

**Report on Indiana Bat (*Myotis sodalis*) Sampling at  
Twenty-six Sites on the Proposed Copenhagen Wind  
Farm**

Jefferson and Lewis Counties, NY  
Survey undertaken: May 25 – June 14, 2012

Report dated January 16th, 2013

Sampling by:  
**Sanders Environmental, Inc.**  
322 Borealis Way  
Bellefonte, Pennsylvania 16823

Undertaken for:  
**Copenhagen Wind Farm, LLC.**  
45 Main Street, Suite 538  
Brooklyn, NY 11201



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Indiana Bat (*Myotis sodalis*) Revised Recovery Plan: March 1999



## **Section 1.0: Executive Summary**

Between May 25 and June 14 of 2012, twenty-six mist net sites were sampled on the proposed location of the Copenhagen Wind Farm. These sites were run in an effort to assess the presence or absence of the federally endangered Indiana bat (*Myotis sodalis*).

At the 26 mist net sites (Appendix A), 41 bats of five species were captured. No Indiana bats were captured during this sampling. The total consists of 3 Northern Myotis (*Myotis septentrionalis*), 29 Big Brown (*Eptesicus fuscus*), 1 Eastern Red (*Lasiurus borealis*), 2 Hoary (*Lasiurus cinereus*), and 6 Silver-haired (*Lasionycteris noctivagans*) bats. Capture rates averaged 1.6 bats per mist net site.

In addition to mist netting, acoustic detectors were used to examine bat activity during mist net sampling. 267.5 hours of acoustic recording yielded 995 files (3.7 per hour) with identifiable call sequences from seven bat species. One of those, the Evening bat, is almost certainly the result of false classifications. Only 45 myotis (a genus encompassing Little Brown [*M. lucifugus*], Northern [*M. septentrionalis*], Indiana [*M. sodalis*], and Small-Footed [*M. leibii*] bats) calls were detected, none classified as Indiana bats. Detectors were functional for 100% of the time mist net sampling was conducted.

Both acoustic detections and mist net captures were very low on this proposed project area.

## **Section 2.0: Methods, Protocols, and Permits**

Sampling followed the project specific study plan (Appendix B). One variation from that plan, two sites 9 and 10 were not sampled due to a change in ownership leading to that area not being enrolled in the project.

Bats were captured using mist nets. Mist netting followed the techniques, methods, and protocols set forth in the Indiana Bat Mist Netting Guidelines in the USFWS Indiana Bat (*Myotis sodalis*) Revised Recovery Plan, dated March 1999 (Appendix C).

In addition to following the USFWS netting guidelines, acoustic surveys were performed since there is some concern over netting effectiveness in a post-white nose syndrome landscape. An acoustic detector was run near each net site concurrent with netting at a location appropriate for capturing acoustic calls (a less cluttered/more open location than nets would normally be set in). Calls were recorded in full spectrum and analyzed with Sonobat 3.06's auto classifier. As of this point in time, EchoClass's instructions state "This program is still in the testing and development phase. As such, please do not use in any official capacity (i.e., project reports)" Therefore it was not used to classify calls.

During all sampling activities, white-nose syndrome decontamination followed the USFWS Decontamination Protocol. All bats were examined for wing damage according to the guidelines set by Jonathan D. Reichard in “Wing-Damage Index Used for Characterizing Wing Condition of Bats Affected by White-nose Syndrome.” Any bat morphological data collection followed the North American collector standards (Nagorsen et al.). The project was conducted under NYDEC Threatened & Endangered species license #185 and NYDEC license to collect #1287.

### **2.1: Acoustic Methods**

One Petterson D500X bat detector was deployed per night per site. The detectors were attached to the top of a four foot pole, with the microphone aimed at a 45 degree upward angle. The detectors were placed on the edge of open areas (fields, large corridors, creek corridors, etc.), which have fewer obstacles for bats to navigate around. This placement helps ensure call characteristics similar to those used as the basis for software that classifies bat calls to species. Detector settings were as follows: Input Gain was set to 80, Trigger Level to 160, Interval to 0, Sample Frequency to 500, Pretrigger off, Record Length of 5 sec, High Pass filter on, Auto-record on and a high Trigger Sensitivity. Detector firmware version was 2.1.3.

Prior to processing, files were scrubbed using the “high grade” scrubber to eliminate files with obvious noise and/or no obvious bat calls. These files were then processed using the SonoBat 3.06 NE software (J.Szewczak, Arcata CA) automatic analysis. SonoBat was set to analyze the six best call-pulses per call-sequence within an 8.0 second segment. Classifications were made only if the analysis resulted with a classification that met or exceeded a discriminate probability threshold of 0.90 and had a minimum acceptable quality of 0.80. The autofilter setting was used with the default 5kHz filter. The preemphasis setting was medium.

## **Section 3.0: Results**

On average, 1.6 bats were captured per mist net site and 3.7 classifiable calls per hour were recorded. No Indiana bats were captured or acoustically classified during this sampling. A summary of bat capture and acoustic classifications for the project are summarized in Table 3-1. It provides a complete breakdown of bat captures and acoustic classifications by species and site.

### **3.1: Capture Summary**

A total of 41 bats of five species were captured at the 26 mist net sites. No Indiana bats were captured. The total consists of 3 Northern, 29 Big Brown, 6 Silver-haired, 1 Eastern Red, and 2 Hoary bats. No previously banded bats were captured at any of the sites nor were any bats banded on this project. No bats were found to have a Reichard Wing Damage Score greater than 1.

**Table 3-1: Summary of Bat Captures and Acoustic Classifications**

Site #	Little Brown <i>M. lucifugus</i>		Northern Myotis <i>M. septentrionalis</i>		Big Brown <i>E. fuscus</i>		Silver-Haired <i>L. noctivagans</i>		Red <i>L. borealis</i>		Hoary <i>L. cinereus</i>		LuSo <i>M. lucifugus/M. sodalis</i>		Evening <i>N. humeralis</i>		Total		
	Mist Netted	Acoustically Detected	Mist Netted	Acoustically Detected	Mist Netted	Acoustically Detected	Mist Netted	Acoustically Detected	Mist Netted	Acoustically Detected	Mist Netted	Acoustically Detected	Mist Netted	Acoustically Detected	Mist Netted	Acoustically Detected	Mist Net Captures	Species Detected*	Acoustic Detections*
1			1		2	1			1				2		1	3	3	2	
2					6	17	1	1	1		7					8	4	25	
3					7	49		5		3	19				1	7	4	76	
4											4					0	0	4	
5			1	1						3	1		1		8	1	3	5	
6		3				248		10		28	41		1		23	0	3	330	
7					1	3		7			32					1	5	42	
8					1	9		1			58					1	3	68	
11			1													1	1	0	
12		25			1	44		5			2		9		2	1	4	76	
13						4		2								0	2	6	
14						1		45			17					0	3	63	
15						1		1			5					0	3	7	
16						1										0	1	1	
17					2	13		13			7					2	3	33	
18		1			1	24	4	60			1	14				6	4	99	
19					1											1	1	0	
20								6			4					0	2	10	
21		1				4		1								0	3	6	
22						10		8			2					0	3	20	
23								2			6					0	2	8	
24											7					0	1	7	
25					2	5	1	25			3					3	3	33	
26		1				2		6			1					0	4	10	
27					3	10		4			1	2				4	3	16	
28					2											2	1	0	
<b>Total</b>	<b>0</b>	<b>31</b>	<b>3</b>	<b>1</b>	<b>29</b>	<b>446</b>	<b>6</b>	<b>202</b>	<b>1</b>	<b>35</b>	<b>2</b>	<b>232</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>35</b>	<b>41</b>	<b>6</b>	<b>947</b>
<b>Number of Sites w/ Detections</b>	<b>0</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>12</b>	<b>18</b>	<b>3</b>	<b>18</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>19</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>5</b>	<b>14</b>	<b>6</b>	<b>23</b>
<b>% of sites captured /detected</b>	<b>18%</b>		<b>11%</b>		<b>71%</b>		<b>64%</b>		<b>18%</b>		<b>68%</b>		<b>*</b>		<b>*</b>				

Yellow cells denote species acoustical classifications where netting did not detect that species.

Red cells denote species captures where the species was not recorded acoustically.

\*Acoustic species classifications by site do not include LuSo and Evening Bats as these are either fictitious or outside of reasonable range.

### **3.2: Acoustics Summary**

At the twenty-six sites sampled, 267.5 total hours of recording was done (7.5 on nights were rain or cold outs eventually terminated sampling). In course of sampling 6,069 recordings were made. Of those recordings the scrubber passed 1,625 as likely to contain bat calls. Of those, 995 (61%) were classified by Sonobat. Over the entirety of the sampling, 6.0 files that were likely to contain calls were recorded per hour, and 3.7 of those were classifiable.

### **3.3: Comparison of Bat Captures to Acoustic Classifications**

There were seven sites where *Myotis spp.* (Northern Myotis, Little Brown or Indiana bats) were detected, accounting for 45 detections. None of those were classified as an Indiana bat call.

There were 13 call sequences at four sites that could not be identified to species but were either Little Brown or Indiana bat calls. Neither were captured in nets.

Little Brown bats were classified from calls at five sites, but none were caught in mist nets.

Three sites captured Northern Myotis bats but only one of those sites had calls classified as such by Sonobat.

There were over 440 calls from Big Brown bats, classified across 18 sites, 29 were captured by mist nets at 12 sites.

Six Silver-haired bats were captured at three sites. In addition to those three sites, they were acoustically classified at fifteen other sites. 202 calls were classified as Silver-haired bat sequences.

One Eastern Red bat was captured at a site that did not have any classified as such acoustically but they were classified at four sites, accounting for 35 calls.

Hoary bats were acoustically classified 232 times at 19 sites, two of which captured a Hoary bat with mist nets.

Thirty-five call sequences were classified as Evening bats at five sites. None were captured.

### **Section 4.0: Discussion**

The positive Evening bat (*Nycticeius humeralis*) calls are most likely fictitious classifications caused by approach phase or faint calls.

Bats exhibit considerable plasticity in their vocalizations, and considerable overlap in call parameters among species. This, coupled with complications from

noise and weak signals (as from bats at a greater distance from the detector), result in misclassification. It is critical to understand that the classification decisions generated by SonoBat are to be considered as "suggested classifications." Although some species have distinctive call types that facilitate confident identification, other species exhibit similar call characteristics that reduce the reliability of using bat echolocation calls as a sole indicator of presence. In some instances irrefutable species confirmation may require a "bat in hand." Even among the known species of the library reference data, the rate of correct classification of Sonobat ranges from about 70% to 99%.

## **Section 5.0: References**

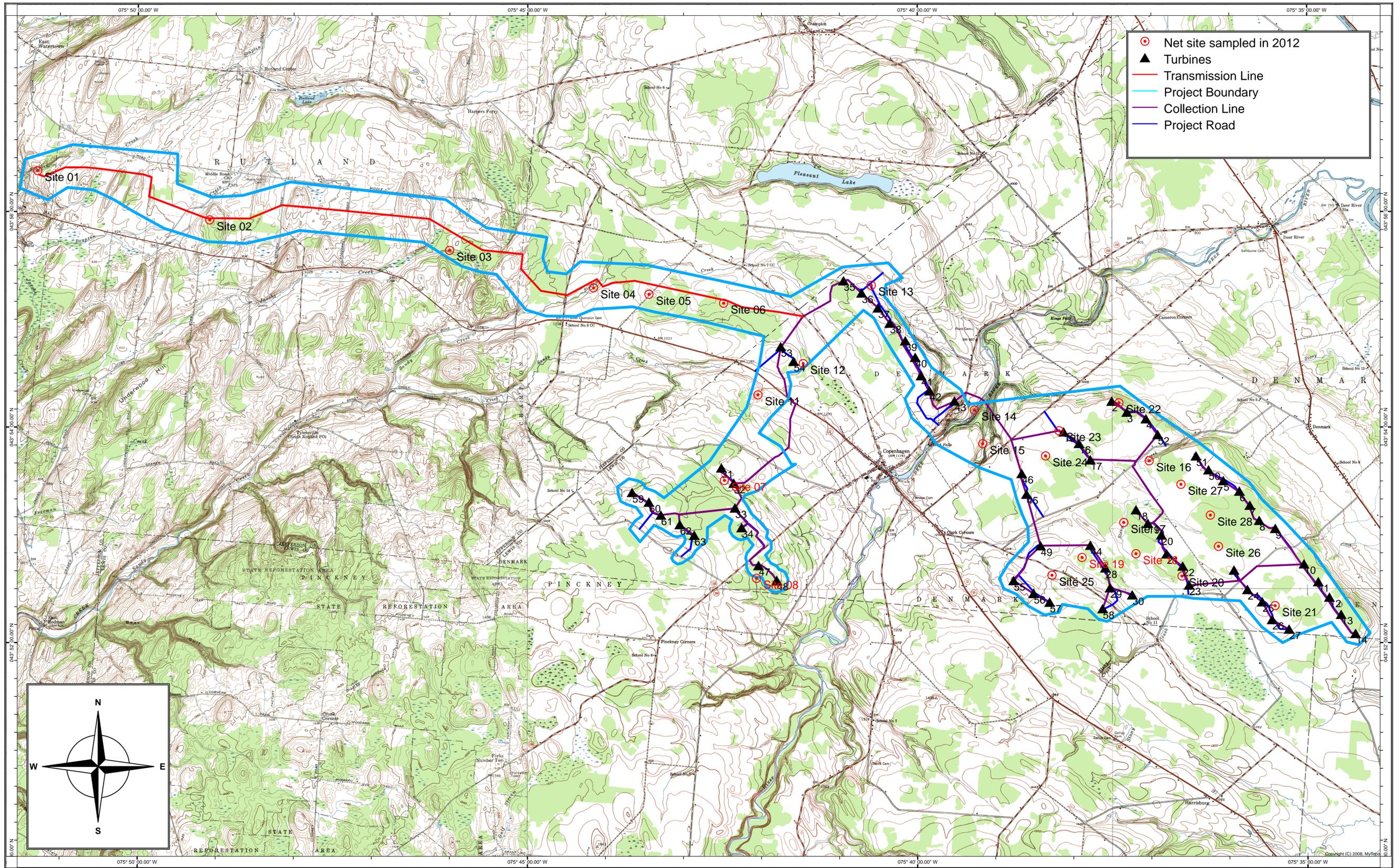
Nagorsen, D.W., and R.L. Peterson, 1980. Mammal collector's manual: a guide for collecting, documenting, and preparing mammal specimens for scientific research. Royal Ontario Museum, Toronto Canada.

Reichard, J.D., and T.H. Kunz, 2009. White-nose syndrome inflicts lasting injuries to the wings of little brown myotis (*Myotis lucifugus*). *Acta Chiropterologica* 11(2):457-464.



## **Appendix A: Mist Net Site Location Map**







## **Appendix B: Study Plan**



# Sanders Environmental Inc.

May 9, 2012

Tim Sullivan  
Endangered Species Biologist  
U.S. Fish & Wildlife Service  
New York Field Office  
3817 Luker Rd.  
Cortland, NY 13045

Subject: Indiana Bat – Presence/Probable Absence Survey  
Concurrence request

On behalf of OWN Energy, Sanders Environmental Inc is proposing to conduct Indiana bat (*Myotis sodalis*) surveys for the proposed Copenhagen Wind Farm, LLC in Jefferson and Lewis Counties.

The 2012 surveys are to be undertaken to sample the 8837 acre project area. Based on the 2006 national land cover database 3,446 acres (14 square kilometers) of those are either forested or woody wetland. Two net sites are proposed for each square kilometer (247 acres) of habitat for a total of 28 net sites. A map of the current project layout with 2012 proposed sites is attached.

The mist-net survey will meet or exceed the technical criteria outlined in the USF&WS (Region 3) agency draft document titled Indiana Bat (*Myotis sodalis*) Revised Recovery Plan, dated March 1999. All NY DEC permit conditions will be followed, including decontamination procedures for White Nose Syndrome.

In addition to following the USFWS netting guidelines, the client is volunteering to preform acoustics as a backup to netting since there is some concern over nettings effectiveness in a post-white nose syndrome landscape. An acoustic detector shall be run concurrent with netting near each net site at a location appropriate for capturing acoustic calls (a less cluttered/more open location than nets would normally be set in). Calls will be recorded in full spectrum and analyzed both with Sonobat 3.0's auto classifier, and will also be degraded using ZCANT software for analysis as zero crossing files using the 2012 Britzke software (if available at time of report compilation).

We respectfully request concurrence for the level of effort proposed.

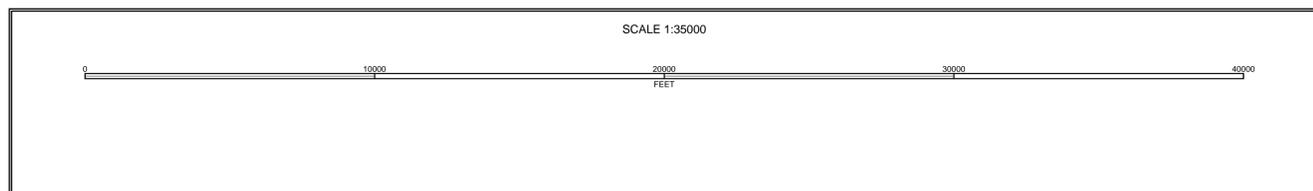
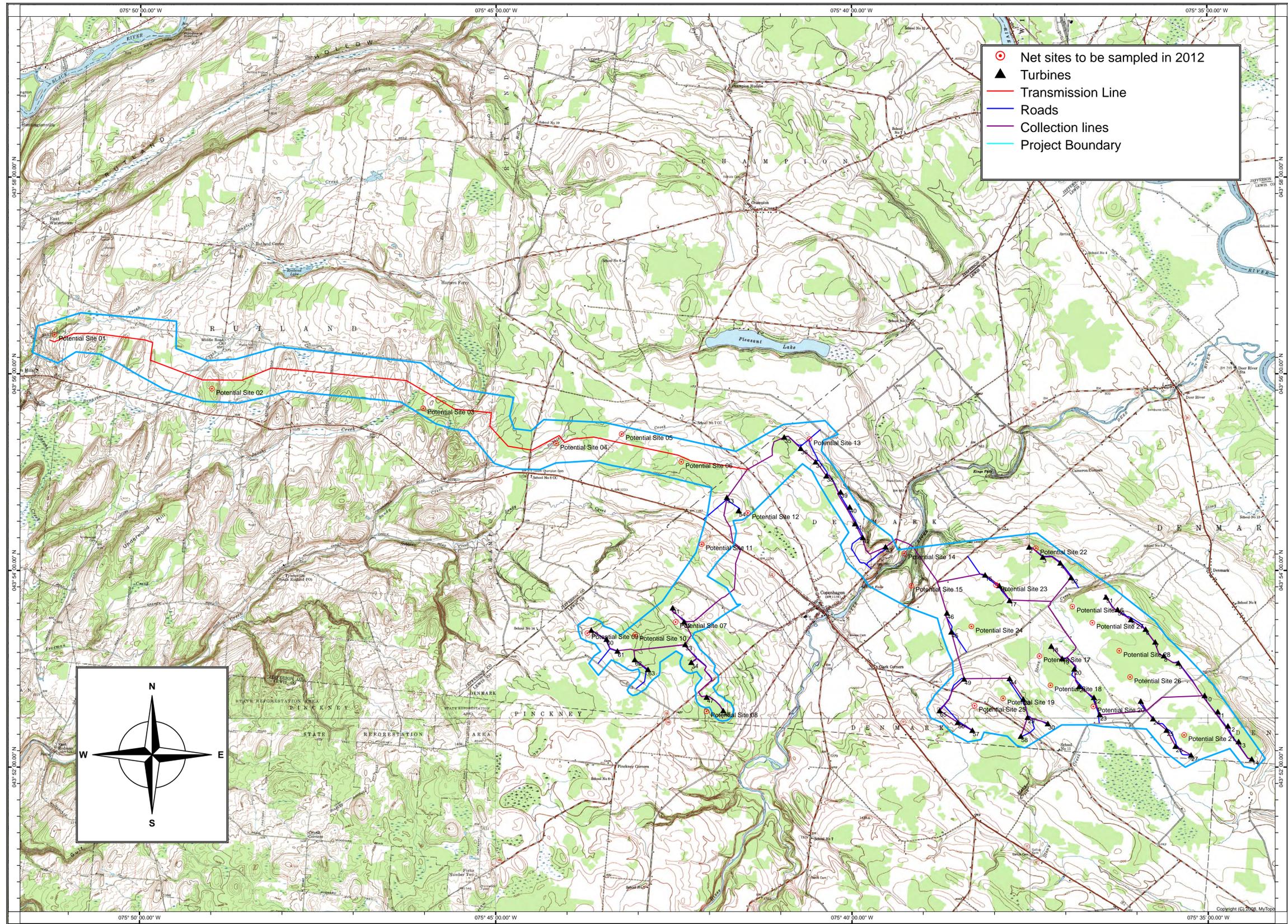
CONCURRENCE:

By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Sincerely,

Christopher Sanders - (814)659-8257





## **Appendix C: Field Data Sheets**



Bat Survey Data Form

Date: 6-13-12		Project: 2012-OWN-NY	
Site Name:		County, State: Jefferson, NY	
Site ID by: M Hopkins		Night: 1	
Other surveyors: D. Kozio		Quad: Rutland Center	
Lat/UTM: 439396967°		Datum: WGS-84	
Weather Conditions: 21:05, 14.3, clear, light air		End: time (military), °C, sky, and wind: 2:10, 9.8, clear, light air	
Weather Comments:		Start Time: 21:05 End Time: 2:10	
Nets/Traps: Set 1: A = 12m x 3h Set 2: B = 9m x 3h			
(Label with size and configuration)			
Site Description: (incl. dominant species and stream data) Deciduous forest stream corridor. Stream has a bedrock bottom with ledges & pools (shallow). Hawthorne, Maple, Willow			
Remarks: (observations, other wildlife, etc)			
Site Sketch (Label net sets to match "Nets/Traps" field above)			

Bat Survey Data Form

Project: 2012-OWN-NT		Site #: 1		Night: 1		Date: 6-13-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
23:11	Long Ew	A	F	NR	8.5	40	7	B	0		double checked
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
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19											
20											
21											
22											
23											
24											
25											

<b>Bat Survey Data Form</b>		Date: 6-14-12	Project: 2012-02N-NY
Site Name:	Site #: 1	Night: 2	County, State: Jefferson, NY
Bat ID by: Hopkins	Other surveyors: J. Albertson	Quad: Putland Center	
Lat/UTM: 43.92969670	Long/UTM: 75.85446920	Datum: NAD83	
Weather Conditions: 21:15, 16.8, clear, light air	23:30, 13.4, clear, light air	End: time (military), °C, sky, and wind: 2:15, 14.6, clear, light air	
Weather Comments:		Start Time: 21:05	End Time: 2:10
Nets/Traps: Set 1: A=12m x 3h	Set 2: B=9m x 3h		
<small>(Label with size and configuration)</small>			
<b>Site Description:</b> (incl. dominant species and stream data) Deciduous forest stream corridor. Stream has a bedrock bottom with ledges & pools (shallow). Hawthorne, maple, willow			
<b>Remarks:</b> (observations, other wildlife, etc)			
<b>Site Sketch</b> <small>(Label net sets to match "Nets/Traps" field above)</small>			



**Bat Survey Data Form**

Date: 6-13-12		Project: 2012-OWN-NY	
Site Name:		Site #: 2	Night: 1
Bat ID by: M Hopkins		Other surveyors: J Albratsm, A Causey	
Lat/UTM: 43, 9321240		Quad: Putnam Center	
Weather Conditions: 21:10, 14.3°, clear, light air		Datum: WGS-84	
Weather Comments: 21:10, 14.3°, clear, light air		End: time (military), °C, sky, and wind: 2:10, 12.5, clear, light air	
Nets/Traps: <del>A</del> Set 1: A = 18m x 3h		Start Time: 21:10	
Set 2: B = 12m x 3h		End Time: 2:10	
(Label with size and configuration)			
Site Description: (incl. dominant species and stream data) Mixed forest bordering hay fields & some patchy forest, on a hill top, maple, oak, Hawthorn			
Remarks: (observations, other wildlife, etc)			
Site Sketch (Label net sets to match "Nets/Traps" field above)			

Bat Survey Data Form

Project: 2012-0220 - NY			Site #: 2		Night: 1		Date: 6-13-12				
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
21:35 <sup>1</sup>	Big Brown	A	F	L	18.8	47 <sup>mm</sup>	22	A	0		
22:00 <sup>2</sup>	Big Brown	A	F	L	21.8	48	10	B	0		
22:00 <sup>3</sup>	Silver Hair	A	M	NR	10.0	42	8	B	0		166480
0000 <sup>4</sup>	Big Brown	A	F	L	18.0	47	13	A	0		
0050 <sup>5</sup>	Red Bat	A	F	L	12.3	42	15	A	0		166462
6											
7											
8											
9											
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25											

**Bat Survey Data Form**

Date: 6-14-12	Project: 2012-awn-ny
Site Name:	Site #: 2
County, State: Jefferson, NY	Quad: Putland Center
Other surveyors: D. Kozioł	Datum: WGS-84
Lat/UTM: 43 93212400	Long/UTM: 75 81766470
Weather Conditions: 21:15, 16.8° clear, light air	End: time (military), °C, sky, and wind: 21:15, 14.6, clear, light air
Weather Comments:	Start Time: 21:15 End Time: 21:15
Nets/Traps: set 1: A = 18m x 3h	set 2: B = 12m x 3h
<small>(Label with size and configuration)</small>	
Site Description: mixed forest bordering hay fields & some patchy forest on a hill top. Maple, Oak, Hawthorne	
Remarks: (observations, other wildlife, etc)	
Site Sketch (Label net sets to match "Nets/Traps" field above)	

Bat Survey Data Form

Project:		2018-0215-NY			Site #:	2		Night:	2		Date:	6-14-12		Band	Comments
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments				
22:05	1 Big Brown	A	M	NR	19.1	48	20	B	0						
22:05	2 Big Brown	A	F	L	23.2	46	18	B	0						
00:30	3 Big Brown	A	F	L	23.3	47	15'	A	0						
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	19														
	20														
	21														
	22														
	23														
	24														
	25														



Bat Survey Data Form

Project: 2012-OWN-NY		Site #: 3		Night: /		Date: 6-12-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
2340	1 Big Brown	A	F	NR	190	44	16	A	1		
0030	2 Big Brown	A	F	L	233	46	12	A	0		
0030	3 Big Brown	A	F	L	-	-	13	A	0		skipped before measurement
0040	4 Big Brown	A	F	L	235	48	0	A	0		
0105	5 Big Brown	A	F	L	23.6	46	15	A	0		
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										

**Bat Survey Data Form**

Date: 6-13-12 Project: 2012 - own - NY

Site Name: Site #: 3 Night: 2 County, State: Jefferson, NY

Bat ID by: A. Covalt Other surveyors: N. Bakawi Quad: Rutland Center

Lat/UTM: 43,92771° Long/UTM: 075,76631° Datum: WGS84

Weather Conditions: 12.3, 21.05, Clear, Calm 2330, 10.3, Clear, Calm 0205, 9.9, Clear, Calm

Weather Comments: Start Time: 2105 End Time: 0205

Nets/Traps: Set 1: Net A, 18m x 3h Set 2: Net B, 12m x 3h

(Label with size and configuration)

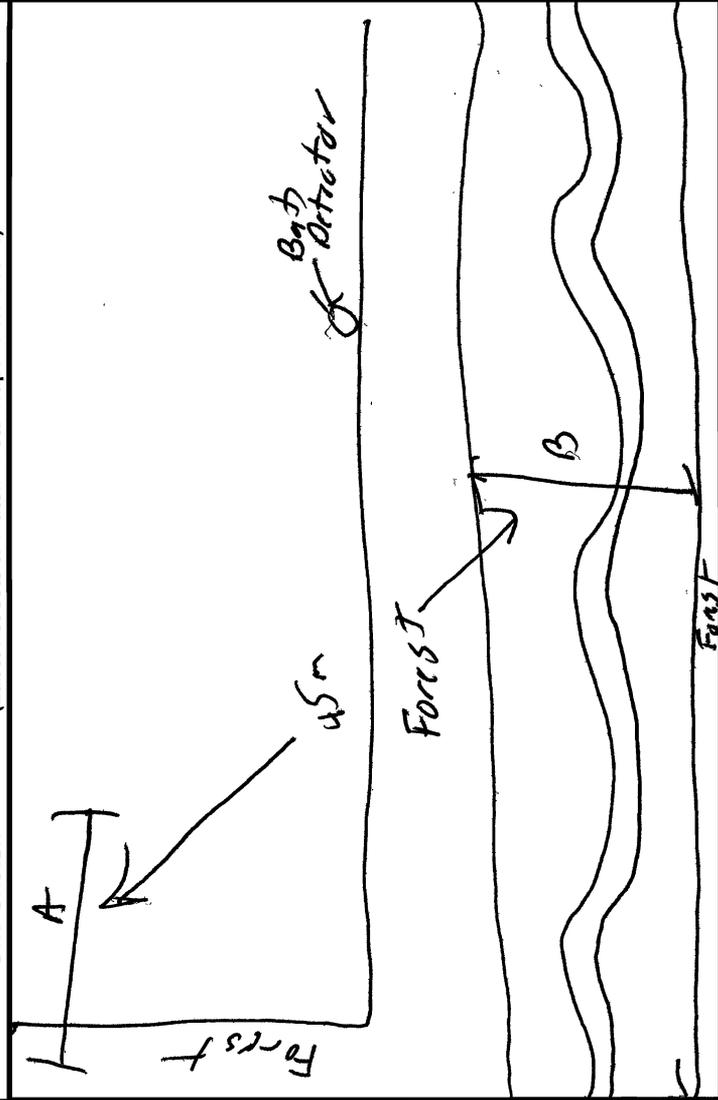
Site Description: Net A is on the edge of a mowed field and net B

(incl. dominant species and stream data) is over a small stream surrounded by mature forest

Maple, cherry, & Ironwood

Remarks: (observations, other wildlife, etc)

Site Sketch (Label net sets to match "Nets/Traps" field above)





**Bat Survey Data Form**

Date: 6-11-12 Project: 2012-OWN-NY  
 Site #: 4 Night: 1 County, State: Jefferson, NY  
 Bat ID by: M Hepkins Other surveyors: J Albertson Quad: Copenhagen  
 Lat/UTM: 43.9216541° Long/UTM: 75.735576° Datum: WGS-84  
 Weather Conditions: 21:10, 23.8, Hazy, Breezy 00:00, 21.5, cloudy, breezy 2:10, 20.3, cloudy, breezy  
 End: time (military), °C, sky, and wind  
 Weather Comments: Start Time: 2:10 End Time: 2:10  
 Nets/Traps: Set 1: A = 18m x 3h Set 2: B = 9m x 3h, C = 12m x 1h D = 12m x 1h

(Label with size and configuration)  
 Site Description: Slow moving stream / swamp w/ large pools surrounded by patchy forest & Hay fields. Red Dogwood, maple, Hawthorne, willow

Remarks: (observations, other wildlife, etc)  
 Site Sketch (Label net sets to match "Nets/Traps" field above)  

The sketch shows a winding stream with several pools. A forest area is situated along the stream, and a hay field is located to the right. Four net locations are marked: A is on the left bank of the stream; B and C are on the right bank near a pool; D is further up the right bank. A bat detector is marked on the far right. The stream is labeled 'Stream' and the hay field is labeled 'Hay field'.

Bat Survey Data Form

Project: 2012-0222-NY			Site #: 4			Night: 1		Date: 6-11-12			
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8	No										
9	Bats										
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

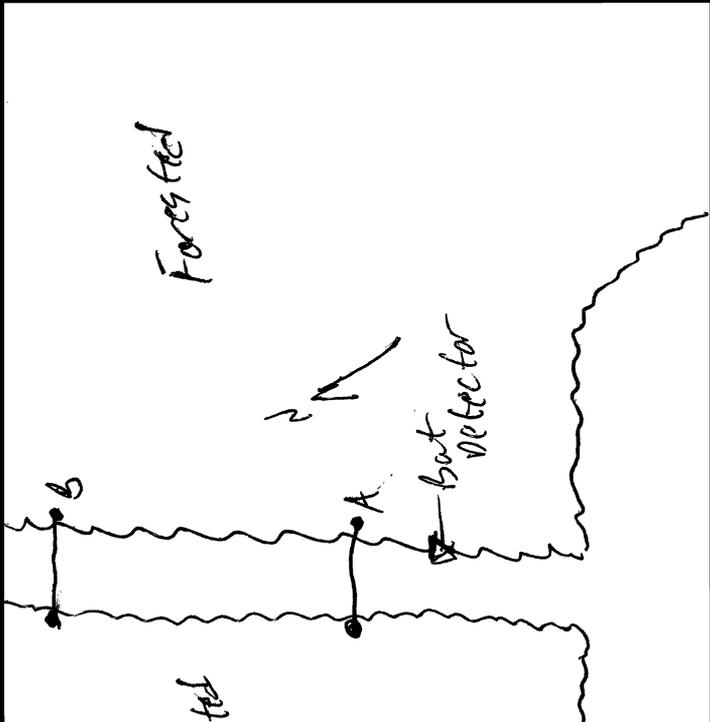
Date: 6-12-12	Project: 2012-OWN-NY
Site Name:	County, State: Jefferson, NY
Site #: 4	Night: 2
Bat ID by: M Hopkins	Other surveyors: B A Causey, D Koziol
Lat/UTM: 43.9216541°	Quad: Copenhagen
Weather Conditions: 2:00, 18.0, cloudy, light breeze	Datum: WGS-84
Weather Comments:	End: time (military), °C, sky, and wind 2:05, 14.4, cloudy, light breeze
Nets/Traps	Start Time: 21:00   End Time: 2:05
(Label with size and configuration) Set 1: A = 18m x 3h, C = 12m x 1h, D = 12m x 1h Set 2: B = 9m x 3h, C = 12m x 3h	
Site Description: (incl. dominant species and stream data) Slow moving stream/swamp w/ large pools surrounded by patchy forest & hay fields. Red Dogwood, maple, Hawthorne, willow	
Remarks: (observations, other wildlife, etc) Site Sketch (Label net sets to match "Nets/Traps" field above)	

Bat Survey Data Form

Project: 2012-0224-114		Site #: 4		Night: 2		Date: 6-12-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10	NO										
11	Bats										
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 6-11-12	Project: 2012-OWN-NY
Site Name:	County, State: Jefferson, NY
Site #: 5	Quad: Copenhagen
Bat ID by: M Hopkins	Datum: WGS-84
Lat/UTM: 43, 920660	End: time (military), °C, sky, and wind
Weather Conditions: 21.10, 23.8°, Hazy, breezy	Start Time: 21:10
Weather Comments:	End Time: 2:10
Nets/Traps: Set 1: A 3h x 9m	
(Label with size and configuration)	
Site Description: Mixed forested ATV trail adjacent to cropland on a small hill top. blue spruce, maple, aspen	
Remarks: (observations, other wildlife, etc)	
Site Sketch (Label net sets to match "Nets/Traps" field above)	



Bat Survey Data Form

Project: 2012-0222-NY		Site #: 5			Night: 1		Date: 6-11-12		Band	Comments	
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net			Wing Damage Index
23:30	1 N. Myotis	-	-	-	-	-	10'	A	-	-	Escaped
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										

**Bat Survey Data Form**

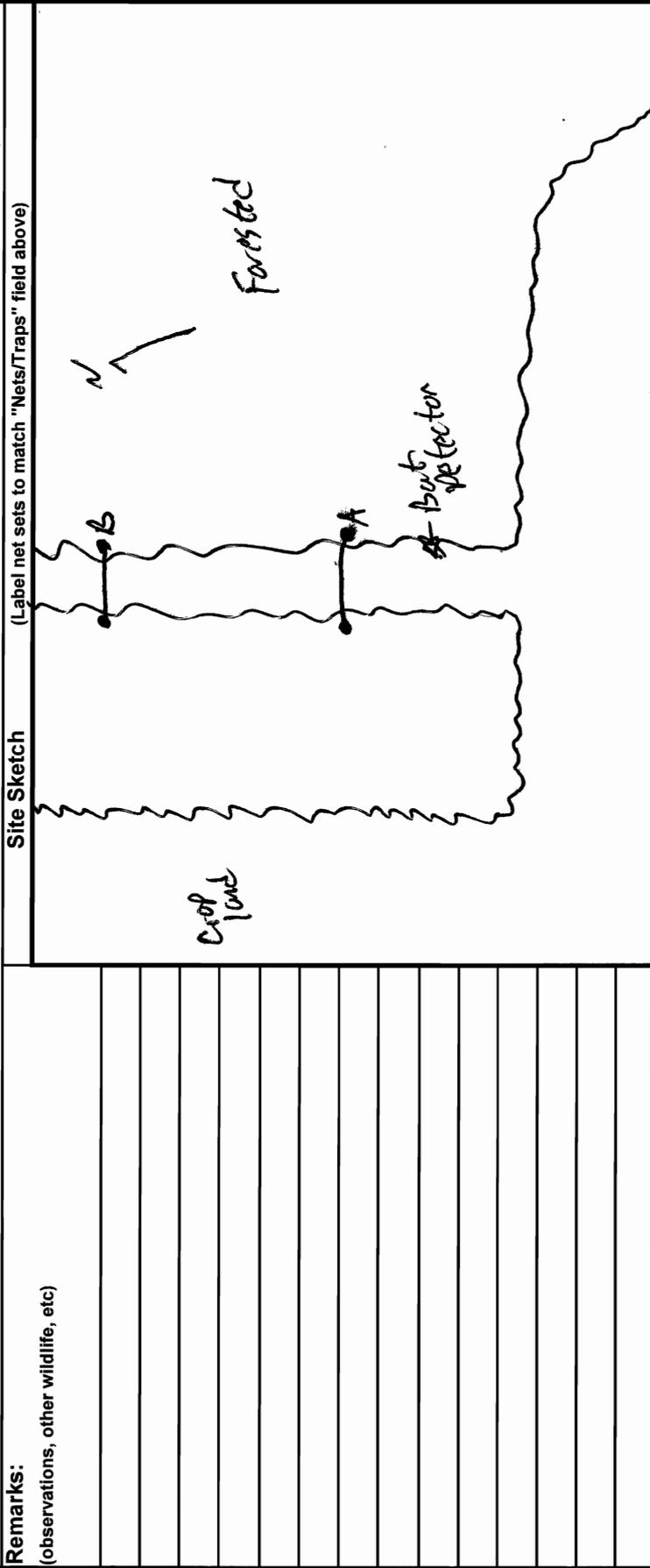
Date: 6-12-12		Project: 2012-OWN-NY	
Site #: 5		Night: 2	
Bat ID by: M Hopkins		County, State: Jefferson, NY	
Other surveyors: O. Albertson		Quad: Copenhagen	
Lat/UTM: 43.920660		Datum: WGS-84	
Dusk: time (military), °C, sky, and wind		End: time (military), °C, sky, and wind	
Weather Conditions: 21:00, 18.0, cloudy, light breeze		2:05, 14.4, cloudy, breeze	
Weather Comments:		Start Time: 21:00 End Time: 2:05	

Nets/Traps: Set 1: A=3h x 9m Set 2: B=3h x 9m

Label with size and configuration

Site Description: Mixed forested ATV trail adjacent to cropland on a small hill top. Blue Spruce, Maple, Aspen.

Remarks: (observations, other wildlife, etc)



Bat Survey Data Form

Project: 2012-0201-NY			Site #: 5			Night: 2		Date: 6-12-12			
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8	NO										
9	BATS										
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											



Bat Survey Data Form

Project: 2012-090-NY

Site #: 6

Night: 1

Date: 6-10-12

Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

NO BATS

**Bat Survey Data Form**

Date: 6-11-12	Project: 2012-Dun-NY
Site Name: —	Site #: 6
Bat ID by: A. Covatt	Other surveyors: D. Kozia
Lat/UTM: 43.91926	Long/UTM: 075.70773
Weather Conditions: 2100, 23.8, partly cloudy, light breeze	End: time (military), °C, sky, and wind: 200, 21.0, cloudy, light breeze
Weather Comments:	Start Time: 2100 End Time: 200
Nets/Traps: Set 1: Net A; 12m x 3h	Set 2: Net B; 9m x 3h
<small>(Label with size and configuration)</small>	
Site Description: old road going through a mature forest, Maple & Hawthorn	
<small>(incl. dominant species and stream data)</small>	
Remarks: (observations, other wildlife, etc)	
<p>Site Sketch <small>(Label net sets to match "Nets/Traps" field above)</small></p>	

Bat Survey Data Form

Project: 2012-OWN-NY Site #: 6 Night: 2 Date: 6-11-12

Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

NO BAT

**Bat Survey Data Form**

Date: 6-6-12 Project: 2012-OWN-NY  
 Night: 1 County, State: Lewis, NY

Site Name: Site #: 7 Site #: 7  
 Other surveyors: A. Causey Quad: Copenhagen

Bat ID by: A. Covalt Long/UTM: 7570757 Datum: NGS84

Lat/UTM: 43.89186  
Dusk: time (military), °C, sky, and wind

Weather Conditions: 2100, 11.2, partly cloudy, calm 2130, 11.4, partly cloudy, light breeze 200, 11.4, cloudy, light breeze

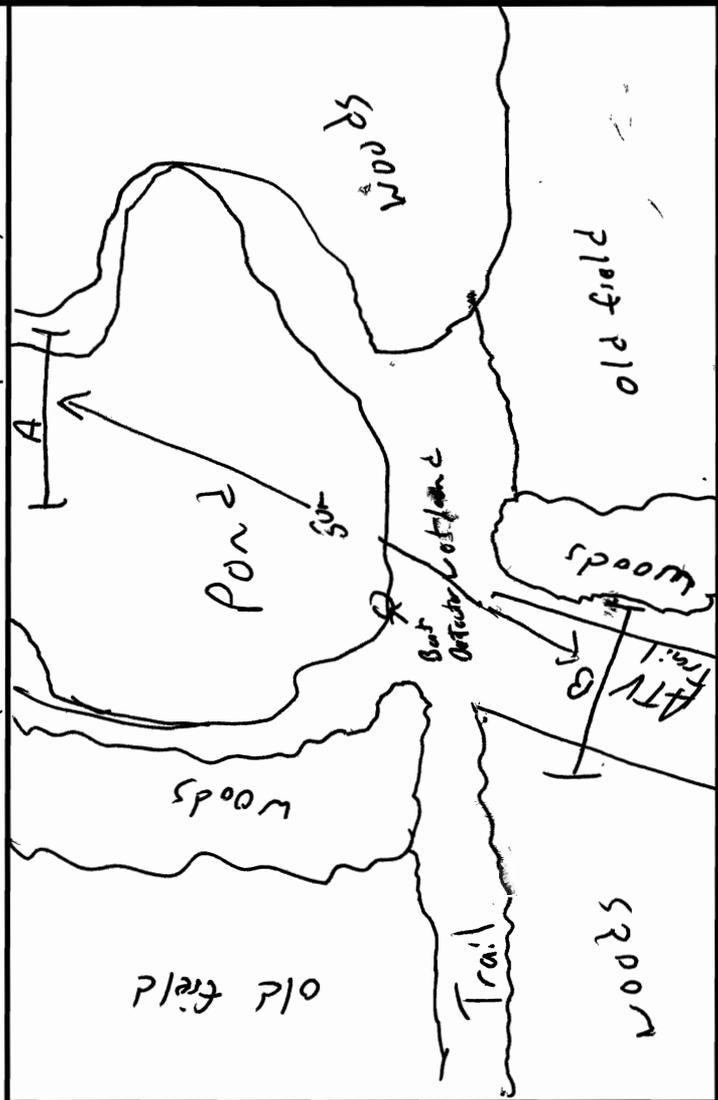
Weather Comments: Start Time: 2100 End Time: 0700

Nets/Traps: Set 1: Net A; 9m x 3h Set 2: Net B; 6m x 3h

(Label with size and configuration)

Site Description: (incl. dominant species and stream data)  
 Large pond with ATV Trails leading to its patches of woods around it. Maple &

Remarks: (observations, other wildlife, etc)



Bat Survey Data Form

Project: 2022-OWN-NY			Site #: 7			Night: 1			Date: 6-6-12		
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

NO  
BATS

**Bat Survey Data Form**

Date: 6-7-12 Project: 2012-Owens NY

Site Name: \_\_\_\_\_ Site #: 7 Night: 2 County, State: Lewis, NY

Bat ID by: A. Couvart Other surveyors: A. Causey Quad: Copenhagen

Lat/UTM: 43,89185 Long/UTM: 075,70760 Datum: WGS84

Weather: \_\_\_\_\_ End: time (military), °C, sky, and wind

Conditions: 2105, 13.3, Clear, Calm 2330, 12.9, Clear, Calm 205, 13.2, Partly Cloudy, Calm

Weather Comments: \_\_\_\_\_ Start Time: 2105 End Time: 205

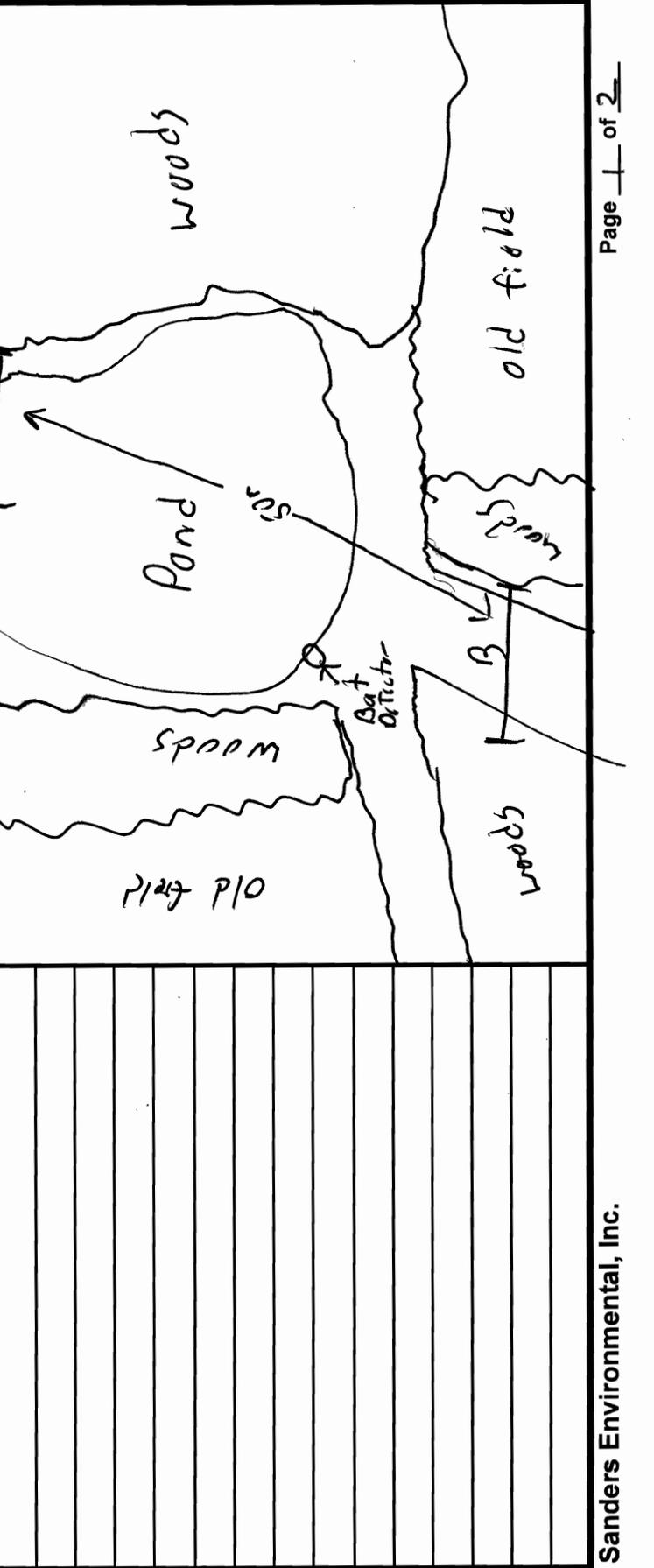
Nets/Traps: Set 1: Net A; 4m x 3h Set 2: Net B; 6m x 3h

(Label with size and configuration)

Site Description: Large pond with ATV trail leading to pond. Paths of woods around pond

Remarks: \_\_\_\_\_

(observations, other wildlife, etc)



Bat Survey Data Form

Project: 2012-OWN - NY		Site #: 7		Night: 2		Date: 6-7-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
2320	1 Big Brown	A	M	NR	17	45	8	B	0	-	-
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										

Bat Survey Data Form

Date: 6-8-12 Project: 2012-ORA-NY

Site Name: Site #: 8 Night: 1

County, State: Lewis, NY

Bat ID by: A. Covalt Other surveyors: D. Koziol Quad: Copenhagen

Lat/UTM: 43,87672 Long/UTM: 07570071 Datum: WGS 84

Weather (busk: time (military), °C, sky, and wind) Mid-sample: time (military), °C, sky, and wind

Conditions 2105, 13.2, Partly cloudy, light breeze 2300, 11.1, Partly cloudy, calm 205, 11.2, Partly cloudy, calm

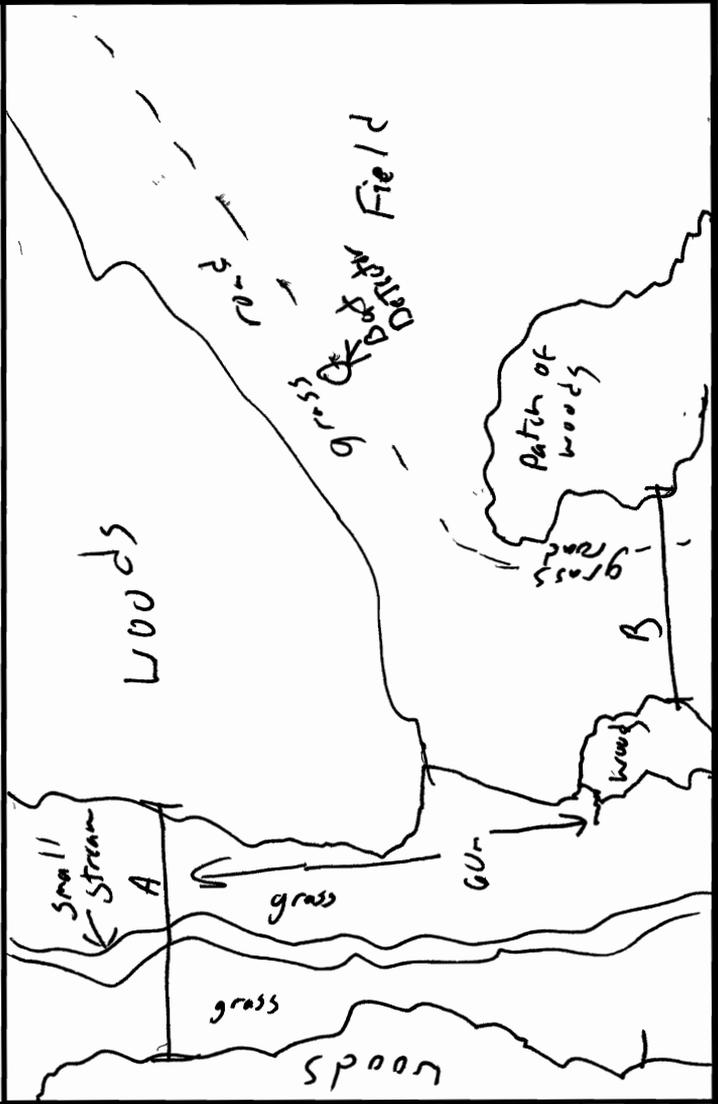
Weather Comments: Start Time: 2105 End Time: 205

Nets/Traps set 1: A; 12 x 3h set 2: Net B; 12 x 3h

(Label with size and configuration)

Site Description: Net A over a small stream in a grass corridor Net B is between two patches of woods in a old field. Sugar Maple.

Remarks: (observations, other wildlife, etc)



Site Sketch (Label net sets to match "Nets/Traps" field above)

Bat Survey Data Form

Project: 2012-025 NY		Site #: 8		Night: 4		Date: 6-8-12		Band	Comments		
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
0215	1 Big Brown	A	M	NR	15.9	47	16	0	0		
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										

**Bat Survey Data Form**

Date: 6-9-12		Project: 2012-Owa-NY	
Site Name: _____		County, State: Lewis, NY	
Site #: 8		Quad: Copenhagen	
Other surveyors: A. Causey		Datum: WGS84	
Lat/UTM: 43.87677		End: time (military), °C, sky, and wind	
Disk: time (military), °C, sky, and wind		0200, 12-1, Clear, Calm	
Weather Conditions: 2100, 15.8, cloudy, calm		Start Time: 2100	
Weather Comments:		End Time: 200	
Nets/Traps: Set 1: A, 12m x 3h set 2: Net B, 12m x 3h			

**Site Description:** (incl. dominant species and stream data)  
 Net A over a small stream in a grass corridor. Net B is between two patches of woods in an old field. Sugar Maple

**Remarks:** (observations, other wildlife, etc)

**Site Sketch:** (Label net sets to match "Nets/Traps" field above)

Bat Survey Data Form

Project: 2012 - Ouzo - NY Site #: 8 Night: 2 Date: 6-9-12

Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

No Bats

**Bat Survey Data Form**

Date: 6-7-12 Project: 2012-OWN-NY

Site Name: Site #: 11 Night: 1

Bat ID by: M Hopkins Other surveyors: J. Albertson, D. Koziol

Lat/UTM: 43.90511° Long/UTM: 75.70039°

Weather Conditions: 21:05, 13.7, partly cloudy, light air; 23:30, 11.3, cloudy, light air

Weather Comments: End: time (military), °C, sky, and wind; 2:05, 11.9, partly cloudy, light air

Nets/Traps: Set 1: A = 3h x 18m; Set 2: B = 3h x 18m

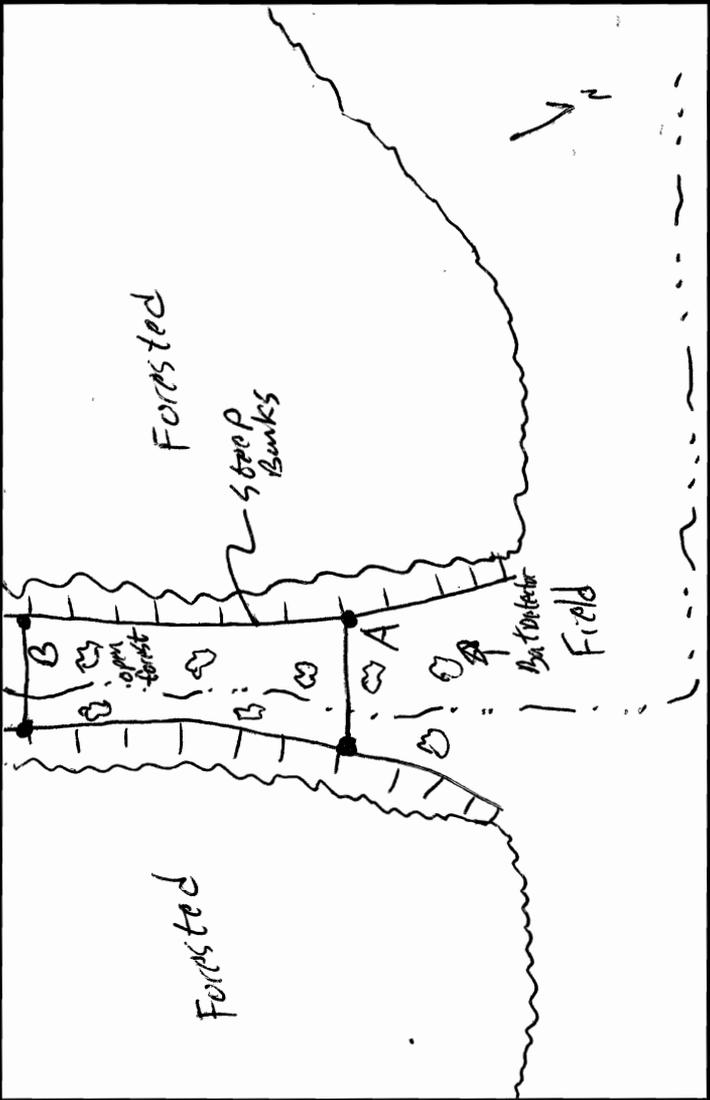
Label with size and configuration

Site Description: (incl. dominant species and stream data)  
 Small slow stream in an open, wooded steep walled gorge (gully) adjacent to houses & fields. Hemlock, maple, birch.

Remarks: (observations, other wildlife, etc)

**Site Sketch**

(Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Project: 2013-Deer-NT			Site #: 11			Night: 1			Date: 6-2-12		
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5	NO										
6	BATS										
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

Bat Survey Data Form

Date: 6-8-12 Project: 2012-OWN-NY

Site Name: Site #: 11 Night: 2 County, State: Lewis, NY

Bat ID by: M Hopkins Other surveyors: J. Albatson, A. Causey Quad: Copenhagen

Lat/UTM: 43, 905120 Long/UTM: 75, 70039 Datum: 1865-84

Weather Conditions: 21:00, 17.0, cloudy, 1.8 wt air 23:30, 12.4, cloudy, 1.8 wt air 2:00, 11.0, partly cloudy, 1.8 wt air

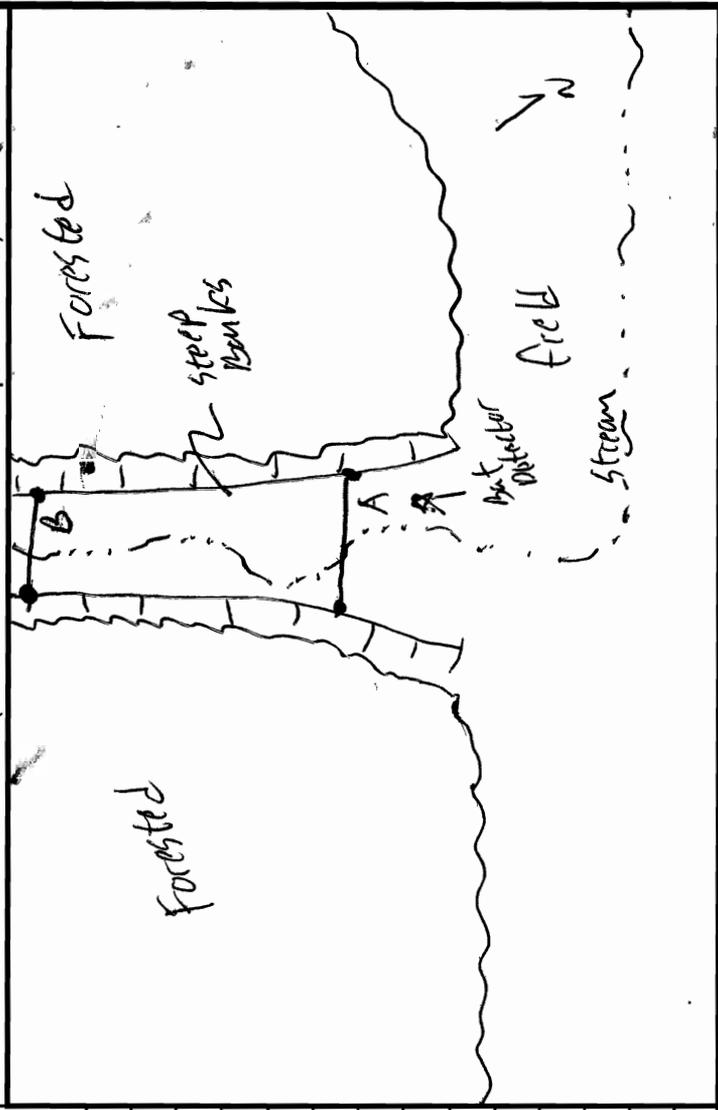
Weather Comments: Start Time: 21:00 End Time: 2:00

Nets/Traps: Set 1: A = 3h x 18m Set 2: B = 3h x 18m

(Label with size and configuration)

Site Description: (Incl. dominant species and stream data) Small slow stream in an open wooded ~~steep~~ steep walled gorge (gulf) adjacent to houses & fields. Hemlock, maple, birch

Remarks: (observations, other wildlife, etc)



Bat Survey Data Form

Project:		2012-0624-NT		Site #:	11		Date:	6-8-12			
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Night: Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1:00	Northern Myotis	A	F	NR	7.9	32	23	A	0		
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 6-7-12 Project: 2012-OWN-NY  
 Site #: 12 Night: 1  
 County, State: Lewis, NY  
 Bat ID by: M Hopkins Other surveyors: N Baickawi Quad: Copenhagen  
 Lat/UTM: 43.909940 Long/UTM: 75.690710 Datum: WGS-84  
 Weather Conditions: 21:05, 13.7, partly cloudy, air 23:30, 11.3, cloudy, air 1:ght partly cloudy, air 2:05, 11.9, cloudy, air 1:ght  
 Weather Comments: Start Time: 21:05 End Time: 2:05

Nets/Traps: Set 1: A = 9m x 3h Set 2: B = 9m x 3h  
 Site Description: (incl. dominant species and stream data)  
 Small wood lot w/ a good grassy corridor between fields and a large beaver pond/marsh. Aspen, Apple spruce, alder, white pine

Remarks: (observations, other wildlife, etc)

Site Sketch (Label net sets to match "Nets/Traps" field above)

The sketch shows a central 'grassy Rd' running horizontally. To the left is a 'field' and to the right is another 'field'. Above the road is a 'forest' area. Below the road is a 'beaver pond/marsh' area. Two net set locations are marked with dots and labeled 'A' and 'B'. A north arrow points upwards.

Bat Survey Data Form

Project: 2013 - OJN - NY			Site #: 12			Night: 1		Date: 8-7-12		Band	Comments
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index		
1											
2											
3											
4											
5											
6	NO										
7	Bats										
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

Bat Survey Data Form

Date: 6-8-12 Project: 2012-OWN-NY  
 Site #: 12 Night: 2  
 County, State: Lewis, NY  
 Other surveyors: A. Baikawi Quad: Copenhagen  
 Lat/UTM: 43, 909950 Datum: WGS-84  
 Long/UTM: 75, 69072  
 Weather Conditions: 21:00, 17, ~~partly~~ light air  
 23:30, 12.4, cloudy, light air  
 End: time (military), °C, sky, and wind: 2:00, 11.0, partly cloudy, air  
 Weather Comments: Start Time: 21:00 End Time: 2:00

Nets/Traps: Set 1: A = 9m x 3h Set 2: B = 9m x 3h  
 (Label with size and configuration)  
 Site Description: (incl. dominant species and stream data)  
 Small wood lot w/ a good grassy corridor between fields and a large beaver pond/marsh. Aspen, Apple, Spruce, alder, white pine.

Remarks: (observations, other wildlife, etc)

Site Sketch (Label net sets to match "Nets/Traps" field above)

The sketch shows a large irregular shape representing the study area. On the left side, it is labeled 'Forest'. A horizontal strip across the middle is labeled 'Grassy P.' (likely grassy path). Below this strip is a wavy line representing a 'pond/marsh'. To the right of the pond/marsh is an area labeled 'Field'. Two points, 'A' and 'B', are marked with dots. Point 'A' is located on the right side of the grassy path, and point 'B' is located on the left side. Lines connect both points to a central label 'Bat Detector'. A north arrow points upwards in the upper right quadrant of the sketch.



**Bat Survey Data Form**

Date: 5-27-12		Project: 2012-Own-NY	
Site #: 13		County, State: Lewis, NY	
Night: 1		Quad: Copenhagen	
Bat ID by: A. Covalt			
Other surveyors: A. Causey			
Lat/UTM: 43A2205		Datum: NGS 84	
Dusk: time (military), °C, sky, and wind			
Weather Conditions: 2100, 16.9, partly cloudy, calm		200, 14.1, partly cloudy, calm	
Mid-sample: time (military), °C, sky, and wind		End: time (military), °C, sky, and wind	
2330, 14.2, partly cloudy, calm		200, 14.1, partly cloudy, calm	
Weather Comments:		Start Time: 2:00 End Time: 2:00	

Nets/Traps ~~1~~ Set 1: Net A; 18m x 3h set 2: Net B; 6m x 3h.

Site Description: Gravel road going through a patch of woods leading to a grass field. Cherry & maple

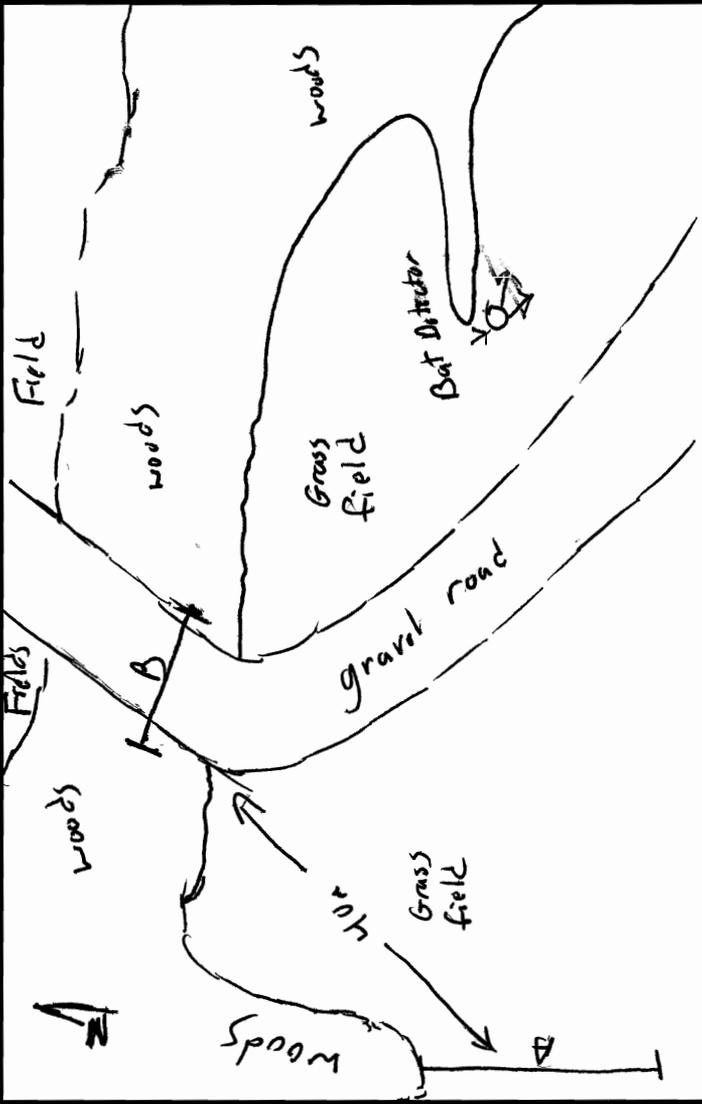
Label with size and configuration

**Remarks:**

(observations, other wildlife, etc)

**Site Sketch**

(Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Project: 2012 - CYN - NY

Site #: 13

Night: 1

Date: 5-27-12

Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
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16											
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21											
22											
23											
24											
25											

W/O BATS

**Bat Survey Data Form**

Date: 5-28-12		Project: 2012-Oya-MK	
Site Name: -		County, State: Lewis, NY	
Site #: 13		Night: 2	
Other surveyors: A. Cousey		Quad: Copenhagen	
Lat/UTM: 43,922,07		Datum: WGS84	
Weather Conditions: 2100, 29.1, partly cloudy, calm		End: time (military), °C, sky, and wind: 200, 23.1, partly cloudy, breeze gentle	
Weather Comments:		Start Time: 2100 End Time: 0200	
Nets/Traps: Set 1: Net A; 18m x 3h		Set 2: Net B; 6m x 3h	
Site Description: (incl. dominant species and stream data) Gravel road going through a patch of woods leading to a grass field. Cherry & Maple			
Remarks: (observations, other wildlife, etc)			
Site Sketch (Label net sets to match "Nets/Traps" field above)			

Bat Survey Data Form

Project: 2012-0605-NY		Site #: 13		Night: 2		Date: 5-28-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

No Bats

Bat Survey Data Form

Date: 5-29-12		Project: 2012 Oswego NY	
Site Name: —		County, State: Lewis, NY	
Site #: 14		Night: 1	
Bat ID by: A. Covault		Quad: Copenhagen	
Lat/UTM: 43.90275		Datum: WGS84	
Weather Conditions: 2100, cloudy, 20.2 breeze		End: time (military), °C, sky, and wind	
Weather Comments: 2100, cloudy, 20.2 breeze		200, 15, Partly cloudy, calm	
Nets/Traps: set 1: Net A: 18m x 3h		Start Time: 2100 End Time: 2200	
Other surveyors: D. Kazial		End: time (military), °C, sky, and wind	
Long/UTM: 075.65412		200, 15, Partly cloudy, calm	
Mid-sample: time (military), °C, sky, and wind		Start Time: 2100 End Time: 2200	
Set 2: Net B: 18m x 3h			
Label with size and configuration)			
Site Description: (incl. dominant species and stream data)			
Net are over a fast moving river down in a valley surrounded by forest, set Hemlocks & Oak			
Remarks: (observations, other wildlife, etc)			
- Rained during the day, creek speed increased during the night			
Site Sketch (Label net sets to match "Nets/Traps" field above)			

Bat Survey Data Form

Project: 2012-022-NY Site #: 14 Night: 1 Date: 5-29-00

Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

NO BATS

Bat Survey Data Form

Date: 5-30-12		Project: 2012 Owl-NY	
Night: 2		County, State: Lewis, NY	
Site #: 14		Quad: Copenhagen	
Other surveyors: A. Corvitt		Datum: WGS84	
Lat/UTM: 43, 9027.5		End: time (military), °C, sky, and wind	
Weather Conditions: 2105, partly cloudy, light breeze, 15.8		205, 12.3, clear, calm	
Weather Comments:		Start Time: 2105 End Time: 0205	
Nets/Traps: Set 1: Net A; 18m x 3h set 2: Net B; 18m x 3h			
(Label with size and configuration)			
Site Description: Nets are over a fast moving creek. Creeks down in a valley surrounded by forest, Cedar, Hemlocks & Oak			
Remarks: (observations, other wildlife, etc)			
Site Sketch (Label net sets to match "Nets/Traps" field above)			
<p>0 = Bat detected</p>			

# Bat Survey Data Form

Project: 2012-02-01-11		Site #: 14		Night: 2		Date: 5-30-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

No Bats

**Bat Survey Data Form**

Date: 6-9-12		Project: 2012-OWN-NY	
Site Name:		Site #: 15	Night: 1
Bat ID by: M Hopkins		Other surveyors: D. Koziol, N Baikawi	
Lat/UTM: 43, 897530		Datum: WGS-84	
Weather Conditions: 21:05, 17.0, cloudy, light out		End: time (military), °C, sky, and wind: 2:05, 12.0, clear, 1.6kt	
Weather Comments:		Start Time: 21:05 End Time: 2:05	
Nets/Traps: Set 1: A = 18m x 3h		Set 2: B = 6m x 3h	
Site Description: (incl. dominant species and stream data) Large open & small tight stream corridor in a deep forested gully. Maple, Birch, honey suckle			
Remarks: (observations, other wildlife, etc)			
<p>Site Sketch (Label net sets to match "Nets/Traps" field above)</p>			

Bat Survey Data Form

Project: 2012-0224 - NY		Site #: 15		Night: 1		Date: 6-9-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6	NA										
7	Bats										
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 6-10-12		Project: 2012-OWN-NY	
Site #: 15		Night: 2	
Other surveyors: D. Kozioł, N. Baikawi		County, State: Lewis, NY	
Lat/UTM: 43, 897580		Datum: WGS-84	
Weather Conditions: 21:10, 18.0, clear, light air		End: time (military), °C, sky, and wind: 2:10, 15.8, clear, light air	
Weather Comments:		Start Time: 21:10 End Time: 2:10	

Nets/Traps Set 1: A = 18m x 3h Set 2: B = 6m x 3h

Site Description: (incl. dominant species and stream data)  
 Large open & small light stream corridor in a deep forested gully. Maple, birch, honey suckle

Remarks: (observations, other wildlife, etc)

Site Sketch (Label net sets to match "Nets/Traps" field above)

The sketch shows a central stream corridor flowing from top to bottom. On the left side, there is a 'pasture' area. On the right side, there is a 'forested' area. Two net sets are marked: 'A' is located on the left bank of the stream, and 'B' is located on the right bank. A 'Bat detector' is also marked on the right bank. A north arrow points to the left. The stream is labeled 'stream' and the surrounding areas are labeled 'pasture' and 'forested'.

Bat Survey Data Form

Project: 2013-0620-NT		Site #: 15		Night: 2		Date: 6-10-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8	No										
9	Bats										
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 5-29-12 Project: 2012-OWN-NY

Site Name: Site #: 16 Night: 1 County, State: Lewis, NY

Bat ID by: M Hopkins Other surveyors: N. Baikawi, A Cawsey Quad: Carthage

Lat/UTM: 43° 29' 48.63" Long/UTM: 75° 6' 16.75" Datum: WGS 84

Weather Conditions: 20:55, 19.0, cloudy, breeze light per the weather

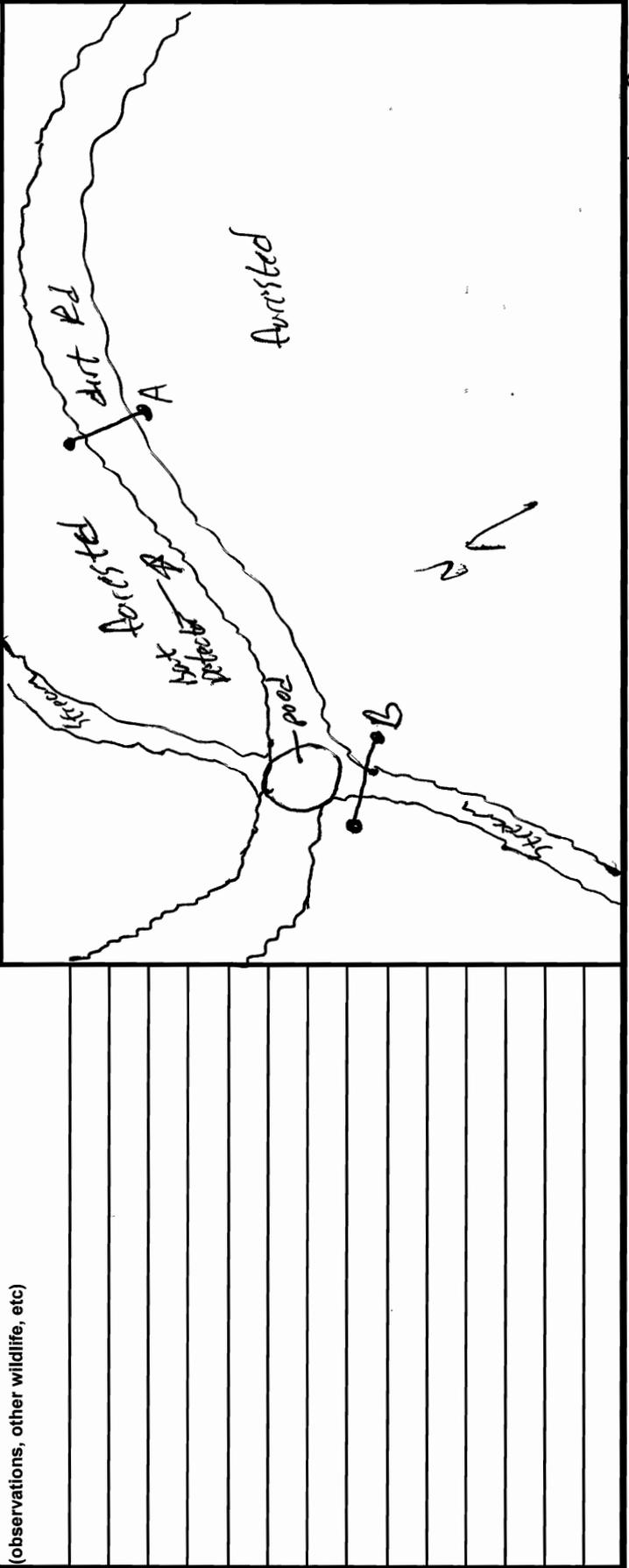
Weather Comments: 23:30, 16.7, cloudy, Breezy 1:55, 14.4, partly cloudy, light

Nets/Traps: Set 1: 12x3h Set 2: 9x3h Start Time: 20:55 End Time: 1:55

Site Description: (incl. dominant species and stream data) Small stream in a mixed forest w/ a dirt Rd. Stream has decent corridor, hemlock, maple, birch

Remarks: (observations, other wildlife, etc)

Site Sketch (Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Project: 2012-DUN-NY			Site #: 16			Night: 1			Date: 5-29-12		
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
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15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

NO BATS

**Bat Survey Data Form**

Date: 5-20-12		Project: 2012-0WN-NY	
Site Name:		County, State: Lewis NY	
Site #: 16		Night: 2	
Bat ID by: M Hooks Inc		Quadrant: Carthage	
Other surveyors: A Casady		Datum: WGS 84	
Lat/UTM: 43.89486630		Long/UTM: 75.61675720	
Weather Conditions: 21:00, 14.3, mostly light breeze		End: time (military), °C, sky, and wind: 2:00, 10.7, partly cloudy, air	
Weather Comments:		Start Time: 20:55	
Nets/Traps: Set 1: 12m x 3h		End Time: 1:55	
(Label with size and configuration)			
Site Description: (incl. dominant species and stream data) Small stream in a mixed forest w/ a dirt rd. Stream has decent corridor. Hemlock, maple, birch			
Remarks: (observations, other wildlife, etc)			
Site Sketch (Label net sets to match "Nets/Traps" field above)			

Bat Survey Data Form

03

Project: 2012 - DuNY - NY		Site #: 16		Night: 2		Date: 5-30-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6	NO										
7	BATS										
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 5-31-12		Project: 2012-Own-N.Y	
Site Name: ~		County, State: Lewis, NY	
Site #: 17		Night: 1	
Other surveyors: J. Albertson		Quad: Carthage	
Lat/UTM: 43,88533		Datum: NGS84	
Weather Conditions: 2100, 10.2 partly cloudy, calm		End: time (military), °C, sky, and wind	
Weather Comments:		Start Time: 2100 End Time: 2130	
Nets/Traps: set 1: Net A; 18m x 3h set 2: Net B; 12m x 3h			
Label with size and configuration			
Site Description: Slow moving streams with grass and hedge rows around the streams. Maple			
Remarks: (observations, other wildlife, etc)			
Caldre out 9.7 at 2130			
Site Sketch (Label net sets to match "Nets/Traps" field above)			

# Bat Survey Data Form

Project: 2012-06-01 - NY			Site #: 17			Night: 1			Date: 5-31-12		
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
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16											
17											
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21											
22											
23											
24											
25											

Colder on 4

NO BATS

**Bat Survey Data Form**

Date: 6-1-12 Project: 2012-00a - NY

Site Name: — Site #: 17 Night: 2  
 County, State: Lewis, NY  
 Other surveyors: J. Albertson Quad: Carthage  
 Bat ID by: A. Corvitt  
 Lat/UTM: 43.88533 Long/UTM: 075.62221 Datum: WGS84  
 Weather (Dusk: time (military), °C, sky, and wind) End: time (military), °C, sky, and wind  
 Conditions 2100, 13.8, cloudy, gale

Weather Comments: — Start Time: — End Time: —

Nets/Traps Set 1: Net A, 18m x 3h Set 2: Net B, 12m x 3h  
 (Label with size and configuration)

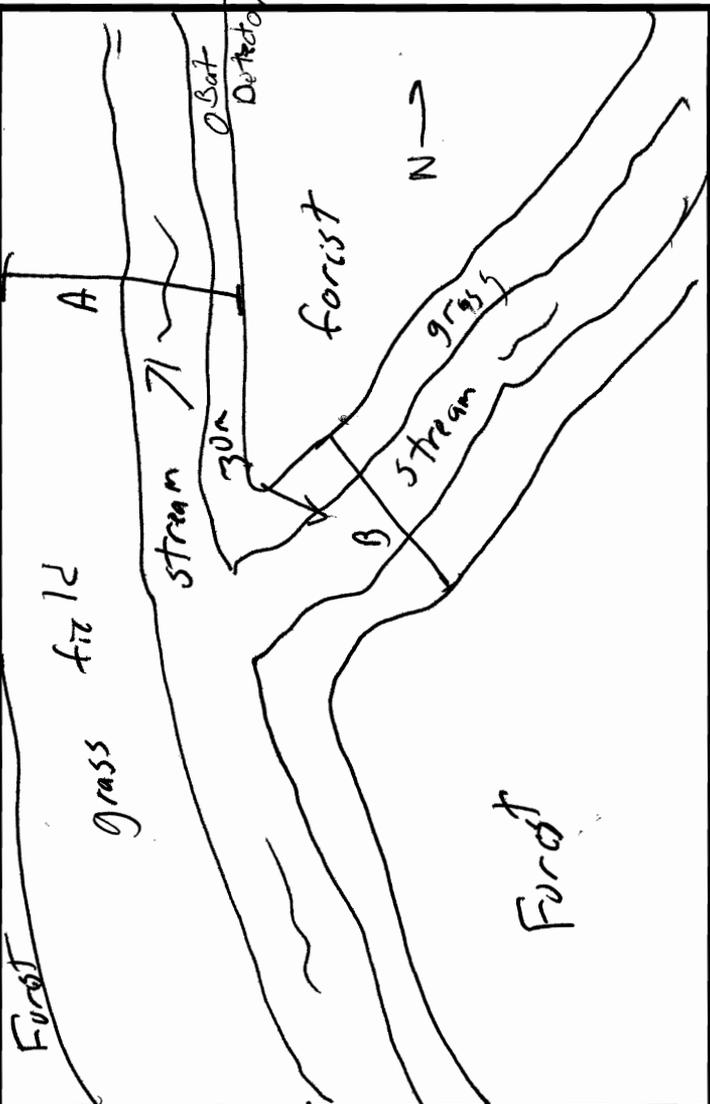
Site Description: (incl. dominant species and stream data)  
 Slow moving stream with grass and weeds around them. maple & cherry

Remarks: (observations, other wildlife, etc)

Wind rained out

**Site Sketch**

(Label net sets to match "Nets/Traps" field above)



# Bat Survey Data Form

Project: 2012-000-NY			Site #: 17			Night: 2		Date: 6/11/12			
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
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21											
22											
23											
24											
25											

Windy Rainy Day  
No Bats

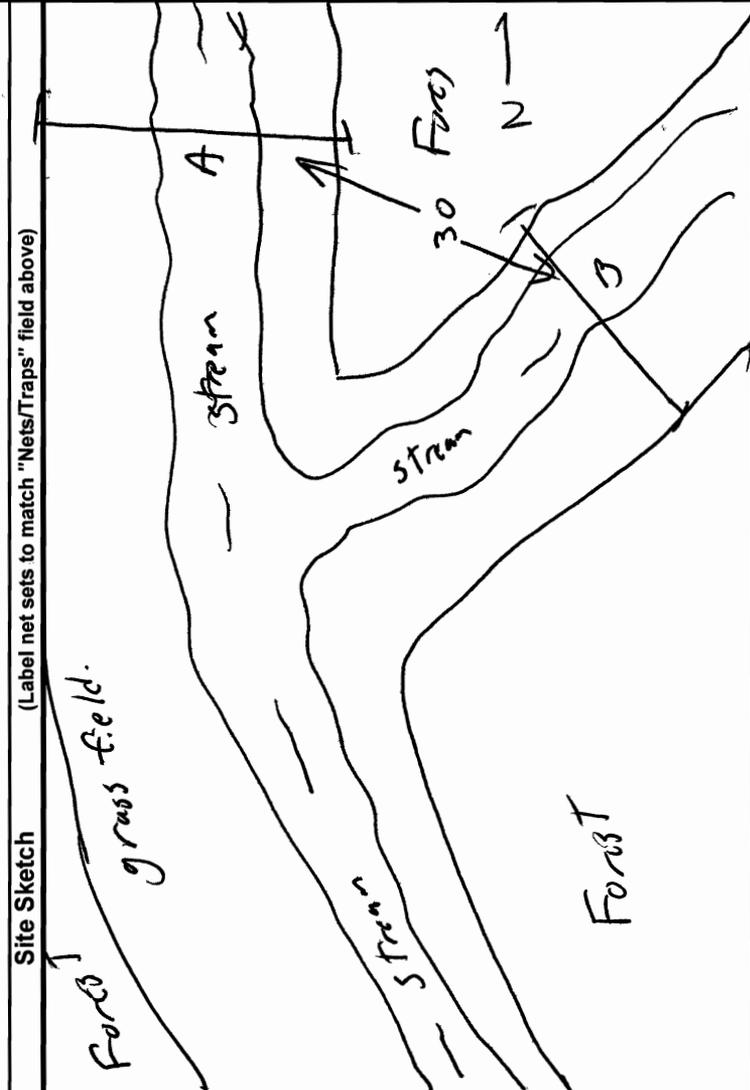
Bat Survey Data Form

Date: 6-12-12		Project: 2012-00n - NY	
Site Name: —		County, State: Lewis NY	
Site #: 17		Night: 3	
Bat ID by: A. Corvatt		Other surveyors: J. Albertson	
Lat/UTM: 43, 88623		Datum: NGS84	
Weather Conditions: 200, 101, clear, calm		End: time (military), °C, sky, and wind	
Weather Comments: 2200 Temp was on 85		Start Time: 2100 End Time: 2230	
Nets/Traps: set 1: Net A; 40m x 3h		set 2: Net B; 12m x 3h	

Site Description: (incl. dominant species and stream data)  
 Slow moving stream with grass and wood around, Maple & Cherry

Remarks: (observations, other wildlife, etc)

Cold out. Temp went below 10°C. Stayed extra hour Temp kept falling. 2230 Temp was 7.9°C



Bat Survey Data Form

Project: 2012-OWN-NY k Site #: 17 Night: 3 Date: 6-2-12

Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

Cold bat

No Bats

**Bat Survey Data Form**

<b>Date:</b> 6-9-12	<b>Project:</b> 2012-OWN-NY
<b>Site #:</b> 17	<b>County, State:</b> Lewis, NY
<b>Bat ID by:</b> M Hopkins	<b>Quadrant:</b> Carthage
<b>Lat/UTM:</b> 43,88557°	<b>Datum:</b> WGS-84
<b>Weather Conditions:</b> 21:05, 17.0, cloudy, light breeze, 1.8 h <sup>+</sup> air	<b>End: time (military), °C, sky, and wind:</b> 2:05, 12.2, clear, 1.6 h <sup>+</sup> air
<b>Weather Comments:</b>	<b>Start Time:</b> 21:05 <b>End Time:</b> 2:05
<b>Nets/Traps:</b> Set 1: A=3h x 18m Set 2: B=3h x 12m	
<small>(Label with size and configuration)</small>	
<b>Site Description:</b> Large open corridor w/ a slow stream in a mixed forest. White pine, birch, apple, honey suckle.	
<small>(incl. dominant species and stream data)</small>	
<b>Remarks:</b>	
<small>(observations, other wildlife, etc)</small>	
<b>Site Sketch</b>	<small>(Label net sets to match "Nets/Traps" field above)</small>



**Bat Survey Data Form**

Date: 6-10-12		Project: 2012-OWN-NY	
Site #: 17		County, State: Lewis, NY	
Night: 5		Quad: Carthage	
Other surveyors: J. Albatson		Datum: WGS-84	
Lat/UTM: 43.885580		End: time (military), °C, sky, and wind	
Long/UTM: 75.622380		2:10, 15.8, clear, light air	
Weather Conditions: 2:10, 18.0, clear, light air		Start Time: 2:10	
Weather Comments:		End Time: 2:10	
Nets/Traps: Set 1: A = 18m x 3h Set 2: B = 12m x 3h			

Label with size and configuration)

**Site Description:** (incl. dominant species and stream data)  
 Large open corridor w/ a slow stream in a mixed forest. white pine, birch, apple, honey suckle.

**Remarks:** (observations, other wildlife, etc)

**Site Sketch** (Label net sets to match "Nets/Traps" field above)

Bat Survey Data Form

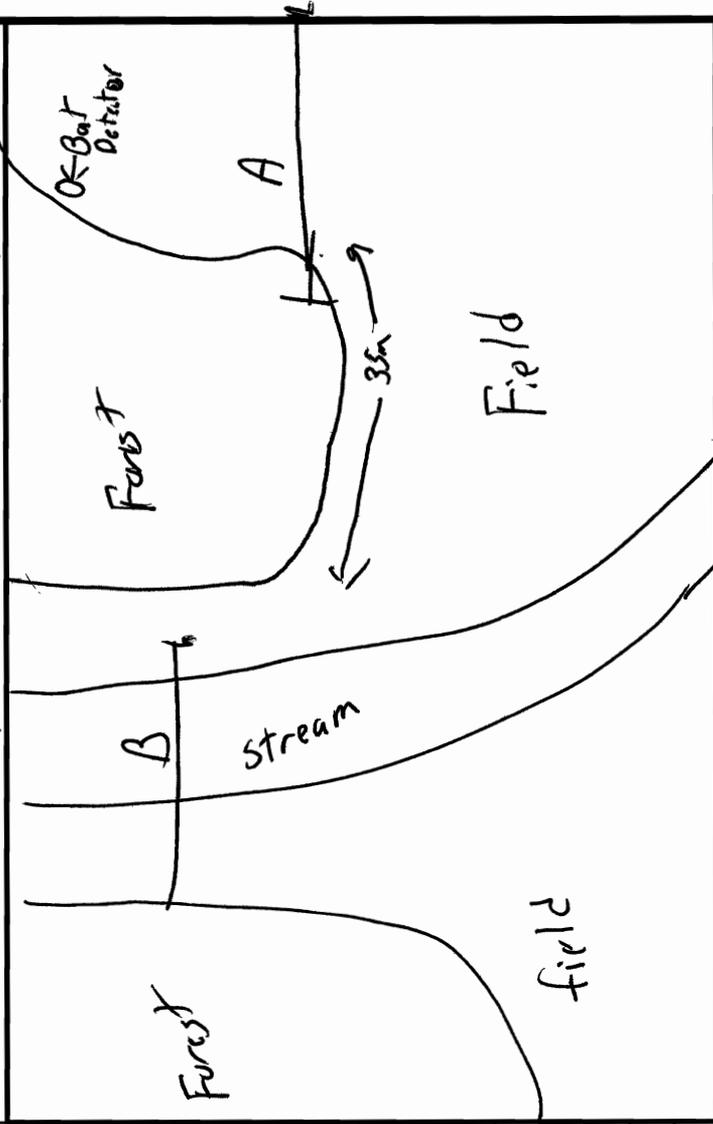
Project: 2012 - OUN - NY			Site #: 17			Night: 5			Date: 6-10-12		
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5	NO										
6	Bats										
7											
8											
9											
10											
11											
12	*										
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 5-25-12		Project: 2012-OWN-NY	
Site Name: -		Night: 1	
Site #: 18		County, State: Lewis, NY	
Bat ID by: A. Covatt		Other surveyors: M. Barkawi	
Lat/UTM: 43.88045		Datum: WGS84	
Weather Conditions: 2100, 22.3, partly cloudy, fresh breeze		End: time (military), °C, sky, and wind: 2330, 21.7, partly cloudy, light breeze	
Weather Comments:		Start Time: 2100 End Time: 0200	
Nets/Traps: Set 4; net A: 12m x 3h set 2; net B: 9m x 3h			
<small>(Label with size and configuration)</small>			
Site Description: Slow moving stream going through field. Field lined with mature forest. Dominant species Maple			
Remarks: (observations, other wildlife, etc)			

**Site Sketch**

(Label net sets to match "Nets/Traps" field above)





**Bat Survey Data Form**

Date: 5-26-12 Project: 2012-OWN-NY  
 Night: 2 County, State: Lewis, NY

Site Name: — Site #: 18 Other surveyors: N. Bar kawi Quad: Carthage

Bat ID by: A. Corvatt Long/UTM: 75.619617 Datum: NGS84

Lat/UTM: 43.8804940 Mid-sample time (military), °C, sky, and wind  
 Weather Conditions: 2055 7 17.4, Partly cloudy, light 2330, Partly cloudy, 14.2, Calm 0155, 10.1, clear Calm

Start Time: 2055 End Time: 0155

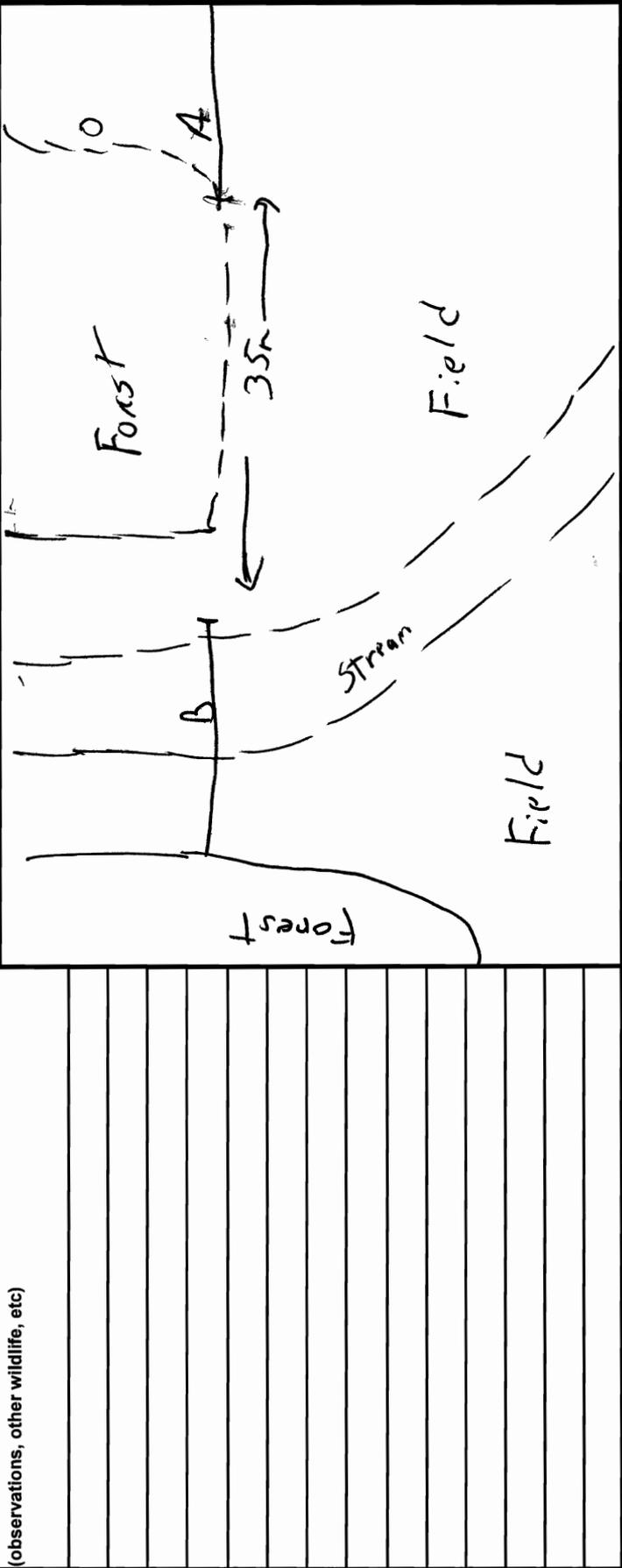
Weather Comments:

Nets/Traps Set 1: Net A; 12m x 3h Set 2: Net B; 9m x 3h

(Label with size and configuration)

Site Description: Stream in field with patches of mature maple forest  
 (incl. dominant species and stream data)

Remarks: (observations, other wildlife, etc)





**Bat Survey Data Form**

Date: 5-31-12		Project: 2012-OWN-NY	
Site Name:		Site #: 19	Night:
Bat ID by: M Henkins		County, State: Lewis, NY	
Other surveyors: N Baikowski, A. Causey		Quad: Copenhagen	
Lat/UTM: 43, 87991660		Datum: WGS-84	
Weather Conditions: 20:55, 11.5, cloudy, 1.8ht ant		End: time (military), °C, sky, and wind	
Weather Comments:		Start Time: 20:55	End Time: 22:10

**Nets/Traps**  
 (Label with size and configuration)  
 Set 1: A = 3h x 18m Set 2: B = 3h x 12m  
**Site Description:**  
 (Incl. dominant species and stream data)  
 Open Deciduous forest w/ a slow stream adjacent to hay fields. Red maple, Hawthorn

**Remarks:**  
 (observations, other wildlife, etc)

Cold out  
 Temp = 9.5° @ 22:10

**Site Sketch**  
 (Label net sets to match "Nets/Traps" field above)

The sketch shows a field on the left, a stream flowing from the top right towards the bottom right, and an 'open forest' area on the right. Two net locations are marked with dots and labeled 'A' and 'B'. A 'Santometer' is indicated near the stream. A north arrow is drawn pointing towards the top left.

# Bat Survey Data Form

Project: 2013-OWN - NY			Site #: 19			Night: 1		Date: 5-31-12			
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5	N/O										
6	Bats										
7											
8											
9											
10											
11											
12											
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14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 6-1-12		Project: 2012-OWN-NY	
Site #: 19		Night: 2	
Bat ID by: M Hopkins		County, State: Lewis, NY	
Other surveyors: N. Baikawi, A. Causey		Quad: Copenhagen	
Lat/UTM: 43, 87991660		Datum: WGS-84	
Weather Conditions: 21:00, 14.4, rain, very windy		End: time (military), °C, sky, and wind	
Weather Comments:		Start Time: 21:00	
Nets/Traps: Set 1: A = 3h x 18m Set 2: B = 3h x 12m		End Time: 22:00	
(Label with size and configuration)			
Site Description: (incl. dominant species and stream data) Open Deciduous forest w/ a slow stream adjacent to hay fields. Red Maple, Hawthorn			
Remarks: (observations, other wildlife, etc) 22:00 Wind out/ Rain out			
Site Sketch (Label net sets to match "Nets/Traps" field above) 			

Bat Survey Data Form

Project: 2012-0UN-NY		Site #: 19			Night: 2		Date: 6-1-12				
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12	NO										
13											
14	PSLTS										
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											





**Bat Survey Data Form**

Date: 6-3-12 Project: 2012-OWN-NY  
 Site #: 19 Night: 4  
 Site Name: M Hepkins Other surveyors: N. Baikawi, A. Causey  
 County, State: Lewis, NY  
 Bat ID by: M Hepkins Quad: Copenhagen  
 Lat/UTM: 43, 87991660 Long/UTM: 75, 6311660 Datum: WGS 84  
 Weather Conditions: 21:00, 11.0, partly cloudy, light air  
 Mid-sample time (military), °C, sky, and wind: 23:30, 10.1, cloudy, light air  
 End: time (military), °C, sky, and wind: 2:00, 10.5, light rain, light air  
 Weather Comments: Start Time: 21:00 End Time: 2:00

Nets/Traps: Spt 1: A = 3h x 18m Spt 2: B = 3h x 12m  
 (Label with size and configuration)

Site Description: (incl. dominant species and stream data)  
 Open deciduous forest w/ a slow stream adjacent to hay fields. Red maple, Hawthorn

Remarks: (observations, other wildlife, etc)

Site Sketch (Label net sets to match "Nets/Traps" field above)

Bat Survey Data Form

Project: 2012-0610-04			Site #: 19			Night: 4		Date: 6-23-12			
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5	No bats										
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

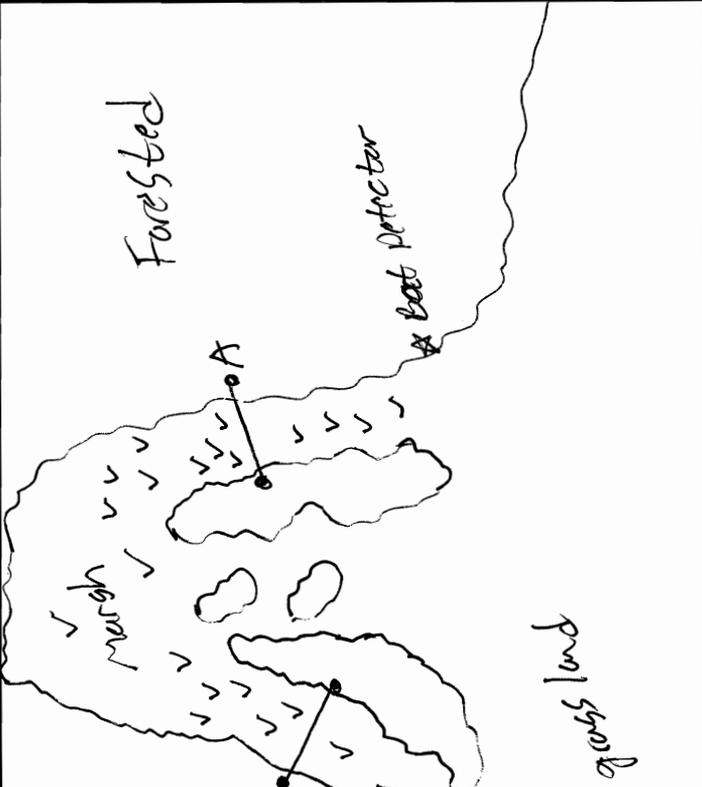
**Bat Survey Data Form**

Date: 5-25-12 Project: 2012-OWN NY  
 Site #: 20 Night: 1 County, State: Lewis, NY  
 Bat ID by: M Hopkins Other surveyors: J Albatson A Causey Quad: Carthage  
 Lat/UTM: 43.87703060 Long/UTM: 75.6097752 Datum: WGS 84  
 Weather Conditions: 21.00, 23.5, partly cloudy, windy 00:00, 21.3, mostly cloudy, breezy 2:00, 20.1, partly cloudy, light air  
 End: time (military), °C, sky, and wind  
 Start Time: 21:00 End Time: 2:00

Weather Comments:  
 Nets/Traps Set 1: A 18m x 3h Set 2: B 9m x 3h  
 (Label with size and configuration)  
 Site Description: (incl. dominant species and stream data)  
 Patchy forested marsh land w/ adjacent grassland/crop land,  
 white pine, maple, birch.

Remarks:  
 (observations, other wildlife, etc)

Site Sketch  
 (Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Project: 2012 OWN NY		Site #: 20		Night: 1		Date: 5-25-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11				NR	13a 65						
12											
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15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 5-26-12 Project: 2012 OWN NY

Site Name: 2012 OWN NY Site #: 20 Night: 2

Bat ID by: M Hopkins Other surveyors: J Albertson, D Kozioł Quad: Carthage

Lat/UTM: 43, 8770306 Long/UTM: 75, 6097752 Datum: WGS 84

Weather Conditions: 20:55, 17.6, partly cloudy, 18-hr breeze, 12-0, clear, light air

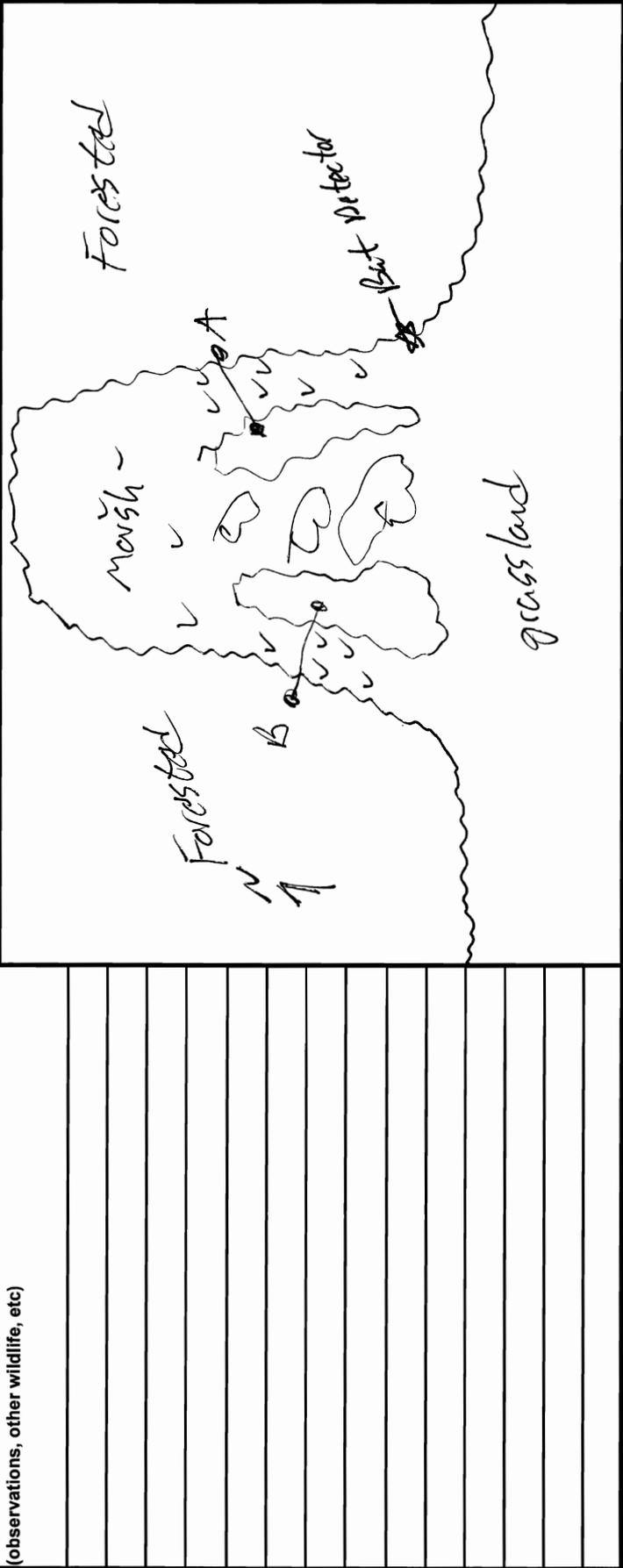
Weather Comments: Start Time: 20:55 End Time: 2:00

Nets/Traps: Set 1: A 18m x 3h Set 2: B 9m x 3h

Site Description: (incl. dominant species and stream data) Patchy forested marsh land w/ adjacent grassland / cropland, white pine, maple, Birch

Remarks: (observations, other wildlife, etc)

Site Sketch (Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Project: 2012 OWN NY			Site #: 20		Night: 2		Date: 5-26-12				
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11	Not Bats										
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 5-25-12		Project: 2012-06A NY	
Site Name:		County, State: Lewis, NY	
Site ID by: M Hopkins		Quad: West Lewisville	
Site #: 21		Night: 1	
Other surveyors: D Kozioł		Datum: NAD 83	
Lat/UTM: 43, 8724333		End: time (military), °C, sky, and wind	
Weather Conditions: 21.00, 23.5 partly cloudy, windy 00:00, 21.3, mostly cloudy, breezy		Start Time: 21:00	
Weather Comments:		End Time: 2:00	
Nets/Traps: Set 1: A = 3h x 18m Set 2: B = 3h x 12m			
Site Description: (incl. dominant species and stream data)			
Crop land w/ a mix forested patches & marshes			
Set 1 on forest line & set 2 in a corridor in forest			
w/ some marshes. Juniper, Maple, Birch			
Remarks: (observations, other wildlife, etc)			
Site Sketch (Label net sets to match "Nets/Traps" field above)			

2

# Bat Survey Data Form

Project: <i>2012 OWN NY</i>			Site #: <i>21</i>		Night: <i>1</i>		Date: <i>5-25</i>				
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
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11											
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20											
21											
22											
23											
24											
25											

*ADD  
15 bats*

*2*



Bat Survey Data Form

Project: 2012 USN NY		Site #: 21		Night: 2		Date: 5-26-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11	No Bats										
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

Bat Survey Data Form

Date: 6-3-12 Project: 2012 OVN NY

Site Name: Site #: 22 Night: 1

Bat ID by: A. Covalt Other surveyors: J. Albertson

Lat/UTM: 4396385 Long/UTM: 07562321

Weather Conditions: 200, 11.0 Partly cloudy, calm

Weather Comments: 2330 10.3, Partly cloudy, calm

Nets/Traps: Set 2: Net A; 9m x 3h Set 2: Net B; 6m x 3h

Site Description: ATV Trail surrounded by mature forest. Maple & Cherry. ATV Trails on top of a hill.

End: time (military), °C, sky, and wind

Start Time: 2100 End Time: 0200

County, State: Lewis, NY

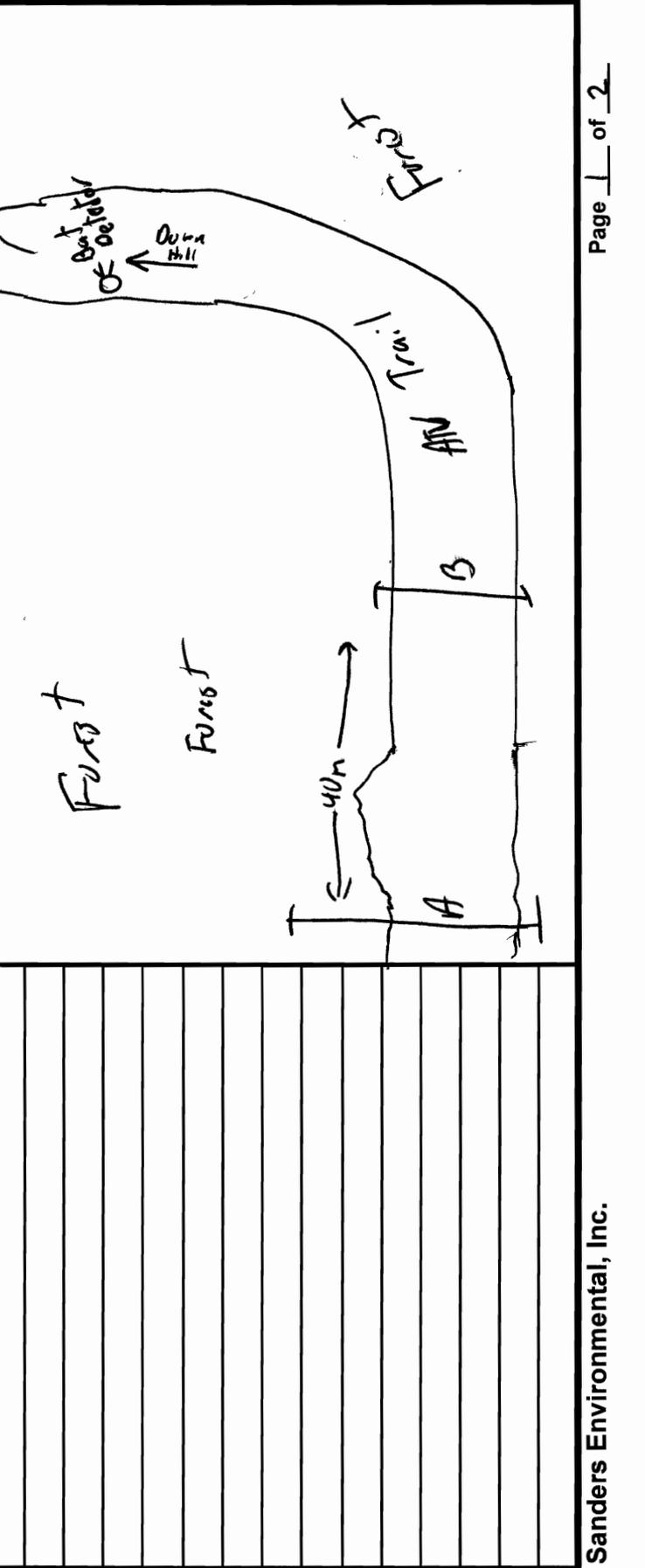
Quad: Carthage

Datum: WGS 84

End: time (military), °C, sky, and wind

Start Time: 2100 End Time: 0200

Site Sketch (Label net sets to match "Nets/Traps" field above)



Remarks: (observations, other wildlife, etc)

Bat Survey Data Form

Project: 2012 One NY			Site #: 22			Night: 1		Date: 6-3-12			
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
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21											
22											
23											
24											
25											

WED BATS

Bat Survey Data Form

Date: 6-4-12 Project: 2012 own NY

Site Name: — Site #: 22 Night: 2 County, State: Lewis, NY

Bat ID by: A. Covalt Other surveyors: A. Causey Quad: Garthage

Lat/UTM: 4390387 Long/UTM: 07562320 Datum: NGS84

Weather Conditions: 2100, h.l., partly cloudy, light breeze  
(Dusk: time (military), °C, sky, and wind)  
(Mid-sample: time (military), °C, sky, and wind)

Weather Comments: 2130 Temp trap was at 9.7 Start Time: 2100 End Time: 2200

Nets/Traps: Set 1: Net A: 9m x 3h set 2: Net B: 6m x 3h

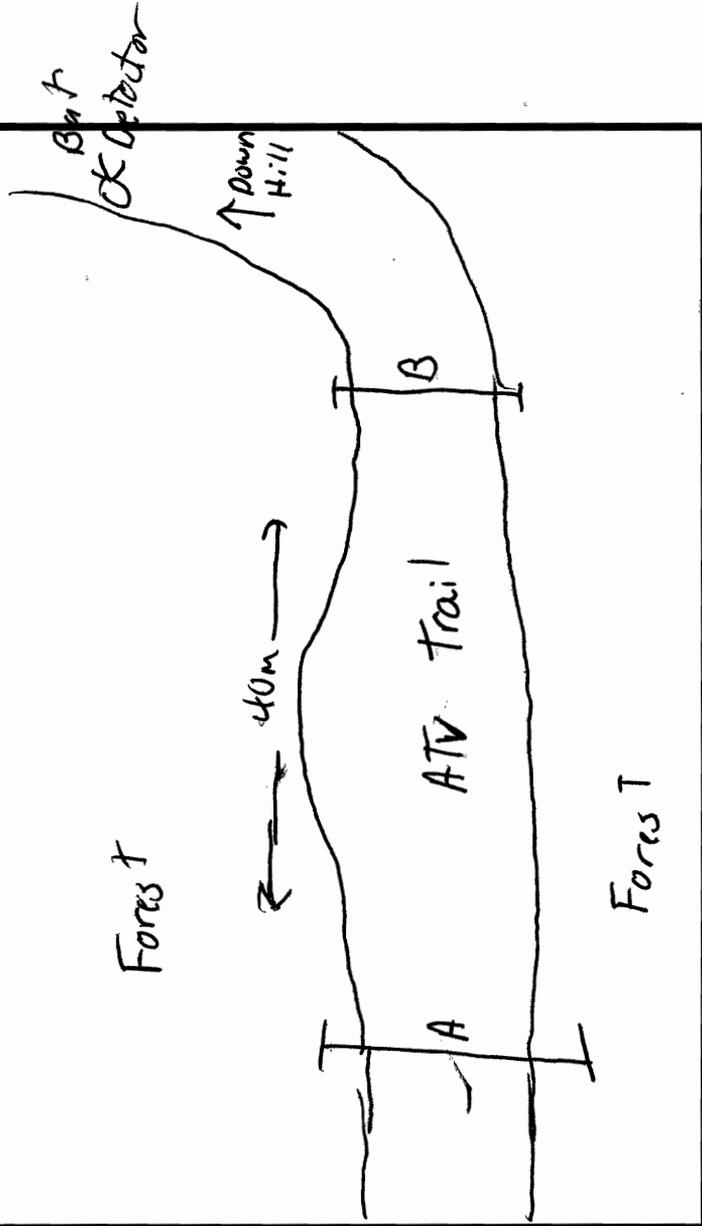
(Label with size and configuration)

Site Description: ATV Trail on top of a hill. surrounded by mature forest  
 (incl. dominant species and stream data)  
 Maple & cherry

Remarks: (observations, other wildlife, etc)

Cold out. ~~Found~~ last trap at 2200 was 9.2

Site Sketch (Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Project: 2012-OWN-NY		Site #: 22		Night: 2		Date: 6-4-12		Comments			
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
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21											
22											
23											
24											
25											

Cold Out

No Bats

**Bat Survey Data Form**

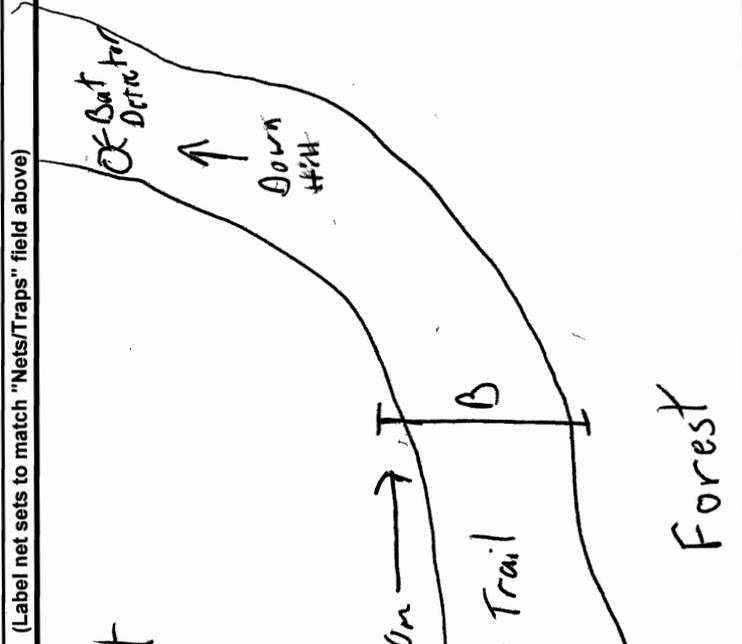
Date: 6-5-12 Project: 2012 Owh NY  
 Night: 3 County, State: Lewis, NY

Site Name: \_\_\_\_\_ Site #: 22 Other surveyors: A. Causey Quad: Carthage  
 Bat ID by: A. Couvart Long/UTM: 075.62316 Datum: WGS 84  
 Lat/UTM: 43.90384 Mid-sample: time (military), °C, sky, and wind  
 Weather Conditions: 2:00, 12.6, clear, calm 2:30, 10.2, clear, light breeze 02:00, 12.1, cloudy, light breeze  
 End: time (military), °C, sky, and wind  
 Weather Comments: Start Time: 2:00 End Time: 2:00

Nets/Traps: Set 1: Net A; 9m x 3h set 2: Net B; 6m x 3h  
 (Label with size and configuration)

Site Description: ATV trail on top of a hill surrounded by mature forest.  
 Maple & cherry

Remarks:  
 (observations, other wildlife, etc)



Bat Survey Data Form

Project: 2012 Own NY		Site #: 22		Night: 3		Date: 6-5-12				
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net Wing Damage Index	Band	Comments
1										
2										
3										
4										
5										
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21										
22										
23										
24										
25										

Ad Bats

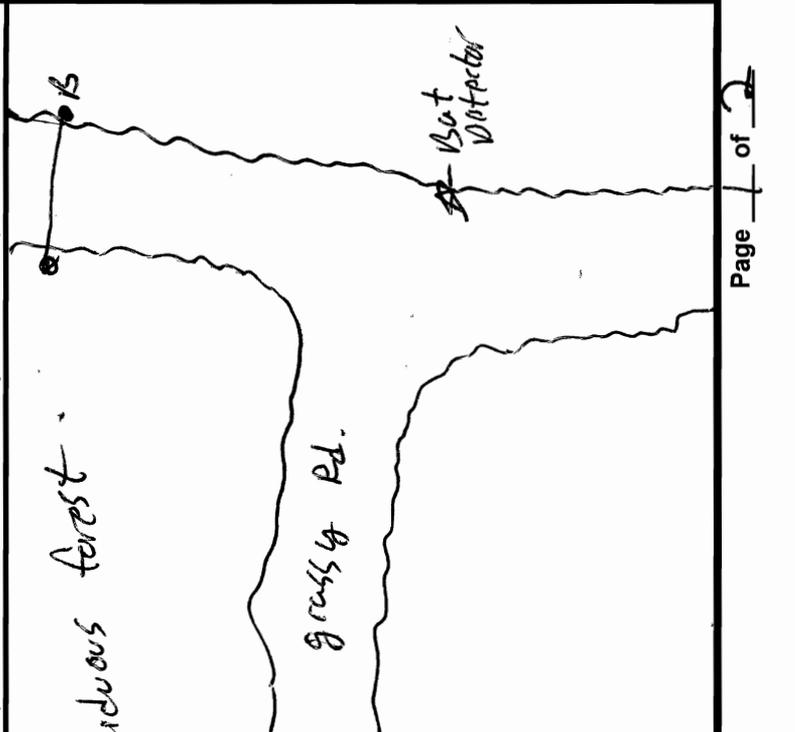
**Bat Survey Data Form**

Date: 6-4-12 Project: 2012-OWN-NY  
 Site #: 23 Night: 1  
 County, State: Lewis, NY  
 Other surveyors: N BaiKawi  
 Quad: Copenhagen  
 Long/UTM: 75.63603360 Datum: WGS-84  
 Mid-sample: time (military), °C, sky, and wind  
 End: time (military), °C, sky, and wind

Site Name:  
 Bat ID by: N Hepkins  
 Lat/UTM: 43.89953160  
 Weather Conditions: 11.0, 21:00, mostly cloudy, light air  
 Weather Comments:  
 Nets/Traps: Set 1: A=3h x 12m Set 2: B=3h x 9m  
 Start Time: 21:00 End Time: 22:00

Site Description: (incl. dominant species and stream data)  
 brushy new growth forest w/ mowed paths and a large puddle, buck thorn, apple

Remarks: (observations, other wildlife, etc)  
 Cold-out  
 8:40 @ 22:00

Site Sketch (Label net sets to match "Nets/Traps" field above)  
  
 A  
 B  
 deciduous forest  
 grassy Rd.  
 puddle  
 N  
 Bat Detector

Bat Survey Data Form

Project: 2012-OWN-NY		Site #: 23		Date: 6-4-12								
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Night: 1	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13	Ne											
14	Pa											
15	ts											
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												

**Bat Survey Data Form**

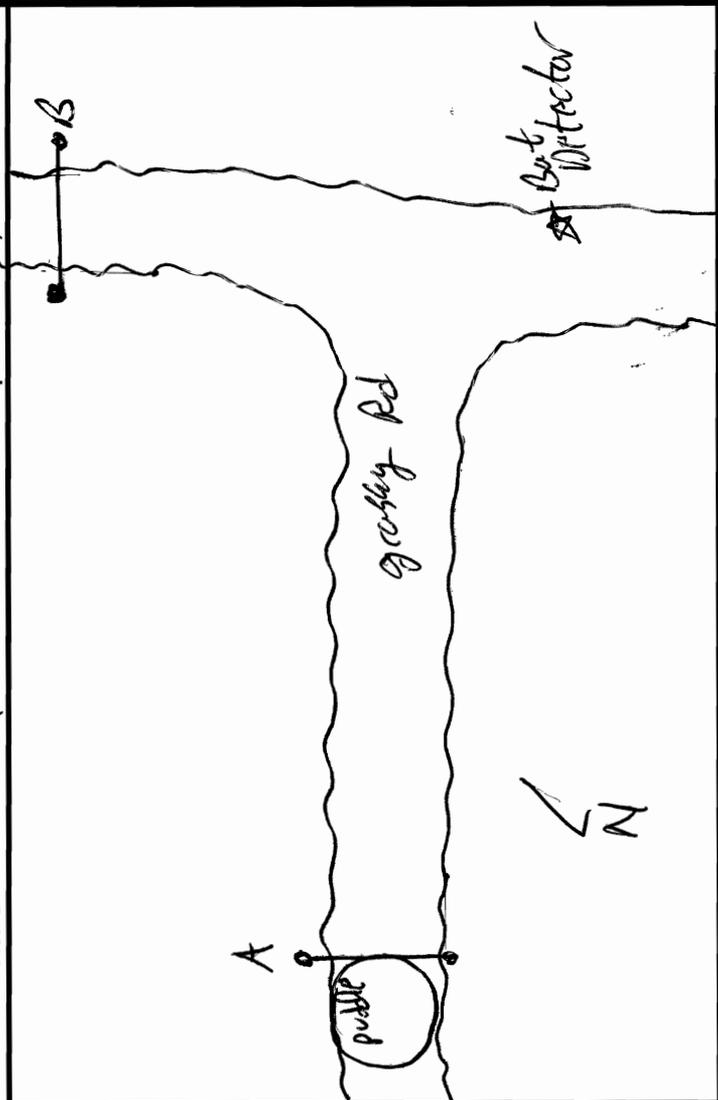
Date: 6-5-12		Project: 2012-OWN-NY	
Site Name:		County, State: Lewis, NY	
Site #: 23		Night: 2	
Bat ID by: M Hepkins		Other surveyors: N Bai Kawi	
Lat/UTM: 43:29915320°		Quad: Copenhagen	
Weather Conditions: 21:00, 11.9, cloudy, light air		Datum: 2005-84	
Weather Comments:		End: time (military), °C, sky, and wind	
Nets/Traps:		Start Time: 21:00	
End Time: 2:00			

Mid-sample: time (military), °C, sky, and wind  
 23:30, 10.2, partly cloudy, light air

Set 1: A=3h x 12m Set 2: B=3h x 9m

Site Description: (incl. dominant species and stream data)  
 Bushy new growth forest w/ mowed paths and a large puddle. Buck thorn, Apple

(Label with size and configuration)

Remarks: (observations, other wildlife, etc)	Site Sketch (Label net sets to match "Nets/Traps" field above)
	

Bat Survey Data Form

Project: 2012-OWN-NY		Site #: 23		Night: 2		Date: 6-5-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8	Ne										
9											
10	Bats										
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

Bat Survey Data Form

Date: 2012-06-17 Project: 2012-OWN-NY

Site Name: Site #: 23 Night: 3 County, State: Lewis, NY

Bat ID by: M Hepkins Other surveyors: N. Baikowski Quad: Copenhagen

Lat/UTM: 43, 895325 Long/UTM: 25, 6360340 Datum: WGS-84

Weather Conditions: 21:00, 10.8, partly cloudy, light air  
 Mid-sample: time (military), °C, sky, and wind  
 21:00, 10.4, cloudy, light air  
 End: time (military), °C, sky, and wind  
 21:00, 10.3, cloudy, light air

Weather Comments: Start Time: 21:00 End Time: 21:00

Nets/Traps: Set 1: A=3h x 12m Set 2: B=3h x 9m

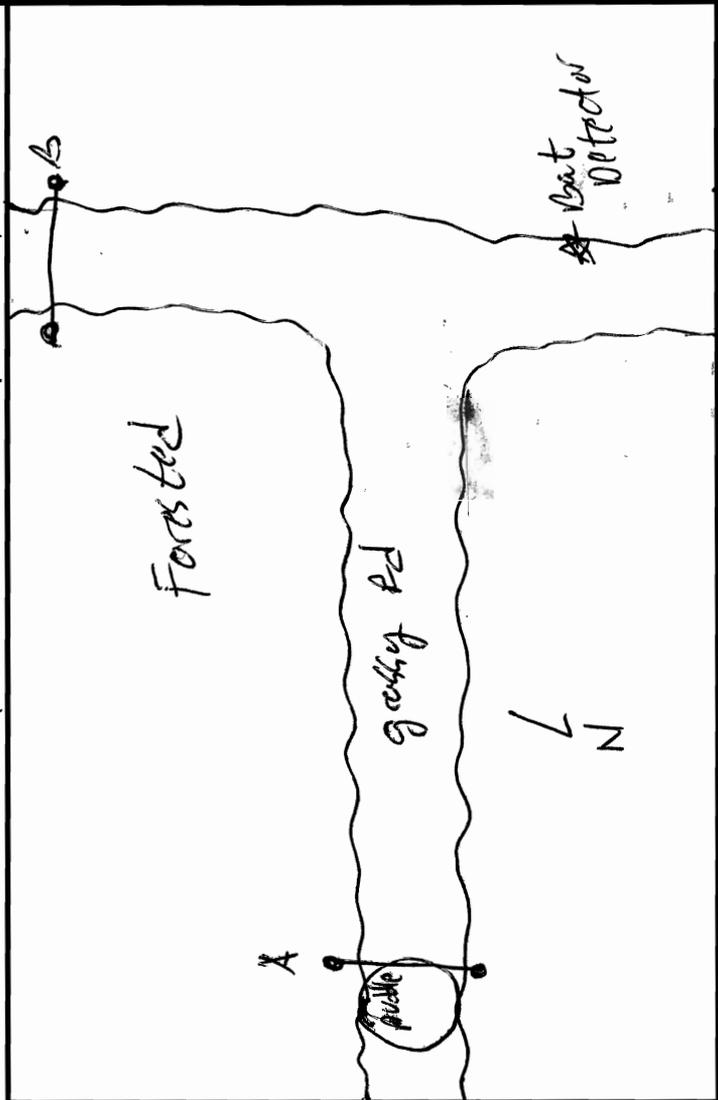
(Label with size and configuration)

Site Description: (incl. dominant species and stream data)  
 Brushy new growth forest w/ mowed paths and a large puddle. Buck thorn, Apple

Remarks: (observations, other wildlife, etc)

Site Sketch

(Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Project: 2012-DCUN-NY

Site #: 23

Night: 3

Date: 6-6-12

Comments

Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
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11											
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20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 6-4-12	Project: 2012-OWN-NY
Site Name:	Site #: 24
Night: 1	County, State: Lewis, NY
Bat ID by: M. Hopkins	Other surveyors: A. Koziol, J. Albertson
Lat/UTM: 43.895640	Quad: Copenhagen
Long/UTM: 75.638910	Datum: WGS-84
Weather Conditions: 21.00, 11.0, mostly cloudy, light air	End: time (military), °C, sky, and wind
Weather Comments:	Start Time: 21:00
Nets/Traps: Set 1: A = 3h x 12m Set 2: B = 3h x 9m	End Time: 22:00
(Label with size and configuration)	
Site Description: (incl. dominant species and stream data) Deciduous forest with a grassy road corridor adjacent to a hay field. Maple, Honey Suckle, Oak	
Remarks: (observations, other wildlife, etc) Cold - Oct 8.40 @ 22:00	
Site Sketch (Label net sets to match "Nets/Traps" field above) 	

Bat Survey Data Form

Project: 2012-02W-NY		Site #: 24		Night: 1		Date: 6-4-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11	NE										
12											
13	Bats										
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 6-5-12		Project: 2012-OWN-NY	
Site Name:		Site #: 24	Night: 2
Bat ID by: M Hopkins		County, State: Lewis NY	
Other surveyors: D. Kozol, J. Albertson		Quad: Caperhagen	
Lat/UTM: 43.29566°		Datum: WGS-84	
Weather Conditions: 21:00, 11.9, partly cloudy, light air		End: time (military), °C, sky, and wind: 2:00, 10.5, cloudy, light air	
Weather Comments:		Start Time: 21:00 End Time: 2:00	
Nets/Traps: Set 1: A = 3h x 12m Set 2: B = 3h x 9m			
Site Description: (incl. dominant species and stream data) Deciduous forest w/ a grassy road corridor adjacent to a hay field. Maple, Honey Suckle, Oak			
Remarks: (observations, other wildlife, etc)			
<p>Site Sketch (Label net sets to match "Nets/Traps" field above)</p>			

Bat Survey Data Form

Project: <u>2012 - OWN - NY</u>		Site #: <u>24</u>		Night: <u>2</u>		Date: <u>6-5-12</u>					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9	<u>NO</u>										
10											
11	<u>Bats</u>										
12											
13											
14											
15											
16											
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18											
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21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 6-6-12		Project: 2012-OWN-NY	
Site #: 241		County, State: Lewis, NY	
Night: 3		Quad: copenhagen	
Other surveyors: D. Koziol		Datum: NAD83-84	
J. Albracht		End: time (military): °C, sky, and wind	
Long/UTM: 75 638920		2:00, 10.3, cloudy, 1.8kt	
Mid-sample: time (military): °C, sky, and wind		Start Time: 21:00	
21:00, 10.4, partly cloudy, 1.8kt		End Time: 2:00	
Weather Comments:			

Nets/Traps: Set 1: A=2x12m Set 2: B=3x9m

Site Description: (incl. dominant species and stream data)  
 Deciduous forest w/ a grassy road corridor adjacent to a hay field. maple, Honey Suckle, Oak,

Remarks: (observations, other wildlife, etc)

Site Sketch (Label net sets to match "Nets/Traps" field above)

Bat Survey Data Form

Project: 2012-OWN - NY		Site #: 24		Night: 3		Date: 6-6-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6	No										
7	Bats										
8											
9											
10											
11											
12											
13											
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15											
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18											
19											
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21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 5-31-12		Project: 2012-OWN-NY	
Site #: 25		Night: /	
Site Name:		County, State: Lewis, NY	
Bat ID by: M Hopkins		Quad: Copenhagen	
Other surveyors: D Rozdil		Datum: WGS-84	
Lat/UTM: 43, 8271784°		End: time (military), °C, sky, and wind	
Weather Conditions: 20:55, 11.5, partly cloudy, night air		Start Time: 20:55	
Weather Comments: Cold out @ 20:00		End Time: 22:10	
Nets/Traps: Set 1: A = 3x18m Set 2: B = 1h x 18m C = 1h x 18m D = 1h x 12m			

(Label with size and configuration)

Site Description:  
(incl. dominant species and stream data)

Large linear pond w/ deciduous forest on one side and mowed grass w/ trees on the other. Maple, Oak, Birch

Remarks:

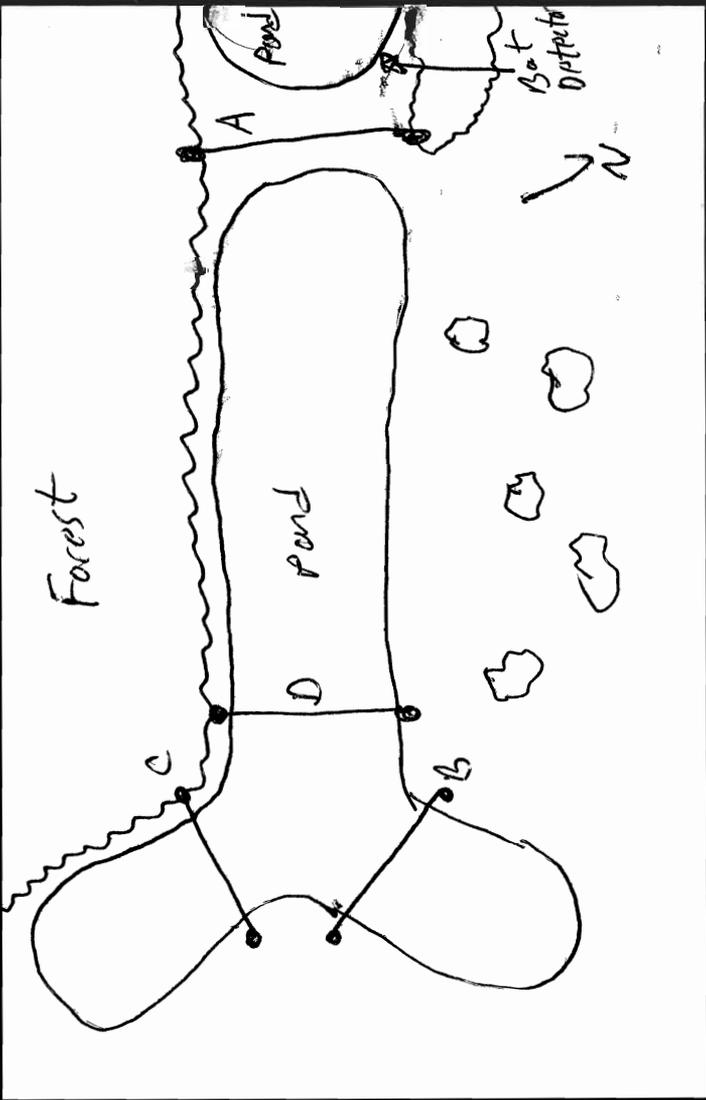
(observations, other wildlife, etc)

Cold out

TEMP = 9.3° @ 22:10

Site Sketch

(Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Project: 2012 - OJVN - NY		Site #: 25		Night: 1		Date: 5-31-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 6-1-12 Project: 2012-OWN-NY

Site Name: Site #: 25 Night: 2

County, State: Lewis, NY

Other surveyors: D Koziol Quad: Copenhagen

Lat/UTM: 43, 877, 7840 Long/UTM: 75, 632, 56430 Datum: WGS-84

Weather Conditions: 21:00, 14.4, Rain, Windy

Weather Comments:

Nets/Traps: Set 1: A = 3h x 18m Set 2: B = 1h x 18m, C = 1h x 18m, D = 1h x 18m

(Label with size and configuration)

Site Description: Large linear pond w/ Deciduous forest on one side and

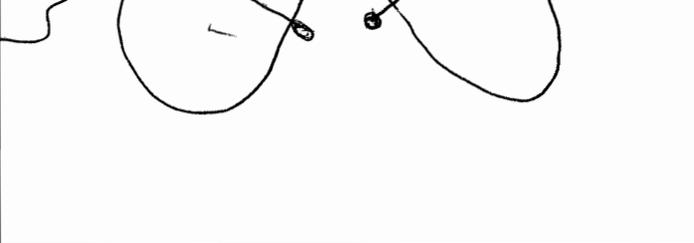
(incl. dominant species and stream data) mowed grass w/ trees on the other, Maple, Oak, Birch

Remarks: (observations, other wildlife, etc)

wind out / Rain out

@ 22:00

Site Sketch (Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Project: 2012-06-20 - NY		Site #: 25		Night: 2		Date: 6-1-12					
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9	NO										
10											
11	1500										
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 6-2-12		Project: 2012-OWN-NY	
Site Name:		Site #: 25	County, State: Lewis, NY
Bat ID by: M Hopkins		Other surveyors: D Kozio1	
Lat/UTM: 43, 877, 17840		Quad: Copenhagen	
Weather Conditions: 21:00, 10.6, partly cloudy, light air		Datum: WGS-84	
Weather Comments:		End: time (military), °C, sky, and wind 2:00, 10.1, clear, 1.8kt air	
Nets/Traps: Set 1: A = 3h x 18m Set 2: B = 1h x 18m, C = 1h x 18m, D = 1h x 12m		Start Time: 21:00 End Time: 2:00	

Label with size and configuration)

Site Description: (incl. dominant species and stream data)  
 large pond w/ deciduous forest on one side and mowed grass w/ trees on the other. Maple, Oak, Birch

Remarks: (observations, other wildlife, etc)

Site Sketch (Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Date: 6-3-12 Project: 2012-06W-NY

Site Name: Site #: 25 Night: 4 County, State: Lewis, NY

Bat ID by: M Hepkins Other surveyors: D. Roziol Quad: Copenhagen

Lat/UTM: 43° 8' 77.1784° Long/UTM: 75,632,5643° Datum: WGS 84

Weather Conditions: 21:00, 11.0, partly cloudy, light air; 23:30, 10.1, cloudy, light air

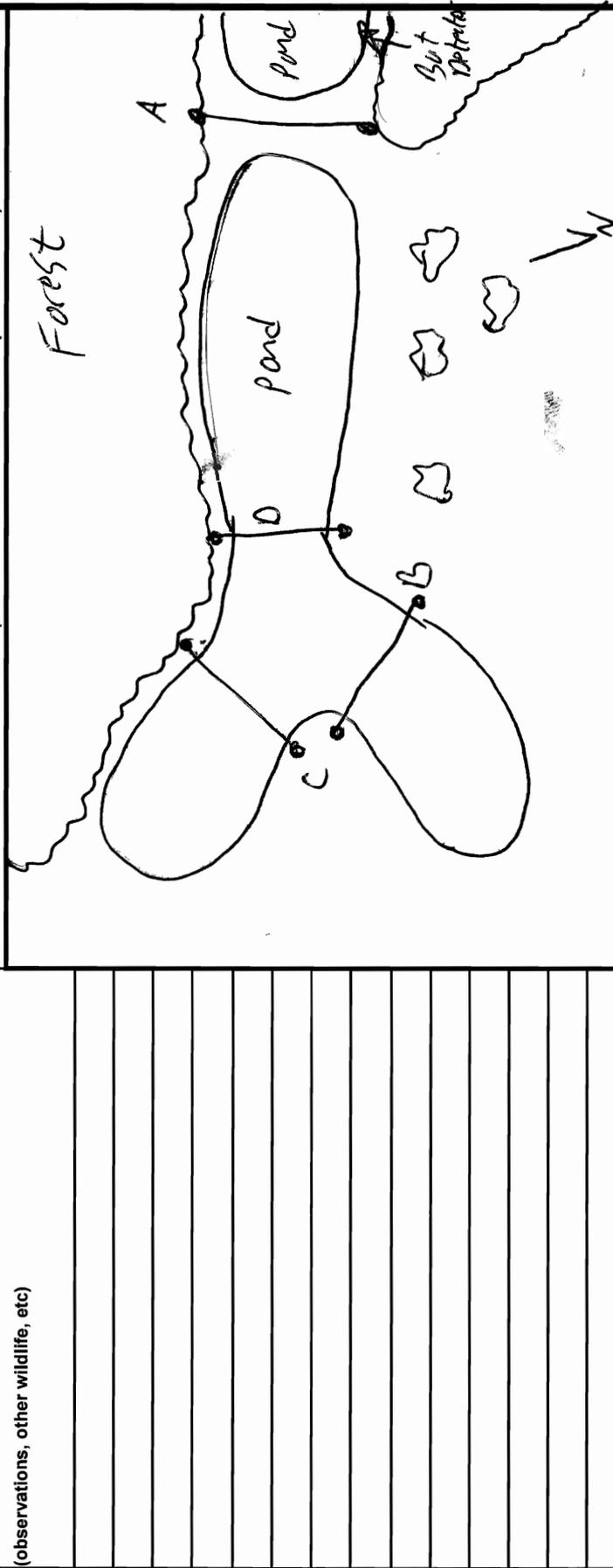
Weather Comments: End time (military), °C, sky, and wind

Nets/Traps: Spt 1: A=3h x 18m Spt 2: B=1h x 18m, C=1h x 12m, D=1h x 12m

(Label with size and configuration)

Site Description: (incl. dominant species and stream data)  
 Large pond w/ deciduous forest on one side and mowed grass w/ trees on the other. maple, oak, birch

Remarks: (Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Project: 2012 OVN NY		Site #: 25	Night: 4	Date: 06-03-2012							
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
21:25	1 Big Brown	A	M	NR	15.3	42	10	A	0	—	—
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 5-27-12 Project: 2012-awn-ny

Site Name: Site #: 26 Night: 1 County, State: Lewis, NY

Bat ID by: M Hepkings Other surveyors: N Bankowski Quad: Carthage

Lat/UTM: 43,88161500 Long/UTM: 5,60197160 Datum: WGS 84

Weather Conditions: 2:00, 16.7, partly cloudy, light air 11:40, 15.1, mostly cloudy, light air 2:00, 13.1, partly cloudy, light air

Weather Comments: Start Time: 2:00 End Time: 2:00

Nets/Traps: Set 1: A = 3h x 12m Set 2: B = 3h x 9m

(Label with size and configuration)

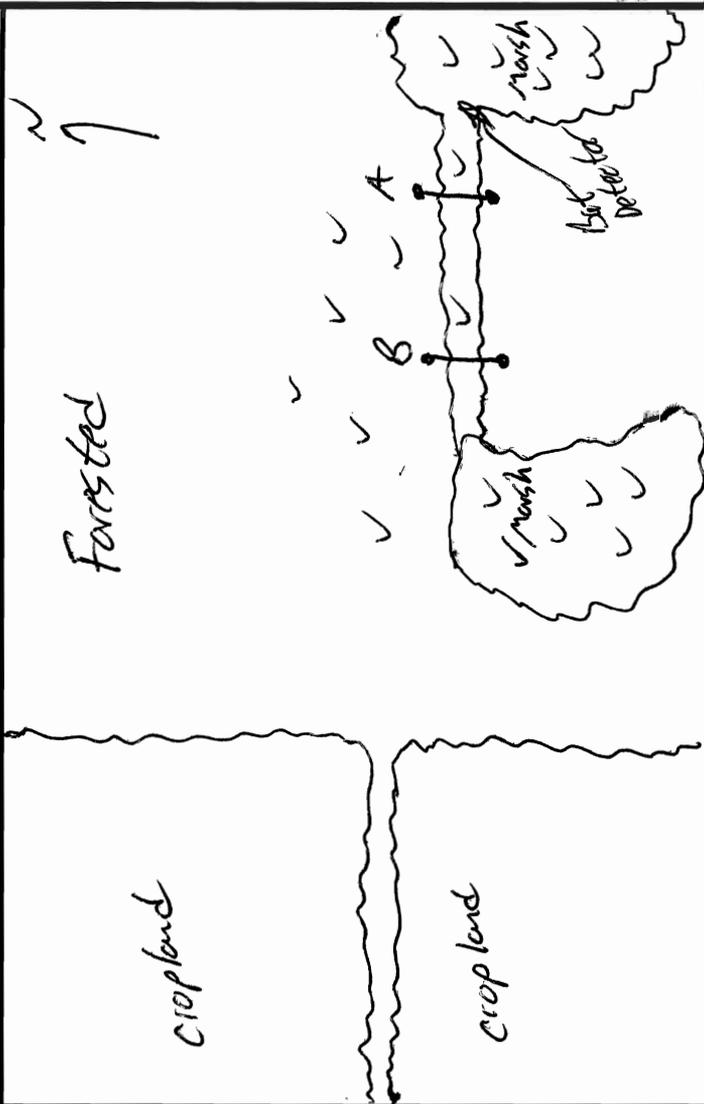
Site Description: (incl. dominant species and stream data)  
 Mixed forested corridor between two marshes near cropland  
 Maple, Hemlock, walnut, aspen

**Remarks:**

(observations, other wildlife, etc)

**Site Sketch**

(Label net sets to match "Nets/Traps" field above)



Bat Survey Data Form

Project: 2012 - OWM - NY			Site #: 26			Night: 1		Date: 5-27-12			
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											No Bats
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

**Bat Survey Data Form**

Date: 5-28-12 Project: 2012.OWN.NY

Site Name: Site #: 26 Night: 2 County, State: Lewis, NY

Bat ID by: M Hepkins Other surveyors: N. Bairkawi Quad: Carthage

Lat/UTM: 43, 88161500 Long/UTM: 75, 60197160 Datum: NGS 84

Weather Conditions: 20:55, 22.4, Hazy, light air Mid-sample: time (military), °C, sky, and wind 0000, 20.2, cloudy, light air End: time (military), °C, sky, and wind 2:00, 23.4, cloudy, breezy

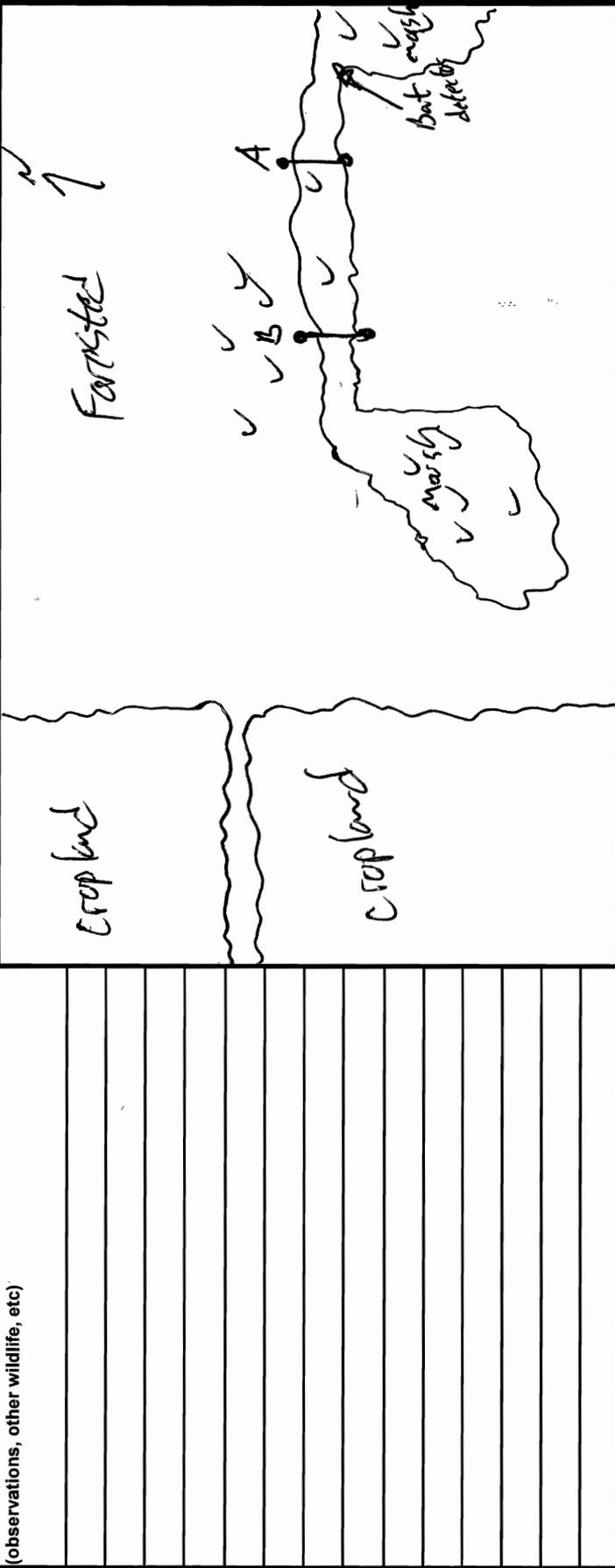
Weather Comments: Start Time: 20:55 End Time: 2:00

Nets/Traps: SET 1: A = 3h x 12m set 2: B = 3h x 9m

(Label with size and configuration)

Site Description: (incl. dominant species and stream data)  
 mixed forested corridor between two marshes near croplands.  
 Maple + Hemlock, walnut, aspen

Remarks: (observations, other wildlife, etc)



Bat Survey Data Form

Project: 2012 - OUN - NY Site #: 26 Night: 2 Date: 5-28-12

Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments
1											
2											
3											
4											
5	NO										
6	BATS										
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

Bat Survey Data Form

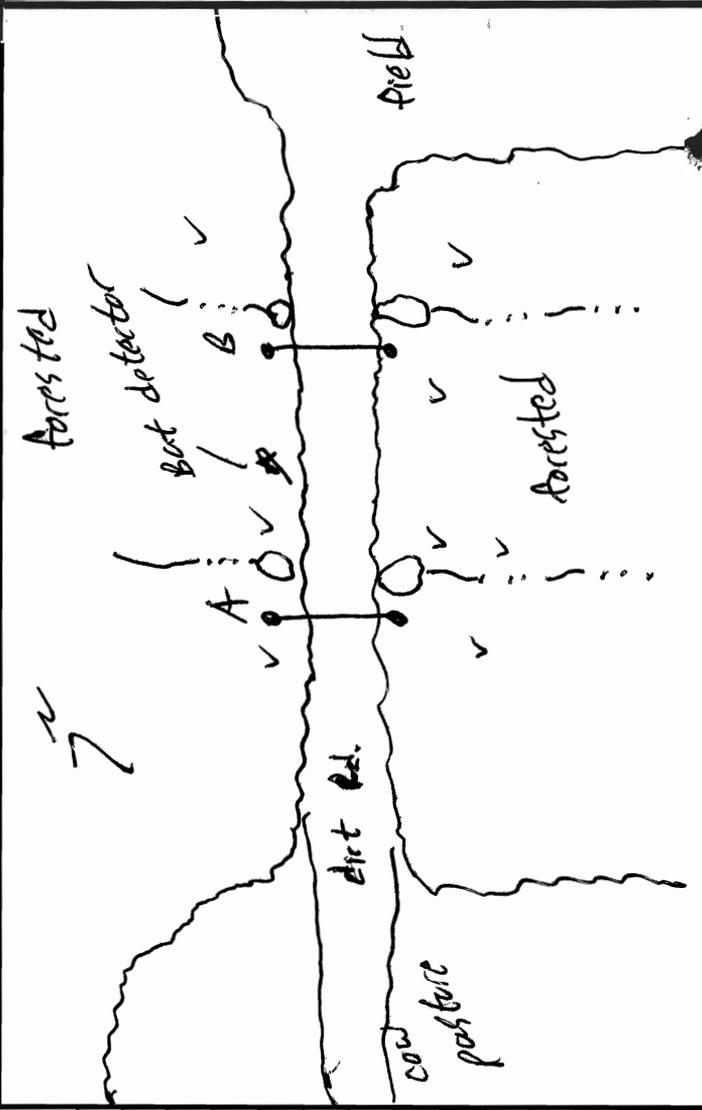
Date: 5-29-12 Project: 2012-OWN-NY

Site Name: Site #: 27 Night: 1 County, State: Lewis, NY  
 Bat ID by: M Hopkins Other surveyors: J Albertson Quad: Carthage  
 Lat/UTM: 43, 89121730 Long/UTM: 75, 60998779 Datum: WGS 84  
 Weather Conditions: 20:55 19.0, cloudy, light breeze 1:55 14.4, partly cloudy, light breeze  
 End: time (military), °C, sky, and wind  
 Start Time: 20:55 End Time: 1:55

Weather Comments:  
 Nets/Traps set 1: A = 18m x 3h set 2: B = 9m x 3h

Site Description: (Incl. dominant species and stream data)  
 mixed forested med dirt road between 2 cow pastures w/ marshes. Hawthorn, hickory, maple

Remarks: (observations, other wildlife, etc)





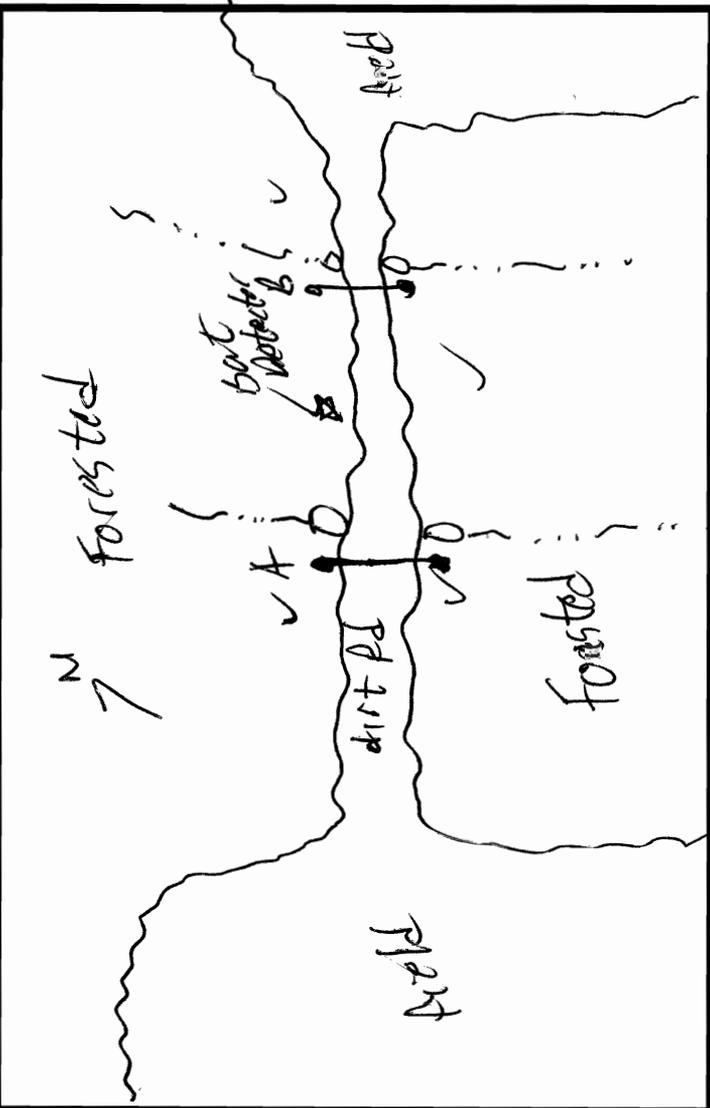
**Bat Survey Data Form**

Date: ~~5-30-12~~ 5-30-12 Project: 2012-2012-NY  
 Site #: 27 Night: 2  
 County, State: Lewis NY  
 Bat ID by: M Hopkins Other surveyors: J Albertson Quad: Carthage  
 Lat/UTM: 43, 89121730 Long/UTM: 75, 60998770 Datum: WGS 84  
 Weather Conditions: 21:00, 14.3, mostly cloudy, breeze, 1's bat activity, 11:00 bat activity, 11:00 bat activity, 11:00 bat activity  
 End: time (military), °C, sky, and wind: 2:00, 10.7, partly cloudy, 11:00 bat activity  
 Start Time: 2:00 End Time: 2:00

Weather Comments: Set 1: A = 8m x 3h Set 2: B = 9m x 3h  
 Nets/Traps

Site Description: (incl. dominant species and stream data)  
 Mixed forested lined dirt road between 2 cow pastures w/ patches. Hawthorn, hemlock, maple

Remarks: (observations, other wildlife, etc)



Bat Survey Data Form

Project:		2012-DUN-NY		Site #:	27		Night:	2		Date:	5-30-12		Band	Comments
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band	Comments			
1	NO BATS													
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														

**Bat Survey Data Form**

Date: 5-27-12 Project: 2012-022N-NY  
 Site #: 28 Night: 1  
 County, State: Lewis, NY  
 Site Name: M Heekin's  
 Other surveyors: J Albertson, P Koziol  
 Quad: Carthage  
 Lat/UTM: 43, 886, 4529 Datum: 1985 84  
 Weather Conditions: 21:00, 16.7, partly cloudy, light air  
 End: time (military), °C, sky, and wind: 2:00, 13.1, cloudy, light air  
 Weather Comments: Start Time: 21:00 End Time: 2:00

Nets/Traps: Set 1: 9m x 3h Set 2: 6 = 12m x 2h  
 (Label with size and configuration)

Site Description: Mixed forested tractor path w/ cropland around.  
 (incl. dominant species and stream data)  
 Aspen, Maple, Horn lock

**Remarks:** (observations, other wildlife, etc)

Site Sketch (Label net sets to match "Nets/Traps" field above)

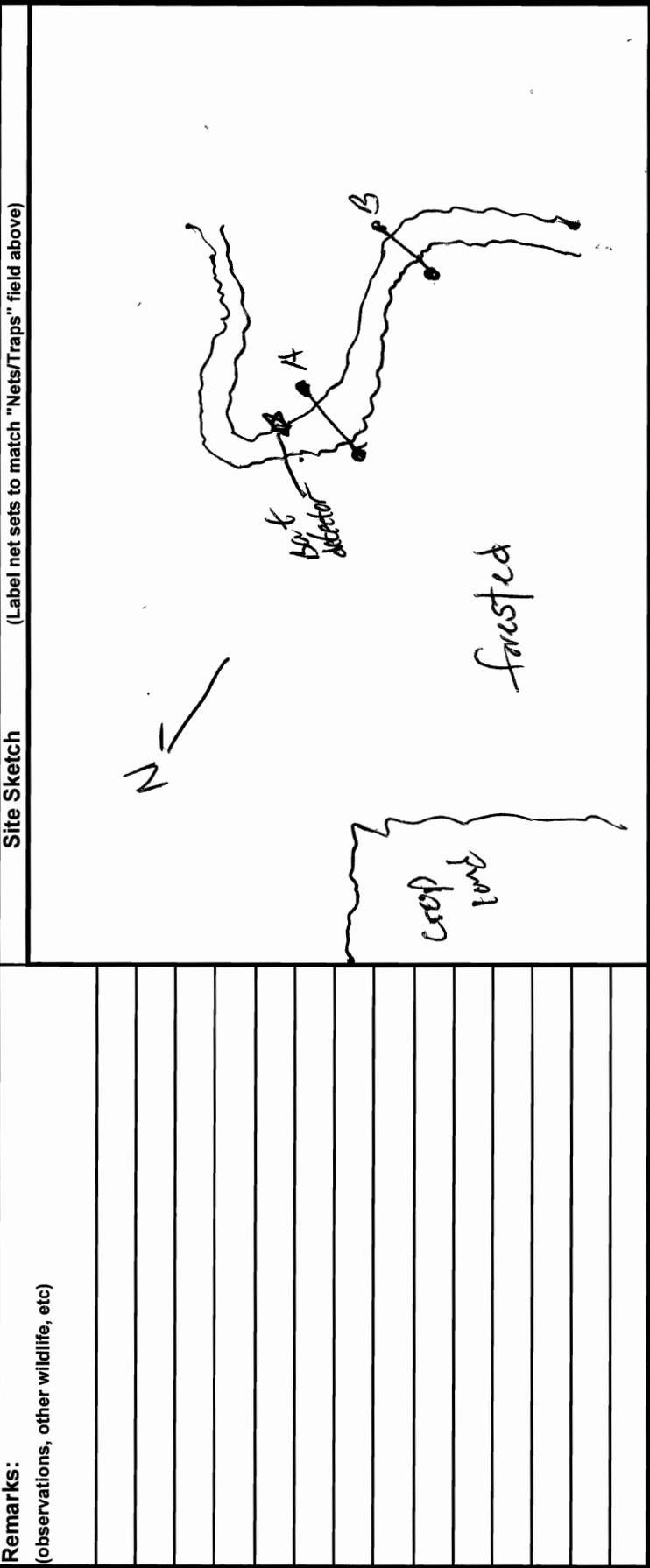


**Bat Survey Data Form**

Date: 5-28-12		Project: 2012-022 - 022 - NY	
Site Name:		County, State: Lewis, NY	
Site #: 28		Night: 2	
Other surveyors: J Albratson, D Korzoc		Quad: Carthage	
Lat/UTM: 43 88645 290		Datum: NAD 83	
Weather Conditions: 20:55, 22.4, Hazy, light breeze		End: time (military), °C, sky, and wind	
Weather Comments:		2:00, 23.4, cloudy, breezy	
Nets/Traps: Set 1: A=9m x 3h Set 2: B=12m x 2h		Start Time: 20:55 End Time: 1:55	

Site Description: mixed forested tractor path w/ cropland around, Aspen, Maple, Hemlock

Remarks: (observations, other wildlife, etc)



Bat Survey Data Form

Project:	2012-OLW-NY			Site #:	28		Night:	2		Date:	5-28-12		Comments
Time (Military)	Species (Common Name)	Age (A, J)	Sex (M, F)	Reproductive Condition (NR, SCR, PG, L, PL)	Weight (g)	Forearm Length (mm)	Height in Net (ft)	Net	Wing Damage Index	Band			
1													
2													
3													
4	NO BATS												
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													

**Appendix D: Indiana Bat Mist Netting Guidelines; Appendix 5 of the  
USFWS Indiana Bat (*Myotis sodalis*) Revised Recovery Plan: March 1999**



## APPENDIX II

## MIST NETTING GUIDELINES

## 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. However, there have been instances in which additional effort was necessary to detect the presence of the species.

## NETTING SEASON

May 15—August 15

These dates define acceptable limits for documenting the presence of summer populations of Indiana bats, especially maternity colonies. Several captures, including adult females and young of the year, indicate that a nursery colony is active in the area. Outside these dates, even when Indiana bats are caught, data should be carefully interpreted: If only a single bat is captured, it may be a transient or migratory individual.

## EQUIPMENT

Mist nets - Use 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. Mesh of approximately  $1 \frac{1}{2} \frac{1}{4}$  -  $1 \frac{3}{4}$  in (~38 mm)

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

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 seven meters 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.)

## APPENDIX II (CONT.)

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.

## RECOMMENDED NET SITE SPACING:

Stream corridors—one net site per km of stream.

Non-corridor land tracts—two net sites per square km of forested habitat.

## MINIMUM LEVEL OF EFFORT

Netting at each site should consist of:

At least three net nights (unless bats are caught sooner) (one net set up for one night = one net night)

A minimum of two net locations at each site (at least 30 m apart, especially in linear habitat such as a stream corridor)

A minimum of two nights of netting

Sample Period: begin at sunset; net for at least 5 hr

Each net should be checked approximately every 20 min

No disturbance near the nets, other than to check nets and remove bats

## WEATHER 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:

Precipitation

Temperatures below 10°C

Strong winds (Use good judgment: moving nets are more likely to be detected by bats.)

## MOONLIGHT

There is some evidence that small myotine bats avoid brightly lit areas, perhaps as predator avoidance. It is typically best to set nets under the canopy where they are out of the moon light, particularly when the moon is 1/2-full or greater.