

Small Mammal Studies
at
Steele Creek Park
Bristol Tennessee
Sullivan County

Presented to the Faculty
Tennessee High School

In Partial Fulfillment
of the Requirements for the
Youth Apprenticeship Program

by
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Introduction

The main objective of this study was to contribute to the knowledge of the small mammals in Steele Creek Park, Bristol Tennessee: Sullivan County. In 1972, Brent Rowell did a study of small mammals of Steele Creek and no other work has been done in the park since. This study was to see how the population of small mammals had changed in 25 years, and to see if there are any new species living in the park that were not found in 1972.

With the current status of the Smoky Shrew, the information on its number is important to this animal and its habitat. Also, due to the current status of other species that could live in the park, information of their existence will be beneficial. This study is also to see if the changes in the landscapes over the past 25 years has affected the population of different species of small mammals in Steele Creek Park.

This study was done for the city of Bristol and for Tennessee High School as part of the Youth Apprenticeship Pilot Program.

Literature Review

The only study done on small mammals in Steele Creek Park was the Natural History Inventory, by Brent Rowell (1972). This study was done for one week in the summer to see what species and how many small mammals lived in the park. Brent Rowell found five species of small mammals living in the park in 1972. He used 100 live traps and trapped 39 small mammals during his study.

Another book that offered information to this study was The Mammals of North America (Hall & Kelson). It gives information on species that could live in Steele Creek. It also gives detailed descriptions on possible habitats and how to actually trap small mammals.

One type of species that was found in Steele Creek Park in 1972 was the **White-footed Mouse**, *Peromyscus leucopus*. It is grayish to dull orange-brown above; white below. The tail is similarly bicolored, nearly one-half its total length. (National Audubon Society Field Guide to North American Mammals). White-footed mice are most active at night during all seasons. Preferred habitat consists of brushy areas and mixed or hardwood upland forests. These mice are usually found in and around stone walls, fallen logs, and buildings. The sense of touch, hearing, sight, and smell are well developed in White-footed mice. They are good climbers. (Mammals of Great Smoky Mountains National Park, Linzey).

Another small mammal found in the park in 1972 was the **Short-tailed Shrew**, *Blarina brevicauda*. It is the largest shrew in North America with its color being lead above and below. It has a short tail, no external ears, and eyes so small they are barely apparent. (Peterson Field Guides to Mammals, Burt/ Grossenheider). The Short-tailed shrew can be found in almost all kinds of habitats at all elevations. Moist woodland bordering swamps and streams with some leaf litter and low herbaceous vegetation seems to be preferred. These shrews are active mainly at night. They have poor eyesight, but a highly developed sense of smell and touch. The Short-tailed shrew is the only poisonous mammal in North America. It bites its victim in the throat and face, paralyzing it almost instantly with a poison in its saliva. Immobilized insects remain alive for three to five days and provide a source of non-decomposing food. (Mammals of Great Smoky Mountains National Park, Linzey). The Short-tailed shrew is often confused with the Southern Short-tailed shrew. The two specimens look almost identical, but they differ in chromosome number. After receiving a letter from Dr. Michael Kennedy, University of Memphis, the Southern Short-tailed shrew will not be found in Steele Creek Park.

The **Smoky Shrew**, *Sorex fumeus*, was also found in the park in the past. It is a medium sized, uniformly dull brown Shrew. During the winter, the coat of the Smoky Shrew is usually a uniform gray. The bicolored tail is brownish above and yellowish

below. These shrews are most abundant in cool, damp woodlands with a deep layer of leaf mold on the ground. Streamsides, both in evergreen and deciduous forests are a favored habitat. (Mammals of Great Smoky Mountains National Park, Linzey). Small invertebrates, such as insects and their larvae, earthworms, sow bugs, and centipedes form its diet. (National Audubon Society Field Guide to North American Mammals). The Smoky Shrew's maximum life-span is about 18 months, but few survive longer than 6 months. (Handbook of Mammals of the South-Central States; Choate, Jones, and Jones). The specimen I trapped was not confirmed as a Smoky Shrew until an interview with Dr. Jerry Nagle (E.T.S.U.), where he properly identified it.

The **Masked Shrew**, *Sorex cinereus*, was not previously known to exist in the park, but it was found in this study. Its color ranges from dark brown to brownish gray on the back with pale gray underparts. The tail is relatively long and is indistinctly bicolored. They are found among rocks and logs in moist woods. (Mammals of Great Smoky Mountains National Park, Linzey). The Masked Shrew's appetite is particularly large; its daily consumption often equals or exceeds its own weight. This small secretive shrew is primarily nocturnal and rarely seen. It makes a nest of leaves or grass under a log, in a stump, or a clump of vegetation. (National Audubon Society Field Guide to North American Mammals).

The **Southeastern Shrew**, *Sorex longirostris*, has never been found in Steele Creek Park, but it was collected during this study. It is reddish brown above and grayish below. It is slightly smaller and more reddish than the Masked Shrew. This species has been reported in a variety of habitats, ranging from bogs and marshes to upland grassy areas and forest. Nests consisting of dried leaves have been found in or under rotting logs and beneath debris. (Handbook of Mammals of the South-Central States; Choate, Jones, and Jones). Little is known of the Southeastern's habits, although they are thought to be similar to those of the Masked Shrew. It eats spiders, moth larvae, slugs and snails, centipedes, and vegetation. One of the first two Southeastern Shrew specimens ever recorded was retrieved from the gullet of a hooded merganser, a duck which preys on a wide variety of small aquatic life, and has been found in Steele Creek Park. (National Audubon Society Field Guide to North American Mammals).

The **Eastern Chipmunk**, *Tamias striatus*, was often seen while hiking to different sites throughout the park. It was never trapped in 1972, but one specimen was collected during this study. It is reddish-brown above; belly white. There is a dark center stripe down its back with light facial stripes above and below eyes. The tail is brown on its tip, edged with black. (National Audubon Society Field Guide to North American Mammals). Chipmunks prefer deciduous hardwood forests, especially rocky areas, the edges of grass balds and clearings, and farmlands. They can climb well, but spend most of their time on the ground. Eastern Chipmunks live a solitary existence most of the year, although family groups may sometimes overwinter together. Chipmunks may become inactive during periods of high temperatures in summer and during severe winter weather. Their food consists chiefly of nuts such as acorns, hickory

nuts, beechnuts, and walnuts; small seeds; berries; wild grapes; and a variety of small animal life. (Mammals of Great Smoky Mountains National Park, Linzey).

Description of Study Areas

All of the locations where trapping took place was in Steele Creek Park. Steele Creek Park is located in Bristol, TN; Sullivan County, off of highway 126. The park itself is 2,200 total acres. Slagle Hollow, where most of the trapping took place, is 1,200 acres. Steele Creek Park is 6 miles long, 1 mile wide, and there are 12 miles of boundary. There is also a 54 acre lake located within the park with many small creeks feeding into it. A total of 1,721 trap nights in 24 days in 6 different locations happened during this study.

The first trapping area was located in Slagle Hollow. The trap lines were set along the first creek back in Slagle Hollow, which feeds into Slagle Creek. This site is 300 yards past Jackson's Camp. The elevation in this area was approximately 1,600 feet. This location was in a deciduous and coniferous forest, with the dominate trees being oak, beech, and white pine. There were also many logs and down trees in the area.

The second site was located in Trinkle Hollow, with the elevation being 1,850 feet. The trap lines were set 10 yards off of the main trail along a thick stand of honeysuckle. A small spring ran through the underbrush, creating a very moist habitat. The landscape was fairly rocky.

The third site was around part of the lake known as deep cove. The trap lines were set 200 yards off of the trail, along a medium sized creek. This area was located within a young forest. Honeysuckle and other types of underbrush were the dominant vegetation.

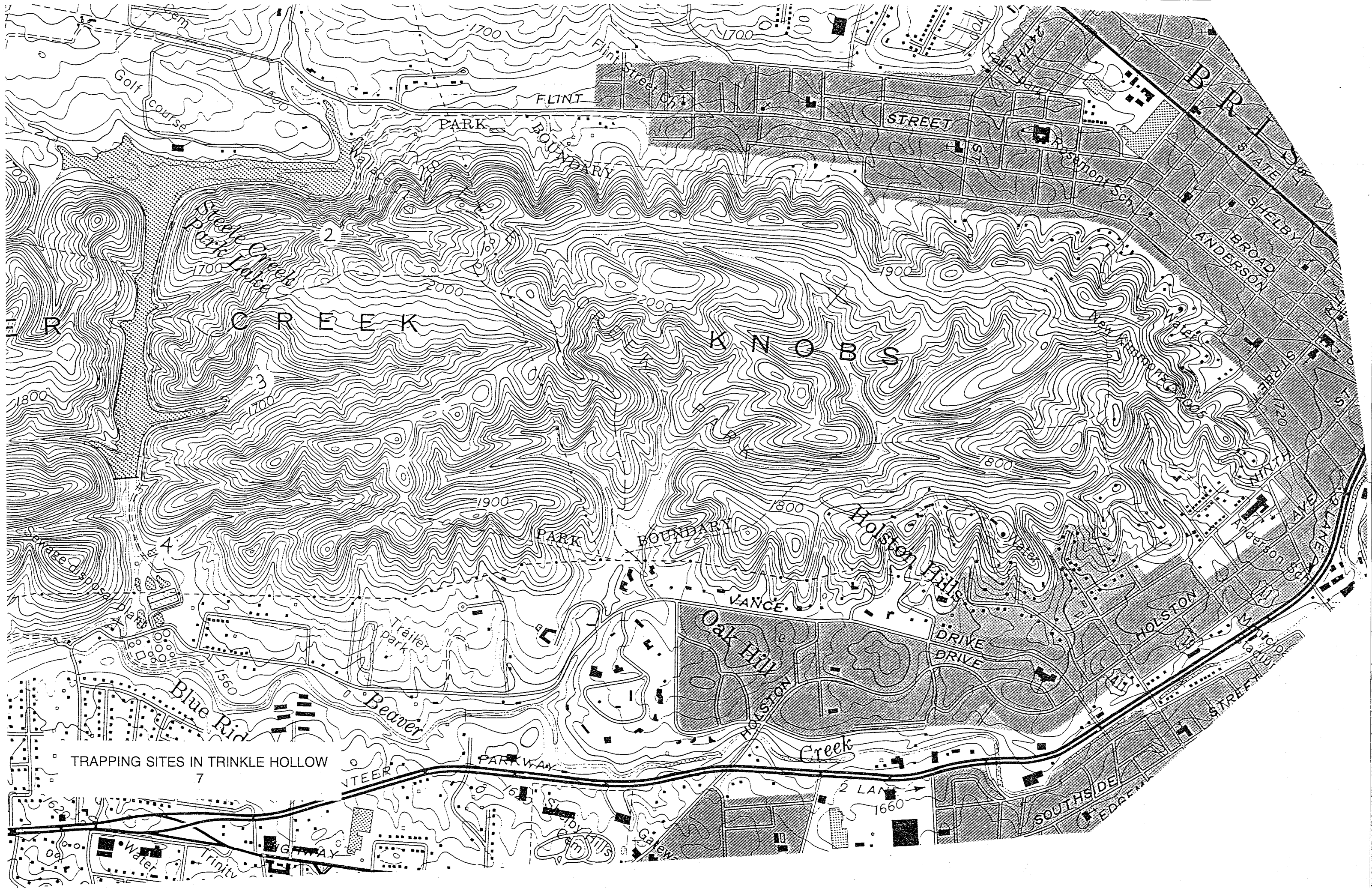
The fourth trapping area was an open field and its surroundings. The field had not been mowed in several years; therefore, the grass was very tall. The surrounding underbrush consisted mainly of thorn bushes. There was also a small creek that ran parallel with the field.

The fifth site was along the second creek back in Slagle Hollow. This small stream also fed into Slagle Creek. Many of the trees in this area were hemlock and white pine. In the middle of this location was a small marshy area. There was also large rock outcroppings on the side of the hill.

The final location was along the third creek back in Slagle Hollow; which ran into Slagle creek. This location was in a deciduous and coniferous forest, with the trees being hemlock, beech, white pine, and oak. This site, as well as site #5 was in an area where the elevation was 1,600 feet. Location #6 also had a great deal of white pine trees that had fallen over, probably as a result of severe weather.



TRAPPING SITES IN SLAGLE HOLLOW
6



TRAPPING SITES IN TRINKLE HOLLOW

7

Methods and Materials

The type of traps used in collecting specimens for this study were Sherman live traps. The purpose of using Sherman live traps was so that the rare specimens and those in need of management trapped would be alive and could be released after properly identified and measured. Approximately 72 Sherman traps were used in this study.

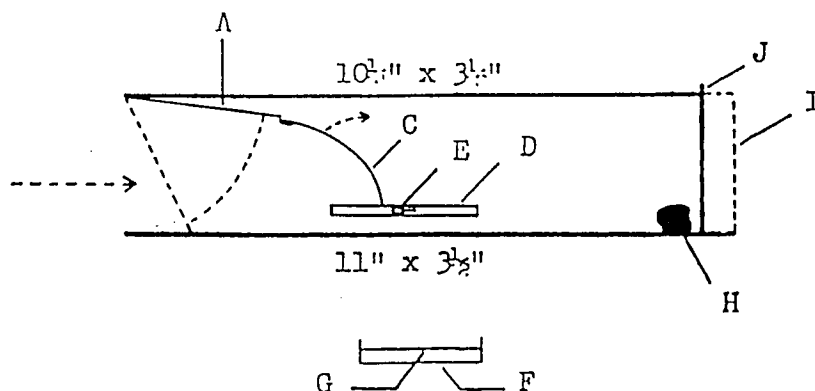
These traps proved to be very reliable, but there were a few drawbacks. The major drawback was that they were too sensitive. Rain often set the traps off, causing the results to be altered. They were so sensitive that on the first trapping night, a Dusky salamander was caught in one of them. Another problem that occurred was that the traps were disturbed by animals such as raccoons. The traps would be found torn apart and moved a few feet from where they were originally set.

The traps were placed in a variety of locations. Many of them were placed under logs, in runways, and by entrance holes. They were also set in thick underbrush, open fields, and around rock outcroppings.

The bait used in all of the traps was a mixture of peanut butter, oatmeal, and anise oil. The oil was used to attract the animals because of its strong odor. The traps were then placed in two large bags and carried to the location.

There were four major steps in setting the traps. The first step was to open the back door of the trap and clean out any debris or old bait. The next step was to test the trap for sensitivity and make adjustments. Many times after catching an animal, the sensitivity of the trap would be thrown off and would have to be fixed before placing it out in the field. Thirdly, the bait was placed on the back door and then closed. The last step was to actually set the trap.

The day after the traps were set, they were checked. Most of the time it took approximately an hour and a half to hike to the location where the traps were. After arriving at the site, the traps were individually checked. If any animals were caught the night before, they would be placed in zip-lock bags. They would then be measured and given a specimen number. The measurements consisted of; total length, length of tail, length of hind foot, and length of ear. The specimens were then released in the area where they were trapped. The animals that were not alive when checked, were placed in zip-lock bags, measured, and placed in a freezer. Some of these specimens were mounted for display while others were used to make study skins. These specimens will be held at the Nature Center at Steele Creek Park indefinitely.



Key to diagram of live (box) trap; A, zinc trap door; B, direction of entry; C, wire trigger soldered to trip pan; D, trip pan; E, horizontal hold through up-turned sides of trip pan with support wire whose ends are bent on the outside of trap; F, end view of trip pan; G, support wire of trip pan; H, bait in rear of trap; I, dotted line showing side walls of trap extending beyond top wall to allow insertion of door in grooves; J, rear door of trap.

Taken from "Small Mammals of Washington and Unicoi Counties, TN (Giles, 1969)

Results

From a total of 1,721 trap nights in 24 days at Steele Creek Park, 64 small mammals were caught. Three different species that were caught during this study are currently on the state list of "in need of management". These species include the Smoky Shrew, Masked Shrew, and the Southeastern Shrew. A major emphasis should be placed on protecting the habitat where these animals are currently living because of their status.

The Smoky Shrew, *Sorex fumeus*, was only collected at site #5. It was trapped under a medium sized log. The log was very close to a marshy area. There was also a thick layer of leaf mold surrounding the log where the specimen was taken. The Smoky Shrew was not alive when collected. There was a strong odor the shrew had when it was taken out of the trap.

1 Smoky Shrew: TL - 101mm, T - 42, HF - 13

The Southeastern Shrews, *Sorex longirostris*, were also collected at one site. This was the last location, site #6. Both of the Southeastern Shrews were collected under logs, by a small creek. They were also found dead. This was not a major problem because all of the shrews collected were not alive. Shrews, in general, are very sensitive and die very easily. There have been reports of shrews dying from loud noises, such as thunder. (Linzey, 1994).

1 Southeastern Shrew: TL - 103mm, T - 37, HF - 12

1 Southeastern Shrew: TL - 101mm, T - 40, HF - 12

Three Masked Shrews, *Sorex cinereus*, were found during this study. The Masked Shrew has never been found at Steele Creek Park until this study. This animal would be especially hard to trap alive because they eat almost their whole body weight in food each night. The three Masked Shrews were all trapped in location #6. They were also found in the exact same site. This site was under many white pine branches that were laying on the ground. The branches still had their needles on them.

1 Masked Shrew: TL - 101mm, T - 39, HF - 13

1 Masked Shrew: TL - 98mm, T - 42, HF - 12

1 Masked Shrew: TL - 105mm, T - 40, HF - 12

The most abundant shrew that was trapped during this study was the Short-tailed Shrew, *Blarina brevicauda*. This shrew was found in three different locations: #1, #4, and #6. The habitat that these animals were caught in ranged from under logs and rocks to thick thorn bushes. One of the Short-tailed Shrews that was trapped on the night of April 28, was a female that was extremely pregnant. The Short-tailed Shrews found at Steele Creek Park are Northern Short-tailed Shrews instead of Southern Short-tailed Shrews. (Dr. Michael Kennedy, University of Memphis).

1 Short-tailed Shrew: TL - 93mm, T - 24, HF - 13

- 1 Short-tailed Shrew: TL - 90mm, T - 20, HF - 12
- 1 Short-tailed Shrew: TL - 88mm, T - 24, HF - 12
- 1 Short-tailed Shrew: TL - 90mm, T - 24, HF - 13
- 1 Short-tailed Shrew: TL - 103mm, T - 25, HF - 14
- 1 Short-tailed Shrew: TL - 103mm, T - 22, HF - 13

Shrews as a rule, seem to be more difficult to trap than most other small mammals, especially White-footed mice. In this study, 51 White-footed mice were caught as opposed to 12 shrews. This could be because White-footed mice are active all year and shrews are not. Trapping for this study began in early March, when the temperature was fairly low. During this time, almost all animals collected were White-footed mice. As the temperature increased, the number of shrews collected also increased.

The most common small mammal found in the park during this study was the White-footed Mouse, *Peromyscus leucopus*. It was found in 5 of the 6 locations, in a wide variety of habitats. These habitats were underbrush, down logs, rocks, and thick leaf mold. These sites were also always around a creek or spring. All of the mice caught were alive, with the exception of a few, and were released after measured. One of the White-footed mice that was caught was very docile, while others were extremely hyper. Another mouse that was caught climbed 30 feet in a tree when it was released.

51 White-footed Mice: TL - 151.4mm (145-167), T - 68.7 (55-78), HF - 18.4 (17-21),
E - 14.5 (11-21)

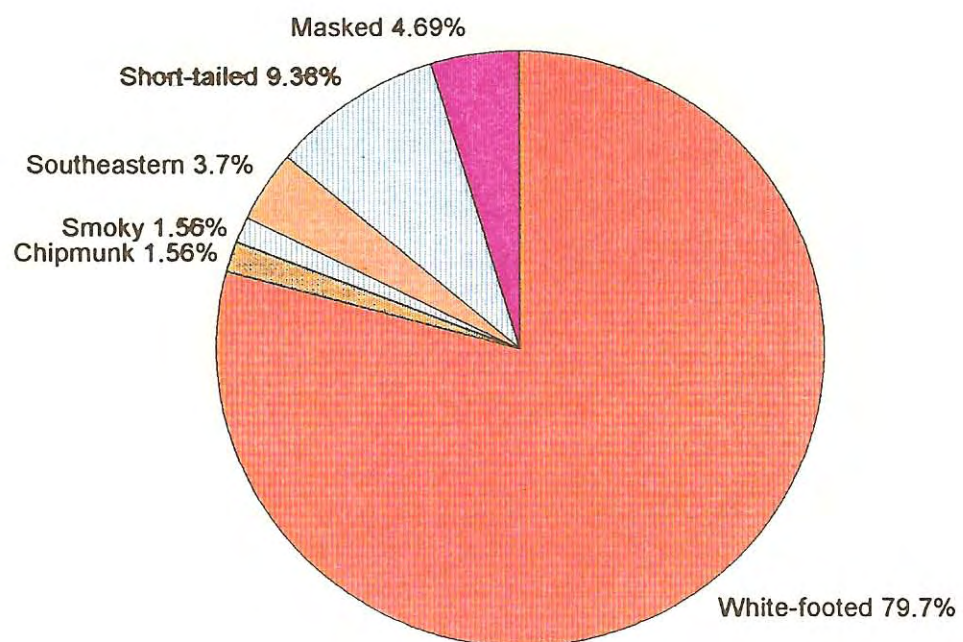
The final small mammal trapped in this survey was the Eastern Chipmunk, *Tamias striatus*. This animal was observed almost everyday when setting traps. The Eastern Chipmunk has not been fully represented in this survey, because only one chipmunk was trapped. The specimen was not alive in the trap.

1 Eastern Chipmunk: TL - 245mm, T - 112, HF - 36

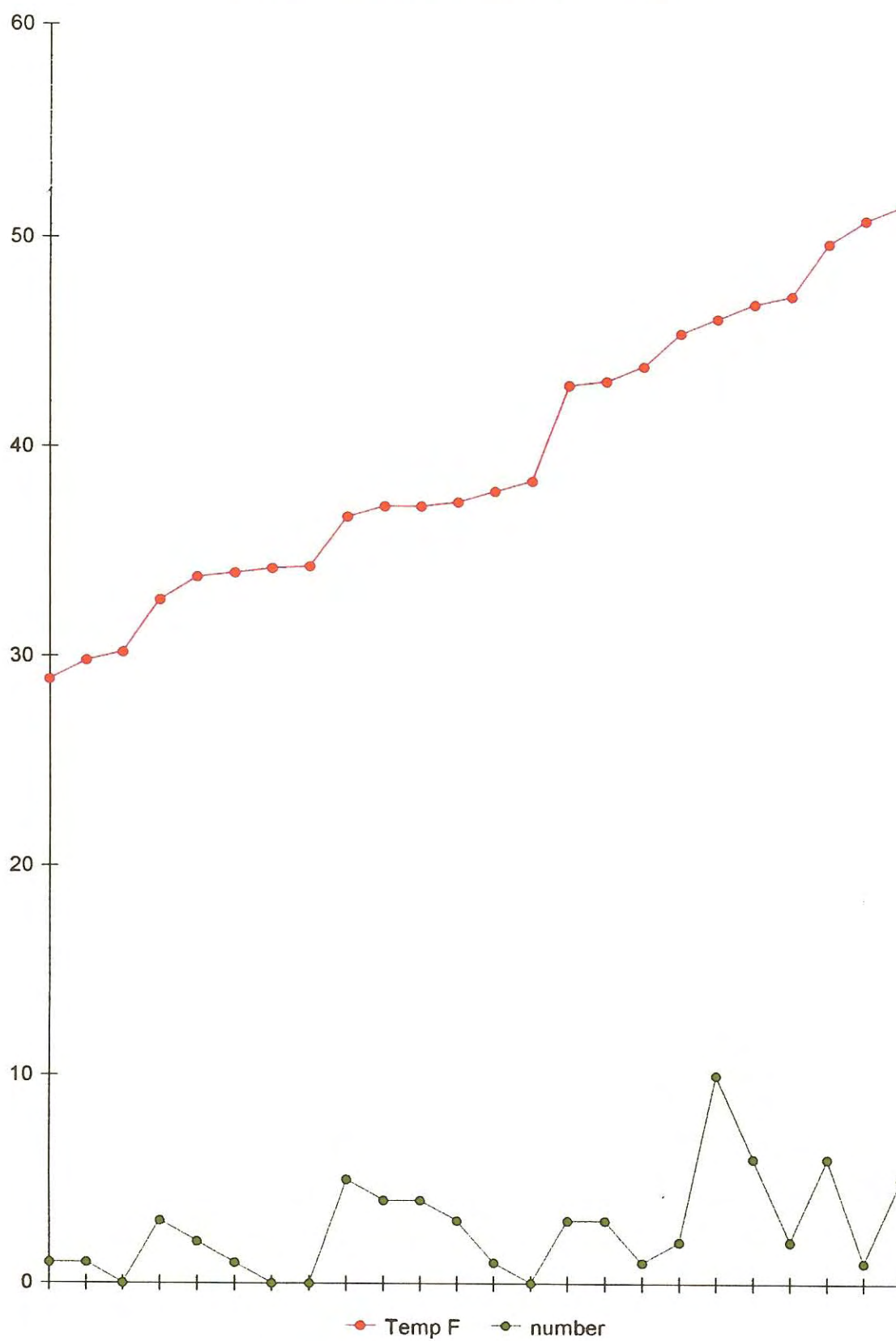
64 total mammals trapped

- 1 Smoky Shrew
- 2 Southeastern Shrews
- 6 Short-tailed Shrews
- 3 Masked Shrews
- 1 Eastern Chipmunk
- 51 White-footed Mice

Percentage of Total Catch by Species



Temperature vs. Number of Catches



LOG

Saturday, Jan. 18 - 8:00-5:00 - Went with Wallace Coffey and Kevin Hamed around Bristol and Bluff City searching for different types of birds that were in the area. Both of them showed me how to identify certain kinds of birds by their markings. Wallace also told me why some of the birds were in this area. Around 12:00 we got something to eat and talked about my project at Steele Creek. We talked about how I will be trapping small mammals and what animals I might find throughout the park. Wallace also let me borrow a book of his that talks about small mammals. (A Field Guide to the Mammals)

Thursday, Jan. 30 - 1:15-2:20 - Met with Kevin at the Nature Center and talked about some of the details dealing with my project. As of now we have around 60 traps to use and Kevin is talking to people about getting 40 more. He also told me I should go to the public library and take notes from a book called The Mammals of North America by Hall and Kelson.

Friday, Jan. 31 - 1:15-2:20 - Went to the public library and took notes.

Monday, Feb. 3 - 1:10-2:30 - Went again to the library to read and take notes from that book.

Tuesday, Feb. 4 - 1:10-2:00 - Went back to the library to finish up my notes.

Thursday, Feb. 6 - 1:20-2:15 - Talked to Kevin at the Nature Center and came up with some specific dates. Also talked about setting up a few days where I could talk to a professor from E.T.S.U. about how to do a study like this.

Friday, Feb. 7 - 1:05-2:45 - Met with Wallace and Kevin at Nature Center. We talked about where in the park I might trap and Wallace also showed me how the traps work and how to handle them with an animal in them. He is supposed to talk to Dr. Nagle at E.T.S.U. about scheduling a time to talk to him.

Monday, Feb. 10 - Dentist appointment

Tuesday, Feb. 11 - 1:15-2:15 - Today Kevin and I finalized some dates of importance. The field work will begin March 6 and end April 21. I am giving the presentation May 22. Tomorrow and Thursday I am going to the library and start researching the possible habitats for the different mammals that could be in the park.

Wednesday, Feb. 12 - 1:15-2:20 - Went to the library and did some research on the different types of habitats where small mammals live.

Thursday, Feb. 13 - 1:20-2:30 - Finished possible habitat research. Also eliminated some of the small mammals that could be in the park because of there size and habitat. These mammals were the least shrew, eastern mole, and the shrew mole.

Friday, Feb. 14 - 1:15-2:45 - Worked at the Nature Center with Kevin on listing the possible habitats and the small mammals that could be in these habitats. Talked about the Mt. Rogers trip also. Kevin and I might be leading a field trip that day on small mammals. Borrowed a trap that I will be using to take home and see how they really work.

Monday, Feb. 17 - Mid-winter break

Tuesday, Feb. 18 - 1:00-4:00 - Hiked with Kevin and four naturalists from Bays Mountain back into Slagle Hollow. They came to help give suggestions to Kevin about the trails and I went along to see how the hike would be since I will be trapping in Slagle Hollow. After the hike, we worked a little on the materials list and also drew up a data sheet.

Wednesday, Feb. 19 - 1:15-2:45 - Made revisions on data sheet with Kevin. Also ordered a thermometer that will give the high and low temperatures of the past 24 hours.

Thursday and Friday, Feb. 20-21 - Attended state swim meet in Nashville.

Monday, Feb. 24 - 1:15-3:30 - Met with Kevin and started getting the materials needed together. The environmental awareness club at THS is going to order 25 traps in the next few days and they are going to let me borrow them. I also looked at some maps of Slagle Hollow because I am going to hike there tomorrow and look for possible places to trap. Went to Big Eddies Deli and picked up a glass jar that they let us have.

Tuesday, Feb. 25 - 1:30-3:15 - Hiked back into Slagle Hollow to find places to trap. Most of the area where I was is dry and steep.

Wednesday, Feb. 26 - 1:35-2:20 - Cleaned and worked on some of the older traps that I will be using. Also brought in the anise oil and oatmeal.

Thursday, Feb. 27 - 1:30-2:50 - Fixed the traps that were broken. The thermometer that we ordered came in today and it is ready to use. Kevin and I also made revisions on the data sheet so he can make copies of it for tomorrow.

Friday, Feb. 28 - 1:15-2:30 - Gave Kevin the data sheet so he can make copies. Went to AB Dick to get copies of the maps, but they did not turn out.

Monday, Mar. 3 - 1:15-2:00 - Went to Ken Hale's office to get traps, but he forgot about them. He said to come back tomorrow. Also went to Tri-City Blueprint and bought two topo maps so I can make copies.

Tuesday, Mar.4 - 1:15-3:30 - Picked up the the traps that the Environmental Awareness club bought and also the ones that Ken Hale is letting me borrow. Set a trap line of 6 traps beside the golf course for practice. Kevin told me what to look for when setting the traps. Went to AB Dick and got the maps made.

Wednesday, Mar.5 - 1:15-3:15 - Checked the traps and caught nothing. Went over the data sheet and made more changes. I am going to have two data sheets; a location sheet and a specimen sheet. Set a practice trap line of 8 traps off the trail.

Thursday, Mar.6 - 1:30-2:45 - Checked trap line and found nothing. It rained really hard last night, so that might be the reason. Gave Kevin the data sheets so he can make copies. Also worked on arranging the traps into my backpack.

Friday, Mar.7 - 1:30-2:45 - Arranged the traps into two bags for tomorrow. Also put tape on the traps Ken Hale let me borrow so I know which ones are his. Mailed permit application to T.W.R.A.

Saturday, Mar.8 - 3:00-6:00 - Ran a trap line of 25 traps in Slagle Hollow ; at the start of slagle creek. Habitat turned out to be not that good, but I set them anyway. Found a spotted salamander under a rock where I was trapping. Also, numbered all 72 traps so I could locate them.

Sunday, Mar.9 - 12:00-2:30 - Checked traps in Slagle Hollow and did not catch anything. I cleaned them out and brought them back. Also saw 3 motorcycles destroy parts of the trail.

Monday, Mar.10 - 1:30-2:30 -Checked the sensitivity of the traps and prepared everything for tomorrow.

Tuesday, Mar.11 - 1:30-6:30 - Ran all 72 traps in Slagle Hollow where Brent Rowell did his work. Also found 3 Dusky salamanders and another salamander that we could not identify. Kevin and I also found egg sacks in a pool that are either salamanders or frogs.

Wednesday, Mar.12 - 1:30-5:15 - Checked traps and caught nothing except a slimy salamander in trap #26. Also found the remains of a squirrel around the traps. A Great Horned owl killed it. The temperature last night was 30.2, so that could be the reason for not catching anything. On the way to the traps, we saw a large grouse. After checking the traps, Kevin and I went farther back into Slagle Hollow and found that we are not trapping in the same location as Brent Rowell. We are one creek up from where he did his work. On the way back, Kevin noticed a dead tree and he started beating on it to see if anything was in it and sure enough a flying squirrel came out. We also took an egg sack from the little pool so we can see what kind of animals they are. I was leading back and I almost stepped on a garter snake. Kevin picked it up to take it back to the nature center and he noticed a large lump in its side. About halfway back, the snake

opened its mouth like it was going to throw up, and it did. It threw up a salamander and a wood frog. I put the wood frog in a bag so we can freeze it.

Thursday, Mar.13 - 1:30-4:30 - Checked the traps and caught nothing. Derek Gibson came with me. It rained on us coming back. I think the weather is one of the reasons I have not caught anything yet.

Friday, Mar.14 - 1:30-5:00 - Checked the traps and I caught something in trap #12. It is either a short-tailed shrew or a southern short-tailed shrew. It died in the trap so I brought it back with the other traps. The low last night was 50 degrees, 20 degrees warmer than the past two nights.

Monday, Mar.17 - 1:30-4:00 - Went with Kevin into Trinkle Hollow to look for a place to trap starting Wednesday.

Tuesday, Mar.18 - 1:30-3:45 - Checked the traps and made sure they were in working order for tomorrow. We also went to King College today and looked in the Journal of Mammalogy for information on the southern short-tailed shrew, but did not find that much.

Wednesday, Mar.19 - 1:15-4:00 - Set traps off of Trinkle Hollow trail. Derek Gibson came with me. Also found 5 dusky salamanders.

Thursday, Mar.20 - 1:30-3:00 - Checked traps and caught a white footed mouse in the thick underbrush. Kevin came with me as well as Evan, Josh, and Derek.

Friday, Mar.21 - 1:45-4:00 - Checked traps and caught another white-footed mouse in the same trap. Kevin and I also moved some traps into the underbrush because we think that is where they are going because of the water.

Saturday, Mar.22 - 12:00-2:00 - Checked traps and caught three white-footed mice. I also took many pictures of the mice. Evan came with me and we brought the traps back in after getting the measurements of the mice.

Monday, Mar.24 - 1:30-2:30 - Talked to Kevin and found out where I will be trapping this week. It is off the lakeside trail, back in the deep cove.

Tuesday, Mar.25 - 1:30-4:00 - Set traps off of the lakeside trail. Most of the traps were set in thick underbrush and thorns.

Wednesday, Mar.26 - 1:15-3:00 - Checked traps and caught two white-footed mice. I brought them back to the Nature Center so I can sex and measure them. If they are male and female I will keep them and see if they will have babies.

Thursday, Mar.27 - 1:30-3:45 - Checked traps and caught two more white-footed mice. One of them was dead and the other one was very docile.

Friday, Mar.28 - 2:00-3:15 - Checked traps and caught three white-footed mice. Two of them were in the same trap. It rained hard last night and some of the traps were set off because of the weather.

Monday-Friday, Mar.31 - Apr.4 Spring break

Monday, Apr.7 - 1:30-3:45 - cleaned and fixed the traps. Kevin checked the traps Saturday the 29th and brought them back in for me. I caught four white-footed mice and one of them was dead. A raccoon disturbed a few of the traps and they needed to be fixed. I am starting back tomorrow trapping and will be running the traps for four nights.

Tuesday, Apr.8 - 1:30-4:00 - Went to Nature Center and picked up traps and then went to Rooster Front to set them. I set them in a large field that is very overgrown. I also found many tadpoles in little pools where I set the traps.

Wednesday, Apr.9 - 1:15-2:00 - Went straight to Rooster Front from school to check traps. I caught a white-footed mouse in the underbrush.

Thursday, Apr.10 - 1:15-2:00 - Checked traps and caught another white-footed mouse in the same trap as yesterday. The mouse died in the trap so I brought him home to freeze.

Friday, Apr.11 - 1:30-2:45 - Went to Nature Center and went with Kevin back to Rooster Front to check traps. I did not catch anything last night. We found a small water snake in the creek as we were leaving.

Saturday, Apr.12 - 1:00-2:00 - Checked traps and brought them back in. I caught a short-tailed shrew and a white-footed mouse. The shrew was dead so I brought him back. He was caught in underbrush. The mouse was caught in the same trap as the previous nights.

Sunday, Apr.13 - 12:30-1:30 - Went to Rooster Front to take picture of where I trapped last week. Also went to Nature Center to get some papers.

Monday, Apr.14 - 1:30-3:00 - Talked to Kevin at the Nature Center about where I will be trapping this week. I am going to be trapping where Brent did his work. We also talked about the presentation and the final copy.

Tuesday, Apr.15 - 1:30-5:30 - Kevin and I set the traps in Slagle Hollow. I also wrote a letter to Dr. Kennedy at the University of Memphis about the short-tailed shrews I have caught.

Wednesday, Apr.16 - 1:30-4:30 - Checked traps and caught a white-footed mouse.

Thursday, Apr.17 - 1:30-4:45 - Checked traps and caught two white-footed mice. I also caught what appears to be a smoky shrew. We measured the specimen a few times when I got back to the Nature Center and it fits the description in the field guides.

Friday, Apr.18 - 1:30-4:30 - Checked the traps with Kevin and caught three white-footed mice. Two of the mice were dead. Also, some of the traps were set off, maybe because of the weather or an animal.

Sunday, Apr.20 - 2:30-5:00 - Checked the traps and caught nothing. Almost all of the traps were closed. They were also moved around and torn apart. Some type of animal probably smelled the bait and tore them open. I left the traps out because I am trapping around the same location this week. I also saw five motorcycles in Slagle Hollow.

Monday, Apr.21 - 1:30-2:00 - Talked to Kevin about where exactly I will be trapping this week.

Tuesday, Apr.22 - 1:30-5:00 - Went to E.T.S.U. with Kevin and talked to Dr. Nagle about the shrew I caught last Thursday. He looked at the specimen and said it was a Smoky Shrew.

Wednesday, Apr.23 - 1:30-5:15 - Moved the traps to the new location. I also baited them and fixed some of them. I was going to set them, but it started raining and I did not have my keys to get into the Nature Center. I will set them tomorrow. The location where I will trapping this week is the third creek in Slagle Hollow.

Thursday, Apr.24 - 1:30-5:00 - Set the traps around the creek. While I was setting a few of the traps under a log, I noticed something moving beside the traps. It was a mole, probably an Eastern Mole. I tried to catch it, but it went down in a hole.

Friday, Apr.25 - 1:30-5:15 - Checked the traps and caught five animals. I caught two white-footed mice, two short-tailed shrews, and a masked shrew.

Saturday, Apr.26 - 11:30-3:15 - Checked the traps and caught four. I caught three white-footed mice and a southeastern shrew. I also saw two more motorcycles.

Sunday, Apr.27 - 1:30-5:00 - Checked the traps with Logan Powers and caught four white-footed mice, one masked shrew, and a southeastern shrew. We saw three motorcycles.

Monday, Apr.28 - 1:30-4:30 - Checked traps and caught four white-footed mice. I also caught a short-tailed shrew that was very pregnant.

Tuesday, Apr.29 - 1:15-4:00 - Checked traps and caught five white-footed mice and a Masked shrew.

Wednesday, Apr.30 - 1:30-6:00 - Checked traps and caught ten animals. I caught eight white-footed mice, a short-tailed shrew, and an eastern chipmunk. Today was my last day of trapping so I brought the traps back. The field work is done.

Thursday, May 1 - 1:30-3:00 - Talked to Kevin about what is going to be in my final report. I also worked on the specimen sheets.

Friday, May 2 - 1:30-2:30 - Talked to Wallace Coffey on the phone about the presentation and a few other things.

Sunday, May 4 - 2:00-6:00 - Went with Kevin and his wife to Mt. Rogers to see where some things were and to find out where we are going to run the trap line next weekend.

Monday, May 5 - 1:30-2:00 - 6:30-9:00 - Went to the Nature Center and talked to Kevin. Went home and finished up the specimen sheets. I met Kevin and Wallace and Shoneys at 6:30 for dinner. We talked about the presentation and the report. Wallace let me borrow old research papers to see how they were done.

Tuesday, May 6 - 1:30-2:30 - Talked to Kevin and then went home and finished the location sheets.

Wednesday, May 7 - 1:30-2:30 - Met with Kevin and figured out the percentages of the different types of species I trapped. We also figured out how many trapping nights I had. Went home and worked on my introduction and the literature review.

Thursday, May 8 - 1:30-2:30 - Went to Nature Center and talked to Kevin about some specific things that need to go in the final report.

Friday, May 9 - Attended the Mount Rogers Naturalist Rally.

Saturday, May 10 - Led a field trip with Kevin at the Naturalist Rally on small mammals. We caught 8 small mammals, all white-footed mice and deer mice.

Monday, May 12 - 1:30-3:00 - Talked to Wallace and Kevin at the Nature Center about the presentation. We also made out a flyer to put at different places about the seminar.

Tuesday, May 13 - Friday, May 16 - Took time off to be with my grandfather.

Monday, May 19 - 1:30-3:00 - Worked on methods and materials. Also got some things organized.

Tuesday, May 20 - 1:30-4:00 - Continued to work on project. Also went to Kevin's house and made 2 graphs for the report.

Wednesday, May 21 - 1:30-4:00 - Finished the results and worked on literature cited page. Ran through the presentation to Kevin, Wallace, and a few students.

Thursday, May 22 - 7:00-8:00 - Gave seminar on small mammals to the public at the Nature Center.

Location Sheet

Date: 3 - 12 - 97

Location number: 1

City: Bristol

Time:

set: 4:00

County: Sullivan

checked: 2:30

State: Tennessee

Map location number: 1

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 75.7

L: 30.2

Distance to water: 10 meters

Habitat conditions: (Natural / Altered) Off the main trail, basically untouchedDominate vegetation: underbrush trees none

Thick leaf litter on forest floor with many trees around the location. Many down logs were by the site.

Landscape: Natural Grazed Mowed Logged Trail

Deep forest with no trail.

Habitat Description: Location #1 was around the first creek back in Slagle Hollow

Location Sheet

Date: 3 - 13 - 97

Location number: 1

City: Bristol

Time:
set: 2:30

County: Sullivan

checked: 2:30

State: Tennessee

Map location number: 1

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 72.1

L: 34.2

Distance to water: 10 meters

Habitat conditions: (Natural) / Altered)

Off the main trail, basically untouched

Dominate vegetation: underbrush trees none

Thick leaf litter on forest floor with many trees around the location. Many down logs were by the site.

Landscape: Natural Grazed Mowed Logged Trail

Deep forest with no trail.

Habitat Description: Location #1 was around the first creek back in Slagle Hollow

Location Sheet

25

Date: 3 - 14 - 97

Location number: 1

City: Bristol

Time:
set: 2:30

County: Sullivan

checked: 2:45

State: Tennessee

Map location number: 1

Weather:	S:	Clear	O'cast	Fog	<u>Rain</u>	Pt. Cloudy	Mst. Cloudy	Snow	Frost
	C:	Clear	O'cast	Fog	<u>Rain</u>	Pt. Cloudy	Mst. Cloudy	Snow	Frost

Temperature: H: 67.6

L: 50.9

Distance to water: 10 meters

Habitat conditions: (Natural/ Altered) Off the main trail, basically untouched

Dominate vegetation: underbrush trees none

Thick leaf litter on forest floor with many trees around the location. Many down logs were by the site.

Landscape: Natural Grazed Mowed Logged Trail

Deep forest with no trail.

Habitat Description: Location #1 was around the first creek back in Slagle Hollow.

Specimen Sheet

26

Date: 3 - 14 - 97

Trap line location number: 1

Trap number: 12

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: Short-tailed Shrew

Scientific name: *Blarina brevicauda*

Specimen number: 031497 - 01

Measurements:

Total length: 93mm

Length of tail: 24

Length of hind foot: 13

Length of ear: --

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes: Died in trap. Snail shells found under the log where the trap was.

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 3 - 14- 97

Location Sheet

Date: 3 - 20 - 97

Location number: 2

City: Bristol

Time:

set: 2:30

County: Sullivan

checked: 2:30

State: Tennessee

Map location number: 2

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 60.1

L: 43.9

Distance to water: 0.5 meters

Habitat conditions: (Natural) Altered)

Beside the trail, but the site was natural

Dominate vegetation: underbrush trees none

Thick underbrush

Landscape:

Natural

Grazed

Mowed

Logged

Trail

Off the trail ; untouched

Habitat Description: Location #2 was around a creek and a spring off of the Trinkle Hollow trail. Thick underbrush was around the spring.

Specimen Sheet

28

Date: 3 - 20 - 97

Trap line location number: 2

Trap number: 52

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032097 - 01

Measurements:

Total length: 151mm

Length of tail: 69

Length of hind foot: 18

Length of ear: 17

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: thick underbrush by
spring

Notes: Trap line set off Trinkle Hollow trail

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Kevin Hamed, Derek Gibson,
Evan Kilbreath, Josh Rayment

Date: 3 - 20 - 97

Location Sheet

Date: 3 - 21 - 97

Location number: 2

City: Bristol

Time:

set: 2:30

County: Sullivan

checked: 3:15

State: Tennessee

Map location number: 2

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 68.7

L: 37.9

Distance to water: 0.5 meters

Habitat conditions: (Natural / Altered)

Beside the trail, but the site was natural

Dominate vegetation: underbrush trees none

Thick underbrush

Landscape:

Natural

Grazed

Mowed

Logged

Trail

Off the trail ; untouched

Habitat Description: Location #2 was around a creek and a spring off of the Trinkle Hollow trail. Thick underbrush was around the spring.

Specimen Sheet

Date: 3 - 21 - 97

Trap line location number: 2

Trap number: 52

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032197 - 01

Measurements:

Total length: 155mm

Length of tail: 70

Length of hind foot: 20

Length of ear: 17

Found:

Under rock:___

log:___

roots:___

Leaf litter:___

Entrance hole:___

Other: thick underbrush by
spring

Notes: male

Name of collector: Gray Buckles

Others: Kevin Hamed

Signed: *Gray Buckles*

Date: 3 - 21 - 97

Location Sheet

31

Date: 3 - 22 - 97

Location number: 2

City: Bristol

Time:

set: 3:30

County: Sullivan

checked: 12:45

State: Tennessee

Map location number: 2

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 71.6

L: 43.2

Distance to water: 0.5 meters

Habitat conditions: (Natural Altered) Beside the trail, but the site was natural

Dominate vegetation: underbrush trees none

Thick underbrush

Landscape: Natural Grazed Mowed Logged Trail

Off the trail ; untouched

Habitat Description: Location #2 was around a creek and a spring off of the Trinkle Hollow trail. Thick underbrush was around the spring.

Specimen Sheet

Date: 3 - 22 - 97

Trap line location number: 2

Trap number: 59

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032297 - 01

Measurements:

Total length: 146mm

Length of tail: 72

Length of hind foot: 20

Length of ear: 15

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: thick underbrush by
spring

Notes: female

Name of collector: Gray Buckles

Others: Evan Kilbreath

Signed: *Gray Buckles*

Date: 3 - 22 - 97

Specimen Sheet

Date: 3 - 22 - 97

Trap line location number: 2

Trap number: 71

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032297 - 02

Measurements:

Total length: 154mm

Length of tail: 73

Length of hind foot: 21

Length of ear: 19

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: thick underbrush by
spring

Notes: male

Name of collector: Gray Buckles

Others: Evan Kilbreath

Signed: *Gray Buckles*

Date: 3 - 22 - 97

Specimen Sheet

Date: 3 - 22 - 97

Trap line location number: 2

Trap number: 12

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032297 - 03

Measurements:

Total length: 149mm

Length of tail: 70

Length of hind foot: 14

Length of ear: 17

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes: male ; when released, the mouse ran straight up a tree.

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Evan Kilbreath

Date: 3 - 22 - 97

Location Sheet

35

Date: 3 - 26 - 97

Location number: 3

City: Bristol

Time:

set: 3:00

County: Sullivan

checked: 2:00

State: Tennessee

Map location number: 3

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 80.4

L: 45.5

Distance to water: 20 meters

Habitat conditions: (Natural / Altered)
disappears and becomes natural.

Trail at the beginning of the site, but

Dominate vegetation: underbrush trees none

Thick underbrush as well as many trees.

Landscape: Natural Grazed Mowed Logged Trail

Off the trail ; untouched

Habitat Description: Location #3 was around a creek off of the Lakeside trail, where the deep cove is.

Specimen Sheet

36

Date: 3 - 26 - 97

Trap line location number: 3

Trap number: 68

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032697 - 01

Measurements:

Total length: 158mm

Length of tail: 70

Length of hind foot: 21

Length of ear: 13

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: thorn bushes

Notes: Trap line set off Lakeside trail in the deep cove ; male ; took specimen back to Nature Center to measure.

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Evan Kilbreath

Date: 3 - 26 - 97

Specimen Sheet

37

Date: 3 - 26 - 97

Trap line location number: 3

Trap number: 69

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032697 - 02

Measurements:

Total length: 145mm

Length of tail: 60

Length of hind foot: 18

Length of ear: 12

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: thorn bushes

Notes: male ; took specimen back to Nature Center to measure.

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Evan Kilbreath

Date: 3 - 26 - 97

Location Sheet

38

Date: 3 - 27 - 97

Location number: 3

City: Bristol

Time:

set: 2:15

County: Sullivan

checked: 2:30

State: Tennessee

Map location number: 3

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 75.6

L: 33.8

Distance to water: 20 meters

Habitat conditions: (Natural) Altered)
disappears and becomes natural.

Trail at the beginning of the site, but

Dominate vegetation: underbrush trees none

Thick underbrush as well as many trees.

Landscape: Natural Grazed Mowed Logged Trail

Off the trail ; untouched

Habitat Description: Location #3 was around a creek off of the Lakeside trail, where the deep cove is.

Specimen Sheet

39

Date: 3 - 27 - 97

Trap line location number: 3

Trap number: 40

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032797 - 01

Measurements:

Total length: 167mm

Length of tail: 89

Length of hind foot: 21

Length of ear: 13

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: thorn bushes

Notes: male ; died in the trap.

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Evan Kilbreath

Date: 3 - 27 - 97

Specimen Sheet

40

Date: 3 - 27 - 97

Trap line location number: 3

Trap number: 38

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032797 - 02

Measurements:

Total length: 146mm

Length of tail: 70

Length of hind foot: 20

Length of ear: 15

Found:

Under rock: _____

log: _____

roots: _____

Leaf litter: _____

Entrance hole: _____

Other: underbrush

Notes: male ; very calm (half dead)

Name of collector: Gray Buckles

Others: Evan Kilbreath

Signed: *Gray Buckles*

Date: 3 - 27 - 97

Location Sheet

Date: 3 - 28 - 97

Location number: 3

City: Bristol

Time:

set: 2:45

County: Sullivan

checked: 2:00

State: Tennessee

Map location number: 3

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 79.6

L: 37.4

Distance to water: 20 meters

Habitat conditions: (Natural / Altered)
disappears and becomes natural.

Trail at the beginning of the site, but

Dominate vegetation: underbrush trees none

Thick underbrush as well as many trees.

Landscape: Natural Grazed Mowed Logged Trail

Off the trail ; untouched

Habitat Description: Location #3 was around a creek off of the Lakeside trail, where the deep cove is.

Specimen Sheet

42

Date: 3 - 28 - 97

Trap line location number: 3

Trap number: 71

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032897 - 01

Measurements:

Total length: 149mm

Length of tail: 70

Length of hind foot: 21

Length of ear: 13

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: entrance in rock pile

Notes: male ; some of the traps were set off, probably because of the rain last night.

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 3 - 28 - 97

Specimen Sheet

43

Date: 3 - 28 - 97

Trap line location number: 3

Trap number: 38

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032897 - 02

Measurements:

Found:

Total length: 145mm

Under rock: ____

Length of tail: 67

log: ____

Length of hind foot: 18

roots: ____

Length of ear: 14

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes: male ; this mouse and 032897 - 03 were caught in the same trap.

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 3 - 28 - 97

Specimen Sheet

44

Date: 3 - 28 - 97

Trap line location number: 3

Trap number: 38

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032897 - 03

Measurements:

Found:

Total length: 153mm

Under rock: ____

Length of tail: 70

log: ____

Length of hind foot: 19

roots: ____

Length of ear: 16

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes: male ; caught in the same trap as 032897 - 02

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 3 - 28 - 97

Location Sheet

Date: 3 - 29 - 97

Location number: 3

City: Bristol

Time:

set: 2:00

County: Sullivan

checked: 8:00a.m.

State: Tennessee

Map location number: 3

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 70.0

L: 37.2

Distance to water: 20 meters

Habitat conditions: (Natural) Altered)
disappears and becomes natural.

Trail at the beginning of the site, but

Dominate vegetation: underbrush trees none

Thick underbrush as well as many trees.

Landscape: Natural Grazed Mowed Logged Trail

Off the trail ; untouched

Habitat Description: Location #3 was around a creek off of the Lakeside trail, where the deep cove is.

Specimen Sheet

46

Date: 3 - 29 - 97

Trap line location number: 3

Trap number: 02

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032997 - 01

Measurements:

Total length: 159mm

Length of tail: 74

Length of hind foot: 17

Length of ear: 16

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes: male

Name of collector: Kevin Hamed

Others:

Signed: 

Date: 3 - 29 - 97

Specimen Sheet

Date: 3 - 29 - 97

Trap line location number: 3

Trap number: 34

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032997 - 02

Measurements:

Total length: 163mm

Length of tail: 75

Length of hind foot: 19

Length of ear: 17

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes: male

Name of collector: Kevin Hamed

Signed: 

Others:

Date: 3 - 29 - 97

Specimen Sheet

48

Date: 3 - 29 - 97

Trap line location number: 3

Trap number: 52

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032997 - 03

Measurements:

Found:

Total length: 159mm

Under rock: ____

Length of tail: 78

log: ____

Length of hind foot: 19

roots: ____

Length of ear: 18

Leaf litter: ____

Entrance hole: ____

Other: brush

Notes: male ; traps 58 and 59 were disturbed

Name of collector: Kevin Hamed

Signed: 

Others:

Date: 3 - 29 - 97

Specimen Sheet

49

Date: 3 - 29 - 97

Trap line location number: 3

Trap number: 66

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 032997 - 04

Measurements:

Total length: 156mm

Length of tail: 75

Length of hind foot: 17

Length of ear: 16

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: brush: mainly old
pine

Notes: male

Name of collector: Kevin Hamed

Signed: 

Others:

Date: 3 - 29 - 97

Location Sheet

Date: 4 - 09- 97

Location number: 4

City: Bristol

Time:

set: 2:45

County: Sullivan

checked: 1:45

State: Tennessee

Map location number: 4

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 74.7

L: 34.0

Distance to water: 5 meters

Habitat conditions: (Natural Altered) Field with tall grass and underbrush
surrounding it.

Dominate vegetation: underbrush trees none

Thick underbrush around open field

Landscape: Natural Grazed Mowed Logged Trail

field with tall grass ; very marshy

Habitat Description: Location #4 was around and in an open field with underbrush
surrounding it by Rooster Front Park.

Specimen Sheet

Date: 4 - 09 - 97

Trap line location number: 4

Trap number: 30

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 040997 - 01

Measurements:

Total length: 155mm

Length of tail: 61

Length of hind foot: 20

Length of ear: 16

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush by open
field

Notes: Trap line set around and in open field by Rooster Front park ; male

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 09 - 97

Location Sheet

Date: 4 - 10 - 97

Location number: 4

City: Bristol

Time:

set: 1:45

County: Sullivan

checked: 1:45

State: Tennessee

Map location number: 4

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 75.7

L: 28.9

Distance to water: 5 meters

Habitat conditions: (Natural Altered)
surrounding it.

Field with tall grass and underbrush

Dominate vegetation: underbrush trees none

Thick underbrush around open field

Landscape: Natural Grazed Mowed Logged Trail

field with tall grass ; very marshy

Habitat Description: Location #4 was around and in an open field with underbrush surrounding it by Rooster Front Park.

Specimen Sheet

Date: 4 - 10 - 97

Trap line location number: 4

Trap number: 30

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 041097 - 01

Measurements:

Total length: 146mm

Length of tail: 66

Length of hind foot: 21

Length of ear: 15

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush by open
field

Notes: male ; died in the trap.

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 10 - 97

Location Sheet

Date: 4 - 11 - 97

Location number: 4

City: Bristol

Time:

set: 1:45

County: Sullivan

checked: 2:30

State: Tennessee

Map location number: 4

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 79.1

L: 38.4

Distance to water: 5 meters

Habitat conditions: (Natural Altered)
surrounding it.

Field with tall grass and underbrush

Dominate vegetation: underbrush trees none

Thick underbrush around open field

Landscape: Natural Grazed Mowed Logged Trail

field with tall grass ; very marshy

Habitat Description: Location #4 was around and in an open field with underbrush surrounding it by Rooster Front Park.

Location Sheet

55

Date: 4 - 12 - 97

Location number: 4

City: Bristol

Time:

set: 2:30

County: Sullivan

checked: 2:00

State: Tennessee

Map location number: 4

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 78.1

L: 47.3

Distance to water: 5 meters

Habitat conditions: (Natural Altered) Field with tall grass and underbrush surrounding it.

Dominate vegetation: underbrush trees none

Thick underbrush around open field

Landscape: Natural Grazed Mowed Logged Trail

field with tall grass ; very marshy

Habitat Description: Location #4 was around and in an open field with underbrush surrounding it by Rooster Front Park.

Specimen Sheet

56

Date: 4 - 12 - 97

Trap line location number: 4

Trap number: 30

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 041297 - 01

Measurements:

Total length: 148mm

Length of tail: 63

Length of hind foot: 20

Length of ear: 13

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush by open
field

Notes: male

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Derek Gibson, Evan Kilbreath,
Chad Richmond, Brendan Bennett

Date: 4 - 12 - 97

Specimen Sheet

57

Date: 4 - 12 - 97

Trap line location number: 4

Trap number: 12

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: Short-tailed Shrew

Scientific name: *Blarina brevicauda*

Specimen number: 041297 - 02

Measurements:

Found:

Total length: 90mm

Under rock: ____

Length of tail: 20

log: ____

Length of hind foot: 12

roots: ____

Length of ear: --

Leaf litter: ____

Entrance hole: ____

Other: underbrush by open
field

Notes: Specimen died in the trap.

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Derek Gibson, Evan Kilbreath,
Chad Richmond, Brendan Bennett

Date: 4 - 12 - 97

Location Sheet

Date: 4 - 16 - 97

Location number: 5

City: Bristol

Time:

set: 2:30

County: Sullivan

checked: 2:30

State: Tennessee

Map location number: 5

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 81.4

L: 29.8

Distance to water: 3 meters

Habitat conditions: (Natural / Altered) Deep forest ; untouchedDominate vegetation: underbrush trees none

Thick leaf litter and many trees ; underbrush ; many down logs

Landscape: Natural Grazed Mowed Logged Trail

Deep forest with no trail

Habitat Description: Location #5 was around the second creek back in Slagle Hollow,
where Brent Rowell trapped in 1972.

Specimen Sheet

59

Date: 4 - 16 - 97

Trap line location number: 5

Trap number: 30

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 041697 - 01

Measurements:

Found:

Total length: 160mm

Under rock: ____

Length of tail: 75

log: ____

Length of hind foot: 19

roots: ____

Length of ear: 14

Leaf litter: ____

Entrance hole: ____

Other:

Notes: Trap line set along second creek back in Slagle Hollow ; male

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 16 - 97

Location Sheet

60

Date: 4 - 17 - 97

Location number: 5

City: Bristol

Time:

set: 2:30

County: Sullivan

checked: 2:30

State: Tennessee

Map location number: 5

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 80.2

L: 43.0

Distance to water: 3 meters

Habitat conditions: Natural Altered) Deep forest ; untouched

Dominate vegetation: underbrush trees none

Thick leaf litter and many trees ; underbrush ; many down logs

Landscape: Natural Grazed Mowed Logged Trail

Deep forest with no trail

Habitat Description: Location #5 was around the second creek back in Slagle Hollow, where Brent Rowell trapped in 1972.

Specimen Sheet

61

Date: 4 - 17 - 97

Trap line location number: 5

Trap number: 37

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 041797 - 01

Measurements:

Total length: 161mm

Length of tail: 71

Length of hind foot: 19

Length of ear: 11

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes: male ; trap #72 was torn apart

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 17 - 97

Specimen Sheet

62

Date: 4 - 17 - 97

Trap line location number: 5

Trap number: 35

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 041797 - 02

Measurements:

Found:

Total length: 150mm

Under rock: ____

Length of tail: 65

log: ____

Length of hind foot: 17

roots: ____

Length of ear: 14

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes: male

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 17 - 97

Specimen Sheet

63

Date: 4 - 17 - 97

Trap line location number: 5

Trap number: 46

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: Smoky Shrew

Scientific name: *Sorex fumeus*

Specimen number: 041797 - 03

Measurements:

Total length: 101mm

Length of tail: 42

Length of hind foot: 13

Length of ear: --

Found:

Under rock: ☐

log: ☒

roots: ☐

Leaf litter: ☐

Entrance hole: ☐

Other:

Notes: Died in trap ; On April 22 Kevin and I went to E.T.S.U. where Dr. Nagle verified the specimen as a Smoky Shrew.

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 17 - 97

Location Sheet

Date: 4 - 18 - 97

Location number: 5

City: Bristol

Time:

set: 2:30

County: Sullivan

checked: 3:00

State: Tennessee

Map location number: 5

Weather:	S:	Clear	O'cast	Fog	Rain	Pt. Cloudy	<u>Mst. Cloudy</u>	Snow	Frost
	C:	Clear	O'cast	Fog	Rain	<u>Pt. Cloudy</u>	Mst. Cloudy	Snow	Frost

Temperature: H: 56.3

L: 32.7

Distance to water: 3 meters

Habitat conditions: (Natural / Altered) Deep forest ; untouchedDominate vegetation: underbrush trees none

Thick leaf litter and many trees ; underbrush ; many down logs

Landscape: Natural Grazed Mowed Logged Trail

Deep forest with no trail

Habitat Description: Location #5 was around the second creek back in Slagle Hollow, where Brent Rowell trapped in 1972.

Specimen Sheet

65

Date: 4 - 18 - 97

Trap line location number: 5

Trap number: 61

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 041897 - 01

Measurements:

Total length: 162mm

Length of tail: 70

Length of hind foot: 19

Length of ear: 12

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes: male

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Kevin Hamed

Date: 4 - 18 - 97

Specimen Sheet

66

Date: 4 - 18 - 97

Trap line location number: 5

Trap number: 30

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 041897 - 02

Measurements:

Total length: 80mm

Length of tail: --

Length of hind foot: 19

Length of ear: 14

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes: male ; died in trap ; specimen had no tail

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Kevin Hamed

Date: 4 - 18 - 97

Specimen Sheet

67

Date: 4 - 18 - 97

Trap line location number: 5

Trap number: 69

Number of traps in line: 72

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 041897 - 03

Measurements:

Total length: 152mm

Length of tail: 72

Length of hind foot: 20

Length of ear: 13

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes: male ; died in trap

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Kevin Hamed

Date: 4 - 18 - 97

Location Sheet

68

Date: 4 - 20 - 97

Location number: 5

City: Bristol

Time:

set: 3:00

County: Sullivan

checked: 3:00

State: Tennessee

Map location number: 5

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 71.5

L: 34.3

Distance to water: 3 meters

Habitat conditions: (Natural / Altered) Deep forest ; untouched

Dominate vegetation: underbrush trees none

Thick leaf litter and many trees ; underbrush ; many down logs

Landscape: Natural Grazed Mowed Logged Trail

Deep forest with no trail

Habitat Description: Location #5 was around the second creek back in Slagle Hollow, where Brent Rowell trapped in 1972.

Location Sheet

69

Date: 4 - 25 - 97

Location number: 6

City: Bristol

Time:

set: 3:00

County: Sullivan

checked: 3:00

State: Tennessee

Map location number: 6

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 83.3

L: 36.7

Distance to water: 2.5 meters

Habitat conditions: (Natural) / Altered)

Deep forest ; untouched

Dominate vegetation: underbrush trees none

Thick leaf litter and many trees ; underbrush ; many down trees, especially pines

Landscape:

Natural

Grazed

Mowed

Logged

Trail

Deep forest with no trail

Habitat Description: Location #6 was around the third creek back in Slagle Hollow. While setting the traps yesterday, I observed a species of mole run through a run-way and into a hole.

Specimen Sheet

70

Date: 4 - 25 - 97

Trap line location number: 6

Trap number: 08

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: Short-tailed Shrew

Scientific name: *Blarina brevicauda*

Specimen number: 042597 - 01

Measurements:

Total length: 88mm

Length of tail: 24

Length of hind foot: 12

Length of ear: --

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes: Died in trap

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 25 - 97

Specimen Sheet

71

Date: 4 - 25 - 97

Trap line location number: 6

Trap number: 14

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: Short-tailed Shrew

Scientific name: *Blarina brevicauda*

Specimen number: 042597 - 02

Measurements:

Total length: 90mm

Length of tail: 24

Length of hind foot: 13

Length of ear: --

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes: Died in trap

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 25 - 97

Specimen Sheet

72

Date: 4 - 25 - 97

Trap line location number: 6

Trap number: 19

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042597 - 03

Measurements:

Total length: 155mm

Length of tail: 65

Length of hind foot: 20

Length of ear: 16

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: under down pine tree

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 25 - 97

Specimen Sheet

73

Date: 4 - 25 - 97

Trap line location number: 6

Trap number: 20

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: Masked Shrew

Scientific name: *Sorex cinereus*

Specimen number: 042597 - 04

Measurements:

Total length: 101mm

Length of tail: 39

Length of hind foot: 13

Length of ear: --

Found:

Under rock:___

log:___

roots:___

Leaf litter:___

Entrance hole:___

Other: under down pine tree
with needles still on
branches

Notes: Died in trap

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 25 - 97

Specimen Sheet

74

Date: 4 - 25 - 97

Trap line location number: 6

Trap number: 35

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042597 - 05

Measurements:

Total length: 154mm

Length of tail: 69

Length of hind foot: 20

Length of ear: 16

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes: Male

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 25 - 97

Location Sheet

75

Date: 4 - 26 - 97

Location number: 6

City: Bristol

Time:

set: 3:00

County: Sullivan

checked: 2:00

State: Tennessee

Map location number: 6

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 69.6

L: 37.2

Distance to water: 2.5 meters

Habitat conditions: Natural Altered) Deep forest ; untouched

Dominate vegetation: underbrush trees none

Thick leaf litter and many trees ; underbrush ; many down trees, especially pines

Landscape: Natural Grazed Mowed Logged Trail

Deep forest with no trail

Habitat Description: Location #6 was around the third creek back in Slagle Hollow.

Specimen Sheet

Date: 4 - 26 - 97

Trap line location number: 6

Trap number: 21

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042697 - 01

Measurements:

Total length: 151mm

Length of tail: 71

Length of hind foot: 19

Length of ear: 11

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: under pine tree

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 26 - 97

Specimen Sheet

77

Date: 4 - 26 - 97

Trap line location number: 6

Trap number: 18

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042697 - 02

Measurements:

Total length: 149mm

Length of tail: 64

Length of hind foot: 18

Length of ear: 15

Found:

Under rock:___

log:___

roots:___

Leaf litter:___

Entrance hole:___

Other: under pine needles

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 26 - 97

Specimen Sheet

78

Date: 4 - 26 - 97

Trap line location number: 6

Trap number: 19

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042697 - 03

Measurements:

Found:

Total length: 167mm

Under rock:___

Length of tail: 72

log:___

Length of hind foot: 18

roots:___

Length of ear: 15

Leaf litter:___

Entrance hole:___

Other: under pine needles

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 26 - 97

Specimen Sheet

79

Date: 4 - 26 - 97

Trap line location number: 6

Trap number: 03

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: Southeastern Shrew

Scientific name: *Sorex longirostris*

Specimen number: 042697 - 04

Measurements:

Total length: 103mm

Length of tail: 37

Length of hind foot: 12

Length of ear: --

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes: Died in trap

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 26 - 97

Location Sheet

80

Date: 4 - 27 - 97

Location number: 6

City: Bristol

Time:

set: 2:00

County: Sullivan

checked: 3:00

State: Tennessee

Map location number: 6

Weather: S:	Clear	O'cast	Fog	Rain	<u>Pt. Cloudy</u>	<u>Mst. Cloudy</u>	Snow	Frost
C:	Clear	O'cast	Fog	Rain	Pt. Cloudy	<u>Mst. Cloudy</u>	Snow	Frost

Temperature: H: 72.9

L: 49.8

Distance to water: 2.5 meters

Habitat conditions: (Natural / Altered) Deep forest ; untouched

Dominate-vegetation: underbrush trees none

Thick leaf litter and many trees ; underbrush ; many down trees, especially pines

Landscape: Natural Grazed Mowed Logged Trail

Deep forest with no trail

Habitat Description: Location #6 was around the third creek back in Slagle Hollow.

Specimen Sheet

81

Date: 4 - 27 - 97

Trap line location number: 6

Trap number: 19

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042797 - 01

Measurements:

Total length: 150mm

Length of tail: 70

Length of hind foot: 21

Length of ear: 14

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: under pine needles

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Logan Powers

Date: 4 - 27 - 97

Specimen Sheet

82

Date: 4 - 27 - 97

Trap line location number: 6

Trap number: 20

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042797 - 02

Measurements:

Total length: 148mm

Length of tail: 68

Length of hind foot: 19

Length of ear: 13

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: under pine needles

Notes:

Name of collector: Gray Buckles

Others: Logan Powers

Signed: *Gray Buckles*

Date: 4 - 27 - 97

Specimen Sheet

83

Date: 4 - 27 - 97

Trap line location number: 6

Trap number: 72

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042797 - 03

Measurements:

Total length: 162mm

Length of tail: 77

Length of hind foot: 20

Length of ear: 21

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes:

Name of collector: Gray Buckles

Others: Logan Powers

Signed: *Gray Buckles*

Date: 4 - 27 - 97

Specimen Sheet

84

Date: 4 - 27 - 97

Trap line location number: 6

Trap number: 62

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042797 - 04

Measurements:

Total length: 151mm

Length of tail: 71

Length of hind foot: 20

Length of ear: 13

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others: Logan Powers

Date: 4 - 27 - 97

Specimen Sheet

85

Date: 4 - 27 - 97

Trap line location number: 6

Trap number: 24

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: Masked Shrew

Scientific name: *Sorex cinereus*

Specimen number: 042797 - 05

Measurements:

Total length: 98mm

Length of tail: 42

Length of hind foot: 12

Length of ear: --

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: under pine needles

Notes: Died in trap

Name of collector: Gray Buckles

Others: Logan Powers

Signed: *Gray Buckles*

Date: 4 - 27 - 97

Specimen Sheet

86

Date: 4 - 27 - 97

Trap line location number: 6

Trap number: 02

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: Southeastern Shrew

Scientific name: *Sorex longirostris*

Specimen number: 042797 - 06

Measurements:

Total length: 101mm

Length of tail: 40

Length of hind foot: 12

Length of ear: --

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes: Died in trap

Name of collector: Gray Buckles

Others: Logan Powers

Signed: *Gray Buckles*

Date: 4 - 27 - 97

Location Sheet

87

Date: 4 - 28 - 97

Location number: 6

City: Bristol

Time:

set: 2:30

County: Sullivan

checked: 3:00

State: Tennessee

Map location number: 6

Weather: S:	Clear	O'cast	Fog	Rain	Pt. Cloudy	Mst. Cloudy	Snow	Frost
C:	Clear	O'cast	Fog	Rain	Pt. Cloudy	Mst. Cloudy	Snow	Frost

Temperature: H: 69.3

L: 51.6

Distance to water: 2.5 meters

Habitat conditions: (Natural / Altered) Deep forest ; untouched

Dominate vegetation: underbrush trees none

Thick leaf litter and many trees ; underbrush ; many down trees, especially pines

Landscape: Natural Grazed Mowed Logged Trail

Deep forest with no trail

Habitat Description: Location #6 was around the third creek back in Slagle Hollow.

Specimen Sheet

88

Date: 4 - 28 - 97

Trap line location number: 6

Trap number: 05

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042897 - 01

Measurements:

Total length: 148mm

Length of tail: 62

Length of hind foot: 17

Length of ear: 13

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 28 - 97

Specimen Sheet

89

Date: 4 - 28 - 97

Trap line location number: 6

Trap number: 19

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042897 - 02

Measurements:

Total length: 155mm

Length of tail: 68

Length of hind foot: 20

Length of ear: 14

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: under pine needles

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 28 - 97

Specimen Sheet

90

Date: 4 - 28 - 97

Trap line location number: 6

Trap number: 20

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042897 - 03

Measurements:

Total length: 153mm

Length of tail: 66

Length of hind foot: 19

Length of ear: 13

Found:

Under rock:___

log:___

roots:___

Leaf litter:___

Entrance hole:___

Other: under pine needles

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 28 - 97

Specimen Sheet

91

Date: 4 - 28 - 97

Trap line location number: 6

Trap number: 21

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042897 - 04

Measurements:

Total length: 160mm

Length of tail: 71

Length of hind foot: 19

Length of ear: 15

Found:

Under rock: _____

log: _____

roots: _____

Leaf litter: _____

Entrance hole: _____

Other: under pine tree

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 28 - 97

Specimen Sheet

92

Date: 4 - 28 - 97

Trap line location number: 6

Trap number: 49

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: Short-tailed Shrew

Scientific name: *Blarina brevicauda*

Specimen number: 042897 - 05

Measurements:

Total length: 103mm

Length of tail: 25

Length of hind foot: 14

Length of ear: --

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes: Died in trap ; female that was very pregnant

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 28 - 97

Location Sheet

93

Date: 4 - 29 - 97

Location number: 6

City: Bristol

Time:

set: 3:00

County: Sullivan

checked: 3:00

State: Tennessee

Map location number: 6

Weather: S:	Clear	O'cast	Fog	Rain	Pt. Cloudy	Mst. Cloudy	Snow	Frost
C:	Clear	O'cast	Fog	Rain	Pt. Cloudy	Mst. Cloudy	Snow	Frost

Temperature: H: 70.5

L: 46.9

Distance to water: 2.5 meters

Habitat conditions: (Natural / Altered) Deep forest ; untouched

Dominate vegetation: (underbrush) (trees) none

Thick leaf litter and many trees ; underbrush ; many down trees, especially pines

Landscape: (Natural) - Grazed Mowed Logged Trail

Deep forest with no trail

Habitat Description: Location #6 was around the third creek back in Slagle Hollow.

Specimen Sheet

94

Date: 4 - 29 - 97

Trap line location number: 6

Trap number: 03

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042997 - 01

Measurements:

Total length: 157mm

Length of tail: 72

Length of hind foot: 19

Length of ear: 14

Found:

Under rock: _____

log: ☒

roots: _____

Leaf litter: _____

Entrance hole: _____

Other:

Notes: Male

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 29 - 97

Specimen Sheet

95

Date: 4 - 29 - 97

Trap line location number: 6

Trap number: 10

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042997 - 02

Measurements:

Total length: 145mm

Length of tail: 55

Length of hind foot: 18

Length of ear: 13

Found:

Under rock: _____

log: ☒

roots: _____

Leaf litter: _____

Entrance hole: _____

Other:

Notes: Male

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 29 - 97

Specimen Sheet

96

Date: 4 - 29 - 97

Trap line location number: 6

Trap number: 19

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042997 - 03

Measurements:

Total length: 158mm

Length of tail: 63

Length of hind foot: 20

Length of ear: 21

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: under pine needles

Notes: Male

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 29 - 97

Specimen Sheet

97

Date: 4 - 29 - 97

Trap line location number: 6

Trap number: 24

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042997 - 04

Measurements:

Total length: 152mm

Length of tail: 67

Length of hind foot: 18

Length of ear: 15

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: under pine needles

Notes: Male

Name of collector: Gray Buckles

Others:

Signed: *Gray Buckles*

Date: 4 - 29 - 97

Specimen Sheet

98

Date: 4 - 29 - 97

Trap line location number: 6

Trap number: 32

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 042997 - 05

Measurements:

Total length: 150mm

Length of tail: 75

Length of hind foot: 19

Length of ear: 12

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 29 - 97

Specimen Sheet

99

Date: 4 - 29 - 97

Trap line location number: 6

Trap number: 31

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: Masked Shrew

Scientific name: *Sorex cinereus*

Specimen number: 042997 - 06

Measurements:

Total length: 105mm

Length of tail: 40

Length of hind foot: 12

Length of ear: --

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes: Died in trap

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 29 - 97

Location Sheet

100

Date: 4 - 30 - 97

Location number: 6

City: Bristol

Time:

set: 3:00

County: Sullivan

checked: 3:00

State: Tennessee

Map location number: 6

Weather: S: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost
C: Clear O'cast Fog Rain Pt. Cloudy Mst. Cloudy Snow Frost

Temperature: H: 77.4

L: 46.2

Distance to water: 2.5 meters

Habitat conditions: (Natural) Altered)

Deep forest ; untouched

Dominate vegetation: underbrush trees none

Thick leaf litter and many trees ; underbrush ; many down trees, especially pines

Landscape: Natural Grazed Mowed Logged Trail

Deep forest with no trail

Habitat Description: Location #6 was around the third creek back in Slagle Hollow.

Specimen Sheet

101

Date: 4 - 30 - 97

Trap line location number: 6

Trap number: 35

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 043097 - 01

Measurements:

Total length: 155mm

Length of tail: 72

Length of hind foot: 21

Length of ear: 15

Found:

Under rock: _____

log: ☒

roots: _____

Leaf litter: _____

Entrance hole: _____

Other:

Notes: Died in trap

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 30 - 97

Specimen Sheet

102

Date: 4 - 30 - 97

Trap line location number: 6

Trap number: 21

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 043097 - 02

Measurements:

Total length: 150mm

Length of tail: 70

Length of hind foot: 20

Length of ear: 15

Found:

Under rock: _____

log: _____

roots: _____

Leaf litter: _____

Entrance hole: _____

Other: under pine tree

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 30 - 97

Specimen Sheet

103

Date: 4 - 30 - 97

Trap line location number: 6

Trap number: 17

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 043097 - 03

Measurements:

Total length: 166mm

Length of tail: 76

Length of hind foot: 20

Length of ear: 16

Found:

Under rock: _____

log: ☒

roots: _____

Leaf litter: _____

Entrance hole: _____

Other:

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 30 - 97

Specimen Sheet

104

Date: 4 - 30 - 97

Trap line location number: 6

Trap number: 18

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 043097 - 04

Measurements:

Total length: 148mm

Length of tail: 69

Length of hind foot: 19

Length of ear: 15

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: pine needles

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 30 - 97

Specimen Sheet

105

Date: 4 - 30 - 97

Trap line location number: 6

Trap number: 19

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 043097 - 05

Measurements:

Total length: 161mm

Length of tail: 71

Length of hind foot: 18

Length of ear: 14

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: under pine needles

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 30 - 97

Specimen Sheet

106

Date: 4 - 30 - 97

Trap line location number: 6

Trap number: 20

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 043097 - 06

Measurements:

Total length: 156mm

Length of tail: 71

Length of hind foot: 18

Length of ear: 14

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: under pine needles

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 30 - 97

Specimen Sheet

107

Date: 4 - 30 - 97

Trap line location number: 6

Trap number: 24

Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 043097 - 07

Measurements:

Total length: 166mm

Length of tail: 77

Length of hind foot: 21

Length of ear: 17

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: under pine needles

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 30 - 97

Specimen Sheet

108

Date: 4 - 30 - 97

Trap line location number: 6

Trap number: 02 Number of traps in line: 71

Bait used: peanut butter ; oats

Species: Short-tailed Shrew

Scientific name: *Blarina brevicauda*

Specimen number: 043097 - 08

Measurements:

Total length: 103mm

Length of tail: 22

Length of hind foot: 13

Length of ear: --

Found:

Under rock: ____

log: ☒

roots: ____

Leaf litter: ____

Entrance hole: ____

Other:

Notes: Died in trap

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 30 - 97

Specimen Sheet

109

Date: 4 - 30 - 97

Trap line location number: 6

Trap number: 53 Number of traps in line: 71

Bait used: peanut butter ; oats

Species: White-footed Mouse

Scientific name: *Peromyscus leucopus*

Specimen number: 043097 - 09

Measurements:

Total length: 167mm

Length of tail: 77

Length of hind foot: 20

Length of ear: 16

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes:

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 30 - 97

Specimen Sheet

110

Date: 4 - 30 - 97

Trap line location number: 6

Trap number: 57 Number of traps in line: 71

Bait used: peanut butter ; oats

Species: Eastern Chipmunk

Scientific name: *Tamias striatus*

Specimen number: 043097 - 10

Measurements:

Total length: 245mm

Length of tail: 112

Length of hind foot: 36

Length of ear: --

Found:

Under rock: ____

log: ____

roots: ____

Leaf litter: ____

Entrance hole: ____

Other: underbrush

Notes: Died in trap

Name of collector: Gray Buckles

Signed: *Gray Buckles*

Others:

Date: 4 - 30 - 97



TENNESSEE WILDLIFE RESOURCES AGENCY

111

ELLINGTON AGRICULTURAL CENTER
P. O. BOX 40747
NASHVILLE, TENNESSEE 37204

SCIENTIFIC COLLECTION PERMIT March 15, 1997

Scientific Study Permit No.: 1154

Expires: March 14, 1998

Pursuant to authority of T.C.A. 70-2 213:

Name: Gray Buckles, Kevin Hamed
Address: PO Box 1189
County: Sullivan

Organization: Steele Creek Nature Ctr
City, State, Zip: Bristol, TN 37620
Telephone: 423 764-4023

is granted permission to take, possess, and transport, for purely scientific purposes, the following species and numbers of wildlife:

white footed mouse, smoky shrew, short tailed shrew, hairy tailed mole, pine vole and possibly other species

Date(s): March 97- March 98

Location(s): Steele Creek Park, Bristol, TN—Sullivan Co.

Summary of Need:

This project is designed to sample local populations of above mentioned species.

Collection Method(s):

Sherman Live Traps 67 small 2 x 2.5 x 6.5 inches 5 medium 3 x 3 x 9 inches. Traps will be checked frequently

Subject to the following restrictions: Annual report of collections by permit expiration, plus within 1 week for any E & T species inadvertently caught & released. The appropriate TWRA Regional Office must be notified within one week prior of collection from the wild, as follows:

Talbott: 1-800-332-0900

Gay T. Myers

Executive Director
Tennessee Wildlife Resources Ag.

Date: March 15, 1997

RMH:bh01066/sciperm/7KHamed.wp cc: TWRA Regional Office(s)

The State of Tennessee

AN EQUAL OPPORTUNITY EMPLOYER



The University of Memphis

Memphis, TN 38152-6080

Department of Biology
Campus Box 526080

901/678-2581
FAX 901/678-4746

25 April 1997

Gary Buckles
112 Hidden Valley Rd.
Bristol, TN 37620

Dear Gary:

Thanks for your recent letter. It was good to learn of your research project. The shrew you are collecting at Steele Creek Park will be Blarina brevicauda. Blarina brevicauda and B. carolinesis differ in chromosome number but are very similar morphologically. Blarina brevicauda, as it occurs in eastern Tennessee, is much larger than B. carolinesis. Blarina carolinesis is not known to occur in eastern Tennessee. A good reference book is "Handbook of Mammals of the South-central States" by J. R. Choate, J. K. Jones, Jr., and C. Jones.

In regard to the offer of your specimen, I would be pleased to have a specimen of Blarina from Steele Creek Park for our mammal collection. I have a graduate student (Ben Laseter) working in Unicoi Co. I will have him give you a call and work out some means of getting the specimen to us. I really appreciate you making the specimen available to us.

I hope your project goes well. If I can help you in any way, please let me know.

Sincerely,

Michael L. Kennedy
Professor

Star-nosed Mole	<i>Condylura cristata</i>
Yellownose (=Rock) Vole	<i>Microtus chrotorrhinus</i>
Woodland Jumping Mouse	<i>Napaeozapus insignis</i>
Small-footed Bat	<i>Myotis leibii</i>
Eastern Woodrat	<i>Neotoma floridana</i>
Hairy-tailed Mole	<i>Parascalops breweri</i>
Rafineque's (=Eastern) Big-eared Bat	<i>Plecotus rafinesquii</i>
Masked Shrew	<i>Sorex cinereus</i>
Longtail Shrew	<i>S. dispar</i>
Smoky Shrew	<i>S. fumeus</i>
Southeastern Shrew	<i>S. longirostris</i>
Water Shrew	<i>S. palustris</i>
Southern Bog Lemming	<i>Synaptomys cooperi</i>
Meadow Jumping Mouse	<i>Zapus hudsonius</i>

SECTION II. REGULATIONS

(1) Pursuant to Tennessee Code Annotated, Section 70-8-104(b):

(a) It shall be unlawful for any person to knowingly destroy the habitat of "Wildlife in Need of Management".

(b) The Executive Director of the Tennessee Wildlife Resources Agency may permit the taking, possession, transportation, exportation or shipment of species or subspecies on the list of "Wildlife in Need of Management" for scientific or educational purposes, for propagation in captivity or for other purposes to benefit the species.

(c) Upon good cause shown, and where necessary to alleviate damage to property, to protect human health and safety, "Wildlife in Need of Management" may be removed, captured, or destroyed but only pursuant to a permit issued by the Executive Director, and by and under supervision of an agent of the agency; provided these species may be removed, captured, or destroyed without permit by any person in emergency situations involving immediate threat to human life; provided that such unpermitted actions are immediately reported to a wildlife officer.

- Burt, William H., and Richard P. Grossenheider. A Field Guide to the Mammals. Boston: Houghton Mifflin Co. , 1980.
- Choate, Jerry R., J. Knox Jones Jr., and Clyde Jones. Handbook of Mammals of the South-Central States. Baton Rouge: Louisiana State University Press, 1994.
- Giles, Jack. Small Mammals of Washington and Unicoi Counties. 1969.
- Hall, Raymond E. and Keith R. Kelson. The Mammals of North America. 2 volumes. New York: Ronald Press Co., 1959.
- Kennedy, Dr. Michael. Written interview. 25 Apr. 1997.
- Linzey, Donald W. Mammals of Great Smoky Mountains National Park. Blacksburg: McDonald & Woodward, 1994.
- Nagle, Dr. Jerry. Personal interview. 22 Apr. 1997.
- Rowell, Brent. Natural History Inventory. 1972.
- Whitaker, John O. Jr. National Audubon Society Field Guide to North American Mammals. New York: Knopf, 1980.

Comparing 1972 vs. 1997

In 1972, Brent Rowell ran 400 trap nights between Aug. 9 - Aug 12.
Thirty-nine mammals were taken.

31 White-footed Mice
5 Short-tailed Shrews
2 Pine Voles
1 Smoky Shrew

In 1997, Gray buckles ran 287 trap nights between April 16 - April 20.
Seven mammals were taken.

6 White-footed Mice
1 Smoky Shrew

In 1972, 12.90 trap nights were required for one white-footed mouse.
In 1997, 47.83 trap nights were required for one white-footed mouse.

In 1972, 400 trap nights were required for one smoky shrew.
In 1997, 287 trap nights were required for one smoky shrew.

To have an accurate comparison, the research should be conducted again in the same location at the same time. The colder temperatures experienced during the 1997 survey affected the results.

MAMMAL STUDIES AT STEELE CREEK PARK

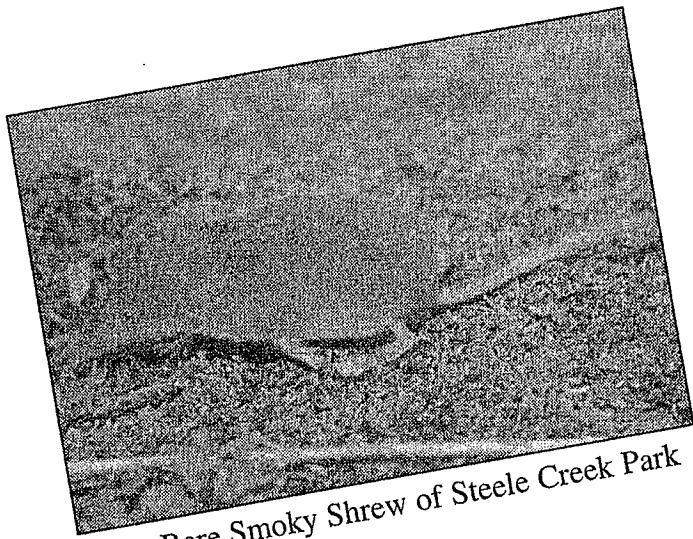
FREE AND ENTERTAINING SEMINAR

Presented by...

GRAY BUCKLES

May 22, 1997

**Steele Creek Park
Nature Center
Bristol, Tennessee
7:00 P.M.**



The Rare Smoky Shrew of Steele Creek Park



If you wish more information, please call
Bristol Tennessee Department of Leisure Services
(423) 764-4023

For All Ages, For All Nature Enthusiasts

You will be amazed at this presentation of mammal studies at Steele Creek Park. During the early Spring of 1997, Gray Buckles conducted Steele Creek Park's most comprehensive mammal survey.

He spent more than 24 nights and 1,700 trap nights capturing small mammals as part of the park's geographical and biological information research efforts. Buckles worked more than 240 hours researching and conducting field work in the park.

He has identified at least three species designated by the state of Tennessee as "species in need of management".

The research was conducted as a special study course at Tennessee High School and supervised by the park staff and volunteers.

About GRAY BUCKLES

He is a senior at Bristol Tennessee High School. His research is a special topics class under the Youth Apprenticeship Pilot Program of the Bristol Tennessee School System.

He plans to enter the University of Tennessee this fall where he will major in biology.

In 1996 he spent the summer with the Student Conservation Association in Alaska.

Buckles has been active at Tennessee High School as a member of the swimming team, Key Club and football team.

He is the son of Mr. & Mrs. Hugh Buckles of Bristol, Tennessee.