July 22, 2008

00-1142-BA-BN

Kimberly D. Bose Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Room 1A Washington, DC 20426

RE: Docket No. CP07-208-000

Rockies Express Pipeline LLC, REX-East Project

Supplemental Information

Ms. Bose:

On May 30, 2008, the Federal Energy Regulatory Commission ("FERC" or "Commission"), pursuant to Section 7(c) of the Natural Gas Act and Part 157 of the Commission's regulations, issued Rockies Express Pipeline LLC ("Rockies Express") a certificate of public convenience and necessity to construct and operate the REX-East project ("May 30 Order" or "Order"). On June 2, 2008, Rockies Express, pursuant to Section 157.20(a) of the Commission's Regulations, 18 C.F.R. § 157.20(a), notified the Commission that it accepted the Commission's Order.

Rockies Express hereby files supplemental information for the REX-East Project consistent with the requirements of Environmental Condition No. 89 of the May 30 Order. Enclosed for filing are the following items:

- agency correspondence related to biological species survey report submittals (Attachment A); and
- the biological species survey report entitled Surveys For The Indiana Bat (Myotis Sodalis) Within The Proposed Rex-East Pipeline Corridor In Ohio; Addendum To 2007 Report.

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¹ Rockies Express Pipeline LLC, 123 FERC 9 61,234 (2008)

Rockies Express is filing an original and seven (7) copies of all Public Information. In addition, Rockies Express is providing complete copies of this filing directly to the FERC Project Manager. If you have any questions, please do not hesitate to contact me.

Respectfully spbmitted,

Shippen Howel Van Ness Foldman, P.C.

1050 Thomas Jefferson Street, NW

Washington, DC 20007

Attorney for Rockies Express Pipeline LLC

Attachments

cc: Laura Turner, FERC

All Parties

Rockies Express Pipeline LLC REX-East Project CP07-208

ATTACHMENT A

Public



July 18, 2008

Angela Boyer
U.S. Fish and Wildlife Service
6950 Americana Parkway, Suite H
Reynoldsburg, OH 43068

Re: Rockies Express Pipeline - East Project

Final Survey Report for the Indiana Bat (East of Milepost 444.0)

Dear Ms. Boyer,

As you are aware from past consultation, Rockies Express Pipeline LLC (Rockies Express) is proposing to construct the Rockies Express Pipeline — East Project (REX-East), a 42-inch-diameter natural gas pipeline, from Missouri to Ohio. The purpose of this letter is to present the attached report titled "Surveys for the Indiana Bat (Myotis sodalis) within the Proposed REX-East Pipeline Corridor in Ohio; Addendum to 2007 Report" dated July 16, 2008. This is an addendum to last year's report dated September 19, 2007. This report includes a summary of all Indiana bat surveys that were conducted east of milepost (MP) 444.0 in 2008.

Indiana bat survey and monitoring activities in Ohlo east of MP 444.0 in 2008 included mist net surveys at 20 sites within 8 Indiana bat habitat units. The following table summarizes Indiana bat survey activities conducted in Ohlo between June 14 and July 3, 2008. Four Indiana bats were captured during surveys, including 1 pregnant female, 1 non-reproductive female, and 2 non-reproductive males. Both female bats were fitted with radio transmitters and tracked to roosts north of the REX-East pipeline right-of-way. Radio telemetry of captured male Indiana bats was not required under the approved study plan.

		Rockies	Express Pipeline East Project							
Indiana Bat Survey Activities Conducted in Ohlo East of NP 444.0 in 2005										
County, State	Indiane But Habitat Unit	Milepost Plange	Survey Results							
Clinton, OH	TEH-OH-10.9	466.7 - 467.1	One mist not site was surveyed. Two female indiana bats were captured and each was tracked to a different roost. Soft spess are off of the right-of-way, and the closest is approximately 1,200 feet north. No emergence counts were conducted due to limited property access.							
Fayette / Picksway, Ohio	TEH-OH-14.5	489.3 - 500.8	Two mist not sizes were surveyed. One male Indians but was captured and was not tracked.							
Muskingum, OH	TEH-OH-25.0	577.5 - 57 8.9	Three mist not sites were surveyed. No indigns bets were captured.							
Muskingum, OH	TEH-OH-27.0	500.2 - 503.5	Five mist not situs were surveyed. No Indiana bats were captured.							
Muskingum, OH	TEH-OH-28.0	506.0 - 540.2	Three miet not also were surveyed. No Indiana bats were captured.							
Guerneey, OH	TEH-OH-\$1.0	601.0 - 601.2	One mist not site was surveyed. No indicate bein were captured.							
Noble, OH	TEH-OH-32.7	614.1 - 614.3	One mist not alto was surveyed. No inclient bats were captured.							
Seimont, OH	TEH-OH-33.0	RR 2010 MP 619.8 + 0.6 RR 2010 MP 619.8 + 5.6	(Barrepville Reroute) Four mist not sites were surveyed. One male indiana but was captured and was not tracked.							

Ms. Angela Boyer July 18, 2008 Page 2 of 2

As stipulated in the Federal Energy Regulatory Commission's (FERC's) Biological Assessment (BA) for the REX-East Project, dated March 25, 2008 and the FWS's concurrence letter to the FERC, dated April 24, 2008, no further action is necessary at habitat units TEH-OH-25.0, TEH-OH-27.0, TEH-OH-28.0, TEH-OH-31.0, or TEH-OH-32.7 due to the absence of Indiana bats. In addition, no further action is necessary at habitat unit TEH-OH-10.9 because newly documented roosts are more than 300 feet away from the project workspace. Finally, no further action is necessary at habitat units TEH-OH-14.5 or TEH-OH-33.0 because bats captured within those habitat units were males whose tracking was not required under the approved study plan.

Rockies Express believes the completion of surveys as described above will conclude all measures necessary to avoid adversely impacting the Indiana bat in Ohio. If the project changes or additional measures relating to the Indiana bat are necessary, Rockies Express will contact you. If you have any questions or comments, please contact me at 614-866-7048 or by email at jimt@caprockenvironmental.com.

Thank you for your assistance.

Sincerely,

Jim Thompson

Environmental Contractor for Rockies Express

Enclosed:

Surveys for the Indiana Bat (Myotis sodalis) within the Proposed REX-

East Pipeline Corridor in Ohio; Addendum to 2007 Report

CC:

Charlie Bertram, Environmental Contractor for Rockles Express Pipeline

Carly Lapin, NRG Jeff Thommes, NRG



ORIGINAL

PN: 1786.002-001

July 16, 2008

SURVEYS FOR THE INDIANA BAT (MYOTIS SODALIS) WITHIN THE PROPOSED REX-EAST PIPELINE CORRIDOR IN OHIO; ADDENDUM TO 2007 REPORT

Prepared for:
Natural Resource Group, LLC
1000 IDS Center
80 South Eighth Street
Minneapolis, Minnesota 55402

Prepared by: BHE Environmental, Inc. 11733 Chesterdale Rd. Cincinnati, Ohio 45246-4131 Phone: 513.326,1500 www.bheenvironmental.com

Notice: This report has been prepared by BHE Environmental, inc., solely for the benefit of its client in accordance with an approved scope of work. BHE assumes no liability for the unauthorized use of this report or the information contained in it by a third party. Copyright © 2008 BHE Environmental, inc.

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EXECUTIVE SUMMARY

BHE Environmental, Inc. (BHE) was contracted by Natural Resource Group, LLC (NRG) on behalf of Rockies Express Pipeline LLC to conduct Indiana bat monitoring and surveys at sites along the Rockies Express Pipeline-East (REX-East) project route in Ohio, east of milepost 444, generally from northwestern Clinton County to the eastern extent of the route in Ohio in northeastern Monroe County. Activities included conducting mist net surveys at 20 sites and radio tracking of Indiana bats captured during surveys. These activities were conducted based upon guidance provided by the USFWS, Reynoldsburg, Ohio Field Office, and following study plans drafted by BHE and approved by USFWS. Between June 14 and July 3, 2008, BHE conducted mist net surveys for Indiana bats at 20 sites in Ohio. One hundred and twenty-six bats were captured during the survey, including four Indiana bats. Two of the bats were males and were not tracked; two were females that were tracked to roosts north of the REX-East pipeline right-of-way.

1.0 INTRODUCTION

In spring 2006, Natural Resource Group, LLC (NRG) contracted BHE Environmental, Inc. (BHE) to conduct mist net surveys to assess the presence of Indiana bats (*Myotis sodalis*) within the proposed REX-East pipeline route crossing parts of Missouri, Illinois, Indiana, and Ohio. BHE worked with NRG to draft a series of study plans addressing proposed Indiana bat surveys on the REX-East pipeline route within each state, and these study plans were submitted to state Field Offices of the U.S. Fish and Wildlife Service (USFWS) for their comment and concurrence. In 2007, 161 sites along the pipeline corridor route were surveyed, resulting in the capture of 26 Indiana bats. Of those, 14 Indiana bats were tracked using radio telemetry, and 11 roost trees were located. Survey and radio telemetry methods were based upon guidance provided by the USFWS. The methods and results of the 2007 mist net survey were provided in the report entitled *Mist Net Survey for the Indiana Bat within the Proposed REX-East Pipeline Corridor in Four States*, dated September 19, 2007 (BHE 2007). In 2008, NRG requested that BHE conduct follow-up surveys along the REX-East pipeline corridor, including mist net surveys along new alignments.

This report documents Indiana bat survey and monitoring activities conducted in Ohio east of pipeline milepost (MP) 444, generally from northwestern Clinton County to the eastern extent of the route in Ohio in northeastern Monroe County, in 2008. All background information, description of methods, and results contained in the 2007 report are hereby incorporated by reference.

2.0 METHODS

Eight Habitat Units were identified for mist netting in 2008 (Table 1). Mist net site selection and methods followed Indiana Bat Recovery Plan guidelines (USFWS 2007; Appendix A) and a study plan approved by the USFWS Field Office in Reynoldsburg, Ohio. Equipment and setup followed Gardner et al. (1989). Timing of the survey and conditions in the field were appropriate for investigating presence of Indiana bats during the maternity season. A detailed description of mist net and radio telemetry methods may be found in Mist Net Survey for the Indiana Bat within the Proposed REX-East Pipeline Corridor in Four States dated September 19, 2007 (BHE 2007).

3.0 RESULTS AND DISCUSSION

3.1 MIST NETTING

Twenty mist net sites were surveyed within eight Habitat Units in Ohio in 2008 (Figure 1, Table 1). Habitat Units were located along the REX-East pipeline corridor in Clinton, Fayette, Pickaway, Muskingum, Guernsey, Noble, and Belmont counties, Ohio.

Table 1. Habitat Units and mist net sites surveyed on the REX-East pipeline corridor east of MP 444 in Ohio in 2008.

County	Habitat Unit	Mileposts	Mist Net Site ID
	-		
Clinton	TEH-OH-10.9	466.7-467.1	TEH-MN-OH-466A
Fayette &	TEH-OH-14.5	499.3-500.9	TEH-MN-OH-499A
Pickaway		17712 20017	TEH-MN-OH-500A
			TEH-MN-OH-577A
Muskingum	TEH-OH-25.0	577.5-578.9	TEH-MN-OH-578A
_			TEH-MN-OH-5788
-			TEH-MN-OH-580A
	TEH-OH-27.0		TEH-MN-OH-581A
Muskingum		580.2-583.5	TEH-MN-OH-581B
-			TEH-MN-OH-582A
			TEH-MN-OH-583A
<u></u>	TEH-OH-28.0	586.9-588.2	TEH-MN-OH-586A
Muskingum			TEH-MN-OH-587A
·			TEH-MN-OH-5878
Guernsey	TEH-QH-31.0	601.0-601.2	TEH-MN-OH-600A
Noble	TEH-OH-32.7	614.1-614.3	TEH-MN-OH-614A
		-	TEH-MN-OH-BR-000A
Dalmast	TEH-OH-33.0		TEH-MN-OH-BR-001A
Belmont	(Barnesville Reroute)	BR 0.6-BR 5.6	TEH-MN-OH-BR-003A
			TEH-MN-OH-BR-005A

3.1.1 Habitat Unit TEH-OH-10.9

Habitat Unit TEH-OH-10.9 is located in Clinton County, Ohio. The Habitat Unit stretches from MP 466.7 to MP 467.1, approximately 0.4 mile (0.64 kilometer) in length. Following guidelines established in the Indiana Bat Draft Recovery Plan, one mist net site was established within the Unit. A description of the site follows; sketches and detailed descriptions of all sites are provided in Appendix B.

TEH-MN-OH-466A was surveyed on June 14, 15, and 16, 2008. Both mist nets were placed over ATV traits near a pond within a woodlot. Dominant canopy trees at the mist net site included black walnut (Jugians nigra), American sycamore (Platanus occidentalis), and hickory (Carya sp.). The dominant understory species were black cherry (Prunus serotina), sugar maple (Acer saccharum), and elm (Ulmus sp.).

3.1.2 Habitat Unit TEH-OH-14.5

Habitat Unit TEH-OH-14.5 is located in Fayette and Pickaway counties, Ohio. The Habitat Unit stretches from MP 499.3 to MP 500.9, approximately 1.6 miles (2.5 kilometers) in length, and is partially forested. Following guidelines established in the Indiana Bat Draft Recovery Plan, two mist net sites were established within the Unit. Descriptions of the sites follow; sketches and detailed descriptions of all sites are provided in Appendix B.

TEH-MN-OH-499A was surveyed on June 20 and 21, 2008. Both mist nets were placed over gaps in a tree line, surrounded by agricultural field. Dominant canopy trees at the mist net site included black walnut, cottonwood (*Populus deltoides*), and white ash (*Fraxinus americana*). The dominant understory species were American plum (*Prunus americana*), and autumn olive (*Elaeagnus umbellata*).

TEH-MN-OH-500A was surveyed on June 18 and 19, 2008. Both nets were placed across a horseback riding trail in a woodlot. Dominant tree canopy species at the site were white ash, slippery elm (*Ulmus rubra*), and black oak (*Quercus velutina*). Dominant understory species included autumn olive, silky dogwood (*Cornus amomum*), and hawthorn (*Crataegus* sp.).

3.1.3 Habitat Unit TEH-OH-25.0

Habitat Unit TEH-OH-25.0 is located in Muskingum County, Ohio. The Habitat Unit stretches from MP 577.5 to MP 578.9, approximately 1.4 miles (2.25 kilometers) in length, and is entirely forested. Following guidelines established in the Indiana Bat Draft Recovery Plan, three mist net sites were established within the Unit. Descriptions of the sites follow; sketches and detailed descriptions of all sites are provided in Appendix B.

TEH-MN-OH-577A was surveyed on June 16 and 17, 2008. Both nets were placed across gravel driveways through the woodlot. Dominant tree canopy species at the mist net site included black locust (*Robinia pseudoacacia*), black walnut, and tulip poplar (*Liriodendron tulipifera*). Dominant understory species included sugar maple, box elder (*Acer negundo*), and flowering dogwood (*Cornus florida*).

TEH-MN-OH-578A was surveyed on June 16 and 17, 2008. Both nets were placed across a dirt logging road through the woodlot. Dominant tree canopy species at the site included sugar maple, red maple (*Acer rubra*), and shagbark hickory (*Carya ovata*). Dominant understory species included sugar maple, white oak (*Quercus alba*), and tulip poplar.

TEH-MN-OH-578B was surveyed on June 18 and 19, 2008. Both nets were placed across dirt logging roads through the woodlot. Dominant tree canopy species at the site included tulip poplar, post oak (*Quercus stellata*), and white oak. Dominant understory species included sassafras (*Sassafras albidum*), tulip poplar, and alternate-leaved dogwood (*Cornus alterniflora*).

3.1.4 Habitat Unit TEH-OH-27.0

Habitat Unit TEH-OH-27.0 is located in Muskingum County, Ohio. The Habitat Unit stretches from MP 580.2 to MP 583.5, approximately 3.3 miles (5.3 kilometers) in length, and is mostly forested. Following guidelines established in the Indiana Bat Draft Recovery Plan, five mist net sites were established within the Unit. Descriptions of the sites follow; sketches and detailed descriptions of all sites are provided in Appendix 8.

TEH-MN-OH-580A was surveyed on June 18 and 19, 2008. One net was placed in an opening in the woodlot and the other net was placed across a grass lane through the woodlot. Dominant tree canopy species at the mist net site included honey locust (*Gleditsia triacanthos*), sycamore, and black walnut. Dominant understory species included sassafras, honey locust, and hackberry (*Celtis occidentalis*).

BHE Environmental, Inc. PN: 1786.002-001 TEH-MN-QH-581A was surveyed on June 18 and 19, 2008. One net was placed across a dirt driveway through the woodlot and the other net was placed across a grass gas line right-of-way through the woodlot. Dominant tree canopy species at the mist net site included red oak, black cherry, and shagbark hickory. Dominant understory species included sugar maple, black walnut, and black cherry.

TEH-MN-OH-5818 was surveyed on June 20 and 22, 2008. Both nets were placed across a maintained right-of-way through the woodlot. Dominant tree canopy species at the mist net site included red oak, white oak, and white pine (*Pinus strobus*). Dominant understory species included sassafras, sugar maple, and tulip poplar.

TEH-MN-OH-582A was surveyed on June 20 and 22, 2008. Both nets were placed across Buffalo Creek. Dominant tree canopy species at the mist net site included sycamore, black walnut, and black oak. Dominant understory species included box elder, sugar maple, and Ohio buckeye (Aesculus glabra).

TEH-MN-OH-583A was surveyed on June 20 and 25, 2008. One net was placed in an opening in the woodlot and the other net was placed across Williams Fork. Dominant tree canopy species at the mist net site included green ash (*Fraxinus pennsylvanica*), sycamore, and honey locust. Dominant understory species included box elder, honey locust, and Ohio buckeye.

3.1.5 Habitat Unit TEH-OH-28.0

Habitat Unit TEH-OH-28.0 is located in Muskingum County, Ohio. The Habitat Unit stretches from MP 586.9 to MP 588.2, approximately 1.3 miles (2 kilometers) in length, and is entirely forested. Following guidelines established in the Indiana Bat Draft Recovery Plan, three mist net sites were established within the Unit. Descriptions of the sites follow; sketches and detailed descriptions of all sites are provided in Appendix B.

TEH-MN-OH-586A was surveyed on June 23 and 24, 2008. One net was placed across a maintained grass field among scattered trees and the other net was placed across a gravel access road. Dominant tree canopy species at the mist net site included honey locust, choke cherry (*Prunus virginiana*), and red oak. Dominant understory species included honey locust, sassafras, and pignut hickory (*Carya glabra*).

TEH-MN-OH-587A was surveyed on June 23 and 24, 2008. Both nets were placed across a small creek through the woodlot. Dominant tree canopy species at the mist net site included sycamore, honey locust, and sugar maple. Dominant understory species included honey locust, Osage orange (*Maclura pomifera*), and sugar maple.

TEH-MN-OH-587B was surveyed on June 23 and 24, 2008. One net was placed across a temporary access road though the woodlot and the other net was placed across a logging road through the woodlot. Dominant tree canopy species at the mist net site included black walnut, tulip poplar, and honey locust. Dominant understory species included Osage orange, hazel alder (Alnus serrulata), and cherry silverberry (Elaeognus multiflora).

3.1.6 Habitat Unit TEH-OH-31.0

Habitat Unit TEH-OH-31.0 is located in Guernsey County, Ohio. The Habitat Unit stretches from MP 601.0 to MP 601.2 approximately 0.1 mile (0.16 kilometer) in length, and is mostly

forested. Following guidelines established in the Indiana Bat Draft Recovery Plan, one mist net site was established within the Unit. A description of the site follows; a sketch and detailed description is provided in Appendix B.

TEH-MN-OH-600A was surveyed on June 26, 27, and 28, 2008. One net was placed in along a tree line and across an opening in the woodlot and the other net was placed across an ATV trail through the woodlot. Dominant tree canopy species at the mist net site included black walnut, shagbark hickory, and white oak. Dominant understory species included redbud (Cercis canadensis), white ash, and black cherry.

3.1.7 Habitat Unit TEH-OH-32.7

Habitat Unit TEH-OH-32.7 is located in Noble County, Ohio. The Habitat Unit stretches from MP 614.1 to MP 614.3 approximately 0.2 mile (0.32 kilometer) in length, and is mostly forested. Following guidelines established in the Indiana Bat Draft Recovery Plan, one mist net site was established within the Unit. A description of the site follows; a sketch and detailed description is provided in Appendix B.

TEH-MN-OH-614A was surveyed on July 1 and 2, 2008. Both nets were placed along a tree line extending into an open field. Dominant tree canopy species at the mist net site included black locust, tree-of-heaven (*Ailanthus altissima*), and black cherry. Dominant understory species included flowering dogwood and black raspberry (*Rubus occidentalis*).

3.1.8 Habitat Unit TEH-OH-33.0

Habitat Unit TEH-OH-33.0, also known as the Barnesville Reroute, is located in Belmont County, Ohio. The Habitat Unit stretches from MP BR 0.6 to MP BR 5.6, approximately 5 miles (B kilometers) in length, and approximately half is forested. Following guidelines established in the Indiana Bat Draft Recovery Plan, four mist net sites were established within the Unit. Descriptions of the sites follow; sketches and detailed descriptions of all sites are provided in Appendix B.

TEH-MN-OH-BR-000A was surveyed on June 25, 26, and 27, 2008. Both nets were placed within the woodlot. Dominant tree canopy species at the mist net site included black cherry, sugar maple, and tulip poplar. Dominant understory species included sugar maple, sassafras, and hawthorn.

TEH-MN-OH-BR-001A was surveyed on June 25, 26, and 27, 2008. Both nets were placed across a dirt road through the woodlot. Dominant tree canopy species at the mist net site included black walnut, honey locust, and shingle oak (*Quercus imbricaria*). Dominant understory species included black walnut, honey locust, and crabapple (*Malus sylvestris*).

TEH-MN-OH-BR-003A was surveyed on June 29 and 30, 2008. Both nets were placed grass lane through the woodlot. Dominant tree canopy species at the mist net site included sugar maple, white oak, and black walnut. Dominant understory species included sugar maple, hawthom, and white oak.

TEH-MN-OH-BR-005A was surveyed on June 29 and 30, 2008. Both nets were placed across a farm lane through the woodlot. Dominant tree canopy species at the mist net site included

white oak, shagbark hickory, and red oak. Dominant understory species included Ohio buckeye, sugar maple, and hawthorn.

3.1.9 Bat Captures

A total of 126 bats, representing seven species, were captured from the 20 mist net sites, including four Indiana bats (Table 2, Table 3; Appendix B):

Little brown bat (M. lucifugus, n=44; 35% of total capture)

Red bat (Lasiurus borealis, n=28; 22% of total capture)

Big brown bat (Eptesicus fuscus, n=22; 17% of total capture)

Northern long-eared bat (Myotis septentrionalis, n=15, 12% of total capture)

Eastern pipistrelle (Perimyotis subflavus, n=12; 10% of total capture)

Indiana bat (M. sodalis, n=4; 3% of total capture)

Hoary bat (L. cinereus, n=1; <1% of total capture)

Table 2. Indiana bats captured on REX-East pipeline east of MP 444 in Ohio in 2008.

Net Site ID	County	Capture Date, Time	Sex	Reproductive Condition	Band	Transmitter Frequency
TEH-MN-OH-466A	Clinton	June 15, 0010	F	Pregnant	ODNR 12030	172.225
TEH-MN-OH-466A	Clinton	June 16, 0010	F	Nonreproductive	ODNR 12029	172.177
TEH-MN-OH-499A	Fayette	June 20, 2240	M	Nonreproductive	ODNR 12028	N/A
TEH-MN-OH-BR-001A	Belmont	June 27, 2305	M	Nonreproductive	ODNR 12016	N/A

LARGE-FORMAT IMAGES

One or more large-format images (over 8 ½" x 11") go here. These images are available in e-Library at:

Accession Number(s) 20080723-0173
PUBLIC CEII PRIVILEGED
File Date
Docket No. <u>CP07-208</u>
Parent Accession No.
20080723.0172
Number of page (s) in set:

REVISED: 11/06 DLBA

At least one bat was captured at 17 of the 20 net sites. The greatest number of bats (n = 25) was captured at site TEH-MN-OH-581B, and the greatest number of species (n = 6) was captured at site TEH-MN-OH-582A. Age class, sex, and reproductive status of the captured bats are shown in Table 3.

Four Indiana bats were captured during the surveys (Table 2). Indiana bats were captured at three out of 20 sites, and captures included one pregnant female, one non-reproductive female, and two nonreproductive males. BHE placed ODNR-supplied metal bands on all four bats (Table 2). The two captured female Indiana bats were fitted with radio transmitters and tracked, as described in Section 3.2 (below). Radio telemetry of captured male Indiana bats was not required under the approved study plan.

Temperatures during mist netting activities ranged from a high of 76° F (24.4° C) to a low of 50° F (10° C) and were within the range recommended by the survey protocol (USFWS 2007; Appendix A). During mist netting, sky conditions ranged from clear to overcast, and mist netting was suspended or postponed on a number of nights due to rain. Moon phases from new to full were observed during the course of the survey. Wind speeds varied but were generally low (1 to 2 miles per hour, or 1.6 to 3.2 kilometers per hour) through the survey.

3.2 RADIO TELEMETRY

Daytime radio telemetry was conducted on two Indiana bats from one mist net site, to locate roost trees. One of the bats was a pregnant female, and one was a nonreproductive female. Description of radio tracking of each bat follows; bats are referred to by the frequency of their radio transmitter.

3.2.1 Bat 172.225

Bat 172.225, a pregnant female, was captured the early morning of June 15 from site TEH-MN-OH-466A in Clinton County, Ohio. The bat was tracked to a roost approximately 1,200 feet north of the REX-East right-of-way (Figure 2). The roost was located on a tract that was inaccessible to BHE biologists, thus the approximate general location of the roost tree was estimated using triangulation. Compass bearings of the signal were taken from multiple locations surrounding the tree and the estimated location of the roost was calculated. Because the roost itself was inaccessible, the tree was not marked and no emergence counts were conducted. Bat 172.225's radio signal was detected from this area on June 15, 16, and 17.

3.2.2 Bat 172.177

Bat 172.177, a nonreproductive female, was captured the early morning of June 17 from site TEH-MN-OH-466A in Clinton County, Ohio. The bat was tracked to a roost approximately 3,250 feet north of the REX-East right-of-way (Figure 2). The roost was found to be a utility pole located on private property, northeast of MP 468, thus the roost was named TEH-RT-OH-468A. Bats were roosting underneath a length of plastic tubing attached to the pole, approximately two feet above the ground. Bat guano was abundant in the tubing and on the ground at the time of the survey. The pole is visible from an adjacent public road (Hiney Road) but is located on private property and thus not accessible to 8HE biologists.

Photographs (Appendix C) and a GPS point were taken from the public road, but the pole was not marked and no emergence counts were conducted. Bat 172.177's radio signal was detected from this post on June 17, 18, and 19.

Two male Indiana bats were captured at other sites on the REX-East pipeline corridor (Figure 3, Figure 4). Per the study plan, no transmitters were attached and the bats were not tracked.

3.3 DISCUSSION

Four Indiana bats were captured in Clinton, Fayette, and Belmont counties during surveys in 2008 (Table 2). Belmont County has one previous record of an Indiana bat, captured during 2007 surveys on the REX-East pipeline corridor (BHE 2007). The captures in Clinton and Fayette counties are the first known Indiana bat records for those counties.

In Clinton County, Bat 172.225 was detected roosting in a wooded area less than one mile from the capture site and bat 172.177 was tracked to a roost slightly over a mile from the capture site, distances which are not uncommon among Indiana bats. Home range size of Indiana bats varies in the literature; a study conducted in Michigan found 13 distinct foraging areas used by Indiana bats that were up to 2.6 miles (4.2 kilometers) away from a day roost (Murray and Kurta 2004). Another study in Michigan radio tracked a female Indiana bat to two roost trees located 1.3 miles and 0.6 mile (2.1 kilometers and 0.93 kilometers) from the point of capture (Winhold et al. 2005).

The second Clinton County bat, Bat 172.177 was found to be roosting in a plastic tube attached to a utility pole. Though a utility pole is an unusual roost for an Indiana bat, this type of roost has been documented in the past. A maternity colony of Indiana bats was observed roosting under the plastic guard that covers the ground wire of a light pole in Indiana (V. Brack unpublished data as cited in Whitaker et al. 2006). Another maternity colony in Indiana was found roosting under the plastic guard on an electric utility pole (Hendricks et al. 2005). A male adult Indiana bat was found roosting under the metal bracket of three different utility poles in Arkansas (Harvey et al. 2002). In addition to Indiana bats, other species, such as northern long-eared bats (Myotis septentrionalis; Sparks et al. 2004) and big brown bats (Eptesicus fuscus; Winterhalter 2004), have been reported to roost in utility poles.

Roosts used by the female indiana bats tracked during this study were not located on the REX-East pipeline right-of-way. 4.0 LITERATURE CITED

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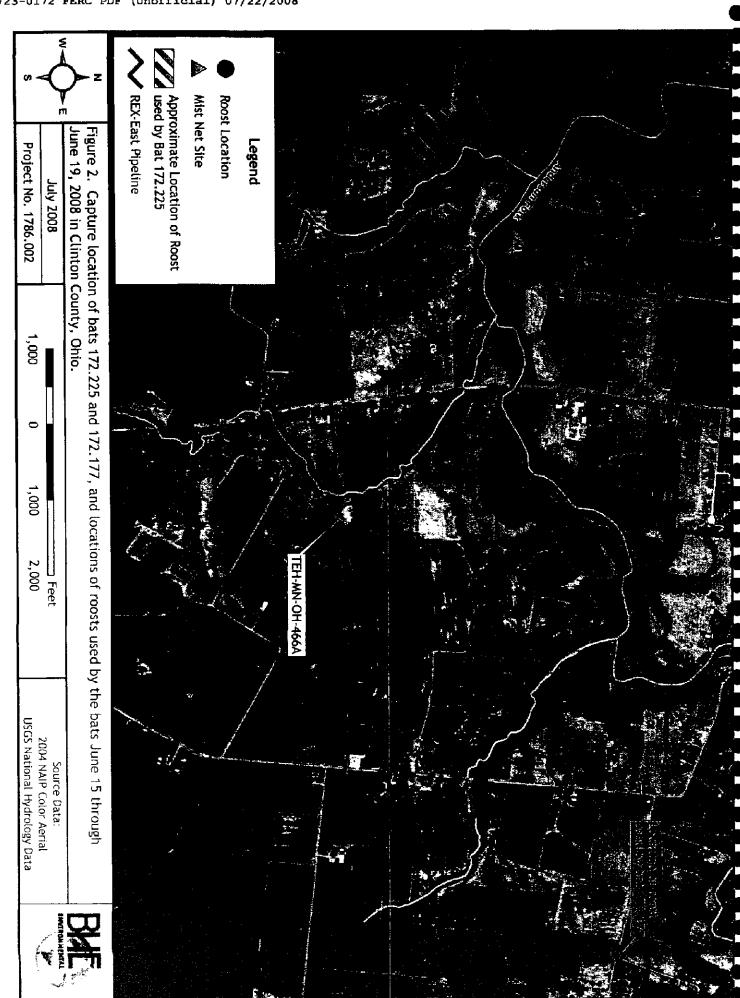
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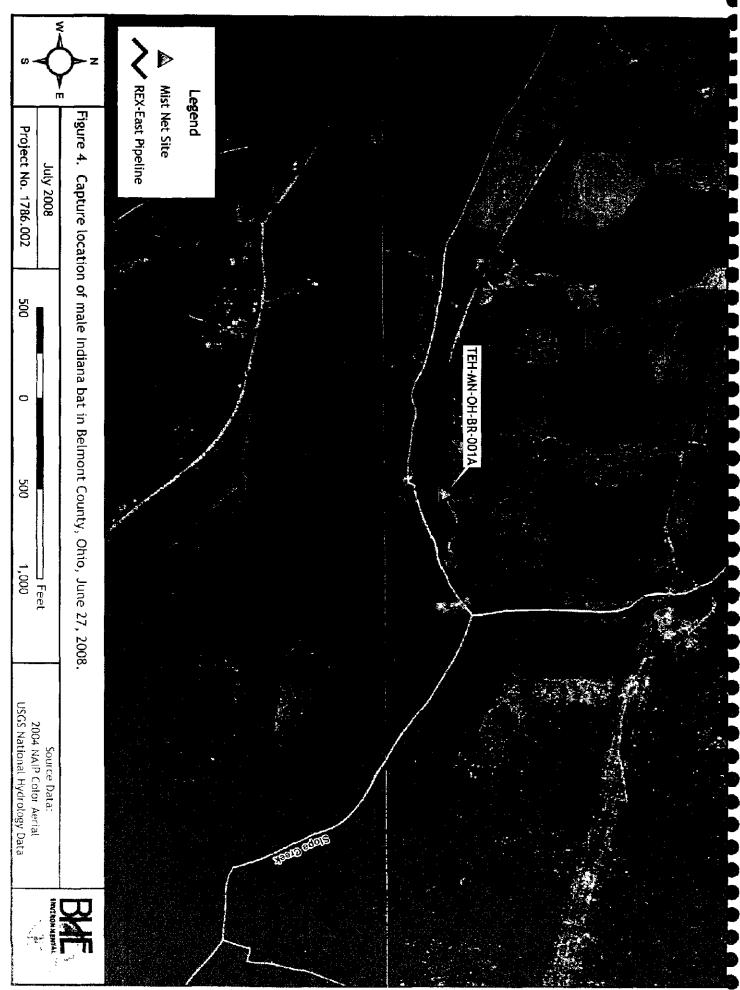
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GUIDELINES FOR MIST NETTING INDIANA BATS

These guidelines were prepared by the Indiana Bat Recovery Team and are presented in the Indiana Bat (Myotis sodalis) Revised Recovery Plan (USFWS 2007).

RATIONALE

A typical mist-net survey is an attempt to determine presence or probable absence of the species; it does not provide sufficient data to determine population size or structure. Following these guidelines will standardize procedures for mist netting. It will help maximize the potential for capture of Indiana bats at a minimum acceptable level of effort. Although the capture of bats confirms their presence, failure to catch bats does not absolutely confirm their absence. Netting effort as extensive as outlined below usually is sufficient to capture Indiana bats if they are present. However, there have been instances in which additional effort yielded detection when the standard effort did not. The Service accepts the results of these surveys to determine presence for the purposes of Section 7 consultation.

NETTING SEASON: May 15 - August 15

May 15-August 15 are acceptable limits for documenting the presence of summer populations of Indiana bats, especially maternity colonies. (However, see Kiser and MacGregor 2005 for precautions regarding early-season surveys between May 15 and June 1, as well as late-season surveys between August 1 and August 15). Capture of reproductive adult females (i.e., pregnant, lactating, or post-lactating) and/or young of the year during the May 15-August 15 period indicates that a nursery colony is active in the area. Outside these dates, even when Indiana bats are caught, data should be carefully interpreted. Particularly if only a single bat is captured, it may be a transient or migratory individual.

EQUIPMENT

Mist nets to be used for Indiana bat surveys should be the finest, lowest visibility mesh commercially available: 1) In the past, this was 1 ply, 40 denier monofilament-denoted 40/1; 2) Currently, monofilament is not available and the finest on the market is 2 ply, 50 denier nylon denoted 50/2; 3) The finest mesh size available is approximately 38 mm (~1 1/2 in).

No specific hardware is required. There are many suitable systems of ropes and/or poles to hold the nets. The system of Gardner et al. (1989) has been widely used. See NET PLACEMENT below for minimum net heights, habitats, and other netting requirements that affect the choice of hardware

NET PLACEMENT

Potential travel corridors such as streams or logging trails typically are the most effective places to net. Place the nets approximately perpendicular across the corridor. Nets should fill the corridor from side to side and from stream (or ground) level up to the overhanging canopy. A typical set is 7 m high consisting of three or more nets stacked on top one another and up to 20 m wide. (Different width nets may be purchased and used as the situation dictates.)

Occasionally it may be desirable to net where there is no good corridor. Take caution to get the nets up into the canopy. The typical equipment described in the section above may be inadequate for these situations, requiring innovation on the part of the observers.

See Kiser and MacGregor (2005) for additional discussion of net placement.

Appendix A

RECOMMENDED NET SITE SPACING

Stream corridors one net site per km of stream.

Study areas other than stream corridors-two net sites per square km of habitat.

MINIMUM LEVEL OF EFFORT

A "net night" is defined as one net set up for one night. Netting at each site should include at least four net nights, consisting of: 1) a minimum of two net locations at each site (at least 30 m apart, especially in linear habitat such as a stream corridor); and 2) a minimum of two nights of netting (i.e., two net locations for two nights = four net nights per site). The sample period should begin at sunset; net for at least 5 hours (longer sample periods may improve success). For purposes of determining presence or probable absence of Indiana bats, four net nights at a site are not required if Indiana bats are caught sooner (i.e., if Indiana bats are caught on the first night of netting, a second night is not required).

CHECKING NETS

Each net should be checked approximately every 10 minutes. Some researchers prefer continuous monitoring (with or without an electronic bat detector); care must be taken to avoid noise and movement near the nets if this technique is used. When monitoring the site continuously with a bat detector, bats can be detected immediately when they are captured in the net. Prompt removal from the net decreases stress on the bat and potential for the bat to escape (MacCarthy et al. 2006). Monitoring the net with a bat detector also allows the researcher to assess the effectiveness of their net placement (i.e., if bats are active near the nets but avoiding capture); this may allow for adjustments that will increase netting success on subsequent nights. There should be no disturbance near the nets, other than to check nets and remove bats.

WEATHER AND LIGHT CONDITIONS

Severe weather adversely affects capture of bats. If Indiana bats are caught during weather extremes, it is probably because they are at the site and active despite inclement weather. On the other hand, if bats are not caught, it may be that there are bats at the site but they may be inactive due to the weather. Negative results combined with any of the following weather conditions throughout all or most of a sampling period are likely to require additional netting: 1) precipitation; 2) temperatures below 10°C; and/or 3) strong winds (use good judgment: moving nets are more likely to be detected by bats).

It is typically best to set nets under the canopy where they are out of the moonlight, particularly when the moon is $\frac{1}{2}$ -full or greater. Areas illuminated by artificial light sources should also be avoided.

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	Appendix B. Mist Net Survey Data Sheets	
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NET SITE DESCRIPTION
Date: 6.14.08 Biologists: Gardner, Sameray
County: Cliaton State: OH Quad: Liberty
Project Name: <u>REY - East</u> Project Number: <u>1786.003-001</u>
UTM Zone: 175 GPS Waypoint Name: TEH-OH-10.9
Easting: 2 5 5 6 1 9 W6584
Northing: 4 3 8 0 2 5 3
Comments (If photos taken, include direction camera was facing):
STREAM NAME:
Bank Height (indicate units):
Channel Width (indicate units):
Stream Width (indicate units):
Substratum:
Average Water Depth (indicate units):
Turbidity:
Presence of open flyway above stream?
VEGETATION:
Estimated % Canopy Closure: Net 1 = 20% Net 2 = 70%
Dominant canopy species (at least 3; scientific names; spell out): <u>المهامية على ، كمرية من ، المهمينة محنطم لمانة</u> Average canopy diameter at breast height (DBH; indicate units):
Dominant understory species (at least 3; scientific names; spell out):
_ 17 1 7 144 1 6 1

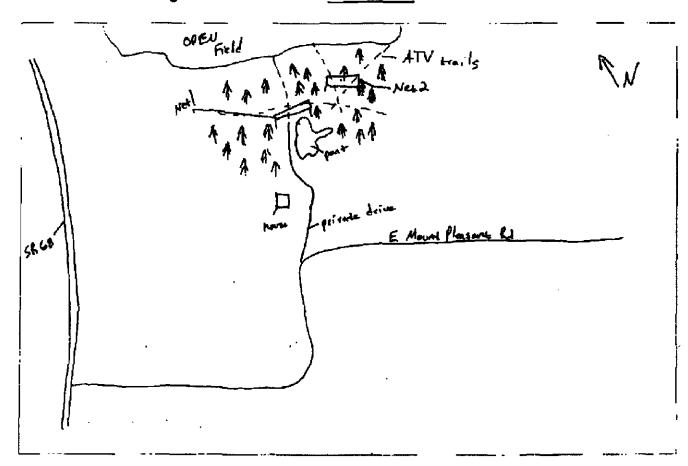
Site Name/Number: TEH · OU - 10.9

Page 2 of 2

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
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	-		 	
				A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: TEH-OH-(0.9

Page 1 of 1

184-MN-OH-466A

WEATHER DATA

14

Date: 6.14.08

Biologists: Samoray, Gardner

County: Clinton State: OH

Quad: Liberty

Project Name: <u>REX-East</u>

Project Number: 1786.003-001

Estimated Moon Phase: new

1/2

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2105	68°	41	→	Y	0%	nets undercompy
2135	660	41		y	0%	1
2305	660	4)		У	0%	
2932	640	41		У	0%	
2305	640	41		γ	0%	
2335	630	41		Y	0%	
0005	620	<1		Y	0%	
0035	62.	41		~	07.	
0105	62-	4		Y	0%	
0135	610	41	_	Y	0%	
Oaos	610	4		Y	0%	

*Use the following guidelines to determine wind speed:

< 1 mph caim; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

moves small branches; raises dust 13-18 mph

TEH-AAN-OH-466A

Sile Name/Number: TEH - CH - 10.9 (h.t.)

BAT CAPTURE DATA SHEET

Gardner	Quadrangle: Libecty	Project Number: 1784.003-00/	Net 2 Size: width 42, height 30,	Site Description/Comments: Brish acts are acress ATV trails in wooded area just south of a field and the pagessed Robis. Met I is also an the mathers and of a small page.	
Biologists: Samoray Garduer	State: OH		30,	Site Description/Comments: Book acts are acress ATV trails in pagescal Rows. Most I is also so the acthers and of a small page.	
Date: 6.14.08	County: Chinton	Project Name: REV East	Net 1 Size: width 60' height	Site Description/Comments:	

	et Up	Net Up Time: 2105	50					Net Do	Net Down Time:	SOFO	
Capture Net	Z Z			Age	Sex	Repro.	3	RFA Length	Band Color/		
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TEH-MN-OH-LIGHEA

Site Name/Number: TEH -OH-10.9 (h.k.)

Page ____ of ____

WEATHER DATA

Date: 6.15.08 Biologists: Saveray, Garder

County: Clinton State: OH Quad: Liberty

Project Name: REX East Project Number: 1786,000,001

Estimated Moon Phase: new 1/4 1/2 3/4 Gull

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2105	730	1-3	5	N	100%	
2135	720	1-3	5	~	100%	
2205	720	1-3	5	N	10070	
2235						Canceled de to prester
2305						1
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*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

TEH-MN-04-466A

Site Name/Number: TEH-OH-10,9 (Jn-14.)

Page 1 or 1

BAT CAPTURE DATA SHEET

Date: 6.15.08	Biologists:	Biologists: CARBING Sambers	(A)	
County: Clinton	State:	НО	Quadrangle: 1	hiberty
Project Name: REX East			Project Number: 1786,002 -001	1786.002-001
Net 1 Size: width 60' height 20'	,,	Net 2 Size:	Net 2 Size: width 42' height	height 20'
Site Description/Comments: Back acts are actors ATV scales in unseled and just south of an open Pald + the	ctos serebar	TV mails in most	طعدمة جعين عحم أم	of on open fall + the

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Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

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TEH-MN-OH-466A

Site Name/Number: TEH-OH-10.9 (h.u.)

Page ____ of ____

WEATHER DATA

Date: 6.16.08 Biologists: Gardner, Samoray

County: Clinton State: 6H Quad: helicity

Project Name: <u>REX-East</u> Project Number: <u>1786.002-0</u>01

Estimated Moon Phase: new 1/4 1/2 3/4 (full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Claud Cover	Comments
2105	70°	4-7	WNE	×	30%	nets order conspy
2135	70°	1-3	♣ NE	N	30%	1
2205	680	1-3	NE	Y	10%	
2235	66°	1-3	NE	γ	0%	
2305	620	l-3	NE	1	15%	
2335	610	1-3	NE	4	30%	
0005	590	41		γ	2690	
0035	58°	41		Y	20%	
0105	58 ³	41		γ	10%	
0135	580	41		У	1070	
0305	580	۷1		у	070	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

TEH-MN-04-466#

Sice Name/Number: TEL -OH-10-9 (N.M.)

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BAT CAPTURE DATA SHEET

Sard rec	Quadrangle: Liberty	Project Number: 1186,002 -00	Net 2 Size: width 42' height 20'	Site Description/Comments: Beth nets are across 4TV trails in wound but just south of an apen for ld + the proposed ROW. Next 1 is also becated an ula sociation and at a seally pand
Biologists: Samaray, Gardrac	State: OH			ti de banca of client ATV trails in wheel but is also been despected and the second and the seco
Date: 6.16.08	County: Chinkon	Project Name: REX East.	Net 1 Size: width 60' height 20	Site Description/Comments: Bath v

	3	INC. UP I HINE:	Alos					Net Do	Net Down Time:	5080	
Capture Net No. No.		Time (military)	# C	Age (A/J)	Sex (F/M)	Repro. Cond.	Weight (g)	RFA Length (mm)	Band Color/ No.	Species (scientific name spell out)	Commente
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pregnant, L = lactating, PL = post-lactating, TD = testes descended

TEH-MN-DH-499A

Site Name/Number: TEH-OH-14.5-2.0 /h.u.)
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Page 1 of **a**L

NET SITE DESCRIPTION

Date: <u>6.20.08</u>	_ Biok	ogists:	<u> 50 m</u>	ocay i	Garda	<u> </u>		
County: Fayette	_ State	e: <u>′</u>)H		Quad:	Madi	son	
Project Name: <u>REX-</u>	East		<u> </u>	Ргоје	ct Numl	per:	\$6.00	<u> </u>
JTM Zone: <u>17 5</u>	-	GPS	Waypo	int Nam	ne: <u>T£</u> y	0 111-5	<u>a</u>	
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Northing: 4	3	q	1	^	5	Я		

Comments (If photos taken, include direction camera was facing):

TEH-MN-OH-499A

STREAM NAME:

Bank Height (indicate units):

Channel Width (indicate units):

Stream Width (indicate units):

Substratum:

Average Water Depth (indicate units):

Turbidity:

Presence of open flyway above stream?

VEGETATION:

Estimated % Canopy Closure: Net 1 = 5%

Net 2 = 10%

Dominant canopy species (at least 3; scientific names; spell out): Average canopy diameter at breast height (DBH; indicate units):

Dominant understory species (at least 3; scientific names; spell out):

Poaceae, Pronus species, Eleangers, under Mata.

Average understory DBH (indicate units):

Estimated density of understory vegetation: high moderate (low

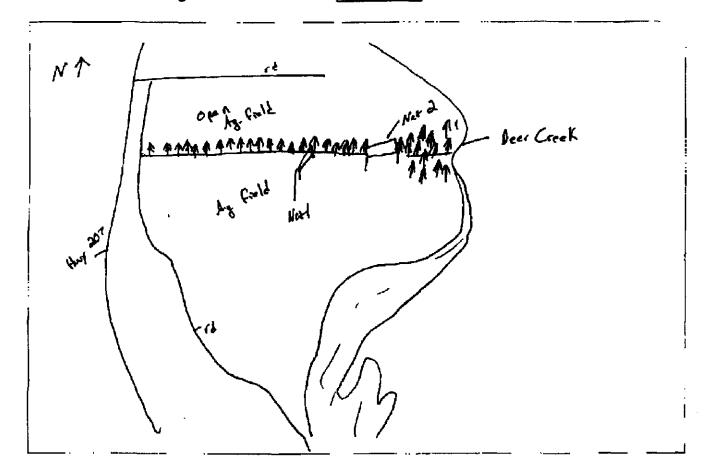
Site Name/Number: <u>TEH-HN-04-499A</u>

Page 2 of 2

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
		NO PRIS	present	

Drawing of net site. Include north arrow & location of each net.



TEH-MN-OH-USAA

Site Name/Number: TEH-OH-14.5-20 (hull)

Page ___ of ___

WEATHER DATA

Date: 6.20.08 Biologists: Samoray, Gardner

County: Fayette State: OH Quad: Madison

Project Name: <u>REX East</u> Project Number: <u>1786.002-00</u>

Estimated Moon Phase: new 1/4 1/2 3/4 Guil

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2105	6 6 °	41		N	5%	
2135	600	41	_	N	5%	
2205	580	۷١		N	0%	
2235	570	41	_	N	076	
2305	560	41		N	070	
2335	500	۷١		Y	0%	
0005	560	41	,	Υ	6%	
00 35	560	41		Y	07.	
0105	56°	41		У	0%	
0135	560	41	_	γ	67.	
0205	55°	4		Υ	070	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

TEH-MN-04-489A

Sice Name/Number: TEH-64-14.5 - 19-19

Page ← of ⊥

BAT CAPTURE DATA SHEET

Biologists: Samoray, barcher	State: OH Quadrangle: Medisan	To X To the second description of the second
)ate: 6 20.08	County: Eayette	Project Name: Off K Fig.

_height __30 Net 2 Size: width 36 Net 1 Size: width 30 height

Site Description/Comments: Net now is set up along true in field an north edge of treet OH-FY-DIE ADD rapening between the true falter Actors & tractor cond

1-2	101	Net 1lp Time.						Aloe Per	Times	J	
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								RFA	Band	Species	
Capture	Net Net	Time	Height	Age	Sex	Repro.	Weight	Length	Color/	(scientific name	
No.	No.	(military)	(m)	(√A)	(F/M)	Cond.	(8)	(mm)	Š	spell out)	Comments
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2	7	22.30	4.0	٧	i.		24.0	49.0	1	Exterious fureus	
77		2240	1.5	A	٤	Z	7.0	37.0	4 liver matel		Lieberch frem on 150
4	_	01 کھ	4.0	*	Ľ,	4	24.0	47.0		Establish fuscus	
٧.	ત	2345	3.0	¥	Į,	-	٥٠ ჯ	48.0		Estating functions	
ھ	æ	5145	1.5	A	F	7	7.0	35.5	ļ	Martin Laboratoria Lie	White was a same
7		0205	1.0	V	<u> </u>	٦đ	13.0	42.0	i	Lasiurus berealis	
·											
0	1	4342 11			ľ]					

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

TEH-MN-OH-499A

Site Name/Number: TEH-AH-14.5 200 (h.u.)

Page _1_ of _1_

WEATHER DATA

Date: 6.21.08 Biologists: Samoray, Gardner

County: Fayette State: OH Quad: Madison

Project Name: REY East Project Number: 1786.002-001

Estimated Moon Phase: new 1/4 1/2 3/4 full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2105	620	41		N	95%	
2135	590	41		N	25%	
2205	590	د ا		N	20%	
2235	58*	<1		Ŋ	10 %	
2305	58°	<1	_	2	10%	
2335	58°	۷۱		N	30%	
0005	570	41		Y	40%	
00 35	570	41	1	Y	30%	
0105	570	41)	λ	30%	
0135	570	41		Y	20%	
0209	56°	۷١		У	20%	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

LEX-MU-DA-YARA

Site Name/Number: TEH-OH-14.5 -2-0 (Jo. H.)

Page 1 of ∠

BAT CAPTURE DATA SHEET

X	Quadrangle: Madison
Biologists: Samoras, parla	State: OH
Date: 6 21.05	County: Fayette

Project Number: 1786.002 -001 Site Description/Comments: Net 1 is set in account a tractor id and extends from the seceline Q the north Net 2 Size: width 30' height 30' Net 1 Size: width ___36' height __ Project Name: REX East

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- Edys of track OH-EY-076,003 late the eg. field. Not a is along the same treelier and covers on appearing

Ź	et Up	Net Up Time: 2105	25					Net Do	vn Time:	Net Down Time: OACS	
								RFA	Band	Species	
Capture Net	Zet	Time	Height	Age	Sex	Repro.	Weight	Length	Color/	(scientific name	
S	è	(military)	(E)	(F/A)	(F/M)	Cond.	(8)	(mm)	<u>%</u>	spell out)	Comments
	Ą	2140	6.0	4	J	7	19.5	49.0	{	Entesione fascus	Many Age, Johnson and Company
7	2	2200	6.0	4	4	7	23.0	49.0	-	Estration - Corus	Many mid-se
3	-	2300	3.0	A	W	Z	17.5	49.5	\	Entesicus fuscus	
7	_	3520	1.5	¥		7	30.5	£:0	1	English Aux CS	
						<u>.</u>				7 . 11. 11. 11. 11. 11. 11. 11. 11. 11.	
Donording Condition	7 0.4	- Pd - washing			6	, , , , , ,	******				

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

TEH-MN-OH-500A

Site Name/Number: TEH-OH-19.5	
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Page ____ of ____

NET SITE DESCRIPTION

Date: 6.19.08 Biologists: Gardure, Samoray

County: firkaway State: OH Quad: Manage.

Project Name: REY - East Project Number: 1786,002 -001

UTM Zone: 175 GPS Waypoint Name: TEHOH14-51

Easting: 3 0 7 3 2 4 (w65 54)

Northing: 4 3 9 0 5 6 2

Comments (If photos taken, include direction camera was facing): ______

STREAM NAME:

Bank Height (indicate units):

Channel Width (indicate units):

Stream Width (indicate units):

Substratum:

Average Water Depth (indicate units):

Turbidity:

Presence of open flyway above stream?

NA

VEGETATION:

Estimated % Canopy Closure: Net 1 = 90% Net 2 = 70%

Dominant canopy species (at least 3; scientific names; spell out):

Frazinus americana, Ulmus rubra, Quercus velutina.

Average canopy diameter at breast height (DBH; indicate units):

Dominant understory species (at least 3; scientific names; spell out):

Eleaganus umbeliata

Pessa national (Cornus 14), Cratacqus 14:

Average understory DBH (indicate units):

Estimated density of understory vegetation: high moderate low BHE Environmental, Inc.

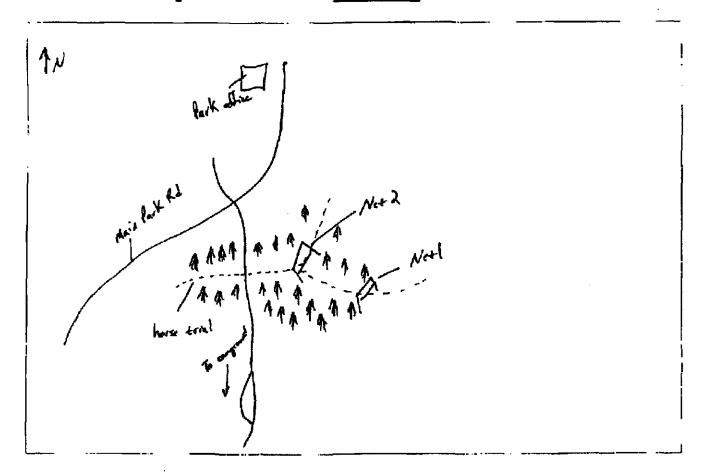
Site Name/Number: 1EU-OH-14.5-1-6 (h.u.)

Page 2 of 2

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
	/	NO	PRIS	
	X			

Drawing of net site. Include north arrow & location of each net.



20080723-0172 FERC PDF (Unofficial) 07/22/2008

TEH-MN-OH-500A

Site Name/Number: TEH-OH-14.5-405/h.M.)

Page 1 of 1

WEATHER DATA

Date: 6.18.08 Biologists: Sameray, Gardner

County: Pickaway State: OH Quad: Monroe

Project Name: REX-East Project Number: 1786.062-00/

Estimated Moon Phase: new 1/4 1/2 1/4 (full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2105	59	<1	_	₩ N	10%	Full moon, sets order
2135	58	<1	_	7	5%	
2205	57°	41		~	0%	
2235	570	۷1		N	0%	
2305	550	4		N	0%	
2335	54°	۷1		N	\$ 70	
0005	54°	4		N	Ø70	
0035	590	41	-	N	0%	
0105	53°	۷ ا		Ý	0%	
0135	53°	41		Y	0%	
0205	530	41		γ	0%	

*Use the following guidelines to determine wind speed;

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

20080723-0172 FERC PDF (Unofficial) 07/22/2008

104-MV-04-500A

Sice Name/Number: TEH-OH-14.5 -

BAT CAPTURE DATA SHEET

Page 1_ of _

		100.	, 0					Comment				
	Quadrangle: Monrac	Project Number: 1186.002 .001	Net 2 Size: width 36 height 20	a horse prail just sorth at the road leading to		0203	Species	(scientific name spell out)	Action to Seconds			
20c har	en _O	Proj	ize: widt	ere ere		Net Down Time: 0203	Band	Color/ No.				
) 'KBJOW			Net 2 S	fiere.		Net Do	RFA	Length (mm)	47.5			
Biologists: Samoray, Cachure	ЮН							Weight (g)	1.0			
Biologi	_ State: _OH		70,	ace access				Kepro. Cond.	1			
			Ĭ.	nets.				Sex (F/M)	L			
			height	Book			1	% ₹ ₹	4			
		EX East	18,	tion/Comments: Ba		53	4 7 7 7 1	Height (m)				
Date: 6.18.08	County: Pickoway	Project Name: REX East	Net 1 Size: width_			Time: 2103	ř	ime (military)	2140			
ate:	ounty:	roject	et 1 Si:	Site Descrip	•	Net Up Time:	3	No.			 •	
Ω	J	ā	Z	ភ 1	! !	Z	2000	No.	1			

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

TEH-MN-OH-500A

Site Name/Number: TEH-0H-14.5-Le

Page ___ of ___

WEATHER DATA

Date: 6.19.08 Biologists: Samoray: Gardner

County: Pickaway State: OH Quad: Monroe

Project Name: REX - East Project Number: 1786.002-001

Estimated Moon Phase: new 1/4 1/2 3/4 full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2105	620	41		N	5%	
2135	60°	41		~	5%	
1205	59°	<1		N	0%	
2235	58 "	21	_	Y	0%	
2305	560	۷۱		Y	0%	
2335	55*	41		У	0%	
6005	550	4	_	У	10%	
0035	550	41	-	У	10%	
0105	550	41	_	У	0/9	
0135	550	41	_	Ý	0%	
0205	550	4	_	4	0%	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

TEH MY OH- 500A

Sice Name/Number: IEH-0H-14.5 -150

Page 1 of 1

BAT CAPTURE DATA SHEET

Date: 6.19.08	Biologists: Sampray, Garder	
County: Pickawax	State: Oil-	Quadrangle: Mantoe
Project Name: REY East		Project Number: 1786,003 -001
Net 1 Size: width 18' height	AO Net 2 Size:	Net 2 Size: width 36 height 30
궠	a access a house trail just north	ore access a house trailinst north of the part road leading to the
compension of the form confiner		

Ž	et Up	Net Up Time: 2103	5.3					Net Do	Net Down Time:	0203	
	Net	Time	Height	Age	Sex	Repro.	Weight	RFA Length	Band Color/	Species (scientific name	
Š.	ġ.	(military)	(<u>u</u>)	(₹ <u>)</u>	(F/M)	Cond.	(8)	(mm)	No.	spell out)	Comments
l						\	1				
					N	G	15/1				
-							17)	dura	ON		
								\bigvee			
							مسمد				
eproducti	ive Co	Reproductive Condition: N = non-reproductive, P = preg	non-repre	oductive	2. P = Dr	egnant.	= lactatir	no. Pt. = no	st-lactati	mant. L = lactating PL = nost-lactating Th = testes descended	

ô

Site Name/Number: TEH-MN-OH-577A (unit TEH-OH-25.05ite 1) Page 1 of
NET SITE DESCRIPTION
Date: 16 June 2008 Biologists: L. Winhold & M. Farmer
County: Muskingum State: Ohio Quad: Philo
Project Name: REX East Project Number: 1786.002-001
UTM Zone: 175 GPS Waypoint Name: TEMNOH577A
Easting: $\frac{4}{3}$ $\frac{3}{3}$ $\frac{4}{3}$ $\frac{3}{3}$
Northing: 4 4 1 0 7 8 1
Comments (If photos taken, include direction camera was facing): no photos
STREAM NAME: None
Bank Height (indicate units):
Channel Width (indicate units):
Stream Width (indicate units):
Substratum:
Average Water Depth (indicate units):
Turbidity:
Presence of open flyway above stream?
VEGETATION:
Estimated % Canopy Closure: Net 1 = 80 Net 2 = 70
Dominant canopy species (at least 3; scientific names; spell out): Robinia pseudoacacia, Juglans nigra, Liriodendion tulipifera Average canopy diameter at breast height (DBH; indicate units): 24cm
Dominant understory species (at least 3; scientific names; spell out): Acus Saccharum, Acus negundo, Cornus florida Average understory DBH (indicate units): 4cm
Estimated density of understory vegetation: high (moderate) low

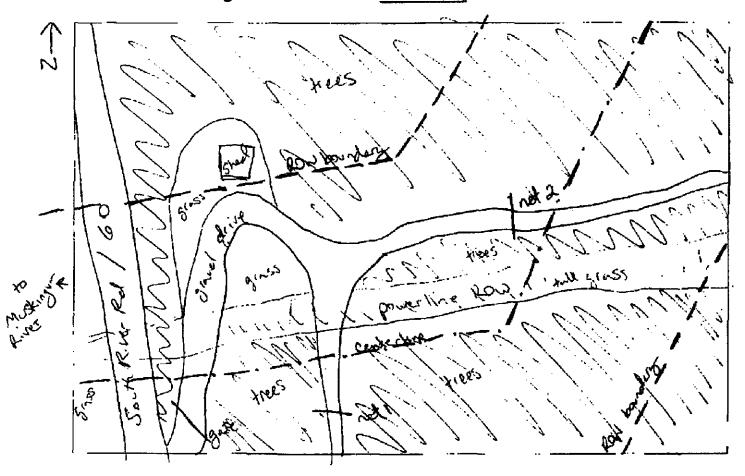
Site Name/Number: TEH-MN-0H-577A

Page 2 of 2

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
None				

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: TEH-MN-DH-577A

Page ___ of ___

WEATHER DATA

Biologists: L. Winhald + M. Farmer

Date: 1 (0 June 2008)
County: Muskingum

State: Ohio Quad: Philo

Project Name: REX East Project Number: 1786.002-001

Estimated Moon Phase: new

1/4

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
21:∞	67	< 1		no	10	
21:30	66	41		2	10	
33:00	(هدا	41		yes	10	mean net illuminating
22:30	64	4)		yes	Ð	
∂3: ∞	65	1=3	3	yes	10	
23:30	66	4.7	Σ	y is	30	
24:00	67	4.7	3	yes	30	
Ø:30	64	4		yes	30	
<u>0</u> 1:3Ω	65	8-12	2	nes	50	
ા :ઉગ	63	8-12	W	yes	30	
ბა; ∞	63	8-12	ω	zes	50	

*Use the following guidelines to determine wind speed:

< 1 mph

calm; smoke rises vertically; no perceivable movement

1-3 mph

smoke drift shows wind direction; barely moves tree leaves

4-7 mph

wind felt on face; leaves rustle; small twigs move

8-12 mph

leaves and small twigs in constant motion; blows up dry leaves

13-18 mph

moves small branches; raises dust

SILC Name/Number: JEH-MN-OH-677 A

Page 1 of 1

BAT CAPTURE DATA SHEET

Project Number: 1786 . 202 - 00 Quadrangle: Philo Biologists: L.Winhold & M. Farmer State: Ohio Project Name: QEX East County: MUSKINGUM Date: 16 June 2008

Net 2 Size: width 6 m height 7 m Site Description/Comments: Facested hillside near Muskingum River POWERING Net 1 Size: width 6 m height 7 m S. Carred

	j j	Net Up Time: メリンプン) ဂ					Net Do	wn Time:	Net Down Time: じんこつ	
•	;								Band	Species	
Capture Net	Zet Zet	Time	_	Age	Sex	Repro.	Weight	Length	Color/	(scientific name	
No.	Š	(military)	(m)	(₹)	(F/M)	Cond.		(mm)	Š	spell out)	Comments
	-	92.00		Q	B	2		9	1	Modes locations	
C	ദ	00:10	1.5	Q	٧	l	10.5	10.5 37.4		100 City 100	
										9	
	L										
Age of the same of C		1.00									

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-DH-577A

Page 1 of 1

WEATHER DATA

Date: 17 July 2008

Biologists: L. Winhold + M. Farmer

County: Muskingum State: Offic Quad: Philo

Project Name: REX EAST Project Number: 1786.002-001

Estimated Moon Phase: new

1/4

1/2

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
21:00	62	4.1		10	30	
21:30	60	41		5	30	
$32:\infty$	58	4 }		3	10	
22:30	56	4		ખુહ	0	moon behind trees
23:00	55	41		hes	0	
83:30	54	41		yes	0	
ઝ્ય¦∞	63	4		yes.	0	
(CS:)	62	V		nes	9	
01:00	Sa	4		hes	٥	
01:30	51	4		yes.	0	
ე9;∞	51	41		yes	0	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

smoke drift shows wind direction; barely moves tree leaves 1-3 mph

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

Sire Name/Number: TEH-MN-OH-577A

BAT CAPTURE DATA SHEET

of M. Farmer	Quadrangle: Philo	Project Number: 1786.002-001	Net 2 Size: width 6 m height 7 m		
Biologists: L. Winhold & M. Farmer	State: Ohio		Net 2 Size:	65 16 June 2008	
Date: 17 June 2008	County: MUSKINGUM	Project Name: REX East	Net 1 Size: width 6 m height_	Site Description/Comments:	

Capture Net No. No.		A					Net Do	«n Ime.	Net Down Time: O. 7.00	
No.	Time	Height	Age	Şex	Repro.	Weight	RFA Length	Band Color/	Species (scientific name	
	(military)	(m)	(A/J) (F/M)	(F/M)	Cond.	(8)	(mm)	Š.	spell out)	Comments
_	22:40	_	4	ī.	۲	_د	36.0	1	Profis sophorteinalis	
ن د	00:300	G	۵	v	O _D	12.0	36.2	1	Share Keek All walls	
				<u> </u>						

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-0H-578A NET SITE DESCRIPTION Page 1 of 2
Date: 16-17 June 2008 Biologists: S. Williams, G. Janos
County: Muskingum State: Ohio Quad: Philo
Project Name: <u>Rex-East</u> Project Number: <u>1786-002-00</u>
UTM Zone: 178 GPS Waypoint Name: TEMNOH578A
Easting: 4 2 4 2 1 5
Northing: 4 4 1 1 4 9 0
Comments (If photos taken, include direction camera was facing): Both nets accoss mud logging mad of of Poverty Ridge Rel.
STREAM NAME:
Bank Height (indicate units):
Channel Width (indicate units):
Stream Width (indicate units):
Substratum:
Average Water Depth (indicate units):
Turbidity:
Presence of open flyway above stream?
VEGETATION:
Estimated % Canopy Closure: Net 1 = 55% Net 2 = 20%
Dominant canopy species (at least 3; scientific names: snell out): Acer saccharum, hear rubm, Carya auda
Average canopy diameter at breast height (DBH; indicate units):
Dominant understory species (at least 3; scientific names; spell out); Acur saccherum, overws alba, Liniodudon tulipitera
Average understory DBH (indicate units):
Estimated density of understory vegetation: high proderate low BHE Environmental, Inc.

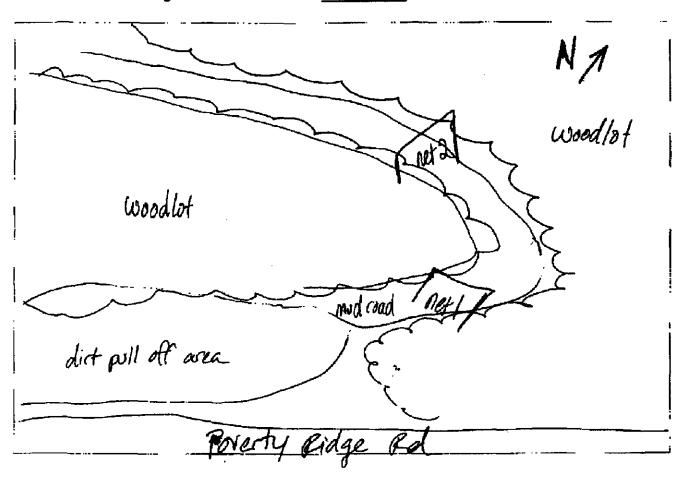
Site Name/Number: TEH-MN-0H-578A

Page 2 of 2

Description of potential Indiana bat roost trees visible from net site

	Est.	<u> </u>	— — <u> </u>	
Tree Species	DBH		Fet Wilson	
(scientific names; spell out)	(with units)	Live or dead	Est. % loose bark	Comments
Carya anta	1011	INC	85%	
Carva ajata	1411	live	85%	·
carya ovata	18"	INC	85%	
Cana avata	16"	INE	85%	
				
			<u> </u>	
				
,	<u> </u>			
			<u> </u>	
		_		

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: TEH-MN-0H-578A

Page __! of _!_

WEATHER DATA

1/4

Date: 16 Jule 2008 Biologists: S. Williams, G. Janos

County: Muskingum State: Ohio Quad: Philo

Project Name: <u>Rex East</u> Project Number: <u>1786.002-001</u>

Estimated Moon Phase: new

1/2

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	68	4	na	Yes	10%	
2200	60	4	nla	Yes	10%	
2300	68	4-7	varies	yes	0%	
0000	64	4-7	W	yes	0%	Occasional gusts @ 8-12 mph
	64	4	nla	yes	0%	
0200	64	4	nla	405	0%	
		***			·····	

*Use the following guidelines to determine wind speed:

< 1 mph

calm; smoke rises vertically; no perceivable movement

1-3 mph

smoke drift shows wind direction; barely moves tree leaves

4-7 mph

wind felt on face; leaves rustle; small twigs move

8-12 mph

leaves and small twigs in constant motion; blows up dry leaves

Site Name/Number: TEH - MIN-OH - 578A

BAT CAPTURE DATA SHEET

5, G. Janos	Quadrangle: Pholo	Project Number: 1786.002.001	width 18 height 20	18'x20' 2 ties) and Net 2 (18'x20' 2 ties) across	
Blologists: S.Williams, G. Janos	State: Dhio		20' Net 2 Size: width_	18'x20' & hiers) and N	0
Date: 16 June 2008	County: MUSKMAUM	Project Name: Lex- East	Net 1 Size: width $/8'$ height	Site Description/Comments: Net (

Net	Net Up Time: $2/\Delta 0$	(80					Net Do	√n Time:	Net Down Time: 0200	
Capture Net No. No.	Net Time No. (military)	Height	Age (A/J)	Age Sex (A/J) (F/M)	Repro. Cond.	Weight (g)	RFA Length (mm)	Band Color/ No.	Species (scientífic name spell out)	amante de la contraction de la
										Comments
		1								
	j			/	V 1	1	2 2 0	2,00		
						5110	OF OKE	D T D		
eproductive	Condition: N	= non-reprc	ductive	P = Dr	egnant.	= lactatir	oc Pl = no	st-lactatir	Reproductive Condition: N = non-reproductive. P = pregnant. L = lactating. Pl = post-lactating. TD = tostes decembed	

Site Name/Number: <u>TEH-MN-0H-578A</u>

Page 1 of 1

WEATHER DATA

Date: 17 June 2008 Biologists: S. Williams, G. Janos
County: Muskingum State: Dhio Quad: Philo

Project Name: <u>Rex Fast</u> Project Number: <u>1786.002</u>-001

Estimated Moon Phase: new

1/4

1/2

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	60	4	nla	no	0%	
2200	58	دا	nla	ves	0%	
2300	58	4	nla	yes	15%	
0000	56	4	nla	ves	10%	
0100	54	4	nla	ves	0%	
0100	53	4	nla	Yes	0%	
				•		
					_	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

moves small branches; raises dust 13-18 mph

Site Name/Number: TEH-MM-OH-578A

BAT CAPTURE DATA SHEET

Page 1 of 1

Date: 6/17/08	Biologists: Williams & Janos	Janos
County: Muskingum	State: OH	Quadrangle: Philo
Project Name: Rex-Eust		Project Number: 1786,002-001
Net 1 Size: width 18 height	20' Net 2 Size:	Net 2 Size: width 18 height 20
1777	18/20 d hers and Net 2 (18'x 26' 2 hos	ta (18 x 20 a hos)
of the way of the city of	and and the season	

e Net							ST 12V	vii ime:	net bown time: VACC	
							RFA	Band	Species	
-	Time	Height	Age		Repro.	Weight	£	Color/	(scientific name	
No. No. (T	(military)	(E)		(F/M)	Cond.	<u>8</u>		No.	spell out)	Comments
1 2 3	32:05	0.5	A	W	N	12.5	38.0	(Lasiulus borealis	
,										
			·							/
										,

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-tactating, TD = testes descended

me	Number: TEH-MU-OH-548B Page _
	Date: 18 June 2008 Biologists: B. Steffen, J. Hammersky
	County: Muskingum State: OH Quad: Philo
	Project Name: <u>Rex East 2008</u> Project Number: <u>1786.002</u>
	UTM Zone: 175 GPS Waypoint Name: TEMNOH57913
	Easting: 4 2 3 7 3 4
	Northing: 4 4 1 2 2 0 7
	Comments (If photos taken, include direction camera was facing):
٠	
	STREAM NAME:
	Bank Height (indicate units):
	Channel Width (indicate units):
	Stream Width (indicate units):
	Substratum:
	Average Water Depth (indicate units):
	Turbidity:
	Presence of open flyway above stream?
,	VEGETATION:
	Estimated % Canopy Closure: Net 1 = 80% Net 2 = 30%
	Dominant canopy species (at least 3; scientific names; spell out): Liciodendron Indipitoral, Quercus skillata, Quercus alba Average canopy diameter at breast height (DBH; indicate units):
	At in Dominant understory species (at least 3; scientific names; spell out): Sassafras albidum, Lirio dendron hilipifera, Cornus alkenifolia. Average understory DBH (indicate units):
	Estimated density of understory vegetation: high moderate low

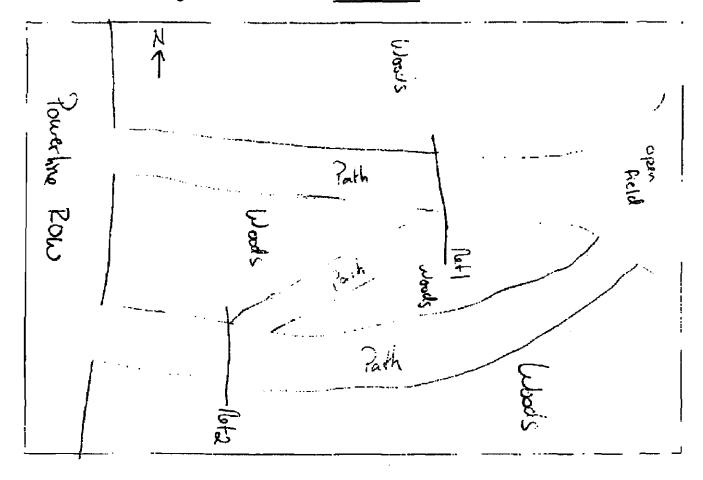
Site Name/Number: TEH-MN-04-5788

Page $\underline{\mathcal{A}}$ of $\underline{\mathcal{A}}$

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
		No PRIS		

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: TEH-MH-OH-578B

Page ___ of ___

WEATHER DATA

Date: 18 June 2008

Biologists: B. Stellen, J. Hammersley

County: Muskingom State: OH

Quad: Philo

Project Name: 2EX East 2008 Project Number: 1786.662

Estimated Moon Phase: new

1/4

1/2

füli) ₹4

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover		Comm	ents
ျှလ	62	دا	ΝД	No	70%			
2130	60	دا	NA	No	70%			
2200	60	دا	ΝД	No	100%			
223 6	6 0	اع	NA	2	100%			
2300	60	4	Ma	₩	100%			
2330	58	اد	NA	No	100%			
0000	58	دا	NA	Ho	80%	MOOR	behind	-reeline
Ć ა 30	58	4	ша	No	80%	h	3 1	ıı
0100	56	4]	NIA	No	70%	ø	II.	l4
0130	56	د	NA	No	50%	a	ч	41.
6 2 60	56	41	NJA	Nο	30%	u	1	4

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

moves small branches; raises dust 13-18 mph

Page ___ or __

BAT CAPTURE DATA SHEET

Site Name/Number: TEH-MN-04-57803

County: Muskingum Project Name: REX End doubt d	Date: 18 June 2010	Biologists: D.	De l'action de l'action de la company de la
eht 6m and d across	County: Muskingum	State: OH	Quadrangle: Philo
ent 6m acress	Project Name: REX ENT &	ર્વ	Project Number: 1786.002
and d across	Net 1 Size: width 9m	,	height
	Site Description/Comments:	and d across	no acress roads in hordwood hood los approx.

		Comments							
: රාද්ග	Species	(scientific name spell out)	Epterions fuscus	Epiesing thistas	Myotis Incitions	Myut.s Inc. figurs	Lasiums bonealis		
Net Down Time: රධුරා	Band	No.	-		1	1	ł		
Net Do	RFA	(mm)	48.8	1.31	38.5	1.85	8 ₀ L		
	1,4-2-44	weignt (g)	16.5	13.5	9.6	0.8	5.61		
	9	Cond.	Serahi	serotal	4 whale	المدوان ورد	NR		
		Sex (F/M)	PW W	g W	5 4	ъ́з	MB		
	•	æ (? (₹ (₹	+	K	ď	×	*	 	
	4 4 - 5 - 1 4	neignt (m)	£ /5	مئن	₩ <i>6</i>	\w\	٧		
Net Up Time: 2100	j	military)	ملازالم	00:44	०४:५८	33.40	00.10		
let Up	2			_	~6				
] -		No. No.		~6	ሌን	1	S		

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-0H-578B

Page | of |

WEATHER DATA

Date: 19 June 2008_

Biologists: B. Steffen, J. Hammersley

County: Muskingum State: OH Quad: Philo

Project Name: <u>FEX East 2008</u> Project Number: <u>1786.002</u>

Estimated Moon Phase: new

1/4

1/2

₹4



Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover		Сотп	nents
2100	62	41	NIA	No	O%_		_	···
2130	62	٤١	NA	Иo	0%			
2200	62	4	NA	No	Ó%			
2230	60	니	NA	Ņο	0%			
2300	60	٤١	NA	No	Ó%	Moon	behind	l treeline
2336	<i>5</i> 8	دا	N/A	No	0%	ti	0	D .
0000_	58	د ا	NA	No	0%	ę	£1	u
0030	58	دا	u A	No	0%	•	li .	ų
0100	58	4	NA	No	0%	μ	ļi.	U
0130	58	4	NA	No	0%	ţı	١,	u
03.00	56	دا	N/A	No	0%	9	¥	ly

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

Site Name/Number: IEH-MN-OH-5798

Page 1 of 1

BAT CAPTURE DATA SHEET

Biologists: B. Skeffen J. Hammersley Date: 19 June 2008

Quadrangle: Phb State: Oh County: Muskingum

Net 1 Size: width 9m height 6m Project Name: 25x East 2008

9m height

Project Number: <u>। ৭৪৫.০৩৯</u>

E Net 2 Size: width

~ 150 ft apart. Site Description/Comments: Both rets across access cools through woodlot

Escape from net Comments ore luckahou (scientific name LASLUTUS borealis spell out) Mystis Include Ephsicus finscus Myatis theirighs Species Eplesions fuscus Eptesions fusus Net Down Time: 0215 Color/ Band ŝ ١ Length (E) **₽.**6 46.6 43.0 38.3 35.5 Weight <u>.</u> (8) 9 ار. د <u>1</u> Dregon Repro. Cond bie) Sa ر ق 67.50 (F/M) Sex E 4 3 Age Þ Œ ◁ ∢ K. Height A. 5 A 0.5m o o Jm ٤ Ê سي Net Up Time: 2115 (military) Time 06.00 02:2° 78:2° 2150 21,20 2150 Zet Ş Capture | Š 1

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-OH-588 A	Page 1 of 2
NET SITE DESCRIPTION	
Date: 18-19 June 2008 Biologists: S. Williams, G. San	0.5
County: Muskingsm State: Ohio Quad: Ruralda	e
Project Name: <u>Rex -East</u> Project Number: <u>1786</u>	.002 DOI
UTM Zone: 178 GPS Waypoint Name: <u>TEMNOH5</u>	BOA
Easting: 4 2 5 1 3 4	
Northing: 4 4 1 4 2 3 0	
Comments (If photos taken, include direction camera was facing): New Maring of world apening, Net 2 across	
STREAM NAME:	
Bank Height (indicate units):	
Channel Width (indicate units):	
Stream Width (indicate units): $IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$	
Substratum:	
Average Water Depth (indicate units):	
Turbidity:	
Presence of open flyway above stream?	
VEGETATION:	
Estimated % Canopy Closure: Net $1 = 5\%$ Net 2	= 20%
Dominant canopy species (at least 3; scientific names; spell out GRAITSIA TYPIACATINES, PLATANUS OCCIONTALIS, Jug	lans nigra
Average canopy diameter at breast height (DBH; indicate units)	•
Dominant understory species (at least, 3; scientific names; spell SASSAFRES Albiaium, Gleditsia triacaturos, Celt	out): is acidentalis
Average understory DBH (indicate units):	
Estimated density of understory vegetation; high moderate	low

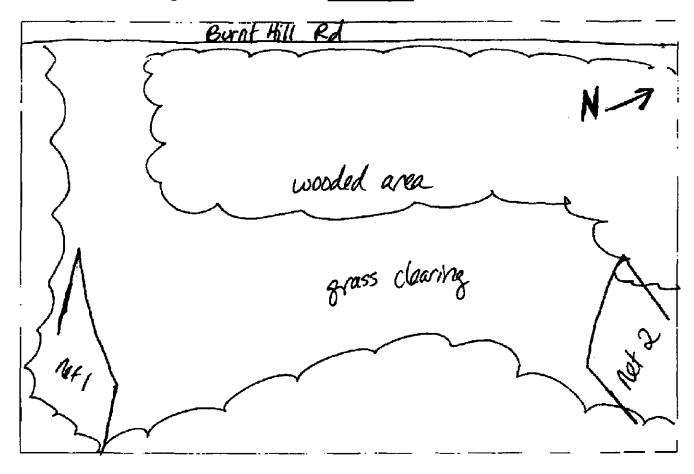
Site Name/Number: TEH-MN-0H-580 A

Page 2 of 2

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
		hone-		

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: TEH-MN-0H 588A

Page of

WEATHER DATA

Date: 18 June 2008 Biologists: S. Williams, G. Janos

County: Muskingum State: Ohio Quad: Pural dale

Project Name: Rex-East Project Number: 1786.002-00/

Estimated Moon Phase: 1/4 1/2

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	60	2	nla	90	35%	
2200	59	4	na	10	60%	
2300	54	J	na	10	40%	
0000	55	4	nla	10	50%	
0100	54	J	nla	No	30%	
0200	53	4	nla	No	30%	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

Site Name/Number: FH-MN-04-580A

Page | or '

BAT CAPTURE DATA SHEET

	Site Description/Comments: Met 1 (42'x30' 3 hars) euross gass clearing at und lot appring	Net 1 Size: width 42' height 80' Net 2 Size: width 18' height 20'	Project Name: Rox-East 786.003 -00/	County: Muskhaum State: Ohio Quadrangle: Puraldak	Date: 18 JUNE 2008 Biologists: J. Williams, Cr. Janus
--	---	---	-------------------------------------	---	---

	et Up	Net Up Time: $2/00$	00,			į		Net Do	wn Time:	Net Down Time: 0200	
Capture Net	Net	Тіте	Height			Repro.	Weight	RFA Length	Band Color/	Species (scientific name	
Š.	Š	(military)	(E)	(A/J)	(F/M)	Cond.	(8)	(mm)	No.	spell out)	Comments
						(
						大人	\ \ \ \	401	00		
					P						
		}									
					•						
			:								
					•						

Reproductive Condition:/N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-OH-580A

Page _ l of _ l

WEATHER DATA

Date: 19 June 2008	Biologists: C. William	s, GJanos
County: Muskingum	_ 4	Quad: Puraldale

Project Name: <u>Rox-East</u> Project Number: 1786,002 00/

Estimated Moon Phase: new 14 1/2 1/4 (Full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	57	دا	na	10	0%	
2200	56	4	nla	00	0%	
2300	54	۷	nja	10	Obo	
0000	53	۷	Ma	ΛD	0%	
6100	51	4	nla	yes, Drough Nees	0%	
0200	ව ු	2	nla	yes, hough rees	0%	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

Site Name/Number: TEH-MN-0#-580A

BAT CAPTURE DATA SHEET

(a. Janos	Quadrangle: Rucal dale	Project Number: 1786, 601.00/	width 18' height 20'	(42' ×30' 3ties) across across clearing at woodlot a tiers) across grass undal	
Biologists: (3. Willians (a. Janos	State: Dhio		30' Net 2 Size: width	42'x30' 3ties) auss	
Date: 19 July 2008	County: Muskinghan	Project Name: Rox- Cast	Net 1 Size: width $43'$ height	Site Description/Comments; 1941 (

Capture Net Ti		mer op mure of 100					Net Do	ארו Time:	Net Down Time: 08.00	
Š.	Time	eight	Age	Se.	Repro.	Weight	RFA Length	Band Color/	Species (scientific name	
	(military)	(E)	₹ ?	(A/J) (F/M)	Cond.	Cond. (g)	(mm)	Ž.	spell out)	Comments
			i							
				1	V /	VIVA	Ì `	いっちんらん		
				-		>11/5			0	
										/

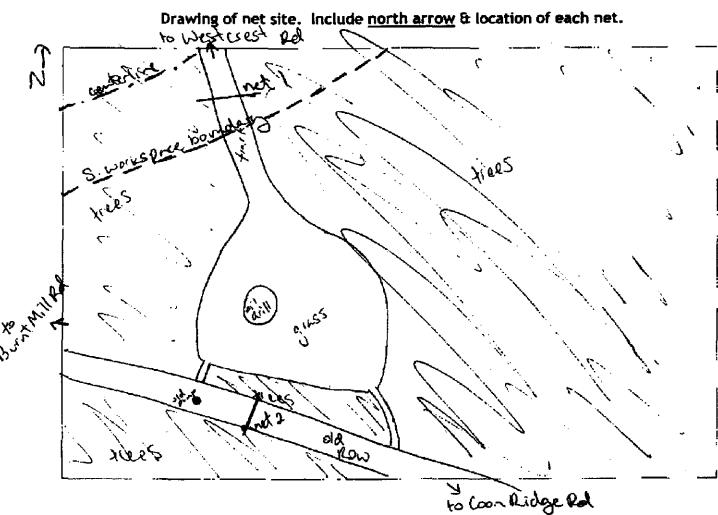
Site Name/Number: TEH-MN-OH-581 A (unt TEH-OH-27.0) Page 1 of NET SITE DESCRIPTION
Date: 18 June 2008 Biologists: L-Winhold + M. Farmer
County: Muskingum State: Ohio Quad: Norwich
Project Name: REX East Project Number: 1786.002-001
UTM Zone: 17 S GPS Waypoint Name: TEMNOH581A
Easting: 4 2 5 7 7 4
Northing: 4 4 1 5 2 3 0
Nexted tract OH-MK-192-000
STREAM NAME: NONE
Bank Height (indicate units):
Channel Width (indicate units):
Stream Width (indicate units):
Substratum:
Average Water Depth (indicate units):
Turbidity:
Presence of open flyway above stream?
VEGETATION:
Estimated % Canopy Closure: Net 1 = /00 Net 2 = 7 0
Dominant canopy species (at least 3; scientific names; spell out): Quercus (ubra, Primus Serotina, Curan ovata Average canopy diameter at breast height (DBH; indicate units): 30 cm
Dominant understory species (at least 3; scientific names; spell out): Acer Sacchard, Figure , Propus serotina Average understory DBH (indicate units): 5 cm
Estimated density of understory vegetation: high moderate low

Site Name/Number: TEN-MN-ON-581 A

Page $\frac{Q}{2}$ of $\frac{Q}{2}$

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
word Cords on	Ar Acris	s live	- vries	
	 i			



BHE Environmental, Inc.

Site Name/Number: TEH-MN-OH-581A

Page ____ of ____

WEATHER DATA

Date: 18 June 2008

Biologists: L-Winhold & M. Fumer

County: Muskingum State: Ohio Quad: Norwich

Project Name: REX East Project Number: 1786.002-001

Estimated Moon Phase: new

1/4

3/4

	T	3341 4	3422			1
Time	Temp	Wind Speed*	Wind Direction	Moon Visible?	% Cloud	Commonts
(military)	(F)	3pecu	Direction	Alziniet	Cover	Comments
<u>∄:∞</u>	63	41		20	100	<u></u>
21:30	61	۷)		20	100	
გე:თ	60	۷)_		5	100	
22:30	60	41	1	20	95	
23:00	58	4	1	8	9	roon behind
<u>93:30</u>	57	41		20	90	mon behind Clouds
∂ ¤ ′∞	57	4)		yes	90	moon partially behind clouds
∞;30	56	4		zes	80	
01:00	56	4		10	95	moon behind Clouds
01:30	56	41		yes	70	
စဉ္စ:ထ	55	4		yes	60	

*Use the following guidelines to determine wind speed:

calm; smoke rises vertically; no perceivable movement < 1 mph

1-3 mph smoke drift shows wind direction; barely moves tree leaves

wind felt on face; leaves rustle; small twigs move 4-7 mph

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

Site Name/Number: TEH-MN-OH-581A

Page 1 of 1

BAT CAPTURE DATA SHEET

Project Number: 1 786, 002-00 Quadrangle: []orwich Biologists: L. Winhold + M. Farmer State: Ohio Project Name: REX EAST County: MUSKINGUM Date: 19 5 UNE 2008

height 7m Net 2 Size: width 96 m Net 1 Size: width Com height The

Site Description/Comments: heavily Foreste & area with old oil drill, pump station, + tank CLACOLATA 350) 30

Z	et Up	Net Up Time: 21:00	8					Net Dov	vn Time:	Net Down Time: O分, つつ	
								RFA	Band	Species	
Capture	Net	Time	Height	Age	Sex	Repro.	Weight	Length	Color/	(scientific name	
Š.	<u>\$</u>	(military)	Œ		(F/M)	Cond.	(g)	(mm)	No.	spell out)	Comments
	B	22:10	0.0	Ä	ابدا	d	0.6	38.4	1	Mudis lucificaus	
هت:	ry	22:10	2.0	Ą	L.	p	9.5	38.0	-	Madis lucitaris	
در	B	22:30	2.5	4	14	d	1	38.0	1	Madis lucifieus	escapel genso
3	2	22.30	o. -	4	17	d	9.5	37.3		Madis lucitions	001
8	_	22:40	3.0	Q	V.	7	9.5	39.0	1	Marchis luctures	
و	-	22:40	2.0	A	12	d	12.0	36.7	\	Madis lucitodus	
	_	0h:28	5.0	A	L	б	10.5	39.6		Matis lucitions	
مَم	3	00:40	7.5	A	W	マ	6.5	35.7		Motos Inchance	
5	0	06:00	3.0	A	7	7	8.0	37.2	}	Mappies luctureus	
Benrodur	المام ر	andition. N =	non-rong	ach intive) D = D	Ponant 1	= lactati	na Pi = no	st-lactati	Deproductive Condition: N = non-reproductive D = pregnant 1 = lartating Pl = post-lartating (TD = festes discreptled	

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD

Site Name/Number: TEH-MN-OH-58/A

Page 1 of 1

WEATHER DATA

Date: 19 June 2008

Biologists: L. Winhold & M. Furmer

County: Muskingum

State: Onio Quad: Norwich

Project Name: REX EIST

Estimated Moon Phase: new

1/4

1/2

1/4

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
ျှီးတ	61	<		~0	0	
21:30	60	<		no	0	
93;20	58	41		ç	0	
33:30	57	< 1		2	೨	
23:00	56	41	1	yes	ಲ	moon behind
23:30	56	41	1	yes	0	
24:00	54	41		yes	0	
ထ : 30	54	41		yes	0	
01:00	34	4 \		بهود	0	
01:30	53	41		yes	0	
⊙ 3:∞	ઈ	۲)		yes	Ð	

*Use the following guidelines to determine wind speed:

calm; smoke rises vertically; no perceivable movement < 1 mph

smoke drift shows wind direction; barely moves tree leaves 1-3 mph

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

SILE Name/Number: TEH-MN-OH-581A

BAT CAPTURE DATA SHEET

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Page 1

Quadrangle: <u>Notwith</u> Biologists: L. Winhold & M. Farmer State: Orio County: MUS Kingum Date: 19 June 2008

Project Number: 1786 002-00 Project Name: AEX East

Net 2 Size: width 9m height 7m 18 5mm 2008 Site Description/Comments: Serve B Net 1 Size: width 6m height 7m

			Comments								
Choo	Species	(scientific name	spell out)	Situated Survicedis	Mach's sententionalis	Machis "Incituations	Migh's lucifiedus	Madria Incitations		0 0	
Net Down Time: (2)	Band	Color/	No.		1			(
Net Dov	RFA	Length	(mm)	40. l	35.9	31.0	35.1	38.0	37.0		
		Weight	(8)	17.5	8.5	5-01	0.11	11.3	Ċ:=		
		Repro.	Cond.	2	d	7	d	d	ථ		
		Şex	(F/M)	W	1	بها	L	×	٧		
		Age	(₹	ک	A	4	4	4	Q		
8		Height	(EE)	30	1.5	2.0	1.5	1.5	9.0		
Net Up Time: 있い. 👓		Time	(military)	काः।ह	23:00	28:80 80:80	22:30	32:50	00;10		
let Up		Net	ġ	C		Ö	જ	_	d		
		Capture	No.	_	~	3	2	S	૭		

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Date: 20 June 2008 Biologists: B. Stellen J. Hammer's langer County: Muskingum State: OH Quad: Norwich Project Name: REX East 2008 Project Number: 1786.0 UTM Zone: 175 GPS Waypoint Name: TEMNOH5818 Easting: 4 2 6 3 2 8 Northing: 4 4 1 6 0 8 8 Comments (If photos taken, include direction camera was facing): B. Across a manhaned ROW, ~ 250 ft apart STREAM NAME: Bank Height (indicate units):	202
Project Name: <u>PEX East 2008</u> UTM Zone: <u> 175 GPS Waypoint Name: TEMNOH5818 Fasting: <u>4 </u></u>	202
UTM Zone: 175 GPS Waypoint Name: TEMNOH5818 Easting: 4 2 6 3 2 8 Northing: 4 1 6 0 8 8 Comments (If photos taken, include direction camera was facing): B Across a manhaned Pow ~ 250 ft apart STREAM NAME: Bank Height (indicate units):	
Easting: 4 2 6 3 2 8 Northing: 4 4 1 6 0 8 8 Comments (If photos taken, include direction camera was facing): B ACTOSS A MONTHURED POWD ~ 250 Ft apart STREAM NAME: Bank Height (indicate units):	dh nef
Northing: 4 4 1 6 0 8 8 Comments (If photos taken, include direction camera was facing): B ACTOSS A MANAGEMENT POW, ~ 250 ft apart STREAM NAME: Bank Height (indicate units):	oth net
Comments (If photos taken, include direction camera was facing): B ACTOSS A MONHAGE POW, ~ 250 St apart STREAM NAME: Bank Height (indicate units):	oth nei
Comments (If photos taken, include direction camera was facing): B ACTOSS A MANAGEMENT POW, ~ 250 ft apart STREAM NAME: Bank Height (indicate units):	oth net
Bank Height (indicate units):	
Channel Width (indicate units):	
Channel Width (indicate units): Stream Width (indicate units):	
Substratum:	
Average Water Depth (indicate units):	
Turbidity:	
Presence of open flyway above stream?	
VEGETATION:	
Estimated % Canopy Closure: Net 1 = 30% Net 3	2 = 909
Dominant canopy species (at least 3; scientific names; spell ou lawrous rubon, therewas albo Pinus shows Average canopy diameter at breast height (DBH; indicate units	·
30 in Dominant understory species (at least 3; scientific names; spe	li out):
Sassafras albidum, Acer Saccharum, Liciodendron Lulipifera Average understory DBH (indicate units):	

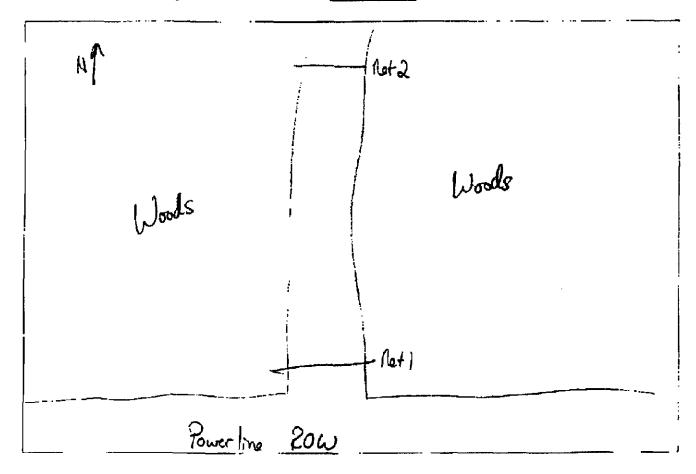
Site Name/Number: TEH-MN-0H-581B

Page 2 of 2

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
		PEIS-		

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: TEH-MN-OH- 581B

Page ___ of ___

WEATHER DATA

Date: 20 June 2008 Biologists: B Stellen J. Hammersley

County: Muskingum State: OH Quad: Norwich

Project Name: ZEX East 2008 Project Number: 1786.002

Estimated Moon Phase: new 1/4 1/2 3/4 (full)

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	64	-3	E	No	0%	
2130	64	1-3	٤	No	02	
<i>2</i> 205	62	<u>l-3</u>	se	76	0%	
2230	62	<u>l-3</u>	ε	Иo	0%	
2300	64	1-3	Ε	No	0%	
2330	64	1-3	E	Ио	0%	moon behind treeling
<i>0</i> ∞0	64	!-3	SE	No	0%	t) p d
0€ 03€	64	-3	Ę	No	0%	r u v
Olao	64	1-3	SE	No	0%	at si M
0130	64	دا	H/A	No	0%	в И V
0300	બ્ર	دا	N/A	ies	0%	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

Page / of A

BAT CAPTURE DATA SHEET

Site Name/Number: IEH-MN-OH-5818

). Harmersky Biologists: 8. 51+ffe はっ Date: 20 June 2002 County: Muskingum

Project Number: 1386 002 Quadrangle: Nocwich State: 2006 Project Name: REX Exist

Net 2 Size: width___ height 6m Net 1 Size: width 9m

9 m height _

Site Description/Comments: Both rats access a Mantanad ROW. ~ 250 ft against

			Comments		***************************************	2						
vicV:	Species	(scientific name	spell out)	Lasivens boreals +	Mysti 18615. 41	Mush sul stans	Man-s fue: L.s.	Machin Lac France	_	1 5		Mobils Incitions +
Net Down Time: A3iA	Band	Color/	Š	1	}		,	ĺ	1	1	1	1
Net Dov	RFA	Length	(mm)	9.14	38.6	38.1	26.	77.9	41.3	275	333	እንጋ
		Weight	(8)	11.5	7.0	7.0	0.0	10.0	150	9.6	0.	9.5
		Repro.	Cond.	7	d	ሌ	مـ	d	١		NR.	م
		Sex	(F/M)	丌	1	u	ie	u	i.L.	Ų.	٤	*
		Age	(√ 7)	A	٧	А	А	Ø	A	A	A	A
0		Height	Ē	જ	3m	314	4m	<u>{</u>	<u> </u>		J.	34
Net Up Time: 21.10		Time	(military)	21:20	22.to	2250	2520	33.40	33.40	33:50	23.50	34.06
et U			Š	ላ	ھ	7	Ĵ	ゃ	٦	ત	7	d
1-		Capture	No.		~6	€ √1	ч	S	9	1	8	6

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

20080723-0172 FERC PDF (Unofficial) 07/22/2008

Site Name/Number: TEH-mN -OH-581A

Page of of 2

		Comments			exape 6/4 we int	pre-believe	•									The second secon		
Charles	(scientific name	spell out)	Myotis septentrionalic +	Eplesicus fuscos +	Myotis theiftages	Lasing barealis	Myotis Jucifugge +	Myot. Sucrement										
Rand	Color/	Š.	-	[· .	į	1	Į										
REA	Length	(മ്പ	36.7	0.347	37.0	40.0	377	6 £ 2										
	Weight	(86)	9.0	25.0		17.0	10.0	\$ \&										
	Repro.	Cond.	P	٩	P	ρ	ρ	NR										
	Sex	-	+	L	Ŀ	П	T	F										
	Age	3	\forall	lacksquare	4	A	∢	A										
	Height	Œ	کر	χ,	4	<u>د</u> م	چ ج	5										
	Time	(military)	00:10	OF:00	01:10	०१:३०	05.10	ं १०										
	Ket	ŝ	~6	જ			æ											
	Capture	S	9		(۵	(3	1	15										

Site Name/Number: TEH-MN-OH-581B

Page _ | of _ ___

WEATHER DATA

1/4

Date: 22 June 2008

Biologists: B. Steffen, J. Hammersley

County: Muskingum

State: OH

Quad: Norwich

Project Name: <u>PEX East 2008</u> Project Number: <u>1786.002</u>

Estimated Moon Phase: new

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
Jloo	66	1-3	SE	No	70%	
2130	64	41	NIA	Но	100%	
2200	(બ	41	NA	No	100%	
<i>ટ</i> સેરડં <u></u>	64	41	N/A	No	100%	
2300	ය	ય	N/A	No	100%	Windows and the second
2330	မွ	دا	N/A	No	100%	<u>-</u>
0000	60	4	NA	No	100%	
0030	60_	<i>د</i> ا	NIA	Ho	100%	
0106	(øs	4	NIA	No	100%	
O130	58	دا	μļa	No	100%	
೦೩೦೦	58	دا	NIA	N	100%	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

Site Name/Number: TEH- MM-04-581B

Page 1 or 4

BAT CAPTURE DATA SHEET

Biologists: B. Steften, J. Hammersley Date: 22 June 2008

Project Number: 1786.009 Quadrangle: Nocwich State: OH Project Name: REX East 2008 County: Musking Um

_ height __ E Net 2 Size: width__ Net 1 Size: width Im height 6m

Site Description/Comments: Both ruts across a muntuned Row, ~ 250 ft epart

	to	Net 11n Time: 2110				İ		100	j		
		2112						Net Do	Net Down Time: 0215	0215	
		İ						RFA	Band	Species	
Capture		Time	Height	Age	Sex	Repro.	Weight	Length	Color/	(scientific name	
ġ	ġ	(military)	(m)	(₹ ?)	(F/M)	Cond.	8	(EE)	<u>ج</u>	spell out)	Comments
~		%;10	51	٧	W	ΝR	2.5	R.		Mrotis lucituare	
~6		33:10	٧۴	⋖	#		0.9	34.0	{	Mastis soptentinglis	
<i>مم</i>	٦	22.40	٤	∢	٤	NR	7.5	9.0	1	Myot- Leitacus	
۲.		23:20	1.5m	₹	ı	a	21.5	15.7	,	Coltscar fuger	
υÌ	رو	23:26	W	A	L	0 _	9.0	38.0	1	Maria (40 Monda	
٩	প্	23:30	w۲	٧	u.	۵.	31.5	1,6.1	١	EDISTON CATAL	
<u></u>	~	08:50	J.5m	A	M	2 2	\$0 \$0	33.8	1	Myst incitions	
8		φ ,	Jm	Ъ	F	رمد	4.5	75	1	Lasiwiki bacadir	
5	Ą	0100	75	?	٤	なな	-5-	\$8.5		Lasiarni bareali	
										1	

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MW-OH- SELIS

20080723-017	72 FERC E	DF	(Unof	fici	ial)	0	7/2:	2/2	908	ı	i	1	ı	ı	ı	1	i .	I	ı	ı	ı	ı	I	ı
Page of of a	Comments																							
Page	Species (scientific name spell out)	Lasiurys borads																						
	Band Cofor/ No.																							
	RFA Length (mm)	40.8																						
	Weight (g)	13.5																						
	Repro. Cond.	J Z		į																				
ड्या <u>ड</u>	Sex (F/M)	 															 						-	
Q	88 € (7/4)	A																						
TEH-MM	Height (m)	3m																						
Site Name/Number: [EH-MN-OH - 5813	Time (military)	01:10																						
ite Na	Net No.	70																						
\$	Capture No.	<i>a</i> ;																						

BH" Invironmental, Inc.

γ _r e
Site Name/Number: TEH-MN-OH-583 BY Page 1 of 2
NET SITE DESCRIPTION
Date: do, 22 Jule 2008 Biologists: S. Williams, G. Sans
County: Muskingum State: Ohio Quad: Norwich
Project Name: <u>Rex-East</u> Project Number: <u>1786,002</u> 00 /
UTM Zone: 178 GPS Waypoint Name: TEMNOH582.R
Easting: 4 2 7 9 7 5
Northing: 4 4 1 7 2 4 1
Comments (If photos taken, include direction camera was facing): Both 1815 BURSS BURGO CIER
STREAM NAME:
Bank Height (indicate units): 6
Channel Width (indicate units): 35 1
Stream Width (indicate units): 25°
substratum: rock, sand, pubble
Average Water Depth (indicate units): 2.5
Turbidity: miderate-low
Presence of open flyway above stream? YLS
VEGETATION:
Estimated % Canopy Closure: Net $1 = 10\%$ Net $2 = 35\%$
Dominant canopy species (at least 3; scientific names; spell out): Platanus occidentalis Juglans nigra, quercus velutina
Average canopy diameter at breast height'(DBH; indicate units):
Dominant understory species (at least 3; scientific names; spell out): His regulator flee Seech ann Hesculus glabra
Average understory DBH (indicate units):
Estimated density of understory vegetation: high moderate low BHE Environmental, Inc.

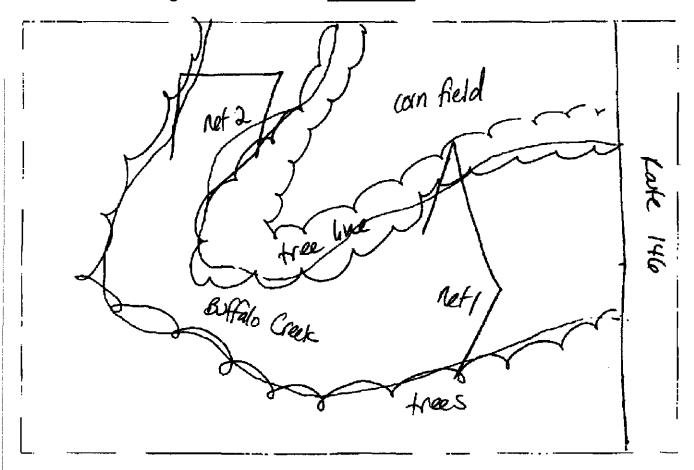
Site Name/Number: TEH-MN-0H-5828

Page 2 of 3

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comn	nents
overus alba	34"	INC	35%	couple of la	so brenches
		<u> </u>	ļ	w/ cavities	- i
	 	<u>:</u>	i		
	<u> </u>		i		
				<u>. </u>	i
	<u> </u>				

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: <u>TEH-MN-0H-58</u>

Page of

WEATHER DATA

Date: 20 June 2008

Biologists: S. Williams, G. Janos

State: Ohio Quad: Norwich

County: Muskingum

Project Name: <u>Kox East</u>

Project Number: 1786.002 00/

Estimated Moon Phase:

1/4

1/2

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	62	a	NIA	N	0%	
2130	60	a	N/A	N	0%	
2200	60	0	N/A	N	0%	
2230	60	0	N/A	N	0%	
2300	60	0	NA	N	0%	
2330	60	0	N/A	У	0%	
0000	59°	0	N/A	Y	0%	
0030	59°	0	N/A	У	0%	
0000	58	0	N/A	y	0%	
0130	58°	0	nla	У	0%	
0200	57°	clayh	Na	4	0%	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

leaves and small twigs in constant motion; blows up dry leaves 8-12 mph

13-18 mph moves small branches; raises dust

Site Mame/Number: 754 -MN-04-5828-85

BAT CAPTURE DATA SHEET

Page ___ or ________

Project Number: 1786.002 -00 Net 2 (30'x30' 3 thers Net 2 Size: width 30' height 50'Quadrangle: Norwich Biologists: S.Williams, G.Janus (42,x30, 3 hers) and State: height 30'Site Description/Comments: 1921 Rex-Eas Date: 20 June 2008 County: Muskhana Net 1 Size: width 43 Project Name:

	Net Ur	Net Up Time: $2/00$	20		!			Net Do	wn Time:	Net Down Time: 0200	
								RFA	Band	Species	
Capture	Net	Time	Height	Age	Sex	Repro.	Weight	Length	Color/	(scientific name	
Ž	Ņ.	(military)	(m)	(MJ)	(F/M)	Cond.	(8)	(mm)	Š	spell out)	Comments
1	8	2120	رة را	₩	W	Z	7.5	38.0	,	Myoths luciflans	
7	7	21.35	6.55	t	ľ	L	8.5	32.5		Proistellus suffavire	
Ø	ส	2135	6.5	4	ır	ታ	7.5	33.0	•	Piostiellus subflavis	
7	٧	2135	3.0	æ	Σ	Z	0.F	39,5	6	Mosts & lucificans	
5	ત	2135	01	A	IJ.	1	16.5	48.0	•	Entesions Areas	
Ø		2210	0.1	Ą	٤	2	14.0	41.0	i	Lasiurus borealis	
7	_	22 10	9.0	Ą	2	Z	0.0	34.5	1	Pinistre 11/5.5. LAPIANK	
æ	_	2230	8,5	Ą	그	P	9.0	34,0	i	Proistrellus subflaux	
ō	.	2280	6.0	4	4	A	16.0	16.0 41.5	\	Cosmon socialis	

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-0H-583.R.B.

Page 2 of 3

	a de de de de de de de de de de de de de		*																1	
Species	(scientific name	Proistallie Sublams	Proistrellis subfaux	Mostis historic	I ACINIK CINDONE											/	/			
Band	Color/ No.	1	1	,	,									/						
RFA	Length (mm)	34.5	84.0	38.5	58.5									<i>y</i>						
		2.5				T														
	Repro.	C	م	2	d						/	1								
	% ₹ ₹	1	IJ	M	П					/	/									
	≱ 86 (§	Y	A	A	Œ															
	Height (m)	0.5	0,5	7.0	9,5															
	Time (military)	1335	2335	2335	5100															
	ž Š	7	7	2	2			\int											<u>'</u>	
	Capture No.	10	IĬ	12	13		/										,			

B⊬ Tvironmental, Inc.

Site Name/Number: TEH-MN-OH-502

WEATHER DATA

Date: 22 June 2008

Biologists: S. Williams, G.

State: Ohio Quad: Norwich

Project Name: _

1/4

Project Number: 1786-002 00 |

Estimated Moon Phase:

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	44	4-7	W	10	100%	
2200	63	4-7	W	No	100%	
2300	63	41	N/A	No	100%	
0000	60	41	N/A	No	80%	
0100	59	41	N/A	No	90%	
0200	57	4	nla	Y38s	50%	
		·				
	<u> </u>	· · · · · · · · · · · · · · · · · · ·				

*Use the following guidelines to determine wind speed:

calm; smoke rises vertically; no perceivable movement < 1 mph

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

Site Name/Number: TEH-MN-6H-582848

BAT CAPTURE DATA SHEET

Project Number: 1786.002-001 Quadrangle: Nowich Biologists: O. Williams, G. Janus State: _ Net 1 Size: width 42 height 30 Project Name: Rax East Date: 28 July 2008 County: MUSKINGALIA

and Net 2 (30' x 30' 8 hors

Shers

Site Description/Comments: Net 1 (42 x30'

Net 2 Size: width 30' height 30

			Comments									
Net Down Time: 02.00	Species	(scientific name	spell out)	Muntie lete front	Fotosus fuerus	Lacing harasi's	Postrollus with Flours	Mont's her Dunger	Munt's luc. Puene	Mint a social	Most's low come	
wn Time:	Band	Color/	Š									
Net Do	RFA	Length	(mm)	38.0	48.5	39.5	34.5	3/0.5	37.5	37.0	35, 5	
	L	Weight	(B)	7.5	19.0	12.5	9.0	2.0	10.5	1.0	6.5	
	1	Repro.	Cond.	1	7	7	d	×	d	d	>	
		Sex	(F/M)	N	d	¥	2	¥	3	12.	M	
		Age	(√)	A	*	*	*	¥	4	¥	4	
00		Height	Ξ	3.0	7.0	1.0	0.5	8.0	4.0	8.5	6.0	
Net Up Time: &100	j	Time	(military)	21:45	24:00	32:00	22:05	22:15	22:25	22:25	22:40	
et Up	-	Z	Š.	-	4	7		,	B	લ્ય	68	
		Capture	ġ Ż	,	6	*	4	γ.	e	7	90	

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-OH- 583A (Unit 12H-0H-25/K-5) Page of _G
NET SITE DESCRIPTION
Date: 20 June 2008 Biologists: L. Winhold + M. Farmer
County: Muskingum State: Ohio Quad: Morwich
Project Name: REX East Project Number: 1786.002-00
UTM Zone: 17 S GPS Waypoint Name: TEMNOH 583A
Easting: 4 2 8 5 0 1
Northing: 4 4 1 7 5 7 9
retted tract OH-MK-205.000 + OH-MK-205.501
STREAM NAME: Williams Fork
Bank Height (indicate units): $\mathcal{J}_{\boldsymbol{\omega}}$
Channel Width (indicate units): [L] >
Stream Width (indicate units): 14m (though mostly sand but at net)
Substratum: Sand + gravel
Average Water Depth (indicate units): / ~
Turbidity: cloudy in deeper spots. clear mostly. some current
Presence of open flyway above stream?
VEGETATION:
Estimated % Canopy Closure: Net 1 = 70 Net 2 = 30
Dominant canopy species (at least 3; scientific names; spell out): Fraxinus pennsyl vanicus Pladanus occidentalus Acaculus glabra Average canopy diameter at breast height (DBH; indicate units): 40cm
Dominant understory species (at least 3; scientific names; spell out): Acer regundo, Robinia pseudoacacia, Aesculus glabra Average understory DBH (indicate units): 5cm

Estimated density of understory vegetation: high moderate low BHE Environmental, Inc.

BHE Environmental, Inc.

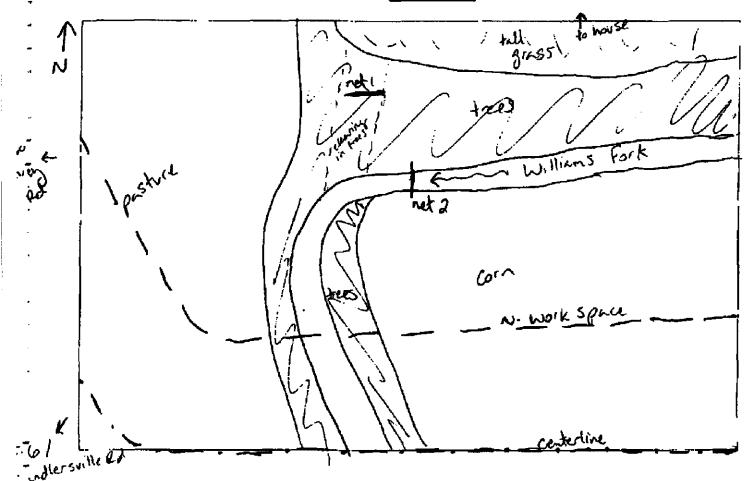
Site Name/Number: TEH-MN-OH-583A

Page 2 of 3

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
				,

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: TEH-MN-OH-583A

Page of

WEATHER DATA

1/4

Date: 20 June 2008 Blologists: L Winhold + M. Farmer

County: Muskingum State: Ohio Quad: Olivich

Project Name: REX EAST Project Number: 1786.002-001

Estimated Moon Phase: new

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
21:00	64	41	ســ	cn	15	
21:30	63	41	_	no	10	
22:00	62	41		20	0	
22:30	61	۷)		\o	0	lightning in distant
23:00	61	41		20	0	lightning in district
<i>a</i> 3:35	60	41		yes	Ð	district S.
24:50	59	٨ (zes	0	
05:30	59	١ ٪		yes	0	f-552
O(:D0	58	41		zes	0	F0987
01:30	58	41		yes	0	f-363-
၁၃:၀၁	58	4 1)	ye5	0	රිණි

*Use the following guidelines to determine wind speed:

- < 1 mph calm; smoke rises vertically; no perceivable movement
- 1-3 mph smoke drift shows wind direction; barely moves tree leaves
- 4-7 mph wind felt on face; leaves rustle; small twigs move
- 8-12 mph leaves and small twigs in constant motion; blows up dry leaves
- 13-18 mph moves small branches: raises dust

Sive Name/Number: JEH-MN-OH-583A

Page ← of ⊥

BAT CAPTURE DATA SHEET

Project Number: 1786.002-00 __height _____ Quadrangle: Hockerth Net 2 Size: width 12 m Biologists: L. Winhold & M. Farmer corridor in ag land across streams. Woods confide stream State: Ohio Site Description/Comments: Face Steel Cipurian 5 Net 1 Size: width 12m height Project Name: AEX EAST Date: 20 June 200 % County: Muskingum

Z	et Up	Net Up Time: 2^{1} . ∞	ઇ					Net Do	wn Time:	Net Down Time: 02:00	
,	;							RFA	Band	Species	
9			Height	¥ 6	Sex	Repro.	Weight	Length	Color/	(sclentific name	•
ġ.	ė	(military)	E)	3	₩ /Ł	Cond.	(3)	(mm)	No.	spell out)	Comments
_	ત્વ	21:10	نې 0	Ą	V	Ļ	14.5	47.5	1	Entesions Process	
ره	_	24:48	0.5	A	力	7	140	450	1	A Strict S Doctor	
3	-	40:00	5'1	А	Ų	7	13.5	40.0	\	ANIMAS POCALIS	
5	_	24:03	3.0	4	W	N	12.4	39.1	1	Lasivin's boreatis	
5		61:13	2.0	А	٤	7	13.2	4.0	1	LASIVEUS DOVERLIS	
Reproducti	ive Co	Reproductive Condition: N = non-reproductive P = pre	חטח-רפחרר	Shirting	ב ב ב	- Jucoso	- lantati	10 PA	1-6-6	Let marte AT marter factorities of marter and marter	

reproductive Condition: N = non-reproductive, Y = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH -Au -OH-5834

Page ___ of ___

WEATHER DATA

Date: 6.25.08 Biologists: Samoray, Gardner

County: Musking ... State: OH Quad: florwich

Project Name: <u>REX East</u> Project Number: <u>1796.003-001</u>

Estimated Moon Phase: new ¼ ½ ¾ full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	69°	41	_	N	100%	
2130	68°	41		N	100%	,
2200	68°	41		\sim	100%	
2230	66°	41		N	100%	
2300	66°	۷		N	100%	
2330	66°	۷١	_	N	160%	
0000	660	۷		N	100%	
0630	66°	41	<u> </u>	N	10090	
0100	66°	41		N	100%	
0130	650	1-3	W	N	1007.	
0200	650	4-7	W	N	100%	storms in area

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

Sue Name/Number: JEH-MM-OH-583 A

BAT CAPTURE DATA SHEET

1, Caschner	Quadrangle: <u>Nacinich</u>	Project Number: 1786.003 - 001	Net 2 Size: width 12 nheight 7		
Biologists: Samoray, Crachres	State: OH		height 7.	Site Description/Comments: Facested apacies carrider in ag land	commenting second to han house
Date: 6.25.08	County: Munkingum	Project Name: REX East	Net 1 Size: width 12m !	Site Description/Comments: Ea	West across opening in woods of

Capture Net Time Height Age Sex Repro. Weight Length Color/ (Scientific na. No. (military) (m) (A/J) (F/M) Cond. (g) (mm) No. spell out) 2 2 1 2 2 2 4 0 4 7 6 4 7 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ž	밁	Net Up Time: 2	2100					Net Do	wn Time	Net Down Time: 02.0D	
Net Time Height Age Sex Repro. Weight Length Color/ No. (military) (m) (AJ) (F/M) Cond. (g) (mm) No. 2 2 140	1			,					RFA	Band		
No. (military) (m) (AJ) (F/M) Cond. (g) (mm) No. 2 2440		ž	Time	Keight	Age	Şex	Repro.		Length	Color/	(sclentific name	
2335 1.0 J F N N.0 40.0 Latinus 2340 4.5 A F L AI.0 50.0 — Especies 0020 5.0 A M TO W.0 40.0 — Latinus 0020 5.5 A F L M.5 41.0 — Latinus		일	(military)	٤		(F/M)	Cond.	(8)	(mm)	è.	spell out)	Comments
2235 1.0 J F N M.0 40.0 — 2240 4.5 A F L 31.0 50.0 — 5020 5.0 A M TO W.0 40.0 — 5020 F.S A F L M.5 41.0 —	-	2	2140	و.ه	¥	W	N	2.5	34.5	1	Perinanti coltina	
2240 4.5 A F L ALO 10.0 — 0020 5.0 A M TO W.0 40.0 — 0020 5.5 A F L M.5 41.0 —	۲		2235	1.0	to	<u>u</u>	7	74.0	\$0.0		The desired of the second	
5.0 A A TO W.0 40.0	ເປ	べ	2340	4.5	٧	π	1	٥: ٦: ٥	50.0	1	Cotton Career	
E.S A F L M.S 41.0 —	7	_	0000	5.0	4	¥	7.0	0,41	40.0	1	Last State Property	
	5	-	06.00	5.3	*	ŭ	1	74.5	41.0		Lecisive becalis	The Lake N

pregnant, L * lactating, PL * post-lactating, TD = testes descended

Roost used by Indiana bat 172.177 in Clinton County, Ohio.



0080723-0172	FERC PDF	(Unofficial) (17/22/2008				
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-		Annandiy C	Photographs of	Panet Head by	ladiana Ras 1	7) 477	
•		Appendix C.	* Hotographs of	MOUSE OSEC DY	ווונוימוום טמנ ו	12.177	
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TEH-MN-OH-BR-COASA

Sice Name/Number: TEH-MM OH 6257

Page 1 of 1

BAT CAPTURE DATA SHEET

31	Quadrangle: Hunter	Project Number: 1786.003.001	width 18' height 20'
Biologists: Severey , Vacane	State: OH		30' Net 2 Size: width
Date: (4.30.08	County: Beating Relagat	Project Name: REX Fast	Net 1 Size: width 18' height

bass & + Host ga ra

a face of in a wood lot betoveen

Site Description/Comments: Bath wets are across

	Corc	Consider
	Net Down Time:	200
	Net D	V40
	8 ~	
i	Net Up 11me	

1	Net Up	Net Up Time: み100	8					Net Do	Net Down Time:	Caoco	
Capture Net No. No.	Net No.	Time (military)	Height (m)	Age (A/J)	Sex (F/M)	Repro. Cond.	Weight (g)	RFA Length (mm)	Band Color/ No.	Species (scientific name spell out)	Совщения
-	7	2220	0,5	Ą	1	نــ	7.5	37.0		Myotis Leptentrionalia	
4	4	0000	(.0	٧	*	NR	۲.0	37.0		Monthly and transfer by	
							:				
				,							
Donnalin	Thy C	Denmaligative Condition: Names assessed		A set in se				2			

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-OH-GASA

Page ___ of ___

WEATHER DATA

Date: <u>6.30.08</u>

Biologists: Sameray, Gardwer

County: Borber

State: OH

Quad: Huntee

Project Name: REX East

Project Number: 1786.003-00

Estimated Moon Phase:

1/2

full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Caver	Comments
2100	60°	1-3	W	N	100%	
2130	60°	1-3	W	N	100%	
2200	600	4	₩	2	100%	
233D	55°	<u> </u>		N	८००८	
2300	580	4	_	Ŋ	100%	
a330	58°	41		N	100%	
0000	550	۷1	-	Ŋ	100 %	
0030	540	۷1	_	N	100%	
0100	580	۷1	_	N	100%	
0136	580	41	_	~	5001	
0200	580	<i>د</i> ا		N	100%	

*Use the following guidelines to determine wind speed:

< 1 mph

calm; smoke rises vertically; no perceivable movement

1-3 mph

smoke drift shows wind direction; barely moves tree leaves

4-7 mph

wind felt on face; leaves rustle; small twigs move

8-12 mph

leaves and small twigs in constant motion; blows up dry leaves

13-18 mph

moves small branches; raises dust

Sice Name/Number: TEH MW-04-6254

77

age 1 of 1

BAT CAPTURE DATA SHEET

Date: 6,29.08	Biologists: Samoray, Sarduc	
County: Rettern Belment	State: OH	Quadrangle: Hunter
Project Name: REX East		Project Number: 1786.003-00/
Net 1 Size: width 18' height 30		Net 2 Size: width 18' height 20'
Site Description/Comments: Both nots at	c across a factor rd in a way	that are across a form of in a wooded area between a as a field + mad

, -		T. Carrier								1	
	3	ויכן כל אוווופי ביוסס	00					Net Do	Net Down Time:	0000	
								RFA	Band	Species	
Capture Net	Net	Time	1	Age	Ş	Repro.		Length	Color/	(scientific name	
ġ Z	Š.	(military)	(m)	(√)	(F/M)	Cond.	<u>(8)</u>	(mm)	Š	spell out)	Comments
		2230	5.5	¥	1	لہ	7.0	37.0	ļ	Marehie marken	
ل	R	2355	٦٠	4	u.	٦.	91.0	49.0	ì	Fater: E	
								3,14			
Reproduci	tive Cc	andition: N =	non-repre	ductive	P = 0r	egnant.	= lactatin	10 Pl	st-lactatir	Reproductive Condition: N = non-reproductive. P = prepart = lactating Pl = most-lactating Th = testes decreaded	

"Idctating, PL * post-lactating, TD = testes descended

2330

0000

0030

0100

0130

0200

630

630

630

63°

63°

63°

4

41

41

41

41

4

weathr

WEATHER DATA

Date	27. OF	100-601	Projectigat	ect Name or Initials	REX East	Huntes
Net Site L Site Numb		County S	ite Name:	State <i>TE</i> H- A	<u>он</u> Qúad: N/ -он - 625 7	Hunter 4 BR-005A
Mod	n Phase	: new	%	1/2	3/4	full
Time (2400 h)	Temp (C)	Wind Speed*	Wind Direction	Moon Visibility	% Cloud Cover	Comments
2100	65°	41		~	60%	
2130	640	۷1	_	N	56%	
2200	640	41		N	50%	
2730	640	41		N	50%	
2\$00	63°	۷1	_	~	20%	

N

N

M

N

N

N

37,

30%

0%

0%

0%

0%

calm; smoke rises vertically; no perceivable movement < 1 mph

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

leaves and small twigs in constant motion; blows up dry leaves 8-12 mph

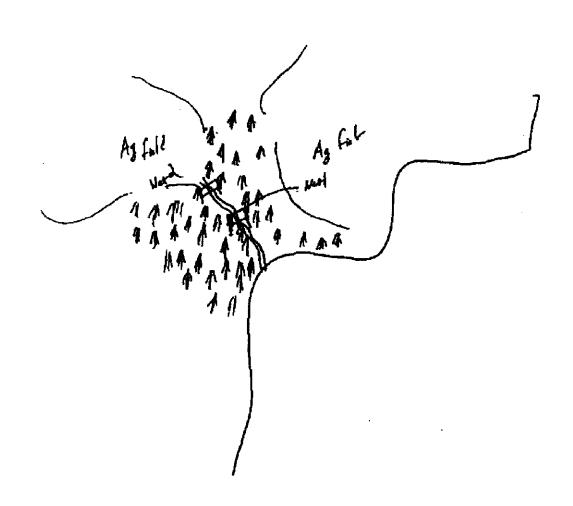
13-18 mph moves small branches; raises dust

^{*}Use the following guidelines to determine wind speed:

Description of potential Indiana bat roost trees visible from net site

Tree Species	Est. dbh	Live or dead	Est. % loose bark	Comments
Caren meda	40cm	live	58%	
Carra orata	50 cm	lite	50%	
Carya over	50cm	live	707.	
				
		 		
				
				
		<u> </u>		

11



NET SITE DESCRIPTION

		
TEH-MN-OH-	BZ-	005A
1000		

Project: REX East Date: 6, 29.68
County, State: 6 H Name: TEH-HN-0H-BR-00SA
Quad: Hunter Stream/Drainage: —
UTM Zone: 175 Biologists: Sampley, Garden
Easting: 4 9 6 3 8 9
Northing: 4 4 1 5 8 9 4.
Comments (provide site diagram on reverse with net locations):
STREAM:
Bank Height:
Channel Width:
Stream Width:
Substratum:
Average Water Depth:
Turbidity:
Presence of open flyway above stream?
VEGETATION:
Estimated % Canopy Closure:
Dominant canopy species (3): Querrus albo, Carya avata, Querrus rubra
Average canopy DBH:
Dominant understory species (3):
Aesculus glabra, Accr Saccharum, Crataegus sp. Average understory DBH:
Estimated density of understory vegetation: high moderate low
Herbaceous species:

Site Name/Number: TEH-MNOH-003A

Page 1 or 1

BAT CAPTURE DATA SHEET

Biologists: J. Williams, G. Lanos	Quadrangle: Beressoille	Project Number: 178(p.002-001	Net 2 Size: width $/\beta$ height 20 ,
Biologists: (1011)	State: Odio		30.
Date: 30 June 2008	county: Belmont	Project Name: Rex-Eust	Net 1 Size: width So height

Site Description/Comments: <u>Mori</u> MLOSS 4-08SS CAA OF

ĬŽ	et U	Net Up Time: 2//5	15					Net Do	۷n Time:	Net Down Time: 02(5	
	:	j			1			RFA	Band	Species	
Capture Net	<u>ج</u> چ	Time (military)	Height	Age (₹/)	Sex (F/X)	Repro.	Weight (a)	Length (mm)	Color/ No	(scientific name	
					4		Į			יובריוו ממני	
	\int										
		المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة ا			1	K	X	1001	190111001	(0	
						P	,	5		7	
	•										
	j										7
Reproducti	Xe C	ondition: N =	non-repro	xductive	1 P = D.	egnant, L	= lactatir	00 = 16 .gc	st-lactati	Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating. Pl = nost-lactating. TD = testes degreeded	

20080723-0172 FERC PDF (Unofficial) 07/22/2008

Site Name/Number: TEH-MN-0H-003 A

Page ____ of ____

WEATHER DATA

Biologists: S. Williams, G. Janos

Project Number: 178/a-002.001

Estimated Moon Phase: (new

1/2

full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2115	59	4	na	No	480%	
2145	58	1-3	X	10	165%	
2215	58	<	nla	00	20%	
2245	5B	4	na	Пo	0%	
2315	58	V	nla	00	30%	
2345	58	دا	nla	NΘ	50%	<u> </u>
Q0 15	58	4	na	90	60%	
0045	58	4	nla	Ob	100%	
0115	58	۷	nla	00	100%	
0145	58	21	nla	Λδ	100%	
0215	58	7	nla	NO	100%	

*Use the following guidelines to determine wind speed:

< 1 mph

calm; smoke rises vertically; no perceivable movement

1-3 mph

smoke drift shows wind direction; barely moves tree leaves

4-7 mph

wind felt on face; leaves rustle; small twigs move

8-12 mph

leaves and small twigs in constant motion; blows up dry leaves

13-18 mph

moves small branches; raises dust

Site wame/Number: IEH - MIN OH - OOS A

Page 1 01

BAT CAPTURE DATA SHEET

ems , M. Farmer	Quadrangle: Barresville	Project Number: [786,002 05]	Net 2 Size: width 18' height 20'
Biologists: S. Williams	State: Ohio		30' Net 2 Si
Date: 29 June 2008	County: Lelmant	Project Name: Rox-East	Net 1 Size: width 30' height

1,
1/00
7,
7
2116
ZIK
1 6
Net Lin Tim

Net 2 (18' x20' 2

and

150'x30' 3 hers

Site Description/Comments:

0-055

00055

Net	Net Up Time: $\mathscr{L}/$	7/5					Net Do	<i>∗</i> n Time:	Net Down Time: 02/5	
Capture N No.	Capture Net Time H No. No. (military)	leight (m)	Age (A/J)	Sex (F/M)	Sex Repro. (F/M) Cond.	Weight (g)	RFA Length (mm)	Band Color/ No.	Species (scientific name spell out)	Comments
1										
				V 1 V	S S	Y	19 MAN 18 18 18 18 18 18 18 18 18 18 18 18 18	1 100 1	2	
ć				100)	5		þ	
	-								/	
										/
	_									
200	Commenter of the fact of the f			•						

Reproductive Condition: N * non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

20080723-0172 FERC PDF (Unofficial) 07/22/2008

Site Name/Number: <u>TEH-MN-0H-003</u> A

Page of

WEATHER DATA

Date: 29 June 2008

Biologists: S. Williams, M. Farmer

County: Belmont

State: Dhio_

Quad: Brenezville

Project Name: <u>Kex-East</u>

Project Number: 1786:002 20/

Estimated Moon Phase:

new/___(1/4)

1/2

full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2115	68	د ا	nla	no	50%	
2145	66	4	na	20	50%	
2215	63	4	nla	NS	0%	
2245	62	4	na	00	0%	
2315	60	4	nla	. N O	0%	
2345	60	د	nla	No	0%	
0015	60	<	na	90	0%	
0045	60	2	na	no	0%	
0115	60	۷	rrla	10	0%	
0145	60	<	nla	no	0%	
0215	60	4	nk	9	0%	

*Use the following guidelines to determine wind speed:

< 1 mph

calm; smoke rises vertically; no perceivable movement

1-3 mph

smoke drift shows wind direction; barely moves tree leaves

4-7 mph

wind felt on face; leaves rustle; small twigs move

8-12 mph

leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

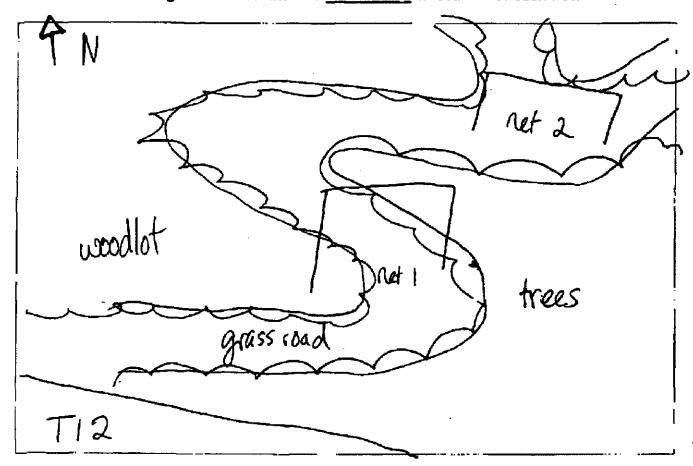
Site Name/Number: TEH-MN-0H-103A

Page 2 of 2

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
			, , , , , , , , , , , , , , , , , , , ,	
		1114		

Drawing of net site. Include north arrow & location of each net.



080723-0172 FERC PDF (Unofficial) 07/22/2008
Site Name/Number: TEH-MN-0H-003A Page 1 of _
NET SITE DESCRIPTION
Date: 29-30 JUNE 200 Biologists: S. Williams, M. Farmer, G. Janos
county: Belmont State: Ohio Quad: Barnesville
Project Name: Rex-East Project Number: 1786-002 001
UTM Zone: 175 GPS Waypoint Name: TEMNOHOO3
Easting: 4 8 7 4 2 9
Northing: 4 4 1 6 7 7 9
Comments (If photos taken, include direction camera was facing): Bh. Nels across grass road off of Canty Rd 772
STREAM NAME:
Bank Height (indicate units):
Channel Width (indicate units):
Stream Width (indicate units):
Substratum:
Average Water Depth (indicate units):
Turbidity:
Presence of open flyway above stream?
VEGETATION:
Estimated % Canopy Closure: Net 1 = 45% Net 2 = 30%
Dominant canopy species (at least 3; scientific names; spell out): ACE SACCHASOM, OVERUS ALBA, Juglans nigra- Average canopy diameter at breast height (DBH; indicate units):

Average canopy diameter at breast height (DBH; indicate units):

ACT Saccinery,

Dominant understory species (at least 3; scientific names; spell out):

All ERCHANN, CAHLUS Sp., Were alba
Average understory DBH (indicate units):

Estimated density of understory vegetation: high moderate low

Site Name/Number: TEH-MN-04001 A

Page L of L

BAT CAPTURE DATA SHEET

Quadrangle: Burnesiville Biologists: B Steffen J. Ikmmers by State: OH Date: 37 June 2008 County: Belmark

Project Number: 1786.003 Project Name: REX East 2008

Site Description/Comments: Both nets access a dirt Ford that dead ends @ Burnsville Reservor Net 2 Size: width on height __height__ Net 1 Size: width cem

	Net Down Time: 0215	Band (2)	(g) (mm) No. spell out) Comments	o Fa-d	9.0 390 - Austic Incituans	8.5 39.0 - Myoti, Incitage	7.5 37.2 - Muchs septembers			
		400	(A/J) (F/M)	AM	AF	A	Am		-	
1	: 4115	Time Height			5 3.5m	5 1.5 m	ي باس			
	Net Up I me: A115	Net Tet	Ş.	A 2305	H10 1	1 01:45	2 C205			
		Capture	Š		ત્હ	~	3			

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MH-OH-001 A

Page _!_ of _!_

WEATHER DATA

Date: 37 June 2008

Biologists: 8. Seffen J. Hammersky

County: Belmont

State: OH

Quad: Barnezville

Project Name: **REX East 2008** Project Number: <u>1786.002</u>

Estimated Moon Phase:

full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
Alos	74	۷	NA	No	60%	
2130	74	_4	MA	No	40%	
33.00	72	4	N/A	No	40%	
2230	_ 7 2	٤١	NIA	No	20%	
4500	72	4	NA	Ho	20%	
2330	72	4	NA	No	20%	
0066	70	۷.	MA	No	10%	
0030	70	41	NA	No	0%	
8	70	4	NA	No	30%	
0130	70	4	NA	No	50%	-
0200	70	41	N/A	No	100%	

*Use the following guidelines to determine wind speed:

< 1 mph

calm; smoke rises vertically; no perceivable movement

1-3 mph

smoke drift shows wind direction; barely moves tree leaves

4-7 mph

wind felt on face; leaves rustle; small twigs move

8-12 mph

leaves and small twigs in constant motion; blows up dry leaves

13-18 mph

moves small branches; raises dust

Site Name/Number: TEH-MM-OH -001A

BAT CAPTURE DATA SHEET

1. Hummersley	Quadrangle: Bames Ville	Project Number: 1786.003	Net 2 Size: width Jam height by	s across a dirt road that dead ends @ Barnesville Resevior	
Date: 26 June 2008 Biologists: B. Steffen, I Hummersley	County: Belmont State: OH	Project Name: REX East 2008	Net 1 Size: width fom height fom Net	Site Description/Comments: Both refs across a dirt road H	

	et Up	Net Up Time: 2110						Net Do	«n Time:	Net Down Time: 28 45 (chsed due to Gin / mind / 11/4 Line)	Said hind I like
4	1	F		•		_		RFA	Band	Species	
No. No.	2 2	(military)		¥ge (* / € / € / € / € / € / € / € / € / € /	XeX L	Kepro.	Weight	Length	Color/	(scientific name	
			1	2		2 2	/2/	(11111)	30.	spell out)	Comments
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antodiant.	ive C	Pentuchine Condition. N - non serendinties	2007 000		- 9	1,000] 			

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-OH

Page __ of ___

WEATHER DATA

Date: 26 June 2008

Biologists: B. Steffen

County: Belmont

State: OH

Quad: Barnesville

Project Name: REX Each 2008

1/4

Project Number: 1786 002

Estimated Moon Phase: new

full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments	
2100	- T a	41	NIA	No	100%		
2130	72	1-3	5	No	100%		
2200	72	۲۱	NA	No	100%		
2230	_{0}	دا	N/A	No	100%	·	
2 300	70	<u> -3</u>	5	No	100%		
2330	70	!-3	5	Alu	/00%		
0880						called ble of rain/u	ind/
0030						Called ble of rainfu	Phonim
Oloo			\nearrow				
<i>0</i> 130							
O\$80							_

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

Site Name/Number: TEH-IMI-04-001A

Page 1 or 1

BAT CAPTURE DATA SHEET

ammersky	Quadrangle: Barnes Ville	Project Number: (786.002	Net 2 Size: width 6m height 6m	ends @ Barnsrille Resemble.	
Date: 25 June 2008 Biologists: B. Steffen, J. Hammersky	sinont State: OH	Project Name: REX East 2008	Net 1 Size: width com height com Net 2 Size:	Site Description/Comments: But nots across a dirt road that dad ends @ Barnsville Reprint	
Date: 25	County: Belmont	Project Na	Net 1 Size	Site Descri	

Net Down Time: Assa	Repro. Weight Length Color/ (sci	Cond. (g) (mm)	0				
	Repro. Weight	Cond. (g)					
	Height Age Sex	(m) (AJ) (F/M)					
Net Up Time: 2120	Net Time	OOOO					
	Capture	- P					

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-OH-001A

Page _! _ of _!_

WEATHER DATA

Date: 25 June 2008 Biologists: B. Sleffen J. Hammersley

County: Belmont State: OH Quad: Barnesville

Project Name: <u>REX_East_2008</u> Project Number: <u>1786.002</u>

Estimated Moon Phase: new ¼ () ½ ¾ full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	70	41	MA	No	100%	light sprinkles
2130	Œ	4	NA	No	100%	
2200	68	e j	NA	No	80%	
<i>82</i> 36	48	<u>د ا</u>	NA	No	30%	
2300	68	L]	HIA	No	20%	
2330	(de	ા	NA	No	40%	
6600	66	ા	N/A	No	60%	
<i>0</i> 030	66	4	N/A	No	100%	
Q(aD	66	4	NJA	No	100%	
0150	68	<i>i-</i> 3	Sω	No	100%	
ර2 ණ	68	1-3	SW	No	100%	light sprinkles

^{*}Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

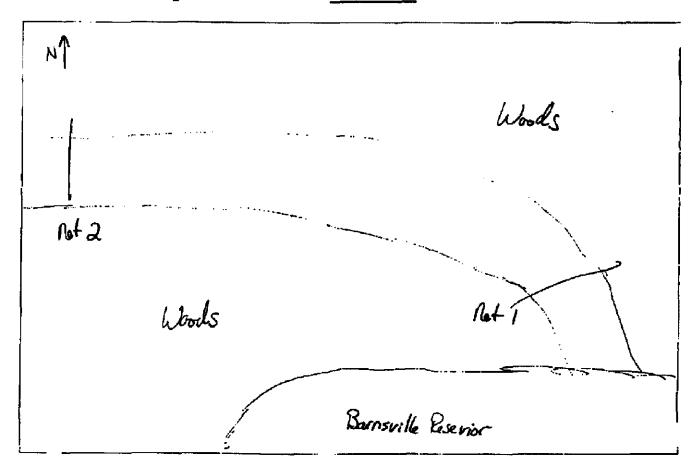
Site Name/Number: TEH-MU-04-001A

Page 2 of 2

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
	!	11 PRT		
				
/	<u> </u>			

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: TEH-MH-0H-001A

Page ⊥ of 2

NET SITE DESCRIPTION

Date: 25 June 2008	_ Biologists: ,	B. Stoffen, J	Hammersler	1
County: Belmont	State: <u>OH</u>		Quad: Barr	nes ville
Project Name: ZEX Far	4 2008	Proje	ect Number: /	1786.002
UTM Zone:175	GPS \	Waypoint Nar	ne: <u>TEMNOH</u>	OOLA
Easting: \underline{q}	8 4	6 3	٥_	
Northing: 4	4 1	8_1	96	
Comments (If photos take across a dict road Un				
STREAM NAME:				
Bank Height (indic	ate units):			
Channel Width (inc	dicate units):	;		
Stream Width (ind	icate units):			
Substratum:		M	'A	
Average Water Dep	oth (indicate	units):		
Turbidity:				
Presence of open t	ilyway above	stream?		
VEGETATION:				
Estimated % Canop	y Closure:	Net 1 = 60%	٤	Net 2 = 40%
Dominant canopy s Jugians ragra, Gled Average canopy dis	litsia triaca	nthos. Quero	us imbricaria	
Dominant understo Bugkins night, Gle Average underston 3	ory species (a .ditsia_triac y DBH (indici	it least 3; sci infkos, Malu ite units):	ientific name s sylves tris	s; spell out):
Fetimated density	af undarstan		(high) mada	rato low

Site Name/Number: TEH-MN-OH-ON) A

BAT CAPTURE DATA SHEET

Project Number: 1786 062-00 Net 2 Size: width 42 height Quadrangle: Sacresialle Biologists: C.Williams, G. Janus State: height Project Name: Rex-East Date: 27 June 2008 Net 1 Size: width 30 county: Belmant

Site Description/Comments:

_	f			1	1	1		ľ		
		Comments								
Net Down Time: 02/5	Species (scientific name	spell out}	Months septentrionalis	Mostis Westigans	P					
wn Time:	Band Cotor/	Š								
Net Do	RFA Length	(mm)	37.0	38,0						
	Weight	(36)	3	7.5						
	Repro.	Cond.	N	7						
	Sex	(F/M)	И	Ħ						
	Age	(M)	A	A						
15	Height	(m)	7.5	96						
Net Up Time: 2115	Time		2355	2355						
let Up	Net	No.	/	_						
12	Capture Net	No.		જ		1				

Reproductive Condition: N = non-reproductive, P = pregnant, L * lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-0H-00/A

Page of |

WEATHER DATA

Biologists; J. Williams G.

State: Ohio

Project Name: Rex- East

Project Number: 1786-002 -001

Estimated Moon Phase: new

1/2

full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2115	71	4	nla	Λ6	100%	
2145	71	دا_	nla	M 6	100%	
2215	70	4	nla	20	00%	
2245	70	4	nla	20	100%	
2315	70	4	nla	Λ6	60%	
2345	70	4	SW	No	60%	
0015	69	4-7	5~	10	60%	
0045	68	4-7	SW	No	80%	
0115	68	1-3	SW	10	80%	
0145	68	1-3	SW	10	80%	
1215	68	1-3	SW	Λo	80%	

^{*}Use the following guidelines to determine wind speed:

< 1 mph

calm; smoke rises vertically; no perceivable movement

1-3 mph

smoke drift shows wind direction; barely moves tree leaves

4-7 mph

wind felt on face; leaves rustle; small twigs move

8-12 mph

leaves and small twigs in constant motion; blows up dry leaves

13-18 mph

moves small branches; raises dust

Site Name/Number: TEH-MN-OH-WOA

BAT CAPTURE DATA SHEET

ō

M. Farmer	Quadrangle: Barnesville	- Project Number: 1786,002 00/	Net 2 Size: width 43' height 30'	25'x36'3hers) and Not 2 (47'x20' 2 hers)	0
2008 Biologists: S.Williams W. Farmer	Schoot State: Shi'o	ex East	, height 30'	73	, atts
Date: 26 June 2008	County:	Project Name: Lex Eust	Net 1 Size: width 30	Site Description/Comments: Met	Fand art

1											
	ket C	Net Up Time: 2/1/5	[5					Net Do	wn Time:	Net Down Time: 28/5	
								RFA	Band	Species	
Capture Net	Net	Time	Height	Age	Sex	Repro.	Weight	Length	Color/	(scientific name	
No.	No.	(military)	(E)	(F/7)	(F/M)	Cond.	<u>@</u>		Š	spell out)	Comments
ı											
	I										
				Z	×	0	V	7	011		
					9	LA A	2				ē
Reproduct	tive Co	Reproductive Condition: N = non-reproductive P = preon	non-report	aductive	Panr	Ponant	= lactativ	10 or	Statutation	ant I a lactating DI a portularisation TD - toutor descended	

• pregnant, L = lactating, PL = post-tactating, TD = testes descended

Site Name/Number: 1EH-MN-0H-000A

Page ___ of ___

WEATHER DATA

Date: 26 June 2008

Biologists: J. Williams, M. Farmer

County: <u>Belmont</u>

State: Ohio

Quad: Barnesville

Project Name: Rex- East

Project Number: 1786.002-001

Estimated Moon Phase:

1,

4 V2

full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2115	71	1-3	NVV	n 0	100%	
2145	72	4-7	NW	10	100%	
2215	71	いい	W	9	100%	lightening to the
2245	68	4-7	₩	na	100%	heavy rain nets
2315	8	812	とろ	50	100%	ramed at
						
				· — ·		
						-

*Use the following guidelines to determine wind speed:

< 1 mph

calm; smoke rises vertically; no perceivable movement

1-3 mph

smoke drift shows wind direction; barely moves tree leaves

4-7 mph

wind felt on face; leaves rustle; small twigs move

8-12 mph

leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

Site Name/Number: TEH-MN-OH-000A

BAT CAPTURE DATA SHEET

Project Number: 1786. 002 -00 Quadrangle: Sagresville Biologists: J.Williams, G. Janos State: DIN'D Project Name: RX FASH Date: 25 June 2008 County: Belinant

Net 2 Size: width 42' height 30'

Net 2 (42'x 20' 2 hes

(30'x 30' 3 fiers)

Site Description/Comments:

height 30

Net 1 Size: width 30'

Net Down Time: 0200	Weight	(mm) No.	7.0 36.0 Ment's Sententrinal's					
	Sex	(F/M)	¥		-			-
	Age	(m) (M)	4					_
90			3.5					
Net Up Time: \$100	Time		2325					
Vet Up	Z et	Ŋġ.	/					
`~	Capture	No. No.	_					

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD ≈ testes descended

20080723-0172 FERC PDF (Unofficial) 07/22/2008

Site Name/Number: TEH-MN-OH-OOOA Page of

WEATHER DATA

Date: 25 June 2008

Biologists: S. Williams, G. Janos

County: Belmont

State: Ohio

Quad: Barnesu'lle

Project Number: 1786,002 001

Estimated Moon Phase:

full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	74	1-3	W	20	30%	
2130	73	1-3	W	NO	50%	
2200	72	1-3	W	10	100%	
2230	72	1-3	W	20	100%	who susts @
2300	72	4-7	W	<u>10</u>	100%	
2330	72	4-7	W	No	100%	
0000	72	4-7	W	No	100%	
0030	72	4-7	W	No	100%	
0100	72	4-7	W	No	100%	
0/30	70	4-7	W	No	100%	
0200	70	4-7	8	20	100%	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

leaves and small twigs in constant motion; blows up dry leaves 8-12 mph

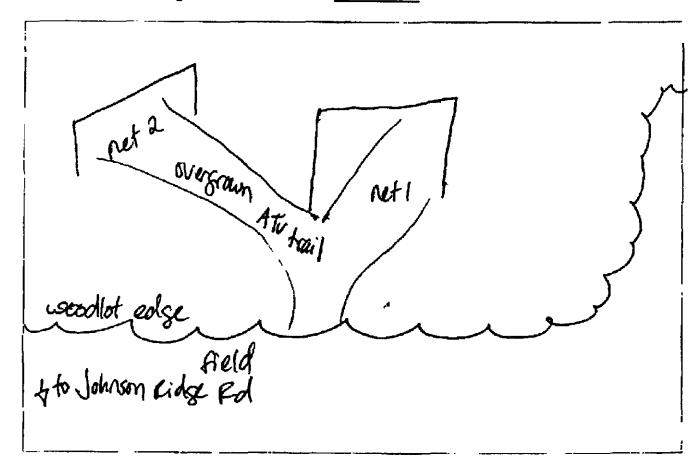
13-18 mph moves small branches; raises dust Site Name/Number: 1EH-MN-OH -000A

Page $\frac{2}{2}$ of $\frac{2}{2}$

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
		ma		
	<u> </u>			

Drawing of net site. Include north arrow & location of each net.



Estimated density of understory vegetation: high moderate low BHE Environmental, Inc.

Sice Name/Number: TEH-AW-OH-6141

Page 1_ of 1

BAT CAPTURE DATA SHEET

	Quadrangle: Quakee C.H	Project Number: 1786.008 - 00	Net 2 Size: width 42' height 20'	trd aut into open Geld	
Biologists: Samorey, Cacduse	State: OH		, 02	Site Description/Comments: Both acts are perpendicular to tree line - extend and into agen Gild	
Date: 7.2.08	County: Noble	Project Name: REE East	Net 1 Size: width 60' height	Site Description/Comments: Sock acts	

- E	let Up	Net Up Time: 2100	8					Net Do	Net Down Time: 6am	6200	
Capture Net	Net	Time	Height	Age		Rento	Waight	RFA Length	Band Coloc/	Species	
Š	ġ	٢	(m)	(A/J)	(A/J) (F/M)		(3)	(mm)	Š	Spell out	Comments
					ET B ON	れるこ	CS CHOT PED	2000			
						1/					
									V		
Reproduct	ive Co	ndition: N =	non-repre	ductive	i, P = pr	egnant, L	lactatir	ng. PL = DO	st-lactati	Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating. TD = testes descended	

Site Name/Number: TEH - MN -OH- GHA

Page ____ of ____

WEATHER DATA

Date: 7.2.08 Biologists: Samoray, Gardner

County: Noble State: OH Quad: Quade City

Project Name: REX East Project Number: 1786:001-001

Estimated Moon Phase: new 1/2 1/2 1/4 full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	70°	1-3	w	Ŋ	100%	
2130	700	(-3	W	N	100%	
2200	670	۷۱	_	N	100%	
7930	67°	(-3	w	٨/	80%	
2300	690	41	_	N	0%	
7330	690	1-3	W	N	10%	
0000	61°	1-3	W	N	30%	
0030	690	1-3	w	N	80%	
0100	69°	1-3	W	. N	80%	<u>.</u>
0130	690	1-3	W	~	80%	
0300	670	1-3	W	N	100%	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

Sive Name/Number: TEH - AN -OH - 6HA

Page ! of |

BAT CAPTURE DATA SHEET

Ž	et Up	Net Up Time: ລາຣວ	٥					Net Do	Net Down Time:	0400	
Capture	Net	Time	eight	Age	Sex	Reoro.	Weight	RFA Lensth	Band Color/		
No.	ò	(military)	Œ	(A/J) (F/M)	(F/M)	Cond.	(g)	(mm)	ģ		Comments
								[
	\prod			1	ub BATS	J	APTURED.	C C			
					i						
7											
 -	•										

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-OH-GIHA

Page _\ of _[

WEATHER DATA

Date: 7.1.08 Biologists: Samoray, Garder

County: Noble State: OH Quad: Quaker City

Project Name: REX - East Project Number: 1756.002-00/

Estimated Moon Phase: new 1/2 1/2 1/4 full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
مادم	670	41		N	30%	
2130	66*	1-3	W	N	30%	
3300	640	4	40 ~	N	5%	
4 3 30	63°	41	-	N	5%	
२३००	63°	4 1	45-	N	5%	
2330	630	۷۱	198 ~	N	5%	
0000	62°	4	46-	N	OF.	
0030	60°	<u> </u>		N	6%.	
0100	600	41		N	0%	
0130	590	41	_	لم	0%	
0200	590	4		N	az	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

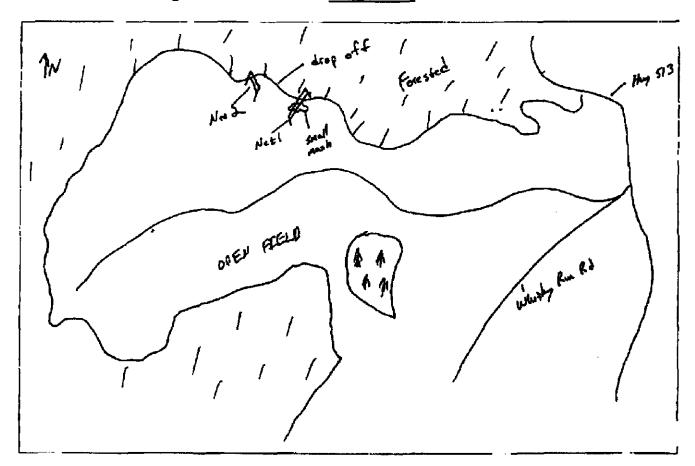
Page $\frac{2}{2}$ of $\frac{2}{2}$

Site Name/Number: TEH-W-6H-614A

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
			!	
			NO PRTS	resent
	+		 	
				
	<u> </u>			

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: TEH-MV-OH - 614 A

Page ____ of al___

NET SITE DESCRIPTION

Date: 7. 1. 68	Biolo	gists:	_5_0	المعامد	, Gar	duce	
County: Noble				•			
Project Name: <u>REX</u>							1786.002-001
UTM Zone:!75		GPS	Waypo	int Nan	ne: <u> </u>	N-0H	- WYA
Easting: 4							(WGS 84)
Northing: 4	<u>4</u>	<u>a</u>	<u> </u>	٥		_3	_
Comments (If photos t	aken, in	clude	directi	on cam	era wa	s faci	ng):
							

STREAM NAME:

Bank Height (indicate units):

Channel Width (indicate units):

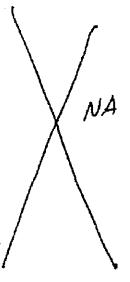
Stream Width (indicate units):

Substratum:

Average Water Depth (indicate units):

Turbidity:

Presence of open flyway above stream?



VEGETATION:

Estimated % Canopy Closure: Net 1 = 5%

Net 2 = 53

Dominant canopy species (at least 3; scientific names; spell out):

Gleditsta: Robinia psuedoncacia Atlantius actuation, Promis secotina

Average canopy diameter at breast height (DBH; indicate units):

Dominant understory species (at least 3; scientific names; spell out):

Poscese, Cornus florida, Rubus occidentalis

Average understory DBH (indicate units):

Estimated density of understory vegetation: high moderate low

Sice Name/Number: 4 TEL-MM-OH-6COA

Page 1_ of 1_

BAT CAPTURE DATA SHEET

Date: 6.28 08	Biologists: Samony, Carder	7.7
County: Courres	State: OH	Quadrangle: Malley
Project Name: REX East		Project Number: া7%.০০১-০০।
Net 1 Size: width 42' height 3	D' Net 2 Size: width_	width 18' height 20'
Site Description/Comments: New 1 is along a treative on the north edge of a poundire. 2012 + across an approve between	mention on the north edge of a gow	edine 8012) + across on appring between

the powerline Anul of an ag Sieth. Alet a is accost an ATV trail

Z	let Up	Net Up Time: 2000	Q	,				Net Dov	Net Down Time:	0,300	
Capture Net	# 0 2 2 2 2	Time (military)	Height	Age (A/1)	Sex (F/M)	Repro.	Weight	RFA Length	Band Color/	Species (scientific name	
/										Ono nack	Comments
								71 1+0	7110		
)					
								V			
	T										
eproduct	ive Co	indition: N =	non-reor	Squetive	P = 0	egnant	= lactatir	P P	tt-Jactatin	a TD = tectes decrended	
Reproduct	ike Ca	Reproductive Condition: N = non-reproductive, P = pregn	non-repre	oductive	P = pr	egnant, I	= lactatir	lg, PL = po:	st-lactatin		lant, L = lactating, PL = post-lactating, TD = testes descended

ñ

Site Name/Number: TEH-MV-0H-6001

Page 1 of 1

WEATHER DATA

Date: 6.28.08 Biologists: Samoray, Garder

County: Guerasey State: OH Quad: Valley

Project Name: REX East Project Number: 1786.003 -001

Estimated Moon Phase: new ¼ ½ ¾ full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	7660	41		N	100%	
2136	66°	41	_	۶.	1007	
2200	66°	1-3	sw	~	100%	
2230	660	1-3	SW	~	100%	
2300	660	1-3	Sω	N	10070	
2330	66°	1-3	Sw	N	10876	
රගහන	660	1-3	ςω	N	100%	
0030	670	1-3	SW	V	100%	
6100	670	1-3	śω	N	100%	
0130	670	1-3	3W	N	100%	
0900	67°	1-3	5 W	N	106%	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

Sice Name/Number: TEH-MN-6H-600A

BAT CAPTURE DATA SHEET

Date: 6.27,05	Biologists: Samoray, Gardner		-
County: (Succosey	State: OH	Quadrangle: Valley	
Project Name: REX East		Project Number: 1786.008-001	
Net 1 Size: width 42, height	30' Net 2 Size:	Net 2 Size: width 18' height 20'	
Site Description/Comments:	long a treeline on the moth als	e of e convective ROWS	ļ
of accose an apparise between the powerline ROW + an ap Rickly. Metal 2 is accose an ATV trail in a wood late also an the prouth edge of the powerline ROW.	chine ROW & on any Gald. Mass	2 is proces on ATV trail	

Z	et Up	Net Up Time:	App					Net Do	Net Down Time:	GAROC	
Capture Net No. No.	Net No.	Net Time No. (military)	Height (m)	Age Sex (A/J) (F/M)	Sex (F/M)	Repro. Cond.	Weigh (g)	RFA I	Band Color/ No.		Comments
 	-	2210	3.0	*	1	76	8.0	35.0	1	Mett rotations	
				-							

Reproductive Condition: N * non-reproductive, P * pregnant, L = lactating, PL * post-lactating, TD = testes descended

Site Name/Number: TEH-MW-0H-600 A

Page ____ of ____

WEATHER DATA

Date: 6.27.08 Biologists: Samoray, Gardner

County: Guernery State: OH Quad: Valley

Project Name: <u>REX East</u> Project Number: <u>1786,003-00/</u>

Estimated Moon Phase: new 1/4 (½) ¾ full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	76°	1-3	5W	N	80%	
2130	750	1-3	SW.	N	50%	
2200	75°	4		N	10%	
22.30	74°	1-3	sw	N	10%	
2300	740	-3	sw	N	0%	
2330	74°	1-3	ςw	N	0%	_
¢oco	720	1-3	SW	N	10%	
0030	710	1-3	5W	N	207 _c	_
6100	710	1-3	sw	N	75%	
0130	76*	1-5	Sw	N	100%	
0200	70°	1-3	SW	N	106%	

^{*}Use the following guidelines to determine wind speed:

- < 1 mph calm; smoke rises vertically; no perceivable movement
- 1-3 mph smoke drift shows wind direction; barely moves tree leaves
- 4-7 mph wind felt on face; leaves rustle; small twigs move
- 8-12 mph leaves and small twigs in constant motion; blows up dry leaves
- 13-18 mph moves small branches; raises dust

Page ! of !

BAT CAPTURE DATA SHEET

Sice Name/Number: TEN-MN-0H-COOK

SILE SESSI PRIORICULATION WITH 13 A LINE A LINE AS LIN	Net 1 Size: width 42' height 30' Net 2 Size: width 18' height 26'	Project Name: KEX Fast	County: Guernsey State: OH Quadrangle: Valley	Date: 6.26.08 Biologists: Samaray, Garducs
--	---	------------------------	---	--

CANCELED - WEATHER

ž 	히	Net Up Time: 2,000	Q					Net Day	Net Down Time: 2320	4320	
Capture Net	Net	Time		Age	Sex	Repro.	Weight	RFA Length	Band Color/	Species (scientific name	
No.	ġ	(military)	(m) (A/J) (F/M) Cond.	(L%)	(F/M)	Cond.		(mm)	No.	spell out)	Comments
		ş									
					1						
							X				
	Ţ				V						
	- 4	***									

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MU-OH-GOOA

Page ____ of ____

WEATHER DATA

Date: 6.26.08 Biologists: Samoray, Garder

County: Guecasey State: OH . Quad: Valley

Project Name: <u>REX East</u> Project Number: <u>1786-068-60</u>

Estimated Moon Phase: new 1/4 (1/2) 3/4 full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	73°	21		. //	100%	
1130	720	1-3	W	N	100%	
2200	72°	8-12	W	N	10075	mets closed
2330	72	8-12	W	N	100 %	Cancelad due so mader
2300						
2330						
0000						
0030						
0100				·		
013.0						
०३ ००						

^{*}Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

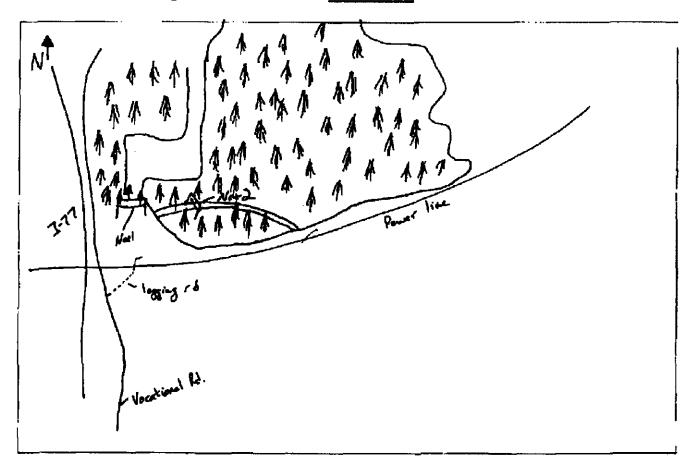
Site Name/Number: TEH-MN-0H-600A

Page $\frac{2}{2}$ of $\frac{2}{2}$

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
Carya aveta	40cm	live	50%	
Uh Kanus sag	20c-	dead	20%	
	ļ			
-	1		ļ	
				
	 			
	 		 	

Drawing of net site. Include <u>north arrow</u> & location of each net.



Site Name/Number: <u>TEH-M#-OH - 600A</u>

NET SITE DESCRIPTION

County: <u>/wecnsey</u>	Stat	e:	ЭН		Quad:	_Val	ley
Project Name: <u>REX</u>							1784.002 -0
JTM Zone: 175	<u> </u>	GPS	Waypo	int Naı	me: <u>//</u>	N-ot	-600 A
Easting: 4	5_	<u>ч</u> .	9		_3_		(w65 84)
Northing: <u>4</u>	4	<u>a</u>	٥	8	<u>a</u>	_3_	_
Comments (If photos t		,					

STREAM NAME:

Bank Height (indicate units):

Channel Width (indicate units):

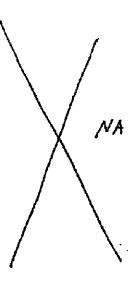
Stream Width (indicate units):

Substratum:

Average Water Depth (indicate units):

Turbidity:

Presence of open flyway above stream?



VEGETATION:

Estimated % Canopy Closure: Net 1 = 5% Net 2 = 95%

Dominant canopy species (at least 3; scientific names; spell out):

Juglous wars, Carya orate , Quercus alba

Average canopy diameter at breast height (DBH; indicate units):

30cm

Dominant understory species (at least 3; scientific names; spell out):

Cer cis Godona's accious accious, from secution.

Average understory DBH (indicate units):

Estimated density of understory vegetation: high moderate low

Sice Name/Number: TEN-MN-OH- 5

Page 1 of 1

BAT CAPTURE DATA SHEET

Biologists: Samesay, Gerdres	OH Quadrangle: fich Hill facurich &	Project Number: 1786 . 062 - 00/	Net 2 Size: width 18" height 20'	Site Description/Comments: Alet lis ecoss true, eccess cd ~ 155 from fack in that cd. Alet A is accoss as the
Date: 6. 24.08 Biologists	County: Muskingum State: OH	Project Name: REX East	Net 1 Size: width 30' height 20'	Site Description/Comments: Akt (is a cost true, act

Capture Net Time Height Age Sex Repro. Weight Length Color/ (scientific name No. (military) (m) (A/J) (F/M) Cond. (g) (mm) No. spell out) Comments Cody			Net Up Time: 3100	25					Net Do	wn Time	Net Down Time: 🎜 ຊີດ ເວ	
1.0 5 M N 6.0 53.5 hocyana sulchus	Capture No.	× × ×	Time (military)	Height (m)	Age (A/J)	Sex (F/M)	Repro. Cond.	Weight	RFA Length (mm)	Band Color/	Species (scientific name	, and a
	~		0,000	0.7	5	€	1 1	1 1	33.5	1	Britisholis	Colliniering

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TER-MX-04-5878

Page ___ of ___

WEATHER DATA

Date: 6.24.08 Biologists: Samosay, bardner

County: Muskingum State: OH Quad: Rich Will Norwich

Project Name: REX East Project Number: 1786,002-001

Estimated Moon Phase: new 1/4 1/2 (4) full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	640	41		N	15%	
2130	64°	41	_	N	10%.	
2200	63°	41		M	0%	
2230	62°	41	_	N	0%	
2300	62°	41	>- -	N	0%	
2330	63.	41		N	0%	
0000	620	۷ (-	N	0%	
0030	62°	41		N	0%	
0100	610	4		N	0%	
0130	610	۷١		N	0%	
0200	610	41		N	0%	

*Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

81.38 M - 14.18.8

Sice Name/Number: TEH-MN-OH-

Page 1 of 1

BAT CAPTURE DATA SHEET

sat dar	Quadrangle: Rich Hill Rocurch 38	Project Number: 1786,002.001	Net 2 Size: width 18' height 20'
Biologists: Samaray, Gardac	State: OH		30,
Date: 6.33.08	County: Muskingum	Project Name: REX Eas+	Net 1 Size: width 30 height

~ 15m from fock in cd. Net 2 is

Site Description/Comments: Net 1 is access tong, access cd

موفي ملح كم بعد ملح ها في فيه ويط

Net L	Net Up Time: スロロ	00					Net Do	Net Down Time: 0200	0900	
			•	,			RFA	Band	Species	
Capture Net		Height	Age	Xex Xex	tepro.	₹	Length	Color/	(scientific name	1
+	(minital X)	(III)	2	(X)	Cono.	(8)	(mm	SO.	spell out)	Comments
									•	
			WA	NO BATK	ŀ	CAPALACIO				
		:								
				1						
) overade contract	Doggan deriver Conditions Is and the same as a second									

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-AN-OH-387 B

Page ____ of ____

WEATHER DATA

1/4

Date: 6.23.08

Biologists: Samoray, Gardner

County: Muskingum

State: OH Quad: Rich #11 Norwick

Project Name: <u>REX ~ East</u>

Project Number: 1786.001

Estimated Moon Phase: new

fult

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	620	41		<i>N</i>	90%	
2130	61°	41		μ	957.	
2700	61°	41		N	95%	
2230	580	41		N	70%	
2300	570	۷	}	N	6670	
2330	570	۷١		N	1\$%	
0000	570	41		N	0%	
0630	570	41		N	0%	
0(00	570	41		>	0%	
0130	560	۷ (N	0%	
0200	56°	4		N	0%	

*Use the following guidelines to determine wind speed:

< 1 mph

calm; smoke rises vertically; no perceivable movement

1-3 mph

smoke drift shows wind direction; barely moves tree leaves

4-7 mph

wind felt on face; leaves rustle; small twigs move

8-12 mph

leaves and small twigs in constant motion; blows up dry leaves

13-18 mph

moves small branches; raises dust

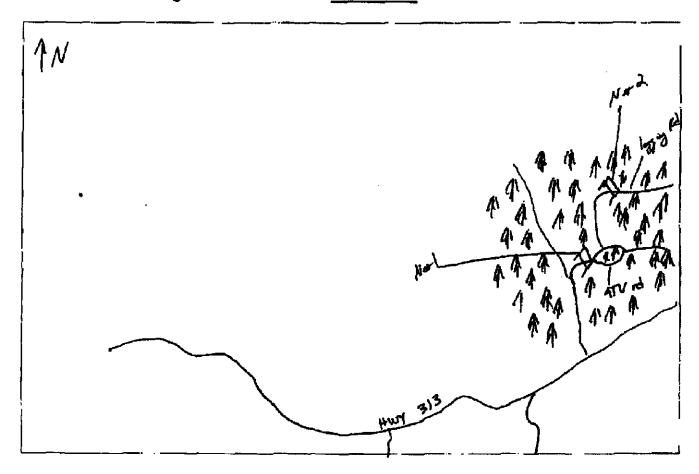
Site Name/Number: TEH-mn-04-2873

Page <u>2</u> of <u>2</u>

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
		NO PRTS	presist	
				

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: <u>TEH-MN-0H-587B</u>

Page ____ of ____

NET SITE DESCRIP

Date: <u>6.23.08</u>	Biologists:	bardner
County: Muskingum	State:OH	Quad: Rich Hill Mornich
Project Name: <u>REY - @</u>	Eest Proj	ject Number: <u>1786 - 662 - 661</u>
UTM Zone: <u>175</u>	GPS Waypoint Na	me: TENWOH387R
Easting: 4 3	5 3 2	<u>_</u>
Northing: 4	4 1 8 1	<u> </u>
Comments (If photos take	en, include direction car	mera was facing):

STREAM NAME:

Bank Height (indicate units):

Channel Width (indicate units):

Stream Width (indicate units):

Substratum:

Average Water Depth (indicate units):

Turbidity:

Presence of open flyway above stream?

VEGETATION:

Net 1 = 60% Estimated % Canopy Closure:

Net 2 = 90%

Dominant canopy species (at least 3; scientific names; spell out): Juglans niara, Liciadendem hulipifera, Gleditsia triacenthes Average canopy diameter at breast height (DBH; indicate units):

Dominant understory species (at least 3; scientific names; spell out): Madura pamifera, Alnus serulata, Elacagnus multiflora.
Average understory DBH (indicate units):

Estimated density of understory vegetation: (high) moderate low

Site Name/Number: TEH-MN-OH-587BA

BAT CAPTURE DATA SHEET

Project Number: 1786. 002-00 Quadrangle: Norwich Biologists: S. Williams, M. Farmer State: Rex-Eas County: MUSEINERSON Net 1 Size: width 18' Date: 24 JUL 2008 Project Name:

and Neta (18'x 20' 2 Hors (18'x20' 8 hers Site Description/Comments: <u>Met l</u>

height

Net 2 Size: width 18' height 20'

• *		 -									
		Net Up Time: < 100	00)					Net Dov	Net Down Time:	0330	
								RFA	Band	Species	
Capture Net	Net		Height	Age	Sex	Repro.	Weight	Length	Color/	(scientific name	
ġ	Š.		(m)	(₹)	(F/M)	Cond.	(B)		Š	spell out)	Comments
		21:48	2.5	∢	L	ر		215	1	Lasirius berealts	
7	-	4522	3.5	5	2	26	O F	37.0	1	Mustic Luctures	100 5 TO 10 10 10 10 10 10 10 10 10 10 10 10 10
3		26: pz	·5	4	F	1	2.V.	40.0	1	Last rive bareatic	
Denrod	C Sait	Department of the Marketon M.	Topogodination	and a contract of	2	4		3.			

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: <u>TEH-MN-OH-58</u> TBA

Page of

WEATHER DATA

Date: <u>24 June</u> 2008

Biologists: S. Williams, M. Farmer

County: Muslaingum

State: ______ Quad: Norwich

Project Number: 1786.002 001

Estimated Moon Phase:

1/4

4 (%)

full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	60	4	na	90	0%	
2200	58	۷	na	10	0%	
2300	56	4	na	90	0%	
0000	56	4	na	10	0%	
0100	54	دا	nla	റമ	0%	
0200	52	21	nla	10	0%	
		L				

*Use the following guidelines to determine wind speed:

calm; smoke rises vertically; no perceivable movement < 1 mph

smoke drift shows wind direction; barely moves tree leaves 1-3 mph

wind felt on face; leaves rustle; small twigs move 4-7 mph

leaves and small twigs in constant motion; blows up dry leaves 8-12 mph

moves small branches; raises dust 13-18 mph

Site Name/Number: TEH-MN-0H-58718A

age 1 or 1

BAT CAPTURE DATA SHEET

7	Biologists: S. Williams	G. Janus
County: ///US/A/82107	State: CMIO	Quadrangle: Nocwich
Project Name: Pek East		Project Number: [786.004.700]
Net 1 Size: width 18' height	Net 2 Size: width_	width 18" height 20'

Net 2 (18' x 20' 2 hor

and

118'x30' 3 hers

wooded are

			Comments		
0200	Species	(scientific name	spell out)	Estesious fuerus	Lasiurus borealis
Net Down Time:	Band	Color/	No.		
Net Do	RFA	Length	(mm)	48.0	40.5
		Weight	(8)	24.5	14.5
		Repro. Weight	Cond.	d	ď
			(F/M)	7	4
		Age	(₹ 3)	4	4
90		Height	(E)	0.9	0.4
Net Up Time: 2/0/		Time	(military)	2200	2210
tet Up		Net	<u>ي</u>		-
12		Capture Net	<u>.</u>		લ

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: <u>TEH-MN-OH-5878A</u>

Page _ of _

WEATHER DATA

Biologists: S. Williams, G. Janos

State: Ohio Quad: Narwick

Project Name: <u>Rex-East</u>

Project Number: <u>1786-02</u> -00

Estimated Moon Phase:

full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2/00	62	41	NIA	No	100%	
1200	61	41	N/A	No	105%	
2300	58	41	N/A	No	0%	
0000	55	41	N/A	No	0%	
0100	53	41	NA	No	0%	
0200	52	21	N/A	No	0?	
•						

*Use the following guidelines to determine wind speed:

< 1 mph

calm; smoke rises vertically; no perceivable movement

1-3 mph

smoke drift shows wind direction; barely moves tree leaves

4-7 mph

wind felt on face; leaves rustle; small twigs move

8-12 mph

leaves and small twigs in constant motion; blows up dry leaves

13-18 mph

moves small branches: raises dust

8

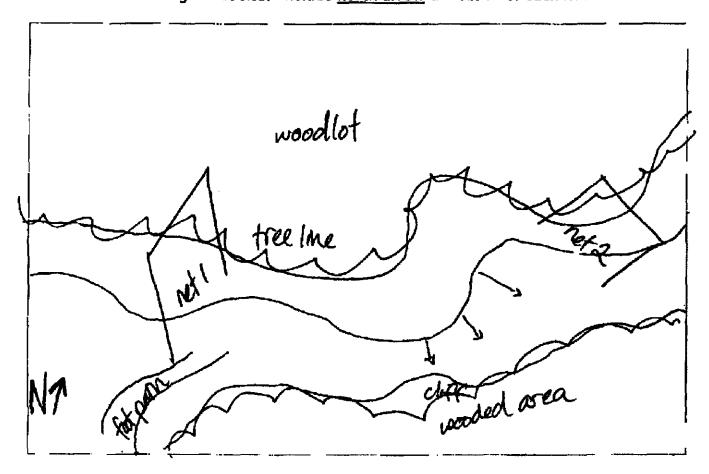
Site Name/Number: TEH MV-OH-5878A

Page a of a

Description of potential Indiana bat roost trees visible from net site

Tree Species (scientific names; spell out)	Est. DBH (with units)	Live or dead	Est. % loose bark	Comments
		n-la		

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: <u>TEH -MN-0H - 587</u> BA Pag	e 1 of 3
NET SITE DESCRIPTION	
Date: 23-24 June 2008 Biologists: S. Williams, M. Farmer	
County: Muskingum State: Ohio Quad: Norwich	 .
Project Name: <u>Rex-East</u> Project Number: <u>1786 · A</u>	2001
UTM Zone: 175 GPS Waypoint Name TEMNOH585	ZB)
Easting: 4 3 4 5 3 1 Tag	15 to be
Northing: 4 4 1 8 1 1 8 chany	ed to 587 is 65c
Comments (If photos taken, include direction camera was facing): <u>Net I</u> <u>Net 2 across crock and finall wanded area</u>	<u>and</u>
STREAM NAME:	
Bank Height (indicate units): South bank 20', north bar	1k 2.5'
Channel Width (indicate units): 18800 /2	
Stream Width (indicate units): 6'	
Substratum: bedrock, shale	
Average Water Depth (indicate units): /	
Turbidity: Clear	
Presence of open flyway above stream? Yes	
VEGETATION:	
Estimated % Canopy Closure: Net $1 = (a0)^6$ Net $2 = 5$	10°
Dominant canopy species (at least 3; scientific names; spell out): Platanus occidentalis, Guditsia triacanthos; Hour so Average canopy diameter at breast height (DBH; indicate units):	raherm
· •	•
Dominant understory species (at least 3; scientific names; spell out) Collectific macantus, Maclura pomifica, Heer Sacc	herm
Average understory DBH (indicate units):	
Estimated density of understory vegetation (high) moderate low	

Site Name/Number: IEH-MU-04-586A

Page 1 or 1

BAT CAPTURE DATA SHEET

Biologists: B. Steffen J. Hammers ley	Quadrangle: Now wich	Project Number: 1786.003	Net 2 Size: width 18m height 9m	road, let 2 across a maintained gass field whin	
Date: 24 June 2008 Biologists: B. Shel	County: Muskingum State: OH	Project Name: REK Fast 2008	Net 1 Size: width 9m height 6m	Site Description/Comments: Out I across a gravel access road, Net 2 across a maintained grass field win	

2	r C	Net Up Time: 3/15						Net Do	Net Down Time: 0215	Cais	
Capture	Ket	Time		Age	Şex	Repro.	Weight	RFA Length	Band Color/	Species (scientific name	
No. No.	ò	(military)	(m) (AJ) (F/M) Cond.	, <u>₹</u>	(F/M)	Cond.	(8)	(mm)	Š		Comments
	1										
								,			
						1	")	whited			
						7 97-	500				
1	1										
Daniel d					}		}				

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MN-0H-586A

Page ___ of ___

WEATHER DATA

Date: 24 June 2008

Biologists: B. Steller, J. Hammersley

County: Muskingum

State: OH

Quad: Norwich

Project Name: REX Fast 2008

Project Number: <u>1796.003</u>

Estimated Moon Phase: new

1/4

1/2 0 1/4

full

Time (military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Comments
2100	68	4]	NIA	No	0%	
2130	68	دا	N/A	No _	10%	
2200	66	4	HIA	No	0%	
2230	66	4	NIA	No	0%	
<u>2300</u>	66	41	NA	No	<u> </u>	
2330	ماما	L]	NA	Н	<i>-2</i> 0%	
0000	(ola	را	NIA	No	10%	
∞3o	66	4	NA	No	10%	
0100	66	41	NIA	No	<i>30</i> 2	moon behind freeling
0130	_ઉ ન	٠, ا	NIA	No	20%	tr n *
್ಟಿಂದ	८५	4)	N _A	Les	20%	

^{*}Use the following guidelines to determine wind speed:

< 1 mph calm; smoke rises vertically; no perceivable movement

1-3 mph smoke drift shows wind direction; barely moves tree leaves

4-7 mph wind felt on face; leaves rustle; small twigs move

8-12 mph leaves and small twigs in constant motion; blows up dry leaves

13-18 mph moves small branches; raises dust

Site Name/Number: IEH-MA-04-586.4

Page 1 of 1

BAT CAPTURE DATA SHEET

Biologists: R. Steffen, J. Harmitsley Date: 23 June 2008

Quadrangle: Mochich ±0 State: 4008 Project Name: REX Ensi County: Muskingum

height 6n

<u>م</u> ۶

Net 1 Size: width_

Net 2 Size: width 18m height 9m

access road. Net a access a maintinual grass held Site Description/Comments: Art | GLIBSS G GIANEL sig #ered to 11 trees

-	let Up	Net Up Time: 2115						Net Dov	Net Down Time: Oals	Oais	
Capture	2	Time	Velaht	400	200	Dones	Medaba	RFA	Band	Species	
No. No.	NO.	(military	(m)	(k/J)	(A/J) (F/M)	Cond.	### (8)	(ww)	No.	(scientific name spell out)	Comments
,	*	5٤٠٤٠	٦	Ţ	V	NR	_	375		Lashum, burealis	
~			d.5m	A	W	Scool	l	40.7		LASIMAN DOTALL	
3	٦	23 45	3m	l	(١	1	Perimosh's SubClavis	escaped from not

Reproductive Condition: N = non-reproductive, P = pregnant, L = lactating, PL = post-lactating, TD = testes descended

Site Name/Number: TEH-MH-OH-586A

Page ____ of ___

WEATHER DATA

1/4

Date: 23 June 2008

Biologists: B. Steffen, J. Hammersky

County: Muskingum

State: OH Quad: Norwich

Project Name: REX East 2008 Project Number: 1786.002

Estimated Moon Phase: new

1/2

34 () full

Time military)	Temp (F)	Wind Speed*	Wind Direction	Moon Visible?	% Cloud Cover	Commen	ts
टीए०	42	1-3	ε	No	100%	Scattered Spr	inkles
2130	42	1-3	€	No	100%	ķl	n
2200	60	۷1	μĮA	, lle	look		- -
2330	60	4	MA	No	90%		
7300	60	٤	NA	No	70%		
2330	58	4	MA	No	50%		
<i>\$</i> 000	S&	٤]	MA	, No	30%		
0030	58	4)	N/A	Hu	iO2	moon behind	freelin
0100	S 8	دا	NA	No	0%	ey to	Ħ
0130	56	دا	NIA	Yes	0%		
0200	56	دا	MA	u Tes	0%		
			o to dotave			* heavy fog	

*Use the following guidelines to determine wind speed:

< 1 mph

calm; smoke rises vertically; no perceivable movement

1-3 mph

smoke drift shows wind direction; barely moves tree leaves

4-7 mph

wind felt on face; leaves rustle; small twigs move

8-12 mph

leaves and small twigs in constant motion; blows up dry leaves

13-18 mph

moves small branches; raises dust

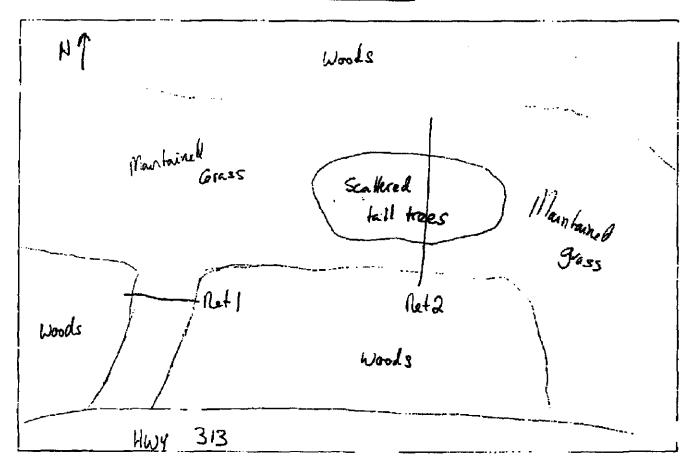
Site Name/Number: TEH-MN-OH-58GA

Page 2 of 2

Description of potential Indiana bat roost trees visible from net site

Est. DBH (with units)	Live or <u>dead</u>	Est. % loose bark	Comments
<u> </u>			
	1 DOTO		
اسمار	Mo I Fig		
	DBH (with	DBH (with	DBH (with Est. % loose

Drawing of net site. Include north arrow & location of each net.



Site Name/Number: TEH-MN-OH-586A

Page \underline{i} of $\underline{\lambda}$

NET SITE DESCRIPTION

Date: 24 June 2008 Biologists: B. Sleffen, J. Hammersley
County: Muskingem State: OH Quad: Norwich
Project Name: <u>PEX East 2008</u> Project Number: <u>1786.001</u>
UTM Zone: 175 GPS Waypoint Name: TEMNOH 586 A
Easting: 4 3 3 7 4 7
Northing: 4 4 1 7 9 9 0
Comments (If photos taken, include direction camera was facing): let lacross a gravel access real. Net 2 across a maintained grace field whin a shad of Scattered that trees.
STREAM NAME:
Bank Height (indicate units):
Channel Width (indicate units):
Stream Width (indicate units):
Substratum: N/A
Average Water Depth (indicate units):
Turbidity:
Presence of open flyway above stream?
VEGETATION:
Estimated % Canopy Closure: Net 1 = 90% Net 2 = 80%
Dominant canopy species (at least 3; scientific names; spell out): Gleditsia triaicanthos, Prunus virginiana, Queras rubra Average canopy diameter at breast height (DBH; indicate units): J4in
Dominant understory species (at least 3; scientific names; spell out): Gledifsia triaunthos, Sassatras albidum, Carya glabra Average understory DBH (indicate units): 4in
Estimated density of understony vagetation; high moderate low