	adult	nr			
7/17/2008	1	0:30	*Myotis lucifugus*	f	9.8	41	adult	nr			
7/17/2008	1	1:00	*Myotis lucifugus*	f	8.6	39	adult	nr			
7/17/2008	1	1:00	*Eptesicus fuscus*	f	21.4	42	adult	pl			
7/18/2008	2	21:30	*Myotis lucifugus*	f	6.9	36	juv	nr			
7/18/2008	2	21:30	*Myotis lucifugus*	m	6.7	45	juv	nr			
7/18/2008	2	22:20	*Myotis lucifugus*	f	5.4	36	juv	nr			
7/18/2008	2	22:20	*Myotis lucifugus*	f	7	36	adult	pl			
7/18/2008	2	22:35	*Eptesicus fuscus*	f	20	44	adult	pl			
7/18/2008	2	22:35	*Eptesicus fuscus*	f	21	45	adult	pl			
7/18/2008	2	22:35	*Myotis lucifugus*	m	5.7	34	juv	nr			
7/18/2008	2	22:50	*Eptesicus fuscus*								y
7/18/2008	2	23:00	*Lasiurus borealis*	m	10.7	37	juv	nr			
7/18/2008	2	23:00	*Myotis lucifugus*	f	7	34	juv	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/18/2008	2	23:00	*Myotis lucifugus*	m	7.5	35	juv	nr			
7/18/2008	2	23:15	*Lasiurus borealis*								y
7/23/2008	3	21:05	*Lasiurus borealis*	f	14.4	40	adult	pl			
7/23/2008	3	21:25	*Lasiurus borealis*	m	9.4	39	juv	nr			
7/23/2008	3	21:25	*Lasiurus borealis*	m	9.6	38	juv	nr			
7/23/2008	3	21:25	*Myotis sodalis*	f	7.9	37	adult	nr	13452	n	
7/23/2008	3	22:00	*Lasiurus borealis*	m	9.8	39	juv	nr			
7/23/2008	3	22:45	*Lasiurus borealis*	f	9.9	39	juv	nr			
7/23/2008	3	22:56	*Myotis lucifugus*	f	7.1	34	juv	nr			
7/23/2008	3	22:56	*Eptesicus fuscus*	f	17.9	45	juv	nr			
7/23/2008	3	23:15	*Eptesicus fuscus*	m	18.9	42	adult	u			
7/23/2008	3	0:03	*Eptesicus fuscus*	m	17.6	43	juv	nr			
7/24/2008	4	21:30	*Eptesicus fuscus*	f	19	44	adult	nr			
7/24/2008	4	21:24	*Eptesicus fuscus*	f	18.8	44	adult	nr			
7/24/2008	4	22:02	*Eptesicus fuscus*	f	20	45	adult	pl			
7/24/2008	4	22:08	*Eptesicus fuscus*	f	16	44	juv	nr			
7/24/2008	4	22:08	*Eptesicus fuscus*	f	20.9	44	adult	pl			
7/24/2008	4	22:08	*Eptesicus fuscus*	m	17.4	43	adult	u			
7/24/2008	4	22:55	*Eptesicus fuscus*	f	20.2	43	adult	pl			
7/24/2008	4	22:55	*Eptesicus fuscus*	m	17.8	43	juv	nr			
7/24/2008	4	22:55	*Myotis lucifugus*	f	8.6	34	adult	nr			
7/24/2008	4	23:10	*Lasiurus borealis*	m	9.9	36	adult	u			
7/24/2008	4	23:25	*Myotis lucifugus*	m	5.9	35	juv	nr			
7/24/2008	4	23:50	*Eptesicus fuscus*	m	16.6	40	juv	nr			
7/24/2008	4	23:51	*Lasiurus borealis*	m	12.8	38	adult	u			
7/24/2008	4	0:05	*Myotis lucifugus*	m	6.8	35	juv	nr			
7/24/2008	4	0:05	*Myotis lucifugus*	m	8.2	35	adult	u			
7/24/2008	4	0:08	*Myotis lucifugus*	f	6.3	33	juv	nr			
7/25/2008	5	21:10	*Myotis lucifugus*	f	8.2	35	adult	pl			
7/25/2008	5	21:11	*Myotis lucifugus*	f	7.2	34	adult	pl			
7/25/2008	5	21:12	*Myotis lucifugus*	m	5.8	31	juv	nr			
7/25/2008	5	21:13	*Myotis lucifugus*	f	7.7	33	adult	pl			
7/25/2008	5	21:40	*Lasiurus borealis*	f	13.5	38	adult	pl			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/25/2008	5	21:58	*Myotis lucifugus*	m	6.2	34	juv	nr			
7/25/2008	5	21:59									y
7/25/2008	5	21:58									y
7/25/2008	5	23:21	*Myotis lucifugus*	m	7.3	33	juv	nr			
7/25/2008	5	23:23	*Nycticeius humeralis*	f	12.4	34	adult	p			
7/25/2008	5	23:45	*Myotis lucifugus*	f	8.8	35	adult	nr			
7/29/2008	6	21:15	*Myotis lucifugus*	f	7.2	37	adult	pl			
7/29/2008	6	21:15	*Myotis lucifugus*	f	7.7	37	adult	nr			
7/29/2008	6	21:15	*Myotis lucifugus*	f	8	36	adult	pl			
7/29/2008	6	21:15	*Myotis lucifugus*	f	7.4	38	adult	pl			
7/29/2008	6	21:15	*Myotis septentrionalis*	f	7.1	36	adult	pl			
7/29/2008	6	21:15	*Myotis lucifugus*	f	7.2	37	adult	nr			
7/29/2008	6	21:15	*Myotis lucifugus*	f	6.4	37	juv	nr			
7/29/2008	6	21:15	*Myotis lucifugus*	f	8.4	38	juv	nr			
7/29/2008	6	21:15	*Myotis lucifugus*	f	8.2	39	adult	pl			
7/29/2008	6	21:15	*Myotis lucifugus*	f	7.6	37	juv	nr			
7/29/2008	6	21:15	*Myotis lucifugus*	f	7.6	38	adult	pl			
7/29/2008	6	21:15	*Myotis lucifugus*	f	8.3	38	adult	pl			
7/29/2008	6	21:15	*Myotis lucifugus*	m	6.4	39	juv	nr			
7/29/2008	6	21:15	*Myotis lucifugus*	f	8.4	37	adult	pl			
7/29/2008	6	23:08	*Myotis lucifugus*	f	7.5	37	juv	nr			
7/29/2008	6	23:30	*Myotis lucifugus*	f	6.2	34	juv	nr			
7/29/2008	6	0:15	*Myotis lucifugus*	f	8.7	35	adult	nr			
7/29/2008	6	0:15	*Myotis lucifugus*	f	6.3	34	juv	nr			
7/29/2008	6	0:15	*Myotis lucifugus*	m	6.9	37	juv	nr			
7/29/2008	6	0:15	*Myotis lucifugus*	m	6.4	34	juv	nr			
7/29/2008	6	1:00	*Myotis lucifugus*	f	7	34	juv	nr			
8/1/2008	3	20:54	*Lasiurus borealis*	m	9.3	39	juv	nr			
8/1/2008	3	20:55	*Perimyotis subflavus*	f	6.2	36	adult	pl			
8/1/2008	3	21:05	*Lasiurus borealis*	m	9.1	38	juv	nr			
8/1/2008	3	22:50	*Eptesicus fuscus*	f	26	48	adult	p			
8/4/2008	7	21:45	*Myotis lucifugus*	m	8.8	35	juv	nr			
8/5/2008	8	21:15	*Lasiurus borealis*	f	10.4	41	juv	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/5/2008	8	21:15	*Myotis lucifugus*	f	7.8	37	adult	nr			
8/5/2008	8	21:15	*Myotis lucifugus*	f	8.8	36	adult	pl			
8/5/2008	8	21:20	*Nycticeius humeralis*	f	9.2	35	adult	nr			
8/5/2008	8	21:50	*Perimyotis subflavus*	f	7.3	33	juv	nr			
8/5/2008	8	21:50	*Myotis*								y
8/5/2008	8	21:50	*Nycticeius humeralis*	f	10.4	36	juv	nr			
8/5/2008	8	22:10	*Perimyotis subflavus*	m	6.1	33	juv	nr			
8/5/2008	8	22:15	*Eptesicus fuscus*	m	19	46	juv	nr			
8/5/2008	8	22:30	*Eptesicus fuscus*	m	16.6	45	juv	nr			
8/5/2008	8	22:30	*Eptesicus fuscus*	m	17.2	44	juv	nr			
8/5/2008	8	22:45	*Eptesicus fuscus*	f	23	45	adult	nr			
8/5/2008	8	22:55	*Myotis lucifugus*	m	6.8	35	adult	u			
8/5/2008	8	23:05	*Myotis lucifugus*	f	9.2	35	adult	nr			
8/5/2008	8	23:25	*Myotis*								y
8/5/2008	8	23:25	*Myotis lucifugus*	m	6.4	34	juv	nr			
8/5/2008	8	23:30	*Myotis lucifugus*	f	9.8	37	adult	nr			
8/5/2008	8	23:50	*Myotis septentrionalis*	f	6	31	juv	nr			
8/5/2008	8	0:10	*Eptesicus fuscus*	f	17.1	45	juv	nr			
8/5/2008	8	0:05	*Myotis*								y
8/5/2008	8	0:25	*Nycticeius humeralis*	f	10.1	34	juv	nr			
8/5/2008	8	0:25	*Myotis lucifugus*	f	7	35	juv	nr			
8/6/2008	3	20:55	*Lasiurus borealis*	m	9	39	juv	nr			
8/6/2008	3	21:00	*Nycticeius humeralis*								y
8/6/2008	3	21:00	*Lasiurus borealis*								y
8/6/2008	3	21:00	*Lasiurus borealis*	m	9	39	juv	nr			
8/6/2008	3	21:15	*Lasiurus borealis*	m	8.9	39	juv	nr			
8/6/2008	3	21:15	*Myotis lucifugus*	f	8.7	37	adult	nr			
8/6/2008	3	21:30	*Myotis lucifugus*	f	7.9	36	juv	nr			
8/6/2008	3	21:30	*Myotis lucifugus*	f	7.4	35	adult	nr			
8/6/2008	3	21:30	*Myotis lucifugus*	m	6.4	36	adult	u			
8/6/2008	3	21:30	*Myotis lucifugus*	f	8.4	35	adult	pl			
8/6/2008	3	21:30	*Myotis lucifugus*	f	9	38	adult	pl			
8/6/2008	3	21:30	*Myotis lucifugus*	f	8.4	37	juv	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/6/2008	3	22:00	*Eptesicus fuscus*	m	15.8	47	juv	nr			
8/6/2008	3	22:58	*Eptesicus fuscus*	f	22.8	46	juv	nr			
8/6/2008	3	22:58	*Eptesicus fuscus*	f	21.8	44	adult	pl			
8/6/2008	3	22:58	*Myotis lucifugus*	m	8.6	34	adult	u			
8/6/2008	3	23:03	*Perimyotis subflavus*	f	6.6	34	juv	nr			
8/6/2008	3	23:28	*Myotis lucifugus*	m	7.6	36	juv	nr			
8/6/2008	3	23:40	*Myotis lucifugus*	f	9.8	37	adult	pl			
8/6/2008	3	0:17	*Myotis lucifugus*	f	7.3	34	juv	nr			
8/8/2008	9	21:00	*Myotis lucifugus*	m	5.9	35	juv	nr			
8/8/2008	9	21:00	*Myotis lucifugus*	f	8	36	juv	nr			
8/8/2008	9	21:00	*Myotis lucifugus*	f	6	35	juv	nr			
8/8/2008	9	21:00	*Myotis lucifugus*	f	7.1	36	juv	nr			
8/8/2008	9	21:05	*Myotis lucifugus*	f	7.2	36	adult	pl			
8/8/2008	9	21:05	*Myotis lucifugus*	f	7.9	35	juv	nr			
8/8/2008	9	21:05	*Myotis lucifugus*	f	8.2	36	adult	pl			
8/8/2008	9	21:05	*Myotis lucifugus*	f	6	35	juv	nr			
8/8/2008	9	21:10	*Myotis lucifugus*	m	7.3	35	juv	nr			
8/8/2008	9	21:10	*Myotis lucifugus*	f	6.3	35	juv	nr			
8/8/2008	9	21:15	*Myotis lucifugus*	f	7.8	36	adult	pl			
8/8/2008	9	21:15	*Myotis lucifugus*	m	6.7	35	juv	nr			
8/8/2008	9	21:15	*Myotis lucifugus*	m	5.9	36	juv	nr			
8/8/2008	9	21:15	*Myotis lucifugus*	f	6	35	juv	nr			
8/8/2008	9	21:15	*Myotis lucifugus*	f	7	35	juv	nr			
8/8/2008	9	21:20	*Myotis lucifugus*	f	7.4	36	adult	pl			
8/8/2008	9	21:20	*Myotis lucifugus*	f	6.8	35	juv	nr			
8/8/2008	9	21:20	*Myotis lucifugus*	f	6.9	36	juv	nr			
8/8/2008	9	21:20	*Myotis lucifugus*	f	7.2	37	adult	pl			
8/8/2008	9	21:20	*Myotis lucifugus*	m	5.8	35	juv	nr			
8/8/2008	9	21:20	*Myotis lucifugus*	m	6.3	35	juv	nr			
8/8/2008	9	22:28	*Myotis lucifugus*	f	5.9	34	juv	nr			
8/8/2008	9	22:30	*Lasiurus borealis*	f	10.2	40	juv	nr			
8/8/2008	9	22:40	*Myotis lucifugus*	f	11.4	36	juv	nr			
8/8/2008	9	22:50	*Myotis lucifugus*	m	7.4	35	juv	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/8/2008	9	23:20	*Myotis lucifugus*	m	8	36	juv	nr			
8/8/2008	9	23:47	*Perimyotis subflavus*	f	6.2	33	juv	nr			
8/8/2008	9	0:20	*Myotis lucifugus*	f	7.2	38	adult	u			
8/8/2008	9	0:20	*Myotis lucifugus*	f	7.4	36	juv	nr			
8/8/2008	9	0:20	*Myotis lucifugus*	f	6.2	36	juv	nr			
8/8/2008	9	0:20	*Myotis lucifugus*	f	7.2	35	juv	nr			
8/8/2008	9	0:45	*Myotis lucifugus*	f	8.3	35	adult	pl			
8/8/2008	9	0:58	*Myotis lucifugus*	m	7.6	35	juv	nr			
8/11/2008	7	20:55	*Perimyotis subflavus*	f	5.9	34	adult	pl			
8/11/2008	7	21:00	*Lasiurus borealis*								y
8/11/2008	7	21:10	*Myotis septentrionalis*	f	6.4	35	juv	nr			
8/11/2008	7	21:10	*Myotis septentrionalis*	f	7.4	35	adult	pl			
8/11/2008	7	21:20	*Eptesicus fuscus*	m	13.4	43	juv	nr			
8/11/2008	7	21:37	*Myotis septentrionalis*	f	6.6	35	adult	nr			
8/11/2008	7	21:48	*Lasiurus borealis*	f	12.2	39	juv	nr			
8/11/2008	7	22:10	*Eptesicus fuscus*	m	15.2	46	juv	nr			
8/11/2008	7	22:14	*Myotis lucifugus*	f	7.7	35	juv	nr			
8/11/2008	7	22:25	*Myotis septentrionalis*	f	6.9	35	juv	nr			
8/11/2008	7	22:45	*Myotis sodalis*	f	6.9	38	adult	pl	13453	n	
8/11/2008	7	23:20	*Myotis*								y
8/11/2008	7	23:45	*Myotis septentrionalis*	f	6.3	34	adult	nr			
8/11/2008	7	0:00	*Myotis septentrionalis*	m	5.9	34	juv	nr			
8/12/2008	10	21:00	*Myotis lucifugus*	f							y
8/12/2008	10	21:00	*Myotis septentrionalis*	f	5.3	33	juv	nr			
8/12/2008	10	21:00	*Myotis lucifugus*	f	6.7	34	juv	nr			
8/12/2008	10	21:00	*Myotis lucifugus*	m	6.8	35	juv	nr			
8/12/2008	10	21:00	*Lasiurus borealis*	f	10.5	40	juv	nr			
8/12/2008	10	21:00	*Eptesicus fuscus*	m	13.7	44	adult	nr			
8/12/2008	10	21:00	*Myotis lucifugus*	f	7.4	35	juv	nr			
8/12/2008	10	21:00	*Myotis lucifugus*	f	7.9	34	juv	nr			
8/12/2008	10	21:00	*Myotis lucifugus*	f	6.1	34	juv	nr			
8/12/2008	10	21:00	*Myotis lucifugus*	f	6.5	33	juv	nr			
8/12/2008	10	21:00	*Myotis lucifugus*	f	8.3	35	juv	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/12/2008	10	21:00	*Myotis lucifugus*	m	6.6	33	juv	nr			
8/12/2008	10	21:00	*Myotis lucifugus*		6.7	35	juv	nr			
8/12/2008	10	21:00	*Myotis lucifugus*	f	5.9	34	juv	nr			
8/12/2008	10	21:00	*Lasiurus borealis*	f	9.3	39	juv	nr			
8/12/2008	10	21:55	*Perimyotis subflavus*								y
8/12/2008	10	21:57	*Eptesicus fuscus*	f	19.8	48	juv	nr			
8/12/2008	10	22:12	*Myotis lucifugus*	f	8.3	36	adult	u			
8/12/2008	10	22:15	*Myotis*								y
8/12/2008	10	22:40	*Myotis lucifugus*	m	6	33	juv	nr			
8/12/2008	10	22:40	*Myotis septentrionalis*	f	6.9	34	juv	nr			
8/12/2008	10	22:40	*Myotis septentrionalis*	f	6.8	32	adult	pl			
8/12/2008	10	23:05	*Eptesicus fuscus*	f	21.8	44	juv	nr			
8/12/2008	10	23:05	*Myotis lucifugus*	m	10.4	38	adult	u			
8/12/2008	10	23:56	*Myotis septentrionalis*	m	5.5	32	juv	nr			
8/12/2008	10	23:56	*Lasiurus borealis*	f	12	40	juv	nr			
8/12/2008	10	23:56	*Eptesicus fuscus*	f	16.2	45	juv	nr			
8/12/2008	10	0:02	*Eptesicus fuscus*	f	18.2	46	adult	u			
8/12/2008	10	0:02	*Myotis lucifugus*	f	9.3	35	adult	pl			
8/12/2008	10	0:02	*Eptesicus fuscus*	f	19.3	43	juv	nr			
8/12/2008	10	0:24	*Lasiurus borealis*	m	12.1	38	adult	u			
8/12/2008	10	0:36	*Myotis lucifugus*	f	8.8	34	adult	u			
8/13/2008	1	20:45	*Myotis lucifugus*	m	6.8	34	juv	nr			
8/13/2008	1	20:45	*Myotis lucifugus*	f	7.8	35	adult	u			
8/13/2008	1	20:45	*Myotis lucifugus*	f	7.4	35	adult	pl			
8/13/2008	1	20:50	*Myotis lucifugus*	m	6.7	35	juv	nr			
8/13/2008	1	20:51	*Myotis lucifugus*	f	6.9	36	juv	nr			
8/13/2008	1	20:52	*Lasiurus borealis*	f	8.4	36	juv	nr			
8/13/2008	1	20:55	*Myotis lucifugus*	f	9.4	36	adult	pl			
8/13/2008	1	21:00	*Myotis lucifugus*	f	8	34	juv	nr			
8/13/2008	1	21:00	*Eptesicus fuscus*	f	13.1	46	juv	nr			
8/13/2008	1	21:15	*Myotis lucifugus*	m	8.8	36	adult	u			
8/13/2008	1	21:15	*Myotis lucifugus*	f	7.2	35	adult	u			
8/13/2008	1	21:15	*Eptesicus fuscus*	f	17.4	45	juv	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/13/2008	1	21:22	*Myotis lucifugus*	m	7	34	juv	nr			
8/13/2008	1	21:28	*Eptesicus fuscus*	f	15.8	44	juv	nr			
8/13/2008	1	21:28	*Eptesicus fuscus*	f	17.5	45	juv	nr			
8/13/2008	1	21:40	*Eptesicus fuscus*	m	15.1	43	juv	nr			
8/13/2008	1	21:40	*Eptesicus fuscus*	m	16.1	45	juv	nr			
8/13/2008	1	21:44	*Myotis lucifugus*	f	8	35	juv	nr			
8/13/2008	1	22:05	*Perimyotis subflavus*	m	4	34	juv	nr			
8/13/2008	1	22:05	*Myotis septentrionalis*	f	7.1	34	adult	pl			
8/13/2008	1	22:05	*Lasiurus borealis*	f	10.3	40	juv	nr			
8/13/2008	1	22:30	*Eptesicus fuscus*	f	21.4	46	adult	u			
8/13/2008	1	22:30	*Eptesicus fuscus*	m	17.9	45	juv	nr			
8/13/2008	1	22:30	*Eptesicus fuscus*	f	20.4	47	adult	u			
8/13/2008	1	22:30	*Eptesicus fuscus*								y
8/13/2008	1	22:53	*Eptesicus fuscus*	f	22.1	44					
8/13/2008	1	22:59	*Eptesicus fuscus*								y
8/13/2008	1	23:00	*Eptesicus fuscus*	m	17.7	44	adult	u			
8/13/2008	1	23:10	*Eptesicus fuscus*	f	18	46	adult	pl			
8/13/2008	1	23:10	*Eptesicus fuscus*	f	21	46	adult	pl			
8/13/2008	1	23:10	*Eptesicus fuscus*	f	17.2	45	juv	nr			
8/13/2008	1	23:10	*Myotis lucifugus*	f	8.6	36	adult	pl			
8/13/2008	1	23:10	*Eptesicus fuscus*	f	23.8	46	adult	pl			
8/13/2008	1	23:15	*Lasiurus borealis*	m	10.8	36	juv	nr			
8/13/2008	1	23:17	*Lasiurus borealis*	m	9.9	36	juv	nr			
8/13/2008	1	23:58	*Eptesicus fuscus*	f	24.8	45	adult	pl			
8/13/2008	1	23:58	*Eptesicus fuscus*	f	20	46	adult	pl			
8/15/2008	11	20:50	*Myotis lucifugus*	f	7.8	35	juv	nr			
8/15/2008	11	20:50	*Myotis lucifugus*	f	7.8	36	juv	nr			
8/15/2008	11	20:50	*Myotis lucifugus*	f	7.3	35	juv	nr			
8/15/2008	11	20:52	*Myotis lucifugus*	f	7.8	39	juv	nr			
8/15/2008	11	20:52	*Myotis lucifugus*	f	8.1	34	adult	pl			
8/15/2008	11	20:52	*Eptesicus fuscus*	f	19.3	47	juv	nr			
8/15/2008	11	20:54	*Myotis lucifugus*	f	7.2	33	adult	pl			
8/15/2008	11	20:54	*Myotis lucifugus*	f	7	36	juv	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/15/2008	11	20:54	*Myotis lucifugus*	m	6.9	34	adult	u			
8/15/2008	11	20:56	*Myotis lucifugus*	f	6.2	33	juv	nr			
8/15/2008	11	20:56	*Myotis lucifugus*	f	7.8	35	adult	u			
8/15/2008	11	20:56	*Perimyotis subflavus*	f	6.2	33	adult	pl			
8/15/2008	11	20:58	*Myotis lucifugus*	m	7.4	36	adult	u			
8/15/2008	11	20:58	*Myotis lucifugus*	f	8.5	36	adult	u			
8/15/2008	11	20:58	*Myotis lucifugus*	m	6.5	35	juv	nr			
8/15/2008	11	20:58	*Myotis lucifugus*	m	6.9	34	adult	u			
8/15/2008	11	21:04	*Lasiurus borealis*								y
8/15/2008	11	23:15	*Perimyotis subflavus*	m	5.9	33	juv	nr			
8/15/2008	11	23:35	*Myotis lucifugus*	f	7.6	36	juv	nr			
8/15/2008	11	23:35	*Myotis lucifugus*	f	7.7	36	juv	nr			
8/15/2008	11	23:35	*Myotis lucifugus*	f	8.5	36	adult	pl			
8/15/2008	11	0:00	*Myotis septentrionalis*	f	7.3	36	adult	pl			
8/18/2008	12	20:50	*Myotis lucifugus*	f	7.8	35	adult	u			
8/18/2008	12	20:50	*Myotis lucifugus*	f	6.3	36	juv	nr			
8/18/2008	12	20:50	*Myotis lucifugus*	f	8.2	37	adult	pl			
8/18/2008	12	20:50	*Perimyotis subflavus*	f	4.9	33	juv	nr			
8/18/2008	12	20:50	*Myotis lucifugus*	m	8.1	36	adult	d			
8/18/2008	12	20:50	*Myotis lucifugus*	f	6.4	35	juv	nr			
8/18/2008	12	20:50	*Myotis lucifugus*	f	6.3	34	juv	nr			
8/18/2008	12	21:00	*Myotis lucifugus*	f	8.1	37	juv	nr			
8/18/2008	12	21:00	*Myotis lucifugus*	f	7	35	juv	nr			
8/18/2008	12	21:00	*Myotis lucifugus*	f	7.3	35	juv	nr			
8/18/2008	12	21:00	*Myotis lucifugus*	f	7.9	36	juv	nr			
8/18/2008	12	21:10	*Myotis lucifugus*	f	6.8	34	juv	nr			
8/18/2008	12	21:10	*Myotis lucifugus*	f	7.6	35	juv	nr			
8/18/2008	12	21:10	*Myotis lucifugus*	f	5.9	36	juv	nr			
8/18/2008	12	21:10	*Myotis lucifugus*	m	7.6	36	juv	nr			
8/18/2008	12	22:33	*Nycticeius humeralis*	f	11.2	37	juv	nr			
8/18/2008	12	22:40	*Lasiurus borealis*	f	11.4	41	juv	nr			
8/18/2008	12	22:53	*Myotis lucifugus*	f	7.2	34	juv	nr			
8/18/2008	12	23:34	*Myotis septentrionalis*	m	5.6	34	juv	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/18/2008	12	23:35	*Perimyotis subflavus*	m	4.5	32	juv	nr			
8/18/2008	12	23:37	*Myotis lucifugus*	m	8	35	juv	nr			
8/18/2008	12	23:37									y
8/18/2008	12	23:55	*Myotis lucifugus*	m	8	36	juv	nr			
8/19/2008	13	20:35	*Eptesicus fuscus*	f	18	45	juv	nr			
8/19/2008	13	20:35	*Myotis lucifugus*	m	6.6	35	adult	d			
8/19/2008	13	20:35	*Eptesicus fuscus*	m	14.8	44	adult	d			
8/19/2008	13	20:45	*Eptesicus fuscus*	f	14.2	45	juv	nr			
8/19/2008	13	20:45	*Eptesicus fuscus*	m	14.3	43	juv	nr			
8/19/2008	13	20:45	*Eptesicus fuscus*	f	16.2	45	juv	nr			
8/19/2008	13	0:00	*Lasiurus borealis*	m	9.2	40	juv	nr			
8/20/2008	14	20:40	*Myotis lucifugus*	m	9.1	35	adult	d			
8/20/2008	14	20:40	*Myotis lucifugus*	f	7.7	37	juv	nr			
8/20/2008	14	20:40	*Myotis lucifugus*	f	7.9	36	juv	nr			
8/20/2008	14	20:40	*Myotis lucifugus*	m	6	35	adult	d			
8/20/2008	14	20:40	*Myotis lucifugus*	f	9	36	juv	nr			
8/20/2008	14	20:40	*Myotis lucifugus*	f	7.9	35	juv	nr			
8/20/2008	14	20:40	*Myotis lucifugus*	f	7.5	36	juv	nr			
8/20/2008	14	20:40	*Myotis lucifugus*	f	6.9	35	juv	nr			
8/20/2008	14	20:40	*Myotis lucifugus*	f	6.4	35	juv	nr			
8/20/2008	14	20:40	*Myotis lucifugus*	f	8.4	37	juv	nr			
8/20/2008	14	20:40	*Myotis lucifugus*	f	7.9	36	juv	nr			
8/20/2008	14	20:40	*Myotis lucifugus*	m	6.7	36	juv	d			
8/20/2008	14	21:45	*Eptesicus fuscus*	m	18.4	45	adult	d			
8/20/2008	14	21:50	*Myotis lucifugus*	m	8.1	35	adult	d			
8/20/2008	14	21:55	*Myotis lucifugus*	f	9.9	35	adult	nr			
8/20/2008	14	22:15	*Myotis lucifugus*	f	7.2	35	juv	nr			
8/20/2008	14	22:30	*Myotis lucifugus*	f	7.7	36	adult	d			
8/20/2008	14	22:35	*Myotis lucifugus*	f	7.2	35	juv	nr			
8/20/2008	14	22:35	*Myotis lucifugus*	m	7.3	36	adult	d			
8/20/2008	14	22:35	*Myotis lucifugus*	f	8.4	35	adult	nr			
8/20/2008	14	22:47	*Lasiurus borealis*	f	10.9	42	juv	nr			
8/20/2008	14	22:53	*Myotis lucifugus*	f	8	34	adult	pl			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/20/2008	14	23:27	*Lasiurus borealis*	f	11.3	40	juv	nr			
8/20/2008	14	23:40	*Myotis lucifugus*	m	7.2	36	juv	nr			
8/20/2008	14	0:00	*Lasiurus borealis*	m	9.4	39	juv	nr			
8/21/2008	15	20:42	*Lasiurus borealis*	m	9.2	38	juv	nr			
8/21/2008	15	21:10	*Eptesicus fuscus*	f	15	45	juv	nr			
8/21/2008	15	21:25	*Eptesicus fuscus*	f	23.8	49	adult	pl			
8/21/2008	15	21:25	*Myotis lucifugus*	f	8.6	37	juv	nr			
8/21/2008	15	21:25	*Myotis lucifugus*	f	8.1	36	juv	nr			
8/21/2008	15	21:45	*Eptesicus fuscus*	m	16.3	46	adult	d			
8/21/2008	15	21:55	*Myotis lucifugus*	f	9.8	36	adult	pl			
8/21/2008	15	21:55	*Myotis lucifugus*	f	8.2	37	juv	nr			
8/21/2008	15	21:55	*Eptesicus fuscus*	m	21.2	46	adult	d			
8/21/2008	15	22:25	*Myotis lucifugus*	f	9.8	36	adult	pl			
8/21/2008	15	22:25	*Myotis lucifugus*	m	8.5	36	adult	d			
8/21/2008	15	22:55	*Myotis lucifugus*	f	6.8	35	juv	nr			
8/21/2008	15	23:25	*Eptesicus fuscus*	m	16.5	45	juv	d			
8/21/2008	15	23:40	*Perimyotis subflavus*	f	6.1	34	juv	nr			
8/21/2008	15	0:05	*Eptesicus fuscus*	f	24.4	47	adult	u			
8/22/2008	16	20:45	*Myotis lucifugus*	f	7.9	37	adult	nr			
8/22/2008	16	20:45	*Myotis lucifugus*	f	7.4	34	juv	nr			
8/22/2008	16	20:45	*Myotis lucifugus*	f	8.2	36	juv	nr			
8/22/2008	16	20:45	*Myotis lucifugus*	f	9.9	36	adult	nr			
8/22/2008	16	20:45	*Myotis lucifugus*	f	7.8	36	juv	nr			
8/22/2008	16	20:57	*Myotis lucifugus*	f	7.4	35	juv	nr			
8/22/2008	16	20:57	*Myotis lucifugus*	f	9.6	36	juv	nr			
8/22/2008	16	20:57	*Myotis lucifugus*	f	9.3	35	juv	nr			
8/22/2008	16	20:57	*Myotis lucifugus*	f	7.7	36	adult	nr			
8/22/2008	16	20:57	*Myotis lucifugus*	f	6.6	35	juv	nr			
8/22/2008	16	21:17	*Myotis lucifugus*	f	7.6	35	adult	u			
8/22/2008	16	21:35	*Eptesicus fuscus*	m	17.6	46	juv	nr			
8/22/2008	16	22:15	*Myotis lucifugus*	f	7.4	35	juv	nr			
8/22/2008	16	22:35	*Lasiurus borealis*								y
8/22/2008	16	22:40	*Myotis lucifugus*	f	7.9	35	adult	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/22/2008	16	22:55	*Myotis lucifugus*	f	7.8	35	adult	nr			
8/22/2008	16	22:55	*Myotis lucifugus*	f	8.2	34	juv	nr			
8/22/2008	16	22:55	*Lasiurus borealis*	f	11.4	40	juv	nr			
8/22/2008	16	23:30	*Myotis lucifugus*	f	6.3	34	juv	nr			
8/22/2008	16	23:54	*Myotis lucifugus*	f	6.5	37	juv	nr			
8/22/2008	16	0:10	*Lasiurus borealis*	f	12.9	42	adult	nr			
8/22/2008	16	0:30	*Lasiurus borealis*	f	11.9	40	juv	nr			
8/22/2008	16	0:30	*Lasiurus borealis*	f	11.2	40	juv	nr			
8/22/2008	16	0:30	*Lasiurus borealis*	f	11.2	42	juv	nr			
8/22/2008	16	0:35	*Myotis lucifugus*	f	7	35	juv	nr			
8/22/2008	16	1:10	*Nycticeius humeralis*	f	13.3	40	juv	nr			
8/25/2008	8	20:40	*Myotis lucifugus*	m	5.7	35	juv	nr			
8/25/2008	8	20:45	*Myotis lucifugus*	f	7.8	35	adult	nr			
8/25/2008	8	20:50	*Myotis lucifugus*	f	8.6	36	adult	pl			
8/25/2008	8	23:45	*Lasiurus borealis*	f	11.9	39	juv	nr			
8/26/2008	6	21:00	*Myotis lucifugus*	m	6.5	34	juv	nr			
8/26/2008	6	21:00	*Myotis lucifugus*	f	9	36	adult	nr			
8/26/2008	6	21:10	*Nycticeius humeralis*	m	11.5	36	juv	d			
8/26/2008	6	21:28	*Myotis lucifugus*	f	8.4	35	adult	nr			
8/26/2008	6	21:28	*Perimyotis subflavus*	m	6.8	34	juv	d			
8/26/2008	6	21:28	*Myotis lucifugus*	m	10.8	36	juv	u			
8/26/2008	6	21:28	*Myotis lucifugus*	f	10	37	adult	nr			
8/26/2008	6	23:10	*Lasiurus borealis*	f	13.6	40	juv	nr			
8/29/2008	7	20:08	*Lasiurus borealis*	f	11.9	38	adult	nr			
9/2/2008	7	20:25	*Lasiurus borealis*								y
9/2/2008	7	20:30	*Myotis lucifugus*	f	8.8	37	adult	nr			
9/2/2008	7	20:45	*Myotis lucifugus*	m	10	36	adult	nr			
9/2/2008	7	20:45	*Myotis lucifugus*	f	9.9	38	adult	nr			
9/2/2008	7	20:45	*Myotis lucifugus*	f	8.9	37	adult				
9/2/2008	7	21:00	*Myotis*								y
9/2/2008	7	21:00	*Myotis lucifugus*	m	6.2	35	juv	nr			
9/2/2008	7	21:53	*Perimyotis subflavus*	m	5	33	juv	nr			
9/2/2008	7	22:15	*Myotis lucifugus*	f	6.2	34	juv	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
9/2/2008	7	22:40	*Myotis septentrionalis*	m	7.2	35	adult	nr	13454		
9/2/2008	7	23:45	*Lasiurus borealis*								y
9/2/2008	7	0:11	*Lasiurus borealis*	m	9.7	37	juv	nr			
9/2/2008	7	0:10	*Myotis lucifugus*	f	8.7	36	adult	nr			
9/2/2008	7	0:35	*Myotis lucifugus*	m	5.9	34	juv	nr			
9/3/2008	1	20:10	*Lasiurus borealis*	m	7.8	38	juv	nr			
9/3/2008	1	20:10	*Myotis lucifugus*	m	6.8	36	juv	nr			
9/3/2008	1	20:10	*Myotis lucifugus*	f	10.3	37	adult	nr			
9/3/2008	1	20:10	*Myotis lucifugus*	f	9.9	37	adult	pl			
9/3/2008	1	20:10	*Myotis lucifugus*	f	8	36	juv	nr			
9/3/2008	1	20:10	*Myotis lucifugus*	m	7.3	36	juv	nr			
9/3/2008	1	20:10	*Myotis lucifugus*	f	8.6	35	adult	nr			
9/3/2008	1	20:10	*Myotis lucifugus*	f	6.2	35	juv	nr			
9/3/2008	1	20:10	*Myotis lucifugus*	f	6.2	36	juv	nr			
9/3/2008	1	20:10	*Myotis lucifugus*	f	7.2	35	juv	nr			
9/3/2008	1	20:45	*Lasiurus borealis*	f	15.9	41	juv	nr			
9/3/2008	1	20:45	*Eptesicus fuscus*	m	15.6	46	adult	u			
9/3/2008	1	21:30	*Eptesicus fuscus*	m	17.2	45	adult	d			
9/3/2008	1	21:30	*Eptesicus fuscus*	m	22.4	47	adult	d			
9/3/2008	1	21:45	*Eptesicus fuscus*	m	17.2	46	adult	d			
9/3/2008	1	21:55	*Lasiurus borealis*	f	12.9	41	juv	nr			
9/3/2008	1	21:55	*Myotis lucifugus*	f	10.4	37	adult	nr			
9/3/2008	1	21:55	*Myotis septentrionalis*	f	8	35	adult	pl	13455		
9/3/2008	1	22:15	*Eptesicus fuscus*								y
9/3/2008	1	22:55	*Eptesicus fuscus*	f	26.3	46	adult	pl			
9/3/2008	1	22:55	*Myotis lucifugus*	f	12.2	37	adult	nr			
9/3/2008	1	23:11	*Myotis lucifugus*	f	8.1	36	juv	nr			
9/3/2008	1	23:30	*Myotis lucifugus*	m	10.3	35	juv	nr			
9/3/2008	1	23:30	*Myotis sodalis*	f	7.1	37	juv	nr	13456		
9/3/2008	1	0:00	*Eptesicus fuscus*	f	21.2	44	adult	nr			
9/3/2008	1	0:15	*Eptesicus fuscus*	f	17.8	48	adult	nr			
9/3/2008	1	0:15	*Nycticeius humeralis*	f	8.2	35	juv	nr			
9/3/2008	1	0:28	*Eptesicus fuscus*	f	25.2	47	adult	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
9/3/2008	1	1:00	*Lasiurus borealis*	m	11.4	37	adult	d			
9/4/2008	10	20:23	*Myotis lucifugus*	f	10.1	37	adult	nr			
9/4/2008	10	20:23	*Myotis lucifugus*	f	9.2	36	adult	nr			
9/4/2008	10	20:23	*Myotis lucifugus*	f	8.4	36	adult	nr			
9/4/2008	10	20:23	*Myotis lucifugus*	f	9.8	37	juv	nr			
9/4/2008	10	20:23	*Myotis lucifugus*	m	7.3	36	adult	nr			
9/4/2008	10	20:45	*Myotis lucifugus*	f	10.1	37	juv	nr			
9/4/2008	10	21:00	*Lasiurus borealis*	m	10.5	40	juv	d			
9/4/2008	10	21:45	*Myotis lucifugus*	m	10	37	adult	d			
9/4/2008	10	21:45	*Eptesicus fuscus*	f	18.9	45	juv	nr			
9/4/2008	10	21:50	*Lasiurus borealis*	f	12.4	40	juv	nr			
9/4/2008	10	23:50	*Lasiurus borealis*	m	8.2	36	juv	d			
9/4/2008	10	23:50	*Eptesicus fuscus*	m	19.8	47	juv	nr			
9/4/2008	10	0:00	*Eptesicus fuscus*	f	20.3	47	juv	nr			
9/8/2008	3	20:15	*Myotis lucifugus*	f	8.9	36	juv	nr			
9/8/2008	3	20:15	*Myotis lucifugus*	f	7.1	37	juv	nr			
9/8/2008	3	20:15	*Myotis lucifugus*	f	6.8	34	juv	nr			
9/8/2008	3	20:15	*Myotis lucifugus*	f	9.7	38	adult	nr			
9/8/2008	3	20:15	*Myotis lucifugus*	f	7.1	36	juv	nr			
9/8/2008	3	20:15	*Myotis lucifugus*	f	10.2	37	adult	nr			
9/8/2008	3	21:58	*Myotis lucifugus*	f	8.1	37	adult	nr			
9/8/2008	3	0:00	*Lasiurus borealis*	m	11.4	40	juv	nr			
9/8/2008	3	0:00	*Lasiurus borealis*	f	10.7	41	juv	nr			
9/8/2008	3	0:00	*Myotis lucifugus*	m	7.4	35	juv	nr			
9/9/2008	14	20:20	*Myotis lucifugus*	m	6.8	35	juv	nr			
9/9/2008	14	20:20	*Myotis lucifugus*	m	6.8	36	juv	nr	13457		
9/9/2008	14	20:25	*Myotis lucifugus*	m	7.6	35	juv	nr	13458		
9/9/2008	14	20:25	*Myotis lucifugus*	f	10.8	37	juv	nr	13459		
9/9/2008	14	20:25	*Myotis lucifugus*	f	7.4	35	juv	nr	13460		
9/9/2008	14	20:25	*Myotis lucifugus*	f	9.6	37	juv	nr	13461		
9/9/2008	14	20:30	*Myotis lucifugus*	f	9	36	adult	pl	13462		
9/9/2008	14	20:30	*Myotis septentrionalis*	f	6.6	33	juv	nr	13463		
9/9/2008	14	20:30	*Myotis septentrionalis*	f	8.6	34	juv	nr	13464		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
9/9/2008	14	20:40	*Myotis lucifugus*	f	8	34	juv	nr	13465		
9/9/2008	14	20:40	*Myotis lucifugus*	f	9.4	35	adult	nr			
9/9/2008	14	21:10	*Myotis lucifugus*	m	7.4	34	adult	d	13466		
9/9/2008	14	21:30	*Myotis lucifugus*	f	11	36	adult	nr	13467		
9/9/2008	14	21:35	*Myotis lucifugus*	f	12.8	37	adult	pl	13468		
9/9/2008	14	21:49	*Eptesicus fuscus*	f	30	50	adult	nr			
9/9/2008	14	21:57	*Eptesicus fuscus*	m	22.5	47	juv	nr			
9/9/2008	14	22:21	*Lasiurus borealis*	f	12	41	adult	nr			
9/9/2008	14	22:21	*Lasiurus borealis*	f	11.8	40	juv	nr			
9/9/2008	14	22:21	*Lasiurus borealis*	f	10.8	40	juv	nr			
9/9/2008	14	22:21	*Eptesicus fuscus*	m	26	45	adult	nr			
9/9/2008	14	22:21	*Myotis lucifugus*	f	10.6	34	adult	nr	13469		
9/9/2008	14	22:41	*Myotis lucifugus*	f	10.1	36	adult	nr	13470		
9/9/2008	14	22:41	*Myotis lucifugus*	f	10.5	36	juv	nr	13471		
9/9/2008	14	22:41	*Myotis lucifugus*	f	10.5	37	juv	nr	13472		
9/9/2008	14	23:30	*Lasiurus borealis*	f	12.7	42	juv	nr			
9/9/2008	14	0:00	*Myotis lucifugus*	f	11.2	35	juv	nr	13473		
9/10/2008	4	21:44	*Myotis lucifugus*	f	7.7	37	juv	nr	13500		
9/10/2008	4	23:40	*Lasiurus borealis*	f	12.3	39	juv	nr			
9/10/2008	4	0:00	*Lasiurus borealis*	m	10.2	40	adult	nr			
4/23/2009	8	20:55	*Myotis lucifugus*	f	6.5	37	adult	u	13474		
4/23/2009	8	21:25	*Myotis lucifugus*	f	7.9	37	adult	u	13476		
4/27/2009	3	21:33	*Myotis lucifugus*	f	7.5	36	adult	u	13477		
4/27/2009	3	23:10	*Myotis lucifugus*	m	7	36	adult	nr	13478		
4/27/2009	3	23:20	*Myotis lucifugus*	f	8.1	38	adult	u	13479		
5/3/2009	15	21:30	*Eptesicus fuscus*	m	17.2	46	adult	nr			
5/3/2009	15	21:45	*Eptesicus fuscus*	f	22	45	adult	u			
5/3/2009	15	22:05	*Eptesicus fuscus*	f	21.4	49	adult	u			
5/3/2009	15	22:25	*Lasiurus borealis*	f	12.8	39	adult	u			
5/3/2009	15	22:25	*Myotis septentrionalis*	f	6.3	36	adult	u	13480		
5/5/2009	1	21:00	*Myotis lucifugus*	f	7.2	36	adult	u	13481		
5/5/2009	1	21:00	*Myotis lucifugus*	m	6.1	37	adult	nr	13482		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
5/5/2009	1	21:00	*Myotis lucifugus*	f	6.9	36	adult	u	13483		
5/5/2009	1	21:00	*Myotis lucifugus*	f	6	34	adult	u	13484		
5/5/2009	1	21:00	*Myotis lucifugus*	f	6.2	37	adult	u	13485		
5/5/2009	1	21:10	*Myotis lucifugus*	f	6.8	36	adult	u	13486		
5/5/2009	1	21:10	*Myotis lucifugus*	f	6.9	37	adult	u	13487		
5/5/2009	1	21:10	*Myotis lucifugus*	f	6.7	37	adult	u	13488		
5/5/2009	1	21:10	*Myotis lucifugus*	f	6.4	34	adult	u	13489		
5/5/2009	1	21:15	*Myotis lucifugus*	f	5.9	37	adult	u	13492		
5/5/2009	1	21:20	*Myotis lucifugus*	f	6.3	37	adult	u	13493		
5/5/2009	1	22:20	*Myotis lucifugus*	m	6.3	37	adult	nr	13491		
5/5/2009	1	21:15	*Myotis lucifugus*	f	6.2	36	adult	u	13490		
5/5/2009	1	22:00	*Eptesicus fuscus*	f	22	47	adult	u			
5/5/2009	1	22:00	*Eptesicus fuscus*	f	23.9	47	adult	u			
5/5/2009	1	21:20	*Myotis lucifugus*	f	6.3	37	adult	u	13494		
5/5/2009	1	21:20	*Myotis lucifugus*	m	6.2	36	adult	nr	13495		
5/5/2009	1	21:25	*Myotis lucifugus*	f	6.7	38	adult	u	13496		
5/5/2009	1	21:25	*Myotis lucifugus*	m	6.2	35	adult	nr	13497		
5/5/2009	1	21:25	*Myotis lucifugus*	f	7.9	39	adult	u	13498		
5/5/2009	1	21:30	*Myotis lucifugus*	m	5.9	36	adult	nr	13499		
5/5/2009	1	21:30	*Myotis lucifugus*	f	5.9	36	adult	u	15101		
5/5/2009	1	21:30	*Eptesicus fuscus*	f	13.8	42	adult	u			
5/5/2009	1	21:35	*Eptesicus fuscus*	f	19.9	42	adult	u			
5/5/2009	1	21:35	*Eptesicus fuscus*	f	19.4	48	adult	u			
5/5/2009	1	21:35	*Eptesicus fuscus*	f	15.9	46	adult	u			
5/5/2009	1	22:00	*Eptesicus fuscus*	f	20.9	47	adult	u			
5/5/2009	1	22:00	*Myotis septentrionalis*	m	5.7	35	adult	nr	15102		
5/5/2009	1	22:05	*Eptesicus fuscus*	f	23	50	adult	u			
5/5/2009	1	22:05	*Eptesicus fuscus*	f	23.9	45	adult	u			
5/5/2009	1	22:05	*Myotis lucifugus*	m	6	37	adult	nr	15103		
5/5/2009	1	22:05	*Myotis sodalis*	f	6.1	37	adult	u	15104		
5/5/2009	1	23:45	*Eptesicus fuscus*	f	23.8	48	adult	u			
5/5/2009	1	23:45	*Eptesicus fuscus*	f	28.4	49	adult	u			
5/5/2009	1	23:45	*Eptesicus fuscus*	f	21.8	47	adult	u			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
5/5/2009	1	0:00	*Eptesicus fuscus*	f	23.2	49	adult	u			
5/5/2009	1	0:00	*Eptesicus fuscus*	m	17.1	37	adult	nr			
5/5/2009	1	0:00	*Eptesicus fuscus*	f	23.8	45	adult	u			
5/5/2009	1	0:10	*Eptesicus fuscus*	f	24.9	46	adult	u			
5/5/2009	1	22:00	*Eptesicus fuscus*	f	18.9	46	adult	u			
5/5/2009	1	0:30	*Myotis lucifugus*	f	7.8	37	adult	u	15105		
5/5/2009	1	0:45	*Eptesicus fuscus*	f	25.3	51	adult	u			
5/5/2009	1	0:45	*Perimyotis subflavus*	f	4.7	32	adult	u	15106		
5/5/2009	1	0:45	*Lasionycteris noctivagans*	f	10.1	40	adult	u	15107		
5/11/2009	14	20:45	*Eptesicus fuscus*	f	19	45	adult	u			
5/11/2009	14	20:45	*Eptesicus fuscus*								y
5/11/2009	14	20:50	*Myotis lucifugus*	f	8.2	33	adult	u	15108		
5/11/2009	14	20:50	*Myotis lucifugus*	f	6.4	37	adult	u	15109		
5/11/2009	14	20:50	*Myotis lucifugus*	f	6.6	37	adult	u	15110		
5/11/2009	14	20:50	*Myotis lucifugus*	m	6.4	38	adult	nr	15111		
5/11/2009	14	20:50	*Myotis lucifugus*	f	6.3	36	adult	u	15112		
5/11/2009	14	20:50	*Myotis lucifugus*	f	6.9	38	adult	u	15113		
5/11/2009	14	20:50	*Myotis lucifugus*	f	6.7	37	adult	u	15114		
5/11/2009	14	20:50	*Myotis lucifugus*	f	6.7	36	adult	u	15115		
5/11/2009	14	20:50	*Myotis lucifugus*	f	6.6	37	adult	u	15116		
5/11/2009	14	20:50	*Myotis lucifugus*	f	7.3	36	adult	u	15117		
5/11/2009	14	20:50	*Myotis lucifugus*	f	6.6	37	adult	u	15118		
5/11/2009	14	20:50	*Myotis lucifugus*	f	6.8	37	adult	u	15119		
5/11/2009	14	20:50	*Myotis lucifugus*	f	6.8	37	adult	u	15120		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6	36	adult	u	15121		
5/11/2009	14	20:45	*Myotis lucifugus*	f	7.8	36	adult	u	15122		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6	37	adult	u	15123		
5/11/2009	14	20:45	*Myotis lucifugus*	f	7.2	37	adult	u	15124		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.2	36	adult	u	15125		
5/11/2009	14	20:45	*Myotis lucifugus*	f	7.2	37	adult	u	15126		
5/11/2009	14	20:45	*Myotis lucifugus*	f	7.6	37	adult	u	15127		
5/11/2009	14	20:45	*Myotis lucifugus*	f	7.2	37	adult	u	15128		
5/11/2009	14	20:45	*Myotis lucifugus*	f	7.1	36	adult	u	15129		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
5/11/2009	14	20:45	*Myotis lucifugus*	f	5.3	35	adult	u	15130		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.9	37	adult	u	15131		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.3	36	adult	u	15132		
5/11/2009	14	20:45	*Myotis lucifugus*	f	7.9	36	adult	u	15133		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.2	36	adult	u	15134		
5/11/2009	14	20:45	*Myotis lucifugus*	m	6	36	adult	nr	15135		
5/11/2009	14	20:45	*Myotis lucifugus*	f	7.5	37	adult	u	15136		
5/11/2009	14	20:45	*Myotis lucifugus*	f	7.3	37	adult	u	15137		
5/11/2009	14	20:45	*Myotis lucifugus*	f	5.5	36	adult	u	15138		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.5	36	adult	u	15139		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.8	37	adult	u	15140		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.8	36	adult	u	15141		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.3	37	adult	u	15142		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.3	37	adult	u	15143		
5/11/2009	14	20:45	*Myotis lucifugus*	f	7.3	37	adult	u	15144		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.8	36	adult	u	15145		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.7	37	adult	u	15146		
5/11/2009	14	20:45	*Myotis lucifugus*	f	6.1	37	adult	u	15147		
5/11/2009	14	23:32	*Myotis lucifugus*	f	9.4	36	adult	u	15148		
5/11/2009	14	23:55	*Myotis lucifugus*	f	7.6	37	adult	u	15149		
5/11/2009	14	0:13	*Myotis lucifugus*	f	7.2	37	adult	u	15150		
5/11/2009	14	0:30	*Myotis lucifugus*	f	7.4	38	adult	u	13473	y	
5/11/2009	14	0:30	*Myotis lucifugus*	f	7.4	37	adult	u	15151		
5/11/2009	14	0:30	*Myotis lucifugus*	f	8.1	37	adult	u	15152		
5/11/2009	14	1:00	*Myotis lucifugus*	f	7.1	37	adult	u	15153		
5/12/2009	7	22:10	*Eptesicus fuscus*	m	18	45	adult	nr			
5/12/2009	7	22:00	*Eptesicus fuscus*	f	25.2	46	adult	u			
5/12/2009	7	22:20	*Eptesicus fuscus*	f	18.7	44	adult	u			
5/12/2009	7	22:22	*Eptesicus fuscus*	m	14	43	adult	nr			
5/12/2009	7	22:30	*Lasionycteris noctivagans*	f	11.9	40	adult	u	15154		
5/12/2009	7	23:30	*Eptesicus fuscus*	m	14.4	44	adult	nr			
5/18/2009	11	22:30	*Myotis septentrionalis*	f	6.8	35	adult	u	15155		
5/18/2009	11	23:10	*Myotis septentrionalis*	f	7	36	adult	u	15157		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
5/18/2009	11	23:10	*Myotis septentrionalis*	f	7.1	36	adult	u	15158		
5/18/2009	11	23:10	*Myotis lucifugus*	f	7.9	38	adult	u	15156		
5/20/2009	10	21:30	*Lasiurus borealis*	f	12.4	38	adult	u			
5/20/2009	10	21:30	*Eptesicus fuscus*	f	20.2	48	adult	u			
5/20/2009	10	21:05	*Myotis lucifugus*	f	7	37	adult	u	15159		
5/20/2009	10	21:05	*Myotis lucifugus*	f	7.2	36	adult	u	15160		
5/20/2009	10	21:05	*Myotis lucifugus*	f	7.2	37	adult	u	15161		
5/20/2009	10	21:05	*Myotis lucifugus*	f	7.1	36	adult	u	15162		
5/20/2009	10	21:05	*Myotis lucifugus*	f	6.2	36	adult	u	15163		
5/20/2009	10	21:05	*Myotis lucifugus*	f	6.6	37	adult	u	15164		
5/20/2009	10	21:05	*Myotis lucifugus*	f	7.6	37	adult	u	15165		
5/20/2009	10	21:05	*Myotis lucifugus*	f	6.4	36	adult	u	15166		
5/20/2009	10	21:10	*Myotis lucifugus*	f	6.8	37	adult	u	15167		
5/20/2009	10	21:10	*Myotis lucifugus*	f	8	38	adult	u	15168		
5/20/2009	10	21:10	*Myotis lucifugus*	f	6.5	38	adult	u	15169		
5/20/2009	10	21:10	*Myotis lucifugus*	f	6.2	37	adult	u	15170		
5/20/2009	10	21:10	*Myotis lucifugus*	f	6.8	36	adult	u	15171		
5/20/2009	10	22:05	*Eptesicus fuscus*								y
5/20/2009	10	21:15	*Myotis lucifugus*	f	6.5	36	adult	u	15172		
5/20/2009	10	21:15	*Myotis lucifugus*	f	7.3	37	adult	u	15173		
5/20/2009	10	21:15	*Myotis lucifugus*	f	5.5	37	adult	u	15174		
5/20/2009	10	21:15	*Myotis lucifugus*	f	6.9	36	adult	u	15175		
5/20/2009	10	21:15	*Myotis lucifugus*	f	7.3	38	adult	u	15176		
5/20/2009	10	21:15	*Myotis lucifugus*	f	5.5	35	adult	u	15177		
5/20/2009	10	21:15	*Myotis lucifugus*	f	6.5	37	adult	u	15178		
5/20/2009	10	21:20	*Myotis lucifugus*	f	7	36	adult	u	15179		
5/20/2009	10	21:20	*Myotis lucifugus*	f	6.8	37	adult	u	15180		
5/20/2009	10	21:20	*Myotis lucifugus*	f	7.1	36	adult	u	15181		
5/20/2009	10	21:20	*Myotis lucifugus*	f	6.8	37	adult	u	15182		
5/20/2009	10	21:20	*Myotis lucifugus*	f	6.3	40	adult	u	15183		
5/20/2009	10	23:21	*Myotis lucifugus*	f	7.2	38	adult	u	15184		
5/20/2009	10	23:10	*Eptesicus fuscus*	f	25.5	47	adult	u			
5/20/2009	10	0:00	*Myotis lucifugus*								y

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
5/20/2009	10	0:00	*Myotis lucifugus*	f	9	38	adult	u	15185		
5/20/2009	10	0:05	*Myotis septentrionalis*	f	8.2	34	adult	u	15186		
5/21/2009	12	21:20	*Myotis lucifugus*	f	7.5	38	adult	u	15187		
5/21/2009	12	21:40	*Myotis lucifugus*	f	6.9	36	adult	u	15188		
5/21/2009	12	21:40	*Myotis lucifugus*	f	7.4	37	adult	u	15189		
5/21/2009	12	21:40	*Myotis lucifugus*	f	8.1	37	adult	u	15190		
5/21/2009	12	21:45	*Myotis lucifugus*	f	6.8	35	adult	u	15191		
5/21/2009	12	21:45	*Myotis lucifugus*	f	7.4	36	adult	u	15192		
5/21/2009	12	22:00	*Myotis lucifugus*	f	8.9	37	adult	u	15193		
5/21/2009	12	22:00	*Myotis lucifugus*	f	7.9	36	adult	u	15194		
5/21/2009	12	22:00	*Myotis lucifugus*	m	7.6	37	adult	nr	15195		
5/21/2009	12	22:00	*Myotis lucifugus*	f	8.1	39	adult	u	15196		
5/21/2009	12	22:55	*Lasiurus borealis*	f	14	41	adult	u			
5/21/2009	12	23:25	*Myotis lucifugus*	f	8.5	36	adult	u	15197		
5/21/2009	12	23:50	*Myotis lucifugus*	m	8.2	37	adult	nr	15198		
5/22/2009	3	21:10	*Lasiurus borealis*	f	12	38	adult	u			
5/22/2009	3	21:15	*Lasiurus borealis*	f	12.8	41	adult	u			
5/22/2009	3	21:50	*Eptesicus fuscus*	m	18.1	46	adult	nr			
5/22/2009	3	21:45	*Myotis sodalis*	f	7.8	38	adult	u	15205		
5/22/2009	3	21:45	*Myotis lucifugus*	f	9.3	38	adult	u	15199		
5/22/2009	3	21:45	*Myotis lucifugus*	f	8.8	37	adult	u	15200		
5/22/2009	3	21:45	*Myotis lucifugus*	f	9.2	38	adult	u	15201		
5/22/2009	3	21:45	*Myotis lucifugus*	m	6.9	37	adult	nr	15202		
5/22/2009	3	21:45	*Myotis sodalis*	f	8	36	adult	u	15203		
5/22/2009	3	21:45	*Myotis sodalis*	f	6.6	37	adult	u	15204		
5/22/2009	3	23:45	*Eptesicus fuscus*	f	29.6	48	adult	u			
5/22/2009	3	0:00	*Myotis septentrionalis*	f	7	34	adult	u	15206		
6/5/2009	14	21:45	*Myotis lucifugus*	f	9.8	37	adult	u	15207		
6/5/2009	14	21:45	*Myotis lucifugus*	m	8.2	36	adult	nr	15208		
6/5/2009	14	21:45	*Myotis lucifugus*	m	7.1	35	adult	nr	15209		
6/5/2009	14	21:45	*Myotis lucifugus*	f	10.1	35	adult	u	15210		
6/5/2009	14	21:45	*Myotis lucifugus*	f	9.9	35	adult	u	15211		
6/5/2009	14	21:45	*Myotis lucifugus*	m	6.1	37	adult	nr	15212		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
6/5/2009	14	22:00	*Eptesicus fuscus*								y
6/5/2009	14	22:00	*Eptesicus fuscus*	f	24.2	49	adult	u			
6/5/2009	14	22:00	*Eptesicus fuscus*	m	16.8	47	adult	nr			
6/5/2009	14	22:00	*Myotis lucifugus*	m	7.8	37	adult	nr	15213		
6/5/2009	14	22:10	*Myotis lucifugus*	f	11.7	37	adult	u	15214		
6/5/2009	14	22:10	*Myotis lucifugus*	f	8.9	36	adult	u	15215		
6/5/2009	14	22:45	*Myotis lucifugus*	f	10.8	37	adult	u	15216		
6/5/2009	14	22:45	*Myotis lucifugus*	f	10.9	36	adult	u	15127	y	
6/5/2009	14	22:45	*Eptesicus fuscus*	m	18.8	46	adult	nr			
6/5/2009	14	22:45	*Myotis lucifugus*	f	11	37	adult	u	15217		
6/5/2009	14	22:45	*Myotis lucifugus*	f	11.2	37	adult	u	15218		
6/5/2009	14	23:00	*Myotis lucifugus*	f	9.7	37	adult	u	15219		
6/5/2009	14	23:15	*Eptesicus fuscus*	f	26.8	49	adult	u			
6/5/2009	14	23:30	*Myotis lucifugus*	f	10.3	37	adult	u	15220		
6/5/2009	14	23:37	*myotis*								y
6/5/2009	14	23:30	*Myotis lucifugus*	f	10.4	36	adult	u	15221		
6/5/2009	14	23:30	*Myotis lucifugus*	f	9.7	36	adult	u	15222		
6/5/2009	14	23:30	*Myotis lucifugus*	f	9.7	35	adult	u	15223		
6/5/2009	14	23:30	*Eptesicus fuscus*	m	19.8	46	adult	nr			
6/5/2009	14	23:30	*Myotis lucifugus*	f	10.3	36	adult	u	15224		
6/5/2009	14	23:30	*Myotis lucifugus*	f	9.9	38	adult	u	15225		
6/5/2009	14	23:30	*Myotis lucifugus*	m	8.3	35	adult	nr	15226		
6/5/2009	14	23:30	*Myotis lucifugus*	f	9.1	37	adult	u	15227		
6/5/2009	14	23:30	*Myotis lucifugus*	f	10.4	36	adult	u	15228		
6/5/2009	14	23:30	*Myotis lucifugus*	f	9.2	37	adult	u	15229		
6/5/2009	14	23:30	*Myotis lucifugus*	m	6.9	37	adult	nr	15230		
6/5/2009	14	23:40	*Eptesicus fuscus*	f	27.8	49	adult	u			
6/5/2009	14	23:40	*Myotis lucifugus*	f	11.8	36	adult	u	15231		
6/5/2009	14	0:05	*Myotis lucifugus*	m	8.5	38	adult	nr	15232		
6/5/2009	14	0:10	*Myotis lucifugus*	m	7.1	36	adult	nr	15233		
6/5/2009	14	0:10	*Myotis lucifugus*	m	7.3	37	adult	nr	15234		
6/5/2009	14	0:10	*Myotis lucifugus*	m	6.9	35	adult	nr	15235		
6/5/2009	14	0:10	*Myotis lucifugus*	m	7	36	adult	nr	15236		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
6/5/2009	14	0:10	*Myotis lucifugus*	f	10.8	37	adult	u	15237		
6/5/2009	14	0:30	*Myotis lucifugus*	m	6.5	37	adult	nr	15238		
6/5/2009	14	0:30	*Myotis lucifugus*	m	6.9	36	adult	nr	15239		
6/5/2009	14	0:50	*Myotis lucifugus*	m	6.5	35	adult	nr	15240		
6/5/2009	14	0:50	*Myotis sodalis*	f	9	39	adult	u	15241		
6/5/2009	14	1:15	*Myotis lucifugus*	m	6.6	36	adult	nr	15242		
6/5/2009	14	1:15	*Myotis lucifugus*	f	6.8	36	adult	u	15243		
6/12/2009	17	21:45	*Myotis lucifugus*	f	10.9	36	adult	p	15244		
6/12/2009	17	22:15	*Eptesicus fuscus*	m	15.3	43	adult	nr			
6/12/2009	17	22:20	*Myotis lucifugus*	f	10.1	38	adult	p	15245		
6/12/2009	17	22:55	*Myotis lucifugus*	f	9.8	36	adult	p	15246		
6/12/2009	17	23:04	*Eptesicus fuscus*	f	22.8	45	adult	p			
6/12/2009	17	23:10	*Myotis lucifugus*	f	8.9	36	adult	p	15247		
6/12/2009	17	23:55	*Myotis septentrionalis*	f	8.6	35	adult	p	15248		
6/12/2009	17	0:30	*Myotis lucifugus*	f	9.5	37	adult	p	15249		
6/12/2009	17	0:30	*Eptesicus fuscus*	f	22.6	49	adult	p			
6/13/2009	3	21:30	*Lasiurus borealis*								y
6/13/2009	3	22:50	*Perimyotis subflavus*	f	9.5	33	adult	p	15250		
6/13/2009	3	21:50	*Eptesicus fuscus*	f	20.4	46	adult	p			
6/15/2009	18	21:45	*Myotis lucifugus*	f	7.1	37	adult	u	15251		
6/15/2009	18	21:45	*Myotis lucifugus*	f	7.9	35	adult	l	15252		
6/15/2009	18	21:45	*Myotis lucifugus*	f	7.4	36	adult	u	15253		
6/15/2009	18	21:45	*Myotis lucifugus*	f	7.6	36	adult	u	15254		
6/15/2009	18	22:10	*Myotis lucifugus*	f	8	36	adult	u	15255		
6/15/2009	18	22:11	*Myotis lucifugus*	f	8.9	37	adult	u	15256		
6/15/2009	18	22:12	*Myotis lucifugus*	f	9.4	37	adult	p	15257		
6/15/2009	18	22:15	*Myotis lucifugus*	f	10	37	adult	p	15258		
6/15/2009	18	22:20	*Eptesicus fuscus*	f	21.6	45	adult	p			
6/15/2009	18	22:25	*Myotis lucifugus*	f	11.3	36	adult	p	15259		
6/15/2009	18	22:40	*Myotis septentrionalis*	f	8.6	36	adult	p	15260		
6/15/2009	18	22:40	*Eptesicus fuscus*	f	21.2	47	adult	l			
6/15/2009	18	22:45	*Myotis septentrionalis*	f	7.2	36	adult	p	15261		
6/15/2009	18	23:05	*Eptesicus fuscus*	f	26.8	44	adult	p			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
6/15/2009	18	0:20	*Myotis lucifugus*	f	8.8	36	adult	l	15262		
6/15/2009	18	0:40	*Myotis lucifugus*	f	9.2	36	adult	l	15263		
6/15/2009	18	0:58	*Myotis septentrionalis*	f	9	36	adult	p	15264		
6/17/2009	17	21:30	*Lasiurus borealis*	f	12.8	40	adult	l			
6/17/2009	17	21:50	*Myotis lucifugus*	f	7.4	37	adult	l	15265		
6/17/2009	17	22:10	*Myotis lucifugus*	m	7	37	adult	nr	15266		
6/17/2009	17	22:20	*Myotis lucifugus*	f	9.2	37	adult	p	15267		
6/17/2009	17	22:30	*Myotis lucifugus*	m	7	36	adult	nr	15268		
6/17/2009	17	22:45	*Eptesicus fuscus*	f	21.6	46	adult	l			
6/17/2009	17	23:00	*Myotis lucifugus*	f	9.4	37	adult	p	15269		
6/17/2009	17	23:00	*Myotis lucifugus*	f	11	38	adult	p	15271		
6/17/2009	17	23:00	*Myotis septentrionalis*	f	7.2	33	adult	l	15270		
6/17/2009	17	23:00	*Eptesicus fuscus*								y
6/17/2009	17	23:05	*Lasionycteris noctivagans*	m	11	40	adult	nr	15272		
6/17/2009	17	23:15	*Myotis septentrionalis*	f	7.6	35	adult	l	15273		
6/17/2009	17	23:30	*Myotis septentrionalis*	f	6.5	35	adult	l	15274		
6/17/2009	17	23:30	*Myotis lucifugus*	f	6.8	36	adult	l	15276		
6/17/2009	17	23:40	*Myotis septentrionalis*	f	7.3	35	adult	l	15275		
6/17/2009	17	23:50	*Myotis septentrionalis*	f	7.4	34	adult	l	15277		
6/17/2009	17	23:50	*Myotis septentrionalis*	f	6.9	35	adult	l	15278		
6/17/2009	17	23:50	*Myotis lucifugus*	f	9.2	37	adult	p	15246	y	
6/17/2009	17	0:35	*Eptesicus fuscus*	f	27	48	adult	l			
6/17/2009	17	1:20	*Myotis lucifugus*	f	7.8	36	adult	l	15279		
6/18/2009	1	21:35	*Myotis lucifugus*	f	7	36	adult	l	15280		
6/18/2009	1	21:35	*Myotis lucifugus*	f	7.7	38	adult	l	15281		
6/18/2009	1	21:35	*Eptesicus fuscus*	f	18.2	47	adult	l			
6/18/2009	1	21:40	*Myotis lucifugus*	f	7.4	36	adult	l	15282		
6/18/2009	1	21:45	*Myotis septentrionalis*	f	6.8	33	adult	l	15283		
6/18/2009	1	21:45	*Eptesicus fuscus*	m	16.2	47	adult	nr			
6/18/2009	1	21:45	*Myotis septentrionalis*	f	6.5	35	adult	l	15284		
6/18/2009	1	21:50	*Myotis septentrionalis*	f	7.2	37	adult	l	15285		
6/18/2009	1	21:50	*Myotis lucifugus*	f	8.2	36	adult	l	15286		
6/18/2009	1	21:55	*Myotis lucifugus*	f	8.1	38	adult	nr	15287		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
6/18/2009	1	21:52	*Myotis lucifugus*	f	6.7	35	adult	l	15288		
6/18/2009	1	22:20	*Myotis sodalis*	f	7.4	37	adult	l	15290		
6/18/2009	1	22:20	*Myotis septentrionalis*	m	6.8	36	adult	nr	15291		
6/18/2009	1	22:05	*Myotis septentrionalis*	f	7.1	35	adult	l	15289		
6/18/2009	1	22:10	*Myotis septentrionalis*	f	7.4	36	adult	l	15292		
6/18/2009	1	22:10	*Myotis septentrionalis*	f	6.7	35	adult	l	15293		
6/18/2009	1	22:21	*Eptesicus fuscus*	f	22	46	adult	l			
6/18/2009	1	22:40	*Eptesicus fuscus*	f	23.5	47	adult	p			
6/18/2009	1	23:10	*Eptesicus fuscus*	f	23	48	adult	l			
6/18/2009	1	23:10	*Eptesicus fuscus*	f	23.2	48	adult	p			
6/18/2009	1	23:10	*Eptesicus fuscus*	f	20.2	46	adult	l			
6/18/2009	1	23:20	*Myotis septentrionalis*	f	7.7	36	adult	l	15294		
6/18/2009	1	23:40	*Myotis lucifugus*	f	10.5	38	adult	l	15295		
6/18/2009	1	23:45	*Myotis lucifugus*	f	9.1	37	adult	l	15296		
6/18/2009	1	23:45	*Myotis lucifugus*	f	10.2	36	adult	p	15297		
6/18/2009	1	23:45	*Eptesicus fuscus*	f	22.3	43	adult	l			
6/18/2009	1	0:00	*Myotis septentrionalis*	f	7	34	adult	l	15298		
6/18/2009	1	0:00	*Myotis lucifugus*	f	7.9	36	adult	l	15299		
6/18/2009	1	0:00	*Myotis septentrionalis*	f	6.7	35	adult	l	15300		
6/18/2009	1	0:20	*Myotis lucifugus*	f	9.2	37	adult	p	15301		
6/18/2009	1	0:20	*Myotis lucifugus*	f	9.1	37	adult	p	15302		
6/18/2009	1	0:30	*Myotis septentrionalis*	f	7.6	36	adult	l	15303		
6/18/2009	1	0:45	*Eptesicus fuscus*	m	15.9	45	adult	nr			
6/18/2009	1	0:50	*Myotis lucifugus*	m	7.1	36	adult	nr	15304		
6/18/2009	1	1:00	*Myotis lucifugus*	f	9.5	37	adult	l	15305		
6/18/2009	1	1:00	*Myotis lucifugus*	m	7.2	37	adult	nr	15306		
6/18/2009	1	1:00	*Myotis sodalis*	f	8.5	41	adult	u	15307		
6/24/2009	19	21:35	*Myotis lucifugus*	f	7.2	37	adult	l	15308		
6/24/2009	19	21:35	*Myotis lucifugus*	f	7	37	adult	l	15309		
6/24/2009	19	21:35	*Myotis lucifugus*	f	8.3	37	adult	l	15310		
6/24/2009	19	21:35	*Myotis lucifugus*	f	7.1	36	adult	l	15311		
6/24/2009	19	21:35	*Myotis lucifugus*	f	7.1	37	adult	l	15312		
6/24/2009	19	21:35	*Myotis lucifugus*	f	6.9	35	adult	l	15313		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
6/24/2009	19	21:35	*Myotis lucifugus*	f	6.8	35	adult	l	15314		
6/24/2009	19	21:35	*Myotis lucifugus*	f	6.8	36	adult	l	15129	y	
6/24/2009	19	21:35	*Myotis lucifugus*	f	7	36	adult	l	15315		
6/24/2009	19	21:35	*Myotis lucifugus*	f	10.4	37	adult	l	15316		
6/24/2009	19	21:35	*Myotis lucifugus*	f	7.9	36	adult	l	15317		
6/24/2009	19	22:00	*Myotis lucifugus*	f	7.8	38	adult	l	15318		
6/24/2009	19	22:00	*Myotis lucifugus*	f	8.4	38	adult	l	15319		
6/24/2009	19	22:05	*Eptesicus fuscus*	m	17.4	48	adult	nr			
6/24/2009	19	22:51	*Myotis lucifugus*	m	8	37	adult	nr	15320		
6/24/2009	19	0:05	*Myotis lucifugus*	m	8	36	adult	l	15321		
6/24/2009	19	0:06	*Myotis lucifugus*	f	7.1	37	juv	nr	15322		
6/24/2009	19	0:55	*Myotis lucifugus*	f	9.5	36	adult	p	15324		
6/24/2009	19	0:55	*Myotis lucifugus*	f	9	36	adult	l	15323		
6/26/2009	8	21:30	*Myotis lucifugus*	f	6.8	37	adult	l	15325		
6/26/2009	8	22:45	*Myotis lucifugus*	f	6.1	36	juv	nr	15326		
6/26/2009	8	23:35	*Myotis lucifugus*	m	8	36	adult	nr	15327		
6/26/2009	8	0:05	*Myotis lucifugus*	f	10.1	37	adult	p	15328		
6/26/2009	8	0:05	*Myotis septentrionalis*	f	6.4	36	adult	l	15329		
6/26/2009	8	0:15	*Eptesicus fuscus*	m	17	46	adult	nr			
6/29/2009	4	21:20	*Myotis lucifugus*	f	6.5	36	adult	l	15330		
6/29/2009	4	21:25	*Myotis lucifugus*	f	8	37	adult	l	15331		
6/29/2009	4	21:25	*Myotis lucifugus*	m	6.2	37	adult	nr	15332		
6/29/2009	4	22:15	*Lasiurus cinereus*	m	20.5	52	juv	nr			
6/29/2009	4	22:35	*Eptesicus fuscus*	f	19.8	48	adult	l			
6/29/2009	4	23:55	*Lasiurus borealis*	f	12	49	adult	l			
6/29/2009	4	0:15	*Myotis lucifugus*	m	6.7	35	adult	nr	15333		
6/29/2009	4	0:15	*Myotis lucifugus*	f	8.5	36	adult	l	15334		
6/29/2009	4	0:35	*Myotis lucifugus*	f	5.9	37	juv	nr	15335		
6/29/2009	4	0:50	*Myotis sodalis*	f	7.9	37	adult	l	15336		
6/29/2009	4	0:50	*Myotis sodalis*	f	7.9	37	adult	l	15337		
6/29/2009	4	1:20	*Myotis lucifugus*	f	8.4	37	adult	nr	15338		
7/2/2009	17	21:10	*Perimyotis subflavus*	f	6.2	33	adult	l	15339		
7/2/2009	17	21:10	*Perimyotis subflavus*	f	6.3	34	adult	l	15340		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/2/2009	17	21:35	*Myotis septentrionalis*	f	6.5	34	adult	l	15341		
7/2/2009	17	21:35	*Lasiurus borealis*	m	12	39	adult	nr			
7/2/2009	17	21:35	*Myotis septentrionalis*		5.3	32	juv	nr	15343		
7/2/2009	17	21:35	*Myotis septentrionalis*	f	7	36	adult	l	15342		
7/2/2009	17	21:35	*Eptesicus fuscus*	f	22.5	46	adult	l			
7/2/2009	17	22:10	*Myotis sodalis*	f	9.2	39	adult	l	15348		
7/2/2009	17	22:10	*Eptesicus fuscus*	f	16.3	46	adult	l			
7/2/2009	17	22:10	*Eptesicus fuscus*	m	22	46	adult	nr			
7/2/2009	17	22:20	*Eptesicus fuscus*	f	22.4	47	adult	l			
7/2/2009	17	22:15	*Eptesicus fuscus*	f	21.3	45	adult	l			
7/2/2009	17	22:15	*Eptesicus fuscus*	f	21.4	45	adult	l			
7/2/2009	17	22:15	*Eptesicus fuscus*	f	23	49	adult	l			
7/2/2009	17	22:15	*Eptesicus fuscus*	f	23	47	adult	l			
7/2/2009	17	22:15	*Myotis septentrionalis*	f	7.2	36	adult	l	15344		
7/2/2009	17	22:15	*Myotis septentrionalis*	f	7.8	35	adult	l	15345		
7/2/2009	17	22:15	*Myotis septentrionalis*	f	5.1	33	juv	nr	15347		
7/2/2009	17	22:15	*Myotis septentrionalis*	f	7.2	35	adult	l	15346		
7/2/2009	17	22:40	*Eptesicus fuscus*	f	18.3	45	adult	l			
7/2/2009	17	23:15	*Myotis septentrionalis*	f	7.6	36	adult	l	15349		
7/2/2009	17	23:15	*Myotis lucifugus*	f	8.4	37	adult	l	15350		
7/2/2009	17	23:30	*Myotis lucifugus*	f	7.4	37	juv	nr	15351		
7/2/2009	17	0:00	*Myotis lucifugus*	f	8.8	37	adult	l	15352		
7/2/2009	17	0:25	*Eptesicus fuscus*	m				nr			
7/13/2009	1	21:31	*Myotis lucifugus*	f	6.5	37	juv	nr	15353		
7/13/2009	1	21:40	*Myotis lucifugus*	f	6.9	36	juv	nr	15354		
7/13/2009	1	21:50	*Eptesicus fuscus*	f	18.2	46	adult	l			
7/13/2009	1	21:55	*Eptesicus fuscus*	f	19.2	47	adult	l			
7/13/2009	1	22:00	*Myotis lucifugus*	m	6.5	36	juv	nr	15355		
7/13/2009	1	22:15	*Eptesicus fuscus*	f	15	47	adult	l			
7/13/2009	1	22:15	*Lasiurus borealis*	f	16	40	adult				
7/13/2009	1	22:15	*Eptesicus fuscus*	m	18.7	47	adult	nr			
7/13/2009	1	22:15	*Myotis lucifugus*	m	5.9	35	juv	nr	15356		
7/13/2009	1	22:30	*Eptesicus fuscus*	f	19	45	adult	l			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/13/2009	1	22:30	*Myotis lucifugus*	f	9.2	35	adult	l	15357		
7/13/2009	1	22:30	*Eptesicus fuscus*	f	18.7	45	adult	l			
7/13/2009	1	22:45	*Eptesicus fuscus*	f	18.3	45	adult	l			
7/13/2009	1	22:45	*Eptesicus fuscus*	f	18.9	46	adult	l			
7/13/2009	1	22:45	*Eptesicus fuscus*	f	14.3	48	juv	nr			
7/13/2009	1	22:45	*Myotis lucifugus*	f	8.3	36	adult	l	15358		
7/13/2009	1	22:45	*Eptesicus fuscus*	f	21	45	adult	l			
7/13/2009	1	22:45	*Eptesicus fuscus*	m	15.9	45	adult	nr			
7/13/2009	1	22:50	*Myotis lucifugus*	f	7.9	37	juv	nr	15359		
7/13/2009	1	22:50	*Myotis lucifugus*	f	6.2	36	juv	nr	15360		
7/13/2009	1	23:05	*Eptesicus fuscus*	m	16.3	46	adult	nr			
7/13/2009	1	23:05	*Eptesicus fuscus*	m	14.6	46	juv	nr			
7/13/2009	1	23:05	*Myotis lucifugus*	f	8.8	36	adult	l	15361		
7/13/2009	1	23:05	*Eptesicus fuscus*	f	15.1	45	juv	nr			
7/13/2009	1	23:05	*Eptesicus fuscus*	f	16.4	44	juv	nr			
7/13/2009	1	23:10	*Myotis lucifugus*	f	9.5	34	adult	l	15362		
7/13/2009	1	23:10	*Eptesicus fuscus*	f	15.2	45	juv	nr			
7/13/2009	1	23:20	*Myotis lucifugus*	f	7.1	37	juv	nr	15363		
7/13/2009	1	23:20	*Eptesicus fuscus*	m	14.8	46	juv	nr			
7/13/2009	1	23:20	*Myotis lucifugus*	m	7.3	35	juv	nr	15364		
7/13/2009	1	23:20	*Eptesicus fuscus*	f	18.9	46	adult	pl			
7/13/2009	1	23:20	*Myotis lucifugus*	f	6.9	37	adult	l	15365		
7/13/2009	1	23:20	*Myotis lucifugus*	f	8.4	37	adult	l	15366		
7/13/2009	1	23:40	*Myotis lucifugus*	f	7.3	35	juv	nr	15367		
7/13/2009	1	23:40	*Myotis septentrionalis*	f	7.2	37	adult	pl	15368		
7/13/2009	1	23:45	*Eptesicus fuscus*	m	15.3	47	juv	nr			
7/13/2009	1	0:05	*Myotis lucifugus*	f	6.3	36	juv	nr	15369		
7/13/2009	1	0:15	*Myotis lucifugus*	f	7.9	37	juv	nr	15370		
7/13/2009	1	0:50	*Myotis lucifugus*	m	5.8	36	juv	nr	15371		
7/14/2009	3	22:00	*Perimyotis subflavus*	f	5.2	32	adult	l			
7/14/2009	3	22:10	*Eptesicus fuscus*	f	22.9	49	adult	l			
7/14/2009	3	21:15	*Lasiurus borealis*	f	12.9	42	adult	l			
7/14/2009	3	21:15	*Lasiurus borealis*	f	13.1	42	adult	l			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/14/2009	3	21:25	*Myotis sodalis*	f	6.5	38	adult	l	15372		
7/14/2009	3	21:45	*Myotis septentrionalis*	f	6.8	36	adult	pl	15373		
7/14/2009	3	21:50	*Myotis sodalis*	f	6.5	37	juv	nr	15374		
7/14/2009	3	22:00	*Myotis septentrionalis*	f	5.8	36	juv	nr	15375		
7/14/2009	3	22:15	*Myotis lucifugus*	f	7.1	36	juv	nr	15376		
7/14/2009	3	22:15	*Eptesicus fuscus*	f	19.1	45	adult	l			
7/14/2009	3	22:35	*Eptesicus fuscus*	f	19.2	46	adult	pl			
7/14/2009	3	22:45	*Myotis lucifugus*	f	7	37	juv	nr	15377		
7/14/2009	3	22:45	*Myotis lucifugus*	f	7.5	37	juv	nr	15378		
7/14/2009	3	22:45	*Myotis lucifugus*	f	6.5	36	juv	nr	15379		
7/14/2009	3	22:45	*Nycticeius humeralis*	f	7.4	34	juv	nr	15380		
7/14/2009	3	23:20	*Myotis sodalis*	f	8.7	37	adult	l	15381		
7/14/2009	3	23:20	*Myotis lucifugus*	f	8.4	36	adult	pl	15382		
7/14/2009	3	23:55	*Myotis lucifugus*	f	7.5	37	juv	nr	15383		
7/21/2009	14	21:10	*Myotis lucifugus*	f	6.3	37	juv	nr	15384		
7/21/2009	14	21:20	*Myotis lucifugus*	f	7.7	36	adult	pl	15385		
7/21/2009	14	21:10	*Myotis lucifugus*	f	5.8	35	juv	nr	15386		
7/21/2009	14	21:10	*Myotis lucifugus*	f	6.2	37	juv	nr	15387		
7/21/2009	14	21:20	*Myotis lucifugus*	m	5.2	36	juv	nr	15388		
7/21/2009	14	21:20	*Myotis lucifugus*	f	6.4	38	juv	nr	15389		
7/21/2009	14	21:20	*Myotis lucifugus*	m	6	37	juv	nr	15390		
7/21/2009	14	21:20	*Myotis lucifugus*	f	6.3	36	juv	nr	15391		
7/21/2009	14	21:20	*Myotis lucifugus*	f	6.8	37	juv	nr	15392		
7/21/2009	14	21:20	*Myotis lucifugus*	f	7.9	40	adult	pl	15393		
7/21/2009	14	21:20	*Myotis lucifugus*	f	6.8	37	adult	l	15394		
7/21/2009	14	21:20	*Myotis lucifugus*	f	7.1	37	adult	pl	15395		
7/21/2009	14	21:20	*Myotis lucifugus*	f	7	35	adult	pl	15396		
7/21/2009	14	21:20	*Myotis lucifugus*	f	7.2	37	adult	l	15397		
7/21/2009	14	21:20	*Myotis lucifugus*	m	6	36	juv	nr	15398		
7/21/2009	14	21:20	*Myotis lucifugus*	f	6.9	38	adult	l	15399		
7/21/2009	14	21:20	*Myotis lucifugus*	f	6.2	38	juv	nr	15400		
7/21/2009	14	21:20	*Myotis lucifugus*	f	7.2	35	adult	pl	15401		
7/21/2009	14	21:20	*Myotis lucifugus*	f	6.3	38	adult	nr	15402		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/21/2009	14	21:20	*Myotis lucifugus*	m	6	36	juv	nr	15403		
7/21/2009	14	21:20	*Myotis lucifugus*	f	6	36	juv	nr	15404		
7/21/2009	14	21:20	*Myotis lucifugus*	f	7.6	36	adult	pl	15405		
7/21/2009	14	21:20	*Myotis lucifugus*	f	5.8	37	juv	nr	15406		
7/21/2009	14	21:20	*Myotis lucifugus*	m	6.4	36	adult	nr	15407		
7/21/2009	14	21:20	*Myotis lucifugus*	m	6.4	37	juv	nr	15408		
7/21/2009	14	21:20	*Myotis lucifugus*	f	6.6	39	adult	pl	15409		
7/21/2009	14	21:20	*Myotis lucifugus*	m	6.3	38	adult	nr	15410		
7/21/2009	14	21:20	*Myotis lucifugus*	f	6.6	37	adult	pl	15411		
7/21/2009	14	21:20	*Myotis lucifugus*	m	6.5	37	adult	nr	15412		
7/21/2009	14	21:20	*Myotis lucifugus*	f	7.6	38	adult	pl	15413		
7/21/2009	14	21:20	*Myotis lucifugus*	f	7.3	36	adult	pl	15414		
7/21/2009	14	21:20	*Myotis lucifugus*	m	6.2	38	juv	nr	15415		
7/21/2009	14	21:20	*Myotis lucifugus*	f	5.7	35	juv	nr	15416		
7/21/2009	14	21:20	*Myotis lucifugus*	m	6.1	36	juv	nr			
7/21/2009	14	21:20	*Myotis lucifugus*	m	6	36	juv	nr	15417		
7/21/2009	14	21:10	*Myotis lucifugus*	m	6	35	juv	nr	15418		
7/21/2009	14	21:10	*Myotis lucifugus*	m	5.4	36	juv	nr	15419		
7/21/2009	14	21:10	*Myotis lucifugus*	m	6.3	37	adult	nr	15420		
7/21/2009	14	21:10	*Myotis lucifugus*	f	7.4	37	adult	pl	15421		
7/21/2009	14	21:10	*Myotis lucifugus*	f	6.3	37	juv	nr	15422		
7/21/2009	14	21:10	*Myotis lucifugus*	m	7	36	adult	pl	15423		
7/21/2009	14	21:10	*Myotis lucifugus*	f	5.2	36	juv	nr	15424		
7/21/2009	14	22:45	*Myotis lucifugus*	f	7.8	39	juv	nr	15425		
7/21/2009	14	22:58	*Myotis lucifugus*	f	10.1	35	adult	p	15426		
7/21/2009	14	22:59	*Myotis lucifugus*	f	7.4	40	juv	nr	15427		
7/21/2009	14	23:03	*Myotis lucifugus*	f	8.2	36	adult	pl	15428		
7/21/2009	14	23:05	*Eptesicus fuscus*	f	23.3	47	adult	pl			
7/21/2009	14	23:15	*Eptesicus fuscus*	f	20	47	adult	l			
7/21/2009	14	23:26	*Myotis lucifugus*	f	8.1	36	adult	pl			
7/21/2009	14	23:28	*Myotis lucifugus*	f	7.2	37	juv	nr	15430		
7/21/2009	14	23:29	*Myotis sodalis*	m	5.8	37	juv	nr	15429		
7/21/2009	14	23:30	*Myotis lucifugus*	f	7	36	juv	nr	15431		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/21/2009	14	23:30	*Myotis lucifugus*	f	7	35	juv	nr	15432		
7/21/2009	14	23:45	*Eptesicus fuscus*	f	15.4	46	adult	pl			
7/21/2009	14	0:02	*Myotis lucifugus*	f	5.8	36	juv	nr	15433		
7/21/2009	14	0:20	*Myotis lucifugus*	m	7.5	37	juv	nr	15434		
7/21/2009	14	0:26	*Myotis lucifugus*	f	6.2	36	juv	nr	15435		
7/21/2009	14	0:34	*Myotis lucifugus*	f	6.8	38	juv	nr	15436		
7/21/2009	14	0:36	*Eptesicus fuscus*	f	17.6	45	adult	l			
7/21/2009	14	0:40	*Lasiurus borealis*								y
7/21/2009	14	0:52	*Myotis lucifugus*	f	6.8	39	juv	nr	15437		
7/21/2009	14	1:00	*Myotis lucifugus*	f	8.6	38	adult	l	15438		
7/21/2009	14	1:00	*Eptesicus fuscus*	m	16.9	47	juv	nr			
7/24/2009	17	21:15	*Perimyotis subflavus*	f	7.6	36	adult	l	15439		
7/24/2009	17	21:20	*Myotis lucifugus*	f	7.2	38	adult	l	15440		
7/24/2009	17	21:35	*Myotis lucifugus*	f	8.5	37	adult	pl	15441		
7/24/2009	17	21:35	*Myotis sodalis*	f	7.6	39	adult	l	15442		
7/24/2009	17	22:10	*Myotis lucifugus*	f	10.1	38	adult	p	15443		
7/24/2009	17	22:19	*Myotis sodalis*	f	5.2	36	juv	nr	15444		
7/24/2009	17	22:40	*Eptesicus fuscus*	f	20.6	44	adult	pl			
7/24/2009	17	22:45	*Myotis lucifugus*	f	10	37	adult	l	15445		
7/24/2009	17	23:00	*Myotis sodalis*	f	8.2	38	adult	l	15446		
7/24/2009	17	23:00	*Eptesicus fuscus*	f	21.4	46	adult	l			
7/24/2009	17	23:10	*Eptesicus fuscus*	m	19	47	adult	nr			
7/24/2009	17	23:10	*Myotis lucifugus*	f	8.5	38	juv	nr	15447		
7/24/2009	17	23:10	*Eptesicus fuscus*	f	22.2	48	adult	p			
7/24/2009	17	23:10	*Eptesicus fuscus*	m	16.9	44	adult	nr			
7/24/2009	17	23:16	*Myotis lucifugus*	f	7.9	36	juv	nr	15448		
7/24/2009	17	23:40	*Myotis sodalis*	f	8.3	40	adult	l	15449		
7/24/2009	17	0:05	*Myotis sodalis*	f	7.8	38	adult	l	15450		
7/24/2009	17	0:45	*Nycticeius humeralis*	m	9	36	juv	nr	15451		
7/24/2009	17	0:51	*Eptesicus fuscus*	m	16.9	46	juv	nr			
7/24/2009	17	1:25	*Myotis lucifugus*	f	6.5	36	juv	nr	15452		
8/3/2009	18	21:02	*Myotis sodalis*	f	6.2	38	juv	nr	15462		
8/3/2009	18	21:02	*Perimyotis subflavus*	f	5.8	35	juv	nr	15453		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/3/2009	18	21:20	*Myotis lucifugus*	f	8.4	37	adult	pl	15454		
8/3/2009	18	21:20	*Myotis lucifugus*	f	7.4	35			15452	y	
8/3/2009	18	21:20	*Myotis lucifugus*		6.7	36		u			
8/3/2009	18	21:25	*Myotis lucifugus*	f	7.2	36			15350	y	
8/3/2009	18	21:25	*Myotis lucifugus*	f	8.2	38	adult	pl	15455		
8/3/2009	18	21:25	*Myotis lucifugus*	f	7	34	adult	pl	15456		
8/3/2009	18	21:20	*Eptesicus fuscus*	f	19.5	46	adult	pl			
8/3/2009	18	21:30	*Eptesicus fuscus*	f	19.3	47	adult	pl			
8/3/2009	18	21:25	*Myotis lucifugus*	m	6.8	36	adult		15457		
8/3/2009	18	21:20	*Myotis lucifugus*	f	7.1	38	juv	nr	15458		
8/3/2009	18	22:00	*Nycticeius humeralis*	m	8.4	37	juv	nr	15459		
8/3/2009	18	22:00	*Nycticeius humeralis*	f	9.4	35	juv	nr	15460		
8/3/2009	18	22:00	*Myotis lucifugus*	f	10.3	37	adult	p	15461		
8/3/2009	18	22:00	*Myotis lucifugus*	f	9.9	37	juv	nr	15463		
8/3/2009	18	22:00	*Myotis lucifugus*	m	6.9	36	adult	nr	15464		
8/3/2009	18	22:15	*Myotis lucifugus*	m	8.2	38	adult	nr	15465		
8/3/2009	18	22:40	*Myotis lucifugus*	f	8.3	38	adult	pl	15466		
8/3/2009	18	22:45	*Perimyotis subflavus*	f	5.5	32	juv	nr	15467		
8/3/2009	18	23:00	*Myotis lucifugus*	f	9.8	36	adult	p	15468		
8/3/2009	18	23:15	*Myotis lucifugus*	m	5.8	37	juv	nr	15469		
8/3/2009	18	23:15	*Myotis lucifugus*	f	8.6	39	juv	nr	15470		
8/3/2009	18	23:15	*Perimyotis subflavus*	f	6.3	35	juv	nr	15471		
8/3/2009	18	23:15	*Myotis lucifugus*	f	6.5	36	juv	nr	15472		
8/3/2009	18	23:20	*Myotis lucifugus*	f	6.9	38	juv	nr	15473		
8/3/2009	18	23:20	*Perimyotis subflavus*	m	5.9	34	juv	nr	15474		
8/3/2009	18	23:30	*Myotis lucifugus*	f	6.9	37	juv	nr	15475		
8/3/2009	18	23:30	*Myotis lucifugus*	m	6.3	37	juv	nr	15476		
8/3/2009	18	23:55	*Perimyotis subflavus*	f	6	37	juv	nr	15477		
8/3/2009	18	23:55	*Nycticeius humeralis*	f	10.2	36	juv	nr	15478		
8/3/2009	18	23:55	*Perimyotis subflavus*	f	4.6	31	juv	nr	15479		
8/3/2009	18	23:55	*Myotis sodalis*	m	6.2	36	juv	nr	15480		
8/3/2009	18	0:15	*Myotis sodalis*	m	6.7	38	juv	nr	15481		
8/3/2009	18	0:45	*Myotis lucifugus*	f	8.6	38	adult	pl	15482		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/3/2009	18	0:45	*Myotis lucifugus*	m	7	37	juv	nr	15483		
8/3/2009	18	0:45	*Myotis lucifugus*	m	5.9	36	juv	nr	15484		
8/19/2009	15	21:18	*Eptesicus fuscus*	f	19.3	47	adult	nr			
8/19/2009	15	21:25	*Eptesicus fuscus*	m	17.1	47	adult	nr			
8/19/2009	15	21:55	*Eptesicus fuscus*	m	18.5	46	adult	nr			
8/19/2009	15	21:55	*Eptesicus fuscus*	m	16	47	adult	d			
8/19/2009	15	21:55	*Eptesicus fuscus*	f	23.4	48	adult	nr			
8/19/2009	15	22:10	*Myotis lucifugus*	f	10	37	adult	pl	15485		
8/19/2009	15	22:15	*Eptesicus fuscus*	f	21.6	50	adult	nr			
8/19/2009	15	22:15	*Eptesicus fuscus*	m	17.2	46	adult	nr			
8/19/2009	15	22:30	*Myotis lucifugus*	f	10	37	adult	pl	15486		
8/19/2009	15	22:43	*Eptesicus fuscus*	f	24.2	48	adult	pl			
8/19/2009	15	22:43	*Eptesicus fuscus*	f	24.1	49	adult	pl			
8/19/2009	15	23:02	*Eptesicus fuscus*	m	19.4	45	adult	d			
8/19/2009	15	23:02	*Eptesicus fuscus*	f	23.1	48	adult	pl			
8/19/2009	15	23:50	*Eptesicus fuscus*	f	26.8	48	adult	pl			
8/21/2009	11	20:50	*Myotis lucifugus*	m	7.5	36	juv	nr	15487		
8/21/2009	11	21:10	*Myotis lucifugus*	f	8.4	37	adult	pl	15488		
8/21/2009	11	21:10	*Myotis lucifugus*	f	10.7	37	adult	pl	15489		
8/21/2009	11	21:10	*Myotis lucifugus*	f	7.9	37	juv	nr	15490		
8/21/2009	11	21:10	*Myotis lucifugus*	m	6.6	37	juv	nr	15492		
8/21/2009	11	21:10	*Myotis lucifugus*	f	10.3	39	adult	pl	15491		
8/21/2009	11	21:15	*Myotis lucifugus*	f	8.1	37	juv	nr	15493		
8/21/2009	11	21:15	*Myotis lucifugus*	m	9.2	37	juv	nr	15494		
8/21/2009	11	21:15	*Myotis lucifugus*	f	7.5	36	juv	nr	15495		
8/21/2009	11	21:40	*Myotis lucifugus*	f	8	37	adult	pl	15496		
8/21/2009	11	21:40	*Myotis lucifugus*	m	6.4	38	juv	nr	15497		
8/21/2009	11	21:41	*Myotis lucifugus*	m	9.3	37	adult	d	15498		
8/21/2009	11	21:42	*Eptesicus fuscus*	f	23.7	49	juv	nr			
8/21/2009	11	21:42	*Eptesicus fuscus*	m	21.9	46	adult	d			
8/21/2009	11	22:10	*Myotis lucifugus*	f	9.2	37	adult	pl	15499		
8/21/2009	11	22:10	*Myotis lucifugus*	f	11.3	40	adult	pl	15500		
8/21/2009	11	22:15	*Eptesicus fuscus*	f	20.9	48	adult	pl			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/21/2009	11	22:38	*Myotis lucifugus*	m	8.5	36	juv	nr	15501		
8/21/2009	11	23:00	*Myotis lucifugus*	m	8.2	37	juv	nr	15502		
8/21/2009	11	23:35	*Myotis septentrionalis*	f	6	36	juv	nr	15503		
8/22/2009	1	21:10	*Myotis septentrionalis*	f	7.8	35	adult	pl	13455	y	
8/22/2009	1	21:10	*Myotis sodalis*	f	7.2	37	juv	nr	15504		
8/22/2009	1	22:06	*Eptesicus fuscus*	m	24.4	48	adult	d			
8/22/2009	1	22:15	*Eptesicus fuscus*	f	24.3	48	adult	pl			
8/22/2009	1	22:15	*Eptesicus fuscus*	m	17.3	44	juv	d			
8/22/2009	1	22:31	*Eptesicus fuscus*	m	21.8	46	adult	nr			
8/22/2009	1	22:59	*Eptesicus fuscus*	f	25.7	47	adult	pl			
8/22/2009	1	23:38	*Eptesicus fuscus*	m	16.7	46	juv	nr			
8/22/2009	1	0:05	*Eptesicus fuscus*	f	20.3	47	juv	nr			
8/22/2009	1	0:05	*Myotis lucifugus*	f	7.8	37	juv	nr	15493	y	
8/22/2009	1	0:05	*Eptesicus fuscus*	f	18.5	46	adult	pl			
8/25/2009	19	20:40	*Myotis lucifugus*	f	9.7	37	adult	pl	15308	y	
8/25/2009	19	20:40	*Myotis lucifugus*	f	7.4	36	juv	nr	15505		
8/25/2009	19	20:40	*Myotis lucifugus*	f	9.9	38	adult	pl	15506		
8/25/2009	19	20:40	*Myotis lucifugus*	f	6.6	36	juv	nr	15507		
8/25/2009	19	20:40	*Myotis lucifugus*	m	6.3	37	juv	nr	15508		
8/25/2009	19	20:40	*Myotis lucifugus*	f	8.6	37	juv	nr	15509		
8/25/2009	19	20:40	*Myotis lucifugus*	f	7.8	37	adult	pl	15510		
8/25/2009	19	20:40	*Myotis lucifugus*	m	6.3	36	juv	nr	15511		
8/25/2009	19	20:40	*Myotis lucifugus*	f	8.3	37	adult	pl	13470	y	
8/25/2009	19	20:40	*Myotis lucifugus*	f	11	37	adult	pl	15512		
8/25/2009	19	20:40	*Myotis lucifugus*	f	9.9	37	juv	nr	15513		
8/25/2009	19	21:35	*Myotis lucifugus*	m	5.9	38	juv	nr	15514		
8/25/2009	19	21:57	*Myotis lucifugus*	f	8	36	juv	nr	15515		
8/25/2009	19	22:00	*Myotis lucifugus*	m	6.9	37	juv	nr	15516		
8/25/2009	19	22:08	*Nycticeius humeralis*	f	11.9	39	juv	nr	15517		
8/25/2009	19	23:15	*Myotis lucifugus*	m	7	37	juv	nr	15518		
8/25/2009	19	23:40	*Myotis lucifugus*	m	6.5	36	juv	nr	15519		
8/25/2009	19	23:56	*Myotis lucifugus*	f	10	38	adult	pl	15520		
8/25/2009	19	0:04	*Myotis lucifugus*	f	8.1	37	juv	nr	15521		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/25/2009	19	0:30	*Myotis lucifugus*	f	7	37	juv	nr	15522		
8/26/2009	3	20:30	*Lasiurus borealis*	m	8.9	39	adult	d	21601		
8/26/2009	3	20:30	*Lasiurus borealis*	f	9.5	40	juv	nr	21602		
8/26/2009	3	20:30	*Nycticeius humeralis*	m	7.9	37	juv	d	15523		
8/26/2009	3	22:00	*Myotis lucifugus*	f	8.6	37	juv	nr	15524		
8/26/2009	3	0:00	*Myotis septentrionalis*	f	6.2	35	adult	pl	15298	y	
8/30/2009	17	20:30	*Perimyotis subflavus*	f	4.7	33	juv	nr	15525		
8/30/2009	17	20:30	*Perimyotis subflavus*	f	5.7	33	juv	nr	15526		
8/30/2009	17	23:00	*Myotis sodalis*	f	7.3	41	adult	pl	8270	y	
8/30/2009	17	23:05	*Myotis lucifugus*	m	6.4	38	adult	nr	15528		
8/30/2009	17	23:45	*Myotis sodalis*	f	7.4	38	adult	pl	13456	y	
8/30/2009	17	0:15	*Myotis septentrionalis*	m	5.1	34	juv	nr	15529		
8/30/2009	17	1:15	*Myotis lucifugus*	f	6.8	38	juv	nr	15530		
8/30/2009	17	1:25	*Myotis sodalis*	f	6.7	37	juv	nr	15531		
9/9/2009	14	20:25	*Myotis lucifugus*	f	9	37	adult	nr	15532		
9/9/2009	14	21:00	*Myotis lucifugus*	f	10.5	37	adult	pl	15533		
9/9/2009	14	21:00	*Myotis lucifugus*	f	8.3	37	adult	pl	15534		
9/9/2009	14	21:15	*Myotis septentrionalis*	f	8.4	35	adult	pl	15535		
9/9/2009	14	21:55	*Myotis lucifugus*	m	5.9	37	juv	nr	15536		
9/9/2009	14	22:05	*Myotis lucifugus*	f	10.7	36	adult	pl	15263	y	
9/9/2009	14	22:30	*Myotis lucifugus*	f	9.5	38	adult	pl	15537		
9/9/2009	14	22:48	*Myotis lucifugus*	f	7.6	37	juv	nr	15538		
9/9/2009	14	23:03	*Myotis lucifugus*	m	7.9	36	juv	nr	15539		
9/9/2009	14	23:15	*Myotis lucifugus*	f	6.5	37	juv	nr	15540		
9/9/2009	14	23:16	*Myotis lucifugus*	f	10.4	37	adult	pl	15541		
9/9/2009	14	23:17	*Myotis lucifugus*	f	8.7	37	juv	nr	15542		
9/9/2009	14	23:40	*Lasiurus borealis*	m	9.3	38	juv	nr	21603		
9/9/2009	14	23:40	*Myotis lucifugus*	f	8.9	37	adult	pl	15543		
9/9/2009	14	23:40	*Myotis lucifugus*	m	7.7	37	juv	nr	15544		
9/22/2009	17	20:00	*Myotis lucifugus*	f	7	38	juv	nr	15545		
9/22/2009	17	20:00	*Myotis septentrionalis*	m	9.2	34	adult	d	15546		
9/22/2009	17	20:25	*Myotis lucifugus*	f	10.3	38	adult	pl	15547		
9/22/2009	17	20:40	*Perimyotis subflavus*	f	9.3	35	adult	pl	15548		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
9/22/2009	17	21:20	*Myotis lucifugus*	f	11.1	37	adult	pl	15549		
9/22/2009	17	21:20	*Eptesicus fuscus*	m	19	44	adult	d	21604		
9/22/2009	17	21:50	*Myotis septentrionalis*	f	8.4	33	adult	pl	15550		
4/20/2010	1	20:35	*Lasiurus borealis*	f	10.7	38	adult	u	21605		
4/20/2010	1	20:35	*Myotis lucifugus*	f	6.1	37	adult	u	13493	y	
4/20/2010	1	20:35	*Myotis lucifugus*	f	7.2	35	adult	u	18651		
4/20/2010	1	20:35	*Myotis lucifugus*	f	8.5	37	adult	u	18652		
4/20/2010	1	20:35	*Myotis lucifugus*	f	6.4	36	adult	u	18653		
4/20/2010	1	20:35	*Myotis lucifugus*	f	7.5	36	adult	u	18654		
4/20/2010	1	20:35	*Myotis lucifugus*	f	6.8	36	adult	u	18655		
4/20/2010	1	20:45	*Myotis lucifugus*	f	6.1	35	adult	u	18656		
4/20/2010	1	20:45	*Eptesicus fuscus*	f	18.4	47	adult	u	21606		
4/20/2010	1	20:45	*Eptesicus fuscus*	f	15.5	46	adult	u	21607		
4/20/2010	1	20:45	*Eptesicus fuscus*	f	13.2	45	adult	u	21608		
4/20/2010	1	20:45	*Myotis lucifugus*	f	6.5	35	adult	u	18657		
4/20/2010	1	21:10	*Myotis lucifugus*	f	7.1	36	adult	u	18658		
4/20/2010	1	21:30	*Eptesicus fuscus*	f	18	46	adult	u	21609		
4/20/2010	1	21:40	*Eptesicus fuscus*	f	18.6	47	adult	u	21610		
4/20/2010	1	21:40	*Eptesicus fuscus*	f	22.2	48	adult	u	21611		
4/20/2010	1	21:56	*Myotis lucifugus*	f	6.5	35	adult	u	18659		
4/20/2010	1	21:57	*Myotis lucifugus*	f	7.8	36	adult	u	18660		
4/20/2010	1	23:15	*Eptesicus fuscus*	f	21	46	adult	u	21612		
4/20/2010	1	23:15	*Eptesicus fuscus*	f	19.8	47	adult	u	21613		
4/20/2010	1	23:15	*Perimyotis subflavus*	f	5.2	33	adult	u	18661		
4/20/2010	1	23:30	*Myotis lucifugus*	f	7	37	adult	u	18662		
4/20/2010	1	23:30	*Eptesicus fuscus*	f	17	47	adult	u			
4/20/2010	1	23:55	*Eptesicus fuscus*	m	16.9	47	adult	nr	21614		
4/20/2010	1	23:55	*Eptesicus fuscus*	m	17.5		adult	nr	21615		
4/21/2010	17	21:05	*Myotis lucifugus*	f	7.2	36	adult	u	15253	y	
4/21/2010	17	22:20	*Myotis sodalis*	f	8.3	37	adult	u	18663		
4/21/2010	17	23:15	*Myotis lucifugus*	f	8.1	37	adult	u	18664		
4/21/2010	17	0:00	*Myotis lucifugus*	m	6.8	36	adult	nr	18665		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
4/29/2010	17	20:45	*Eptesicus fuscus*	f	17.3	48	adult	u	21617		
4/29/2010	17	20:50	*Eptesicus fuscus*	f	14.6	45	adult	u	21616		
4/29/2010	17	21:00	*Myotis lucifugus*	f	6.5	38	adult	u	18666		
4/29/2010	17	21:00	*Myotis septentrionalis*	f	6.1	36	adult	u	18667		
4/29/2010	17	21:00	*Myotis lucifugus*	f	7.2	37	adult	u	18668		
4/29/2010	17	21:00	*Myotis lucifugus*	f	7	36	adult	u	15253	y	
4/29/2010	17	21:00	*Myotis lucifugus*	f	8.5	38	adult	u	18669		
4/29/2010	17	21:00	*Myotis sodalis*	f	6.2	37	adult	u	18670		
4/29/2010	17	21:45	*Eptesicus fuscus*	f	21.8	47	adult	u	21618		
4/29/2010	17	23:10	*Myotis lucifugus*	f	8	36	adult	u	18671		
4/29/2010	17	23:30	*Myotis lucifugus*	f	7.3	35	adult	u	18672		
4/29/2010	17	23:30	*Myotis lucifugus*	f	7.5	35	adult	u	18673		
5/4/2010	14	21:05	*Myotis lucifugus*	f	5.8	34	adult	u	18674		
5/4/2010	14	21:05	*Myotis lucifugus*	f	7	37	adult	u	18675		
5/4/2010	14	21:05	*Myotis lucifugus*	m	5.5	36	adult	nr	18676		
5/4/2010	14	21:05	*Myotis lucifugus*	f	7.1	36	adult	u	18677		
5/4/2010	14	21:20	*Myotis lucifugus*	f	7.2	37	adult	u	18678		
5/4/2010	14	21:20	*Myotis lucifugus*	f	7.4	36	adult	u	18679		
5/4/2010	14	21:20	*Myotis lucifugus*	f	7.3	37	adult	u	18680		
5/4/2010	14	21:30	*Myotis lucifugus*	f	7.5	36	adult	u	18681		
5/4/2010	14	21:45	*Myotis lucifugus*	f	7.5	37	adult	p	18682		
5/4/2010	14	21:55	*Myotis lucifugus*	f	7.9	36	adult	u	18683		
5/4/2010	14	22:05	*Myotis lucifugus*	m	6.9	35	adult	nr	18684		
5/4/2010	14	22:05	*Myotis lucifugus*	f	7	36	adult	u	18685		
5/4/2010	14	22:10	*Myotis lucifugus*	m	8.1	36	adult	nr	18686		
5/4/2010	14	22:40	*Myotis lucifugus*	f	8.1	37	adult	p	18687		
5/4/2010	14	22:40	*Myotis lucifugus*	f	7.6	36	adult	p	18688		
5/4/2010	14	22:40	*Myotis lucifugus*	f	8.2	36	adult	p	18689		
5/4/2010	14	22:40	*Myotis lucifugus*	f	8.5	36	adult	u	18690		
5/4/2010	14	22:45	*Myotis lucifugus*	f	6.8	36	adult	u	18691		
5/4/2010	14	23:00	*Myotis lucifugus*	f	6.5	35	adult	u	18692		
5/4/2010	14	23:00	*Myotis lucifugus*	f	8	36	adult	u	18693		
5/4/2010	14	23:00	*Myotis lucifugus*	f	7	37	adult	u	18694		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
5/4/2010	14	23:00	*Myotis lucifugus*	m	7.5	37	adult	nr	18695		
5/4/2010	14	23:00	*Myotis lucifugus*	f	9.5	36	adult	u	18696		
5/4/2010	14	23:10	*Myotis lucifugus*	f			adult				y
5/4/2010	14	23:45	*Myotis lucifugus*	f	7.1	36	adult	u	18697		
5/4/2010	14	23:45	*Myotis lucifugus*	f	7	36	adult	u	18698		
5/4/2010	14	0:08	*Myotis lucifugus*	f	7.4	35	adult	u	18699		
5/5/2010	4	20:55	*Myotis septentrionalis*	f	6	36	adult	u	18700		
5/5/2010	4	21:00	*Myotis lucifugus*	f	8.6	40	adult	u	18701		
5/5/2010	4	21:35	*Eptesicus fuscus*	f	21.5	50	adult	u	21619		
5/5/2010	4	21:35	*Eptesicus fuscus*	f	27.5	48	adult	u	21620		
5/5/2010	4	22:10	*Eptesicus fuscus*								y
5/5/2010	4	22:10	*Eptesicus fuscus*	m	16.5	45	adult	nr	21623		
5/5/2010	4	22:10	*Eptesicus fuscus*	f	21.5	46	adult	u	21621		
5/5/2010	4	22:10	*Eptesicus fuscus*	f	20.5	46	adult	u	21622		
5/5/2010	4	22:40	*Eptesicus fuscus*	f	24.9	49	adult	u	21624		
5/5/2010	4	22:40	*Eptesicus fuscus*	f	19.5	44	adult	u	21625		
5/5/2010	4	23:45	*Myotis sodalis*	f	8.1	39	adult	u	18702		
5/5/2010	4	23:45	*Myotis sodalis*	f	7.6	37	adult	u	18703		
5/10/2010	17	21:10	*Myotis lucifugus*	f	8.2	38	adult	u	18704		
5/10/2010	17	21:10	*Myotis lucifugus*	m	6.9	37	adult	nr	18705		
5/10/2010	17	21:10	*Myotis lucifugus*	f	8.4	37	adult	u	18706		
5/10/2010	17	21:10	*Myotis lucifugus*	f	7.2	36	adult	u	18707		
5/10/2010	17	21:10	*Myotis lucifugus*	f	7.5	36	adult	u	18708		
5/10/2010	17	21:00	*Myotis lucifugus*	f	7.3	37	adult	u	18709		
5/10/2010	17	21:20	*Myotis septentrionalis*	f	5.9	35	adult	u	18710		
5/10/2010	17	21:20	*Myotis lucifugus*	f	6.9	34	adult	u	18711		
5/10/2010	17	21:20	*Myotis lucifugus*	f	7	36	adult	u	18712		
5/10/2010	17	21:20	*Nycticeius humeralis*	f	10.6	36	adult	u	18713		
5/10/2010	17	21:20	*Nycticeius humeralis*	f	10.4	37	adult	u	18714		
5/10/2010	17	21:20	*Myotis sodalis*	m	6	38	adult	nr	18715		
5/10/2010	17	21:50	*Myotis sodalis*	f	7.2	38	adult	u	18716		
5/10/2010	17	22:30	*Eptesicus fuscus*	f	22.9	49	adult	u	21626		
5/10/2010	17	22:30	*Eptesicus fuscus*	f	21	45	adult	u	21627		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
5/10/2010	17	22:30	*Eptesicus fuscus*	f	19.9	46	adult	u	21628		
5/10/2010	17	23:45	*Myotis septentrionalis*	f	7.1	36	adult	u	15342	y	
5/10/2010	17	23:45	*Myotis septentrionalis*	f	5.9	34	adult	u	18717		
5/10/2010	17	23:50	*Myotis lucifugus*	f	8.7	37	adult	u	18718		
5/10/2010	17	23:50	*Myotis lucifugus*	f	8.5	37	adult	u	15252	y	
5/10/2010	17	0:00	*Myotis lucifugus*	f	8.4	36	adult	u	18719		
5/10/2010	17	0:40	*Eptesicus fuscus*	f	20.8	45	adult	u	21629		
5/19/2010	15	21:00	*Myotis lucifugus*	f	8	37	adult	u	18720		
5/19/2010	15	21:00	*Myotis lucifugus*	m	7.2	36	adult	nr	18721		
5/19/2010	15	21:00	*Myotis lucifugus*	f	7.9	37	adult	u	18722		
5/19/2010	15	21:00	*Myotis lucifugus*	f	8.3	37	adult	u	13474	y	
5/19/2010	15	21:00	*Myotis lucifugus*	m	6.2	37	adult	nr	18723		
5/19/2010	15	21:00	*Myotis lucifugus*	f	6.9	37	adult	u	18724		
5/19/2010	15	21:00	*Myotis lucifugus*	f	7.5	37	adult	u	18725		
5/19/2010	15	21:15	*Myotis lucifugus*	f	7	35	adult	u	18726		
5/19/2010	15	21:15	*Myotis lucifugus*	f	8	36	adult	u	18727		
5/19/2010	15	21:15	*Myotis lucifugus*	f	7.2	36	adult	u	15125	y	
5/19/2010	15	21:15	*Myotis lucifugus*	f	9.1	37	adult	u	18728		
5/19/2010	15	21:15	*Myotis lucifugus*	f	7.1	37	adult	u	18729		
5/19/2010	15	21:15	*Myotis lucifugus*	f	10	38	adult	u	18730		
5/19/2010	15	21:15	*Myotis lucifugus*	f	7.4	36	adult	u	18731		
5/19/2010	15	21:15	*Myotis lucifugus*	f	7.8	37	adult	u	18732		
5/19/2010	15	21:15	*Myotis lucifugus*	f	6.9	37	adult	u	18733		
5/19/2010	15	21:15	*Myotis lucifugus*	f	7.4	37	adult	u	18734		
5/19/2010	15	21:15	*Myotis lucifugus*	f	9.5	38	adult	u	18735		
5/19/2010	15	21:15	*Myotis lucifugus*	f	8	36	adult	u	18736		
5/19/2010	15	21:15	*Myotis lucifugus*	f	8.5	37	adult	u	18737		
5/19/2010	15	21:15	*Myotis lucifugus*	f	7.1	36	adult	u	18738		
5/19/2010	15	21:15	*Myotis lucifugus*	f	7.5	37	adult	u	18739		
5/19/2010	15	21:15	*Myotis lucifugus*	f	6.3	35	adult	u	18740		
5/19/2010	15	21:15	*Myotis lucifugus*	f	6.7	35	adult	u	18741		
5/19/2010	15	21:30	*Eptesicus fuscus*	m	16.7	45	adult	nr	21630		
5/19/2010	15	21:30	*Eptesicus fuscus*	m	15.5	46	adult	nr	21631		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
5/19/2010	15	21:30	*Lasiurus cinereus*	f	28.5	54	adult	u	21632		
5/19/2010	15	22:50	*Myotis lucifugus*	m	6.5	36	adult	nr	18742		
5/19/2010	15	23:10	*Myotis lucifugus*	f	8.6	37	adult	u	18743		
5/19/2010	15	23:10	*Myotis septentrionalis*	f	7.9	35	adult	u	18744		
5/19/2010	15	23:15	*Myotis septentrionalis*	f	6.7	35	adult	u	18745		
5/19/2010	15	23:15	*Myotis lucifugus*	m	6.9	35	adult	nr	18746		
5/19/2010	15	23:30	*Myotis lucifugus*	f	8.7	36	adult	u	18747		
5/19/2010	15	23:30	*Myotis lucifugus*	m	7.5	36	adult	nr	18748		
5/20/2010	3	20:45	*Perimyotis subflavus*	f	6.4	35	adult	u	18749		
5/20/2010	3	21:10	*Lasiurus borealis*	f	14.2	40	adult	u	21633		
5/20/2010	3	21:15	*Myotis lucifugus*	f	6	35	adult	u	18750		
5/20/2010	3	22:05	*Myotis septentrionalis*	f	8.7	34	adult	u	18632		
5/20/2010	3	22:50	*Myotis sodalis*	f	7.8	38	adult	u	18633		
5/20/2010	3	23:10	*Lasiurus borealis*	f	15.3	41	adult	u	21634		
5/20/2010	3	23:27	*Perimyotis subflavus*	f	6.2	37	adult	u	18634		
5/20/2010	3	23:35	*Myotis septentrionalis*	f	7	36	adult	u	18635		
5/20/2010	3	23:35	*Myotis septentrionalis*	m	5.8	34	adult	nr	18636		
5/25/2010	1	21:00	*Lasiurus borealis*	f	14.2	40	adult	p	21635		
5/25/2010	1	21:20	*Myotis lucifugus*	f	7.8	37	adult	u	18637		
5/25/2010	1	21:20	*Myotis lucifugus*	m	6.8	37	adult	nr	18638		
5/25/2010	1	21:10	*Myotis lucifugus*	f	8.1	37	adult	u	18639		
5/25/2010	1	21:20	*Myotis lucifugus*	f	8.4	37	adult	p	18640		
5/25/2010	1	21:20	*Myotis lucifugus*	f	8.2	37	adult	p	18641		
5/25/2010	1	21:20	*Myotis lucifugus*	f	8	37	adult	p	18642		
5/25/2010	1	21:20	*Myotis lucifugus*	f	9	38	adult	u	18643		
5/25/2010	1	21:20	*Myotis lucifugus*	m	7	36	adult	nr	18644		
5/25/2010	1	21:20	*Myotis lucifugus*	f	8.5	38	adult	p	18645		
5/25/2010	1	21:20	*Myotis lucifugus*	m	6	37	adult	nr	18646		
5/25/2010	1	21:20	*Myotis lucifugus*	m	6.7	38	adult	nr	18647		
5/25/2010	1	21:20	*Myotis lucifugus*	f	7.6	37	adult	u	18648		
5/25/2010	1	21:20	*Myotis lucifugus*	f	8.1	37	adult	p	18649		
5/25/2010	1	21:40	*Myotis lucifugus*	m	7	36	adult	nr	18751		
5/25/2010	1	21:45	*Lasiurus borealis*	f	17.5	41	adult	p	21636		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
5/25/2010	1	22:00	*Eptesicus fuscus*	m	16.9	45	adult	nr	21637		
5/25/2010	1	22:20	*Eptesicus fuscus*	f	28	49	adult	p	21638		
5/25/2010	1	22:30	*Eptesicus fuscus*	f	26.9	49	adult	p	21639		
5/25/2010	1	22:30	*Myotis lucifugus*	f	7.9	35	adult	u	18752		
5/25/2010	1	22:30	*Myotis septentrionalis*	f	6.3	34	adult	u	18753		
5/25/2010	1	22:30	*Lasiurus borealis*	f	14.5	39	adult	p	21640		
5/25/2010	1	22:55	*Lasiurus borealis*	f	15.4	40	adult	p	21641		
5/25/2010	1	22:55	*Eptesicus fuscus*	f	28	46	adult	p	21642		
5/25/2010	1	23:20	*Myotis lucifugus*	f	9.1	37	adult	p	18754		
5/25/2010	1	23:37	*Myotis septentrionalis*	f	7.5	36	adult	u	18755		
5/25/2010	1	23:37	*Myotis lucifugus*	m	6.9	36	adult	nr	18756		
5/25/2010	1	23:41	*Myotis lucifugus*	f	11	39	adult	p	18757		
5/25/2010	1	23:59	*Eptesicus fuscus*	m	15.6	45	adult	nr	21643		
5/25/2010	1	23:59	*Myotis lucifugus*	f	9.6	37	adult	p	18758		
5/25/2010	1	0:33	*Eptesicus fuscus*	m	17.8	47	adult	nr	21644		
5/26/2010	17	21:05	*Lasiurus borealis*	f	13.8	40	adult	p	21602	y	
5/26/2010	17	21:10	*Myotis septentrionalis*	f	6	34	adult	u	15260	y	
5/26/2010	17	21:15	*Myotis sodalis*	f	8.7	37	adult	p	13452	y	
5/26/2010	17	21:30	*Lasiurus borealis*	f	16.8	41	adult	p	21645		
5/26/2010	17	21:30	*Myotis lucifugus*	f	8	36	adult	u	18759		
5/26/2010	17	21:45	*Myotis lucifugus*	m	6.6	37	adult	nr	18760		
5/26/2010	17	21:55	*Myotis lucifugus*	m	7.5	36	adult	nr	18761		
5/26/2010	17	22:00	*Myotis lucifugus*	m	7.5	36	adult	nr	18762		
5/26/2010	17	22:10	*Myotis lucifugus*	f	8.4	35	adult	p	18763		
5/26/2010	17	22:10	*Myotis lucifugus*	f	9.3	38	adult	p	18764		
5/26/2010	17	22:15	*Myotis lucifugus*	f	10.5	36	adult	p	18765		
5/26/2010	17	22:10	*Myotis lucifugus*	f	10.6	36	adult	p	18766		
5/26/2010	17	22:30	*Eptesicus fuscus*	f	25.3	45	adult	p	21646		
5/26/2010	17	22:35	*Myotis lucifugus*	f	10.5	37	adult	p	18767		
5/26/2010	17	23:10	*Myotis septentrionalis*	f	8.2	37	adult	u	18768		
5/26/2010	17	23:10	*Myotis lucifugus*	f	10.5	36	adult	u	18769		
6/4/2010	20	21:15	*Eptesicus fuscus*	f	17.2	45	adult	u	21647		
6/4/2010	20	21:20	*Eptesicus fuscus*	f	21.3	47	adult	u	21648		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
6/4/2010	20	21:30	*Eptesicus fuscus*	f	15.5	46	adult	l	21649		
6/4/2010	20	21:30	*Lasiurus borealis*	f	14	41	adult	l	21650		
6/4/2010	20	22:00	*Eptesicus fuscus*	m	18.2	46	adult	nr	21667		
6/4/2010	20	22:00	*Eptesicus fuscus*	f	22.2	48	adult	p	21626	y	
6/4/2010	20	22:10	*Eptesicus fuscus*	f	23.8	47	adult	p	21668		
6/4/2010	20	22:10	*Eptesicus fuscus*	f	23.6	46	adult	l	21669		
6/4/2010	20	21:50	*Eptesicus fuscus*	f	20.4	45	adult	l	21670		
6/4/2010	20	21:50	*Eptesicus fuscus*	m	18	47	adult	nr	21671		
6/4/2010	20	21:50	*Myotis lucifugus*	m	7.9	37	adult	nr	18770		
6/4/2010	20	22:20	*Myotis sodalis*	f	9.3	38	adult	p	15442	y	
6/4/2010	20	22:50	*Eptesicus fuscus*	f	24.6	49	adult	p	21672		
6/4/2010	20	22:50	*Eptesicus fuscus*	f	21.5	46	adult	l	21673		
6/4/2010	20	23:20	*Eptesicus fuscus*	m	19.9	47	adult	nr	21674		
6/4/2010	20	23:20	*Myotis sodalis*	f	9.1	38	adult	p	18771		
6/4/2010	20	23:25	*Eptesicus fuscus*	f	21.7	46	adult	l	21675		
6/4/2010	20	23:25	*Eptesicus fuscus*	f	24	49	adult	l	21698		
6/4/2010	20	23:40	*Myotis sodalis*	f	9.2	39	adult	p	18772		
6/14/2010	11	21:25	*Myotis lucifugus*	f	10.3	37	adult	p	18773		
6/14/2010	11	21:50	*Lasiurus borealis*	m	10.5	37	adult	nr	21699		
6/14/2010	11	22:10	*Myotis lucifugus*	f	9.8	36	adult	p	18774		
6/14/2010	11	22:10	*Myotis lucifugus*	f	9.3	36	adult	p	18775		
6/14/2010	11	22:10	*Eptesicus fuscus*	m	16.8	45	adult	nr	21700		
6/14/2010	11	22:10	*Eptesicus fuscus*	m	17.5	47	adult	nr	21701		
6/14/2010	11	22:25	*Myotis lucifugus*	f	8	36	adult	p	18776		
6/14/2010	11	22:25	*Eptesicus fuscus*	f	22.5	48	adult	l	21702		
6/14/2010	11	22:30	*Myotis lucifugus*	f	8.3	36	adult	p	18777		
6/14/2010	11	22:35	*Myotis lucifugus*	f	9.5	37	adult	p	18778		
6/15/2010	15	21:20	*Myotis lucifugus*	f	9.5	37	adult	p	18779		
6/15/2010	15	21:20	*Myotis lucifugus*	f	8	38	adult	p	18780		
6/15/2010	15	21:20	*Myotis lucifugus*	m	8.1	36	adult	nr	18781		
6/15/2010	15	21:20	*Myotis lucifugus*	f	7.5	36	adult	l	15110	y	
6/15/2010	15	21:20	*Myotis lucifugus*	f	6.9	37	adult	l	18782		
6/15/2010	15	21:20	*Myotis lucifugus*	m	6.7	37	adult	nr	18783		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
6/15/2010	15	21:20	*Myotis lucifugus*	f	6.9	37	adult	l	18784		
6/15/2010	15	21:20	*Myotis lucifugus*	m	6.5	37	adult	nr	18785		
6/15/2010	15	21:20	*Myotis lucifugus*	f	9.3	35	adult	p	18786		
6/15/2010	15	21:20	*Eptesicus fuscus*	f	19.2	46	adult	l	21703		
6/15/2010	15	21:20	*Myotis lucifugus*	f	7.5	36	adult	l	18787		
6/15/2010	15	21:20	*Myotis lucifugus*	f	10.5	37	adult	p	18788		
6/15/2010	15	21:20	*Myotis lucifugus*	f	7.4	36	adult	l	18789		
6/15/2010	15	21:20	*Myotis lucifugus*	f	7.5	35	adult	l	18790		
6/15/2010	15	21:20	*Myotis lucifugus*	f	6.8	36	adult	l	18791		
6/15/2010	15	21:20	*Myotis lucifugus*	f	8	36	adult	l	18792		
6/15/2010	15	21:35	*Myotis lucifugus*	m	7	37	adult	nr	18793		
6/15/2010	15	21:35	*Myotis lucifugus*	f	9.3	35	adult	p	18794		
6/15/2010	15	21:35	*Myotis lucifugus*	f	7.5	35	adult	l	18795		
6/15/2010	15	21:35	*Myotis lucifugus*	f	6.9	36	adult	l	18796		
6/15/2010	15	21:35	*Myotis lucifugus*	f	8	36	adult	nr	18797		
6/15/2010	15	21:40	*Myotis lucifugus*	f	8	36	adult	l	18798		
6/15/2010	15	21:35	*Myotis lucifugus*				adult				
6/15/2010	15	21:35	*Myotis lucifugus*				adult				
6/16/2010	20	21:30	*Myotis lucifugus*	f	9	37	adult	p	18799		
6/16/2010	20	21:30	*Eptesicus fuscus*	m			adult				y
6/16/2010	20	21:40	*Lasiurus borealis*	f	12.5	40	adult	l	21704		
6/16/2010	20	22:30	*Myotis lucifugus*	f	9.5	37	adult	p	18800		
6/16/2010	20	23:15	*Myotis sodalis*	f	7.6	37	adult	l	18801		
6/16/2010	20	23:15	*Eptesicus fuscus*	m	18.7	42	adult	nr	21705		
6/16/2010	20	23:30	*Myotis sodalis*	f	7.9	37	adult	l	15504	y	
6/16/2010	20	23:40	*Myotis sodalis*	f	8.3	40	adult	l	18802		
6/16/2010	20	0:00	*Myotis lucifugus*	f	11	38	adult	p	18803		
6/16/2010	20	0:00	*Myotis lucifugus*	f	9.1	36	adult	l	18804		
6/16/2010	20	0:08	*Myotis sodalis*	f	8.3	37	adult	l	18805		
6/16/2010	20	0:15	*Eptesicus fuscus*	f	22.8	45	adult	l	21706		
6/16/2010	20	0:15	*Eptesicus fuscus*	f			adult	nr			
6/24/2010	8	21:40	*Myotis lucifugus*	f	6.6	35	adult	l	18806		
6/24/2010	8	22:00	*Myotis lucifugus*	m	6.4	36	adult	nr	18807		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
6/24/2010	8	22:00	*Myotis lucifugus*	f	8.3	37	adult	l	18808		
6/24/2010	8	22:00	*Myotis septentrionalis*	m	5.6	35	juv	nr	18809		
6/24/2010	8	22:00	*Myotis lucifugus*	f	8	35	adult	l	18810		
6/24/2010	8	22:00	*Myotis lucifugus*	f	7.1	37	adult	l	18811		
6/24/2010	8	22:00	*Myotis lucifugus*	f	7.2	36	adult	l	18812		
6/24/2010	8	22:00	*Myotis lucifugus*	m	7.5	38	adult	nr	18813		
6/24/2010	8	22:00	*Myotis lucifugus*	f	8.4	35	adult	l	18814		
6/24/2010	8	22:00	*Myotis lucifugus*	f	7.9	37	adult	l	18850		
6/24/2010	8	23:20	*Myotis lucifugus*	m	6.9	35	juv	nr	18816		
6/24/2010	8	23:20	*Myotis lucifugus*	f	9.8	37	adult	l	18815		
6/25/2010	14	21:40	*Myotis lucifugus*	f	8.3	37	adult	l	18817		
6/25/2010	14	21:43	*Myotis lucifugus*	f	8.5	37	adult	pl	18818		
6/25/2010	14	21:52	*Myotis septentrionalis*	m	6.3	34	adult	nr	18819		
6/25/2010	14	21:52	*Myotis lucifugus*	m	7.3	37	juv	nr	18820		
6/25/2010	14	21:53	*Myotis lucifugus*	f	6.4	37	juv	nr	18821		
6/25/2010	14	21:54	*Myotis lucifugus*	f	9	38	adult	l	18822		
6/25/2010	14	22:10	*Myotis lucifugus*	f	8.7	36	adult	l	18823		
6/25/2010	14	22:10	*Myotis lucifugus*	f	7.5	37	adult	l	18824		
6/25/2010	14	22:25	*Myotis lucifugus*	f	9.5	37	adult	l	18825		
6/25/2010	14	22:35	*Myotis lucifugus*	f	8	36	adult	l	18826		
6/25/2010	14	22:40	*Myotis lucifugus*	f	9	36	adult	l	18827		
6/25/2010	14	22:40	*Eptesicus fuscus*	f	19.1	45	adult	l	21707		
6/25/2010	14	23:00	*Myotis lucifugus*	m	9.2	38	adult	nr	18828		
6/25/2010	14	23:00	*Myotis septentrionalis*	f	7.5	36	adult	l	18829		
6/25/2010	14	23:00	*Eptesicus fuscus*	f	23.6	48	adult	l	21708		
6/25/2010	14	23:00	*Myotis lucifugus*	m	6.2	34	juv	nr	18830		
6/25/2010	14	23:15	*Myotis lucifugus*	f	7.5	35	adult	l	18832		
6/25/2010	14	23:15	*Myotis lucifugus*	f	5.6	37	juv	nr	18831		
6/25/2010	14	23:30	*Myotis lucifugus*	f	9.6	37	adult	l	18833		
6/25/2010	14	23:45	*Myotis lucifugus*	f	9.3	37	adult	l	18834		
6/25/2010	14	23:45	*Myotis lucifugus*	m	7	34	adult	nr	18835		
6/25/2010	14	23:45	*Myotis lucifugus*	f	11.2	36	adult	p	18836		
6/25/2010	14	23:45	*Myotis lucifugus*	m	8.3	35	adult	nr	18837		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
6/25/2010	14	23:45	*Eptesicus fuscus*	m	18.6	46	adult	nr	21709		
6/25/2010	14	0:00	*Myotis lucifugus*	f	6.5	35	juv	nr	18838		
6/25/2010	14	0:15	*Myotis lucifugus*	f	7.5	38	juv	nr	18839		
6/25/2010	14	0:25	*Myotis lucifugus*	f	9.3	38	adult	l	18840		
6/25/2010	14	0:30	*Myotis lucifugus*	f	9.5	36	adult	l	18841		
6/25/2010	14	0:45	*Myotis lucifugus*	f	7	36	juv	nr	18842		
6/25/2010	14	0:45	*Myotis lucifugus*	m	6.7	35	juv	nr	18843		
6/25/2010	14	0:45	*Myotis lucifugus*	f	7.4	35	juv	nr	18844		
6/25/2010	14	0:45	*Myotis lucifugus*		7.4	37	juv	nr	18845		
6/28/2010	1	21:20	*Lasiurus borealis*	m	11.7	38	adult	nr	21710		
6/28/2010	1	21:25	*Myotis lucifugus*	f	7.5	37	adult	l	18846		
6/28/2010	1	21:25	*Eptesicus fuscus*	f	18.8	48	adult	l	21711		
6/28/2010	1	21:25	*Myotis lucifugus*	f	7.3	37	adult	pl	18847		
6/28/2010	1	21:25	*Myotis lucifugus*	f	7.5	38	adult	l	15185	y	
6/28/2010	1	21:25	*Myotis lucifugus*	f	7.5	38	adult	pl	18848		
6/28/2010	1	21:35	*Myotis lucifugus*	m	6.4	34	adult	nr	18849		
6/28/2010	1	21:35	*Eptesicus fuscus*	f	15.3	45	adult	l	21712		
6/28/2010	1	21:35	*Myotis lucifugus*	f	6.8	37	adult	pl	18851		
6/28/2010	1	21:35	*Myotis lucifugus*	m	6.3	35	adult	nr	18852		
6/28/2010	1	21:35	*Myotis lucifugus*	m	6.7	35	adult	nr	18853		
6/28/2010	1	22:00	*Myotis sodalis*	f	6.5	38	adult	l	18854		
6/28/2010	1	22:25	*Eptesicus fuscus*	m	13	45	juv	nr	21713		
6/28/2010	1	22:30	*Myotis septentrionalis*	m	5.2	34	juv	nr	18855		
6/28/2010	1	22:35	*Eptesicus fuscus*	f	25	45	adult	l	21714		
6/28/2010	1	23:05	*Myotis sodalis*	f	7.5	35	adult	l	18858		
6/28/2010	1	23:05	*Myotis lucifugus*	m	8.1	37	adult	nr	18857		
6/28/2010	1	23:05	*Myotis lucifugus*	f	9.5	39	adult	pl	18856		
6/28/2010	1	23:10	*Myotis lucifugus*	f	10.5	36	adult	l	18859		
6/28/2010	1	23:10	*Myotis sodalis*	f	7.6	36	adult	l	18860		
6/28/2010	1	23:30	*Myotis septentrionalis*	m	6	34	adult	nr	18861		
6/28/2010	1	23:50	*Eptesicus fuscus*	m	18	46	adult	nr	21715		
6/28/2010	1	23:50	*Eptesicus fuscus*	m	19.5	46	juv	nr	21716		
6/28/2010	1	23:55	*Myotis lucifugus*	m	7.5	36	juv	nr	18862		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
6/28/2010	1	23:55	*Myotis lucifugus*	f	9.4	34	adult	l	18863		
6/28/2010	1	0:05	*Myotis lucifugus*	f	8.8	36	adult	l	18864		
6/28/2010	1	0:15	*Myotis lucifugus*	f	8.1	37	adult	l	18865		
7/12/2010	17	21:15	*Myotis septentrionalis*	f	6.7	38	adult	pl	18866		
7/12/2010	17	21:27	*Eptesicus fuscus*	f	18.5	47	adult		21717		
7/12/2010	17	21:50	*Myotis septentrionalis*	m	6	35	juv	nr	18867		
7/12/2010	17	22:15	*Eptesicus fuscus*	f	19.3	46	adult	pl	21646	y	
7/12/2010	17	22:15	*Myotis lucifugus*	m	7.5	36	juv	nr	18868		
7/12/2010	17	22:20	*Eptesicus fuscus*	m	16.7	47	adult	nr	21718		
7/12/2010	17	22:20	*Nycticeius humeralis*	f	12.1	36	adult	pl	18869		
7/12/2010	17	22:35	*Myotis sodalis*	f	5.3	37	juv	nr	18870		
7/12/2010	17	22:50	*Eptesicus fuscus*	f	20.5	44	adult	l	21719		
7/12/2010	17	23:05	*Myotis sodalis*	f	6.2	37	juv	nr	18871		
7/12/2010	17	23:20	*Myotis sodalis*	m	5.6	36	juv	nr	18872		
7/12/2010	17	23:35	*Myotis lucifugus*	f	9	35	adult	pl	18873		
7/12/2010	17	23:50	*Myotis sodalis*	m	5.4	36	juv	nr	18874		
7/12/2010	17	23:55	*Eptesicus fuscus*	m	18.2	46	juv	nr	21720		
7/12/2010	17	0:30	*Myotis lucifugus*	f	6.5	36	juv	nr	18875		
7/12/2010	17	0:45	*Myotis lucifugus*	m	5.6	36	juv	nr	18876		
7/12/2010	17	0:55	*Eptesicus fuscus*	m	18.7	46	adult	nr	21721		
7/13/2010	20	21:25	*Lasiurus borealis*	f	9.3	40	juv	nr	21722		
7/13/2010	20	21:30	*Eptesicus fuscus*	m	14.8	46	juv	nr	21723		
7/13/2010	20	21:35	*Eptesicus fuscus*	f	20.4	46	adult	pl	21724		
7/13/2010	20	21:35	*Eptesicus fuscus*	m	15.7	46	adult	nr	21674	y	
7/13/2010	20	21:35	*Eptesicus fuscus*	m	13.2	40	juv	nr	21725		
7/13/2010	20	21:35	*Eptesicus fuscus*	f	18.6	45	adult	l	21726		
7/13/2010	20	21:35	*Eptesicus fuscus*	f	16.8	46	juv	nr	21727		
7/13/2010	20	21:35	*Eptesicus fuscus*	m	12.8	44	juv	nr	21728		
7/13/2010	20	21:45	*Myotis lucifugus*	f	7.5	37	adult	nr	18877		
7/13/2010	20	21:45	*Myotis lucifugus*	f	7.6	35	adult	pl	18878		
7/13/2010	20	21:45	*Myotis lucifugus*	f	7.5	36	adult	l	18879		
7/13/2010	20	21:45	*Myotis lucifugus*	f	8.3	38	adult	l	18880		
7/13/2010	20	21:45	*Myotis lucifugus*	f	7.7	37	adult	pl	18881		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/13/2010	20	21:50	*Eptesicus fuscus*	m	17.8	46	adult	nr	21729		
7/13/2010	20	21:50	*Myotis lucifugus*	m	7.4	36	adult	nr	18882		
7/13/2010	20	21:50	*Myotis lucifugus*	m	7.2	36	adult	nr	18883		
7/13/2010	20	21:50	*Myotis lucifugus*	f	8.2	36	adult	pl	18884		
7/13/2010	20	21:50	*Myotis lucifugus*	f	8.3	37	adult	l	18885		
7/13/2010	20	22:10	*Myotis lucifugus*	f	8	38	adult	pl	18886		
7/13/2010	20	22:25	*Eptesicus fuscus*	f	16	45	juv	nr	21730		
7/13/2010	20	22:40	*Lasiurus borealis*	f	12.2	42	juv	nr	21731		
7/13/2010	20	22:45	*Eptesicus fuscus*	m	15.5	45	adult	nr	21732		
7/13/2010	20	22:45	*Eptesicus fuscus*	f	18.2	45	adult	l	21670	y	
7/13/2010	20	22:50	*Lasiurus borealis*	m	11.9	37	adult	nr	21733		
7/13/2010	20	23:00	*Myotis septentrionalis*	m	6		juv	nr	18887		
7/13/2010	20	23:00	*Eptesicus fuscus*	m	15.6	47	juv	nr	21734		
7/13/2010	20	23:10	*Eptesicus fuscus*	m	16.5	45	adult	nr	21735		
7/13/2010	20	23:10	*Eptesicus fuscus*	m	15.5	44	adult	nr	21736		
7/13/2010	20	23:15	*Eptesicus fuscus*	m	16.3	47	juv	nr	21737		
7/13/2010	20	23:15	*Eptesicus fuscus*	f	17.8	45	juv	nr	21738		
7/13/2010	20	23:15	*Eptesicus fuscus*	f	21	46	adult	pl	21739		
7/13/2010	20	23:15	*Eptesicus fuscus*	m	17.4	46	juv	nr	21740		
7/13/2010	20	23:15	*Eptesicus fuscus*	m	11.5	44	juv	nr	21741		
7/13/2010	20	23:35	*Eptesicus fuscus*	m	14.4	45	juv	nr	21742		
7/13/2010	20	0:10	*Myotis septentrionalis*	f	6.5	35	adult	l	18888		
7/13/2010	20	0:10	*Myotis sodalis*	f	8.1	38	adult	l	18889		
7/13/2010	20	0:25	*Myotis lucifugus*	f	8.5	36	adult	pl	18890		
7/13/2010	20	0:45	*Myotis lucifugus*	f	9.1	36	adult	l	18645	y	
7/21/2010	15	21:25	*Myotis lucifugus*	f	7.7	39	juv	nr	18891		
7/21/2010	15	21:25	*Myotis lucifugus*	f	8.5	39	adult	pl	15126	y	
7/21/2010	15	21:25	*Myotis lucifugus*	m	7.5	37	adult	nr	18892		
7/21/2010	15	21:40	*Myotis lucifugus*	f	8.5	37	adult	pl	18894		
7/21/2010	15	21:40	*Myotis lucifugus*	f	7.2	36	juv	nr	18893		
7/21/2010	15	21:55	*Myotis lucifugus*	m	7.5	37	juv	nr	18895		
7/21/2010	15	21:55	*Myotis lucifugus*	f	9.9	39	adult	pl	18896		
7/21/2010	15	21:55	*Myotis lucifugus*	f	9	36	adult	pl	18897		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/21/2010	15	22:10	*Lasiurus borealis*	m	9.3	38	adult	nr	21743		
7/21/2010	15	22:10	*Myotis lucifugus*	f	8.7	36	adult	pl	18898		
7/21/2010	15	22:10	*Myotis sodalis*	f	8.5	39	adult	pl	8270	y	
7/21/2010	15	22:40	*Myotis lucifugus*	f	7.4	35	adult	pl	18899		
7/21/2010	15	22:40	*Myotis lucifugus*	f	8.2	35	adult	pl	18900		
7/21/2010	15	22:55	*Myotis lucifugus*	m	6.3	35	juv	nr	18901		
7/21/2010	15	23:00	*Myotis septentrionalis*	m	5.7	34	juv	nr	18902		
7/21/2010	15	23:00	*Eptesicus fuscus*	f	18.6	47	juv	nr	21744		
7/21/2010	15	23:00	*Eptesicus fuscus*	f	18.2	47	adult	pl	21745		
7/21/2010	15	23:20	*Myotis lucifugus*	f	10.5	37	adult	pl	18903		
7/21/2010	15	23:40	*Eptesicus fuscus*	f	20	46	adult	pl	21746		
7/21/2010	15	23:40	*Myotis lucifugus*	f	8.8	39	adult	pl	18904		
7/21/2010	15	0:00	*Myotis lucifugus*	f	6.2	37	juv	nr	18905		
7/26/2010	16	21:15	*Perimyotis subflavus*	f	5.2	34	juv	nr	18906		
7/26/2010	16	21:30	*Myotis lucifugus*	f	7.7	39	adult	pl	15214	y	
7/26/2010	16	21:30	*Myotis lucifugus*	f	8	37	adult	pl	18907		
7/26/2010	16	21:40	*Myotis lucifugus*	f	7.8	39	juv	nr	18908		
7/26/2010	16	21:40	*Myotis lucifugus*	f	7.5	37	juv	nr	18909		
7/26/2010	16	21:40	*Myotis lucifugus*	f	7.4	35	adult	pl	18919		
7/26/2010	16	21:40	*Myotis lucifugus*	f	7.5	38	adult	pl	18910		
7/26/2010	16	21:40	*Myotis lucifugus*	f	8.9	37	adult	pl	18911		
7/26/2010	16	21:40	*Myotis septentrionalis*	f	6.1	32	juv	nr	18912		
7/26/2010	16	21:40	*Myotis lucifugus*	f	7.6	36	juv	nr	18913		
7/26/2010	16	21:40	*Myotis lucifugus*	f	7.1	36	juv	nr	18914		
7/26/2010	16	21:40	*Myotis lucifugus*	f	8.4	38	juv	nr	18915		
7/26/2010	16	21:40	*Myotis lucifugus*	m	6.4	35	adult	nr	18916		
7/26/2010	16	21:40	*Myotis lucifugus*	f	6	34	juv	nr	18917		
7/26/2010	16	21:40	*Myotis lucifugus*	f	7	35	adult	pl	18918		
7/26/2010	16	22:00	*Myotis lucifugus*	m	7	37	adult	nr	18920		
7/26/2010	16	22:00	*Myotis lucifugus*	m	6.7	36	juv	nr	18921		
7/26/2010	16	21:10	*Myotis lucifugus*	f	5.7	36	juv	nr	18922		
7/26/2010	16	22:10	*Myotis lucifugus*	m	4.7	35	juv	nr	18923		
7/26/2010	16	22:20	*Myotis lucifugus*	f	6.9	36	juv	nr	18924		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/26/2010	16	22:40	*Myotis lucifugus*	m	7.2	37	juv	nr	18925		
7/26/2010	16	22:40	*Eptesicus fuscus*	f	22.7	47	adult	pl	21747		
7/26/2010	16	22:40	*Myotis lucifugus*	f	8.8	35	adult	pl	18926		
7/26/2010	16	23:00	*Myotis lucifugus*	f	7.5	37	juv	nr	18927		
7/26/2010	16	23:25	*Myotis lucifugus*	f	7.5	37	juv	nr	18928		
7/26/2010	16	23:25	*Myotis lucifugus*	m	7.3	38	juv	nr	18929		
7/26/2010	16	23:40	*Myotis lucifugus*	f	8.2	37	juv	nr	18930		
7/26/2010	16	23:40	*Myotis lucifugus*	f	8	37	adult	pl	18931		
7/26/2010	16	0:00	*Myotis lucifugus*	f	8.3	36	adult	pl	18932		
7/28/2010	10	21:25	*Myotis lucifugus*	f	7	36	adult	pl	18933		
7/28/2010	10	21:25	*Myotis lucifugus*	m		36	juv	nr	18934		
7/28/2010	10	21:25	*Myotis lucifugus*	f	8.9	38	juv	nr	18935		
7/28/2010	10	21:30	*Myotis lucifugus*	m	9.3	36	adult	u	18936		
7/28/2010	10	21:30	*Myotis septentrionalis*	m	6	37	juv	nr	18937		
7/28/2010	10	21:45	*Eptesicus fuscus*	f	19.4	46	adult	pl	21749		
7/28/2010	10	21:45	*Eptesicus fuscus*	f	23.5	47	adult	pl	21748		
7/28/2010	10	22:00	*Lasiurus cinereus*	m	18.5	49	juv	nr	21750		
7/28/2010	10	22:00	*myotis*		7.3	36					
7/28/2010	10	22:00	*Myotis sodalis*	f	8.3	38	adult	pl	18938		
7/28/2010	10	22:20	*Eptesicus fuscus*	f	20.6	47	adult	pl	21751		
7/28/2010	10	22:50	*Eptesicus fuscus*	f	20.5	47	adult	nr	21752		
7/28/2010	10	23:10	*Eptesicus fuscus*	f	24.7	47	adult	pl	21753		
7/28/2010	10	23:25	*Myotis lucifugus*	f	8.4	36	adult	pl	18939		
7/28/2010	10	23:25	*Myotis lucifugus*	m	7.2	36	juv	nr	18940		
7/28/2010	10	23:45	*Eptesicus fuscus*	f	25.3	48	adult	pl	21754		
7/28/2010	10	23:55	*Myotis septentrionalis*								y
7/29/2010	4	21:15	*Eptesicus fuscus*	m	17.6	46	adult	nr	21755		
7/29/2010	4	21:15	*Myotis lucifugus*	f	7.4	38	juv	nr	18942		
7/29/2010	4	21:20	*Eptesicus fuscus*	m	14.2	44	juv	nr	21756		
7/29/2010	4	21:30	*Myotis lucifugus*	f	7.1	36	juv	nr	18941		
7/29/2010	4	21:30	*Myotis septentrionalis*	m	6.3	34	juv	nr	18943		
7/29/2010	4	21:45	*Myotis septentrionalis*	f	5.7	34	juv	nr	18944		
7/29/2010	4	21:45	*Myotis septentrionalis*	f	6.5	36	adult	pl	15289	y	

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
7/29/2010	4	21:45	*Myotis lucifugus*	f	8	36	juv	nr	18945		
7/29/2010	4	21:55	*Eptesicus fuscus*	m	14	42	juv	nr	21757		
7/29/2010	4	22:25	*Eptesicus fuscus*	f	21.5	46	juv	nr	21758		
7/29/2010	4	22:25	*Myotis lucifugus*	f	7.4	38	juv	nr	18946		
7/29/2010	4	22:45	*Eptesicus fuscus*	f	23.6	47	adult	pl	21711	y	
7/29/2010	4	22:45	*Eptesicus fuscus*	f	22.4	47	juv	nr	21759		
7/29/2010	4	23:00	*Myotis septentrionalis*	m	6.2	35	juv	nr	18947		
7/29/2010	4	23:45	*Myotis lucifugus*	f	8.2	37	juv	nr	18948		
7/29/2010	4	23:55	*Myotis septentrionalis*	m	6	35	juv	nr	18949		
8/4/2010	20	21:00	*Eptesicus fuscus*	m	16	47	juv	nr	21760		
8/4/2010	20	21:55	*Myotis sodalis*	m	6.2	37	juv	nr	18952		
8/4/2010	20	21:55	*Myotis septentrionalis*	m	5.6	32	juv	nr	18950		
8/4/2010	20	21:55	*Myotis sodalis*	f	6.8	37	juv	nr	18951		
8/4/2010	20	22:20	*Eptesicus fuscus*								
8/4/2010	20	22:20	*Eptesicus fuscus*								
8/6/2010	17	21:05	*Nycticeius humeralis*	f	10	36	juv	nr	18953		
8/6/2010	17	21:25	*Myotis sodalis*	f	6.7	38	juv	nr	18954		
8/6/2010	17	21:50	*Myotis lucifugus*	m	9.1	37	adult	nr	18705	y	
8/6/2010	17	21:50	*Nycticeius humeralis*	f	11.7	37	juv	nr	18959		
8/6/2010	17	21:50	*Myotis lucifugus*	m	6.5	37	adult	nr	18955		
8/6/2010	17	21:50	*Myotis lucifugus*	m	9	35	juv	nr	18956		
8/6/2010	17	21:50	*Myotis septentrionalis*	f	7.2	37	juv	nr	18957		
8/6/2010	17	21:50	*Myotis lucifugus*	f	7.4	36	adult	pl	18958		
8/6/2010	17	21:50	*Myotis lucifugus*	f	7.2	37	adult	pl	18960		
8/6/2010	17	21:50	*Myotis lucifugus*	f	7.7	36	adult	pl	18961		
8/6/2010	17	22:05	*Eptesicus fuscus*	f	16.2	46	juv	nr	21761		
8/6/2010	17	22:05	*Myotis septentrionalis*	f	6	34	juv	nr	18962		
8/6/2010	17	22:05	*Myotis lucifugus*	m	6.4	37	juv	nr	18963		
8/6/2010	17	22:30	*Eptesicus fuscus*	f	18.4	46	adult	pl	21762		
8/6/2010	17	22:30	*Myotis septentrionalis*	m	5.3	34	juv	nr	18964		
8/6/2010	17	22:30	*Nycticeius humeralis*	f	12.2	38	adult	pl	18965		
8/6/2010	17	22:45	*Eptesicus fuscus*	f	17	49	adult	pl	21763		
8/6/2010	17	22:55	*Perimyotis subflavus*	f	7.1	35	juv	nr	18966		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/6/2010	17	23:20	*Lasiurus borealis*	m	8.9	38	juv	nr	21764		
8/6/2010	17	23:20	*Myotis lucifugus*	m	6.8	37	adult	nr	18967		
8/6/2010	17	23:20	*Myotis lucifugus*	m	7.3	37	juv	nr	18968		
8/6/2010	17	23:50	*Myotis lucifugus*	f	7.2	36	juv	nr	18969		
8/6/2010	17	0:00	*Eptesicus fuscus*	f	21.5	45	adult	pl	21765		
8/6/2010	17	0:30	*Myotis lucifugus*	m	6.8	38	juv	nr	18970		
8/6/2010	17	0:35	*Eptesicus fuscus*	f	17	47	juv	nr	21766		
8/6/2010	17	0:50	*Lasiurus borealis*	f	11.6	41	juv	nr	21767		
8/6/2010	17	0:50	*Myotis sodalis*	m	6.6	39	juv	nr	18971		
8/18/2010	14	20:35	*Perimyotis subflavus*	m	5.6	32	adult	d	18972		
8/18/2010	14	20:45	*Myotis lucifugus*	f	6.2	38	juv	nr	18973		
8/18/2010	14	21:00	*Lasiurus borealis*								y
8/18/2010	14	21:00	*Eptesicus fuscus*	f	17.3	47	adult	u	21768		
8/18/2010	14	21:00	*Eptesicus fuscus*	f	16.3	45	juv	nr	21769		
8/18/2010	14	21:00	*Myotis lucifugus*	f	8.8	37	adult	pl	18974		
8/18/2010	14	21:00	*Myotis lucifugus*	f	7.6	37	juv	nr	18975		
8/18/2010	14	21:00	*Myotis lucifugus*	f	6.3	37	juv	nr	18976		
8/18/2010	14	21:00	*Myotis lucifugus*	f	7.3	37	juv	nr	18977		
8/18/2010	14	21:00	*Myotis lucifugus*	f	8	37	juv	nr	18978		
8/18/2010	14	21:00	*Myotis lucifugus*	m	7.2	36	juv	nr	18979		
8/18/2010	14	21:00	*Myotis lucifugus*	f	7.2	37	juv	nr	18980		
8/18/2010	14	21:00	*Myotis lucifugus*	f	6.3	37	juv	nr	18981		
8/18/2010	14	21:00	*Myotis lucifugus*	f	6.6	37	juv	nr	18982		
8/18/2010	14	21:00	*Myotis lucifugus*	f	6.5	36	juv	nr	18983		
8/18/2010	14	21:00	*Myotis lucifugus*	f	8.4	38	adult	pl	18984		
8/18/2010	14	21:20	*Myotis lucifugus*	m	7.5	37	juv	nr	18985		
8/18/2010	14	21:25	*Myotis lucifugus*	f	7.2	37	juv	nr	18986		
8/18/2010	14	21:29	*Myotis lucifugus*	f	9	37	juv	nr	18987		
8/18/2010	14	21:30	*Eptesicus fuscus*	m	16.9	47	juv	nr	21770		
8/18/2010	14	21:35	*Myotis lucifugus*	f	8.2	37	juv	nr	18988		
8/18/2010	14	21:35	*Myotis lucifugus*	f	7.4	37	adult	pl	18989		
8/18/2010	14	21:36	*Myotis lucifugus*	f	8.2	37	adult	pl	18990		
8/18/2010	14	21:45	*Lasiurus borealis*	m	8.6	39	juv	nr			

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/18/2010	14	21:50	*Myotis lucifugus*	f	8.7	37	adult	pl	18991		
8/18/2010	14	22:00	*Myotis lucifugus*	m	7.7	37	juv	nr	18992		
8/18/2010	14	22:10	*Myotis lucifugus*	f	10	36	adult	pl	18993		
8/18/2010	14	22:25	*Eptesicus fuscus*	m	19.3	45	adult	d	21771		
8/18/2010	14	22:25	*Lasiurus borealis*	f	11.3	42	juv	nr	21772		
8/18/2010	14	22:45	*Myotis lucifugus*	f	11	37	adult	pl	18994		
8/18/2010	14	22:50	*Perimyotis subflavus*	f	9	33	adult	u	18997		
8/18/2010	14	22:50	*Lasiurus borealis*	f	12.3	42	adult	pl	21773		
8/18/2010	14	22:50	*Eptesicus fuscus*	f	19.7	42	juv	nr	21774		
8/18/2010	14	23:00	*Lasiurus borealis*	f	14	41	adult	pl	21775		
8/18/2010	14	23:01	*Myotis lucifugus*	m	7.3	36	juv	nr	18995		
8/18/2010	14	23:01	*Myotis lucifugus*	f	8.4	38	juv	nr	18996		
8/18/2010	14	23:05	*Myotis lucifugus*	f	10.8	36	adult	pl	15315	y	
8/18/2010	14	23:15	*Lasiurus borealis*	f	12.5	39	juv	nr	21776		
8/18/2010	14	23:40	*Myotis lucifugus*	f	8.3	36	juv	nr	18998		
8/18/2010	14	0:15	*Myotis lucifugus*	f	10.5	36	juv	nr	19000		
8/18/2010	14	0:15	*Myotis lucifugus*	f	8.4	37	juv	nr	18999		
8/18/2010	14	0:30	*Myotis lucifugus*	f	7.1	38	juv	nr	19001		
8/18/2010	14	0:35	*Myotis septentrionalis*	f	5.5	34	juv	nr	19002		
8/18/2010	14	0:45	*Myotis septentrionalis*	f	6.2	37	juv	nr	19003		
8/18/2010	14	0:50	*Lasiurus borealis*	m	10	37	juv	nr	21777		
8/18/2010	14	0:50	*Lasiurus borealis*	m	9.2	39	juv	nr	21778		
8/18/2010	14	1:00	*Myotis sodalis*	f	6.8	39	juv	nr	19005		
8/18/2010	14	1:00	*Myotis lucifugus*	f	7.8	37	juv	nr	19004		
8/18/2010	14	1:00	*Lasiurus borealis*	f	12.8	40	juv	nr	21779		
8/18/2010	14	1:00	*Myotis lucifugus*	f	6.6	37	juv	nr	19006		
8/19/2010	18	20:30	*Perimyotis subflavus*	m	5.1	35	juv	nr	19007		
8/19/2010	18	20:35	*Perimyotis subflavus*	f	7.8	36	juv	nr	19008		
8/19/2010	18	21:00	*Perimyotis subflavus*	f	6.2	35	adult	pl	15548	y	
8/19/2010	18	21:00	*Myotis lucifugus*	f	8.3	36	juv	nr	19009		
8/19/2010	18	21:00	*Myotis lucifugus*	f	7.6	38	juv	nr	19011		
8/19/2010	18	21:05	*Myotis lucifugus*	m	7.4	38	juv	nr	19010		
8/19/2010	18	21:15	*Eptesicus fuscus*	f	17.7	47	juv	nr	21780		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/19/2010	18	21:30	*Eptesicus fuscus*	f	21	47	adult	u	21706	y	
8/19/2010	18	21:35	*Lasiurus borealis*	m	10.4	40	adult	u	21781		
8/19/2010	18	21:35	*Lasiurus borealis*	m	10.5	38	adult	d	21782		
8/19/2010	18	21:35	*Lasiurus borealis*	f	12	40	juv	nr	21783		
8/19/2010	18	21:40	*Myotis lucifugus*	m	6.8	37	juv	nr	19012		
8/19/2010	18	21:40	*Lasiurus borealis*	f	11.2	37	juv	nr	21784		
8/19/2010	18	21:50	*Myotis lucifugus*	m	7.6	37	juv	nr	19013		
8/19/2010	18	21:50	*Eptesicus fuscus*	f	16.6	45	juv	nr	21785		
8/19/2010	18	21:50	*Myotis lucifugus*	f	8.8	38	adult	pl	19014		
8/19/2010	18	21:50	*Lasiurus borealis*								y
8/19/2010	18	22:05	*Lasiurus borealis*	f	9.5	39	adult	u	21786		
8/19/2010	18	22:05	*Lasiurus borealis*	m	9.5	39	adult	d	21787		
8/19/2010	18	22:20	*Lasiurus borealis*	f	13.8	40	juv	nr	21788		
8/19/2010	18	22:25	*Myotis lucifugus*	f	7.8	36	juv	nr	19015		
8/19/2010	18	22:25	*Nycticeius humeralis*	f	11.6	38	juv	nr	18959	y	
8/19/2010	18	23:50	*Lasiurus borealis*	m	10.2	35	adult	d	21789		
8/19/2010	18	0:00	*Myotis lucifugus*	m	7.7	37	juv	nr	19016		
8/19/2010	18	0:05	*Lasiurus borealis*								y
8/19/2010	18	0:05	*Nycticeius humeralis*	f	10.3	37	juv	nr	19017		
8/19/2010	18	0:30	*Nycticeius humeralis*	f	11.8	36	juv	nr	18953	y	
8/19/2010	18	0:50	*Lasiurus borealis*	f	11.4	41	adult	u	21790		
8/19/2010	18	0:50	*Lasiurus borealis*								y
8/24/2010	1	20:35	*Myotis lucifugus*	f	7.3	37	juv	nr	19018		
8/24/2010	1	20:40	*Myotis lucifugus*	f	7.4	37	juv	nr	19019		
8/24/2010	1	20:45	*Eptesicus fuscus*	f	15.7	47	juv	nr	21791		
8/25/2010	20	20:50	*Myotis lucifugus*	f	9.9	38	adult	pl	19020		
8/25/2010	20	21:45	*Eptesicus fuscus*	f	21.8	47	adult	u	21792		
8/25/2010	20	23:30	*Eptesicus fuscus*	f	25	46	adult	pl	21620	y	
8/25/2010	20	0:00	*Lasiurus cinereus*	f	26.5	56	juv	nr	21793		
8/25/2010	20	0:40	*Lasiurus borealis*	m	9.6	37	juv	d	21794		
8/25/2010	20	1:00	*Eptesicus fuscus*	m			juv				
8/30/2010	2	20:25	*Lasiurus borealis*	m	7.3	36	juv	nr	21795		
8/30/2010	2	20:35	*Lasiurus borealis*	m	10.8	39	adult	d	21796		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
8/30/2010	2	21:25	*Myotis lucifugus*	f	7.1	36	juv	nr	19021		
8/30/2010	2	21:30	*Myotis lucifugus*	m	7	35	juv	nr	19022		
8/30/2010	2	21:55	*Eptesicus fuscus*	m	18.6	44	adult	d	21797		
8/30/2010	2	23:00	*Myotis lucifugus*	f	10.3	38	adult	u	19023		
8/30/2010	2	23:35	*Myotis lucifugus*	f	10.2	37	adult	u	19024		
8/31/2010	21	20:35	*Lasiurus borealis*	f	13.7	39	juv	nr	21798		
8/31/2010	21	20:35	*Lasiurus borealis*	m	9	39	juv	d			
8/31/2010	21	20:50	*Myotis lucifugus*	f	6.3	37	juv	nr	19025		
8/31/2010	21	20:50	*Myotis lucifugus*	f	7.2	37	juv	nr	19026		
8/31/2010	21	20:50	*Myotis lucifugus*	f	7.1	35	adult	u	18712	y	
8/31/2010	21	21:00	*Lasiurus borealis*	f	12.4	41	juv	nr	21799		
8/31/2010	21	21:00	*Lasiurus borealis*	f	10.8	39	juv	nr	21800		
8/31/2010	21	21:50	*Eptesicus fuscus*	f	21.6	45	adult	u			
8/31/2010	21	21:15	*Eptesicus fuscus*	m	16.4	40	adult	d	21725	y	
8/31/2010	21	21:15	*Myotis lucifugus*	f	9.2	37	adult	u	19027		
8/31/2010	21	23:30	*Lasiurus borealis*	f	10.2	44	juv	nr			
9/1/2010	17	20:55	*Lasiurus borealis*	m	8.8	38	juv	d			
9/1/2010	17	21:15	*Myotis lucifugus*	m	10.4	38	adult	d	19028		
9/1/2010	17	22:00	*Perimyotis subflavus*	f	8.5	34	adult	pl	19029		
9/1/2010	17	22:25	*Myotis septentrionalis*	f	6.2	36	juv	nr	19030		
9/1/2010	17	22:25	*Myotis septentrionalis*	f	7.8	37	adult	pl	19031		
9/1/2010	17	23:00	*Eptesicus fuscus*	m	19.5	47	adult	d			
9/1/2010	17	0:00	*Eptesicus fuscus*	m	21.1	45	adult	nr			
9/1/2010	17	0:00	*Eptesicus fuscus*	f	18	42	adult	pl			
9/3/2010	15	20:27	*Lasiurus borealis*	f	13.8	39	adult	u			
9/3/2010	15	20:30	*Myotis lucifugus*	f	8	39			19032		
9/3/2010	15	20:40	*Myotis lucifugus*	f	8.2	38	adult	pl	19033		
9/3/2010	15	20:40	*Myotis lucifugus*	m	7.6	37	adult	d	19034		
9/3/2010	15	20:40	*Myotis lucifugus*	f	7.5	36	juv	nr	19035		
9/3/2010	15	20:40	*Myotis lucifugus*	f	7.3	36	juv	nr	19036		
9/3/2010	15	20:40	*Myotis lucifugus*	m	9.6	37	adult	d	19037		
9/3/2010	15	20:50	*Lasiurus borealis*	f	16.2	42	adult	u			
9/3/2010	15	20:40	*Myotis lucifugus*	f	10.3	37	adult	pl	19038		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
9/3/2010	15	20:40	*Myotis lucifugus*	m	6.8	35	juv	nr	19039		
9/3/2010	15	20:40	*Myotis lucifugus*	f	9	36	adult	pl	19040		
9/3/2010	15	20:40	*Myotis lucifugus*	f	8.9	37	juv	nr	19041		
9/3/2010	15	20:40	*Myotis lucifugus*	f	7.6	37	adult	u	19042		
9/3/2010	15	20:40	*Myotis lucifugus*	f	9.6	36	juv	nr	19043		
9/3/2010	15	20:40	*Myotis lucifugus*	f	7.2	37	juv	nr	19044		
9/3/2010	15	20:50	*Myotis lucifugus*	f	6.4	36	juv	nr	19045		
9/3/2010	15	20:50	*Myotis lucifugus*	f	9.6	35	juv	nr			
9/3/2010	15	20:50	*Myotis lucifugus*	f	8	37	adult	u	19046		
9/3/2010	15	20:50	*Myotis lucifugus*	f	7	35	juv	nr	19047		
9/3/2010	15	20:50	*Myotis lucifugus*	f	8.9	37	juv	nr	19048		
9/3/2010	15	20:50	*Myotis lucifugus*	f	9.9	38	adult	u	19049		
9/3/2010	15	20:50	*Myotis lucifugus*	f	11.6	38	adult	pl	19050		
9/3/2010	15	20:50	*Myotis lucifugus*	m	6.9	36	adult	d	19051		
9/3/2010	15	20:50	*Myotis lucifugus*	f	9.3	37	adult	pl	19052		
9/3/2010	15	21:25	*Myotis lucifugus*	f	10.8	39	adult	pl	15437	y	
9/3/2010	15	21:40	*Myotis lucifugus*	f	8.5	37	adult	u	19053		
9/3/2010	15	22:10	*Myotis lucifugus*	f	10.2	37	adult	pl	19054		
9/3/2010	15	22:30	*Eptesicus fuscus*	f	25	46	adult	pl			
9/3/2010	15	23:25	*Eptesicus fuscus*	f	27.5	48	adult	u			
9/3/2010	15	23:25	*Myotis lucifugus*	m	8.2	36	juv	nr	19055		
9/3/2010	15	23:35	*Myotis lucifugus*	f	11.2	36	juv	nr	19056		
9/3/2010	15	0:00	*Lasiurus borealis*	m	9.6	40	juv	d			
9/8/2010	4	20:50	*Myotis septentrionalis*	m	6.3	34	juv	nr	19057		
9/8/2010	4	21:10	*Myotis septentrionalis*	f	7.1	36	adult	pl	18700	y	
9/8/2010	4	22:00	*Myotis septentrionalis*	f	8.2	35	juv	nr	19058		
9/8/2010	4	23:20	*Myotis lucifugus*	f	9.4	37	juv	nr	19059		
9/8/2010	4	0:00	*Lasionycteris noctivagans*	f	14.7	40	adult	pl	19060		
9/9/2010	9	20:20	*Myotis lucifugus*	f	7.6	36	juv	nr	19061		
9/9/2010	9	20:20	*Myotis lucifugus*	f	7.2	38	juv	nr	19062		
9/9/2010	9	20:20	*Myotis lucifugus*	f	7.8	39	adult	pl	19063		
9/9/2010	9	20:20	*Myotis lucifugus*	f	8.9	35	juv	nr	19064		
9/9/2010	9	20:20	*Myotis lucifugus*	m	7.4	38	adult	d	19065		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
9/9/2010	9	20:20	*Myotis lucifugus*	f	10.4	38	adult	pl	19066		
9/9/2010	9	20:20	*Myotis lucifugus*	m	6.2	34	juv	nr	19067		
9/9/2010	9	20:20	*Myotis lucifugus*	m	6.4	36	juv	nr	19068		
9/9/2010	9	20:20	*Myotis lucifugus*	m	6.3	37	juv	nr	19069		
9/9/2010	9	20:20	*Myotis lucifugus*	f	6.6	39	juv	nr	19070		
9/9/2010	9	20:20	*Myotis lucifugus*	f	6.8	38	juv	nr	19071		
9/9/2010	9	20:20	*Myotis lucifugus*	f	7.8	39	adult	pl	19072		
9/9/2010	9	20:20	*Myotis lucifugus*	f	10.6	37	adult	pl			
9/9/2010	9	20:20	*Myotis lucifugus*	f	6.5	36	adult	u	19074		
9/9/2010	9	20:20	*Myotis lucifugus*	f	10.6	36	juv	nr	19075		
9/9/2010	9	20:20	*Myotis lucifugus*	f	7.2	36	juv	nr	19076		
9/9/2010	9	20:20	*Myotis lucifugus*	f	9.5	36	juv	nr	19077		
9/9/2010	9	20:20	*Myotis lucifugus*	f	9.4	37	adult	pl	19078		
9/9/2010	9	20:20	*Perimyotis subflavus*	f	6.6	33	juv	nr	19079		
9/9/2010	9	20:20	*Myotis lucifugus*	f	7	38	adult	u	19080		
9/9/2010	9	20:20	*Myotis lucifugus*	f	9	36	adult	u	19081		
9/9/2010	9	21:00	*Myotis lucifugus*	f	10.5	37	adult	pl	19082		
9/9/2010	9	21:10	*Myotis lucifugus*	m	7.2	37	adult	d	19073		
9/9/2010	9	21:20	*Myotis lucifugus*	f	11.7	37	adult	pl	19083		
9/9/2010	9	21:35	*Myotis lucifugus*	f	10.3	37	adult	u	19084		
9/9/2010	9	22:05	*Eptesicus fuscus*	m	24.5	46	adult	d			
9/9/2010	9	22:05	*Nycticeius humeralis*	m	11.7	36	adult	d	19086		
9/9/2010	9	22:05	*Myotis lucifugus*	m	8.2	35	juv	nr	19085		
9/9/2010	9	22:05	*Myotis lucifugus*	f	9.8	34	juv	nr	19087		
9/9/2010	9	22:20	*Myotis lucifugus*	f	8	36	juv	nr	19088		
9/9/2010	9	22:20	*Myotis lucifugus*	f	11.6	38	juv	nr	19089		
9/9/2010	9	22:20	*Lasiurus cinereus*	m	24.3	51	adult	d			
9/9/2010	9	22:20	*Lasionycteris noctivagans*	m	11.8	40	juv	nr	19090		
9/9/2010	9	22:45	*Myotis lucifugus*	f	9.2	35	adult	pl	19091		
9/9/2010	9	23:00	*Myotis lucifugus*	f	10.9	40	adult	u	19092		
9/9/2010	9	23:20	*Myotis lucifugus*	f	9.2	38	adult	u	19093		
9/9/2010	9	23:20	*Myotis lucifugus*	f	9.5	35	adult	pl	19094		
9/9/2010	9	23:20	*Myotis lucifugus*	f	9.9	38	adult	u	19095		

Date	Site #	Capture Time	Species	Sex	Weight (g)	Forearm Length (mm)	Age	Repro Condition	Band # (ODNR)	Recap	Net Escape:
9/9/2010	9	23:20	*Myotis lucifugus*	f	9.2	37	adult	pl	19096		
9/10/2010	14	20:30	*Myotis lucifugus*	f	8	36	juv	nr			
9/10/2010	14	20:30	*Myotis lucifugus*	f	8.7	37	juv	nr			
9/10/2010	14	20:30	*Myotis lucifugus*	f	6.6	36	juv	nr			
9/10/2010	14	20:30	*Myotis lucifugus*	f	7.7	38	adult	pl			
9/10/2010	14	20:30	*Myotis lucifugus*	f	6.7	36	juv	nr			
9/10/2010	14	21:00	*Myotis lucifugus*	f	10.1	38	adult	pl			
9/10/2010	14	21:00	*Myotis lucifugus*	f	8.9	36	juv	nr			
9/10/2010	14	21:10	*Myotis lucifugus*	f	12.1	39	adult	u			
9/10/2010	14	21:15	*Myotis lucifugus*	m	7.8	37	juv	nr			
9/10/2010	14	21:30	*Myotis lucifugus*	f	8.3	37	adult	u	19053	y	
9/10/2010	14	21:30	*Myotis lucifugus*	f	9.6	38	adult	u	19041	y	
9/10/2010	14	21:30	*Myotis lucifugus*	f	6.5	36	juv	nr			
9/10/2010	14	21:30	*Myotis lucifugus*	m	8.5	37	adult	d			
9/10/2010	14	21:55	*Myotis lucifugus*	m	8	35	juv	nr			
9/10/2010	14	21:55	*Myotis lucifugus*	f	9.3	37	adult	u			
9/10/2010	14	22:15	*Myotis lucifugus*	f	9.5	37	adult	pl	19097		
9/10/2010	14	22:50	*Myotis lucifugus*	f	9.8	36	adult	u			
9/10/2010	14	0:00	*Myotis lucifugus*	f	10	37	adult	pl	19098		
9/10/2010	14	0:00	*Lasiurus borealis*	m	10.5	40	juv	nr			
9/10/2010	14	0:00	*Myotis lucifugus*	f	9.8	35	adult	u	19099		
9/10/2010	14	0:00	*Myotis lucifugus*	f	6.7	37	juv	nr			

Roost Tree #6

Roost Tree #7

Roost Tree #11

Roost Tree #28

Appendix 9. Pictures of select roost trees. Tree numbers follow the text.