Datum WIA-D&3 Observers B. Renley C. Bloyd R. McGrey PERHEAD Wax / Wane No. Bats 15:02 Set F p. 2 Wind P.O. Box 73, Paint Lick, KY, 40461. (859) 925-9012 25:40 Moderate breeze: 11-16 mph Heavy rain - thunder storm Beaufort Wind Scale 20:54 Gentle breeze: 7-10 mph Light breeze: 4-6 mph Sky Code Drizzle or light rain Cloudy or overcast Rise 001 % Sky Light air: 1-3 mph 0 Calm: <1 mph Partly Cloudy Fog or smoke Few Clouds Temp (F) 63 7 Please Return to: 13 0 Clear 21-14-1 Moon Phase 000 000 00 000 Time 0 7 3 3 2 4 4 9 0 3 Moon -Sun 450 Date Band# Stop time Stop time Stop time G/H/B/T cant stours Time Up 205 | Time Down WDI 0 Start time Start time Start time Height (m) Zone Em c 6500 SYOVE Net Coordinates OH Time Up (W/N - 82, 935.82 FA (mm) Date Date Date 10 2 Mass (g) 0.3 Near Unit # Repr. NR Project No./Name County Served State Lat/Lon) UTM: N/E 41.19 233 Sex L Age 4 Acoustic Survey: Unit type Species MYSE Mist Netting Data Form Site Location Mock Weatherproofing 06: Time Comments: 10 16 18 12 13 14 15 17 19 20 22 23 24 25 26 28 29 S 9 œ 6 27

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t/ Lon ;	Lat/Lon; UTM: N/E 4/	41.15341	State	W/N	-82	Time Up_	205	Zone	e Down	0/52 Datum WAD	0152 Datum_WFD 95	Observers	F. J.	Wetzef Boulm	0		HEAD
# Tin	Time Species	Age	Sex	Repr.	Mass (g)	FA (mm)	Net	Height (m)	MDI	C/H/B/T	Band# Type	Freq.	Moon Phase 100	% OO a		X	Wax / Wane
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oustic.	Acoustic Survey: Unit type	pe		Unit #		Date		Start time	e	1	Stop time	I					
						Date		Start time	e		Stop time_		Please Return to:	turn to:	7		
atherp	Weatherproofing					Date_ Coordinates		Start time	e	Ĭ	Stop time		P.O. Box 73, Page (859) 925-9012	P.O. Box 73, Paint Lick, KY, 40461. (859) 925-9012	ick, KY,	40461.	
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TOTAL (NEW ET 1971) TOTAL (NE									EF										ridors, esources are an 15" DBH	Ŝ	1
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Security Structure: (if hardwoods are absent of streets in the forms of sure forms of the sure in the forms of sure forms.) Structure: (if hardwoods are absent of the sure is some diversity in age of trees in it present but rare. Mal: Mature forest. Diverse age classe wat facilitate bat foraging. Sures: 1. Poor: Square kilometer surroginal: Trees present in the form of small: Area is largely forested. Wooden mal: Area is largely forested.		NAM	agram:	4				~	15	(3)	10	/	1	1	1	\		7	Roost 2. Mod 3. Opti 2. Mod openin 3. Opti availab Forest 1. Poor 2. Mod may be 3. Opti gaps th Land C 2. Marg 3. Opti		
State Diagram: A 5.2 A 1.534 W 1. A 1.	Lat/Lo	Datum:	Site Di		_	1	\	1	1	\	/	1		1	\	\			4-4 4 6	1	•

Site Diagram:	State OH Quad TALESAN Height Length Net (m) (m) A C. A D.	Sude		1	5			1
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VI			Forest	Ī				
THE PARTY OF THE P			Gap				1	
			Other					
	N A							
Indiana Bat Habitat Characterization (Choose appropriate score for each habitat characteristic)	propriate score for each habitat	characteristic)						
Roost habitat: 1. Poor: No or few snags >= 5" DBH with sloughing bark or other usable roost features (cracks, crevices, etc) 2. Moderate: Snags with sloughing bark or other roost features present 5-15 inch DBH within 1000 feet of forested areas. 3. Optimal: Snags with sloughing bark or other roost features present >15 inch DBH within 1000 feet of forested areas.	" DBH with sloughing bark or other rer roost features present 5-15 inch I r roost features present >15 inch DE	r usable roost fea DBH within 1000 BH within 1000 fa	tures (cracks, c feet of forested set of forested	revices, etc d areas. areas.	6			
2. Moderate: Ephemeral or intermittent streams or ponded areas present but too cluttered to allow many bats to drink easily or simultaneously. No corridors, openings or canopy gaps allow bats easy access to the resource. 3. Optimal: Streams or ponds (including road ruts) present that appear to offer drinking resource throughout the majority of the summer. Flyways to resources are	ness not present at the site. Is or ponded areas present but too c Is to the resource. Tuts) present that appear to offer dri	cluttered to allow inking resource t	many bats to hroughout the	drink easily e majority o	y or simult f the sumr	aneously ner. Fly	y. No cor ways to r	ridors, esources
available.								
 Forest Structure: (if hardwoods are absent or nearly absent or if stand is monoculture, area automatically qualifies as a 1: poor). Poor: Habitat even aged and young. Trees smaller than 5 inch DBH. Understory growth cluttered and restricts flying/foraging Moderate: some diversity in age of trees in the stand. Trees 5 to 15 inches present. Understory clutter dominant but not ubiquitous. Trees greater than 15" DBH 	nearly absent or if stand is monocul smaller than 5 inch DBH. Understor the stand. Trees 5 to 15 inches prese	ulture, area autom ry growth clutter ent. Understory	natically qualified and restrict	ies as a 1: p ts flying/fo int but not i	oor). raging ıbiquitous	. Trees	greater th	an 15" DI
may be present but rare.	Of the contract of the Contrac	BH Goodson Va	sind and soin	the and hear	Alle allem	6.0		
3. Optimat, manuscribest, Diverse age classes of nees present, trees / 13 men Data frequent. Varying nee neight and neeralis anow for frequent small openings and gaps that facilitate bat foraging.	of trees present. Trees < 15 men D.	on nequent, va	rying uee neig	gir and tree	ralls allow	реп тог	uent sma	n opening
 Land Cover. 1. Poor. Square kilometer surrounding site predominantly un-forested. Few mature trees present not connected to other areas of trees. Marginal: Trees present in the form of small woodlots and wooded fence rows. Little connection to adjacent forested areas. Optimal: Area is largely forested. Wooded stands are connected to other wooded stands via wooded stream, fence row, or other wooded corridor. 	unding site predominantly un-forest I woodlots and wooded fence rows. stands are connected to other wood	ted. Few mature. Little connectic ded stands via we	trees present in the adjacent fooded stream,	not connect forested are fence row,	ed to othe as. or other w	r areas o	f trees.	
Total Habitat Score (Should be between 4 & 12)			Please refurn for	ę,			*	6
			r rease return	10.				Ŝ
Comments:			P.O. Box 73, Paint Lick, KY. 40461	Paint Lick, 1	KY, 40461		1000	1
							100	RKHEA

Way / Wane 5000 No. Bats 200 Set 0 of Wind P.O. Box 73, Paint Lick, KY, 40461. Moderate breeze: 11-16 mph Heavy rain - thunder storm 0 Beaufort Wind Scale 0690 Gentle breeze: 7-10 mph 8091 Light breeze: 4-6 mph Sky Code Drizzle or light rain Cloudy or overcast Rise Light air: 1-3 mph Sky M Calm: <1 mph Partly Cloudy Fog or smoke Few Clouds Temp (F) % Please Return to: 80 Clear (859) 925-9012 9 Moon Phase 0000 2300 2300 00/0 0000 Time 0010 3 4 in 9 0 m Moon Sun Observers (Freq. (MYAU); Myotis grisescens (MYGR); Myotis leibii (MYLE); Myotis lucifugus (MYLU); Myotis septentrionalis (MYSE); Myotis sodalis Species Abbreviations: Corynorhinus rafinesquii (CORA); Corynorhinus t. virginianus (COVI); Eptesicus fuscus (EPFU); Lasiurus borealis (LABO); Lasiurus cinereus (LACI); Lasiurus seminolus (LASE); Lasionycteris noctivagans (LANO); Myotis austroriparius Datum AIAP 83 Band# Type W/N 82. 90344 G/H/B/T MDI (MYSO); Nycticeius humeralis (NYHU); Perimyotis subflavus (PESU); Tadarida brasiliensis (TABR) Height (m) 1-marsa Net FA (mm) 0 Project No./Name 1/2.0/ Mass (8) Repr. dN State Sex EAT/LOD; UTM: N/E 11. 18368 Age b woodlot Species LAPO FOFU EPEN 480 Mist Netting Data Form Seneca 50% Site Location 2000 Time 212 County Site No. 13 15 18 10 11 12 14 16 17 19 20 21 22 23 25 26 28 29 4 S 9 6 ∞ 27

p. 1

Other Abbreviations: Male: M; Female: F; Pregnant: P; Lactating: L; Post Lactating: PL; Scrotal: S; Non Repro: NR

County	Sen	0/2	154	1														
at/ Le	Lat/Lon; UTM: N/E	11.	8368	State	68-N/M	- 2	Time Up 205	2050	Zone	Time Down	Datum Col	8008	Observers	770	Hich.		y	4
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30				1	-	1								4	Moderate	Moderate breeze: 11-16 mph	16 mph	
cons	tic Surve	Acoustic Survey: Unit type.		1	Unit #]	Date	S	Start time	N		Stop time						
						٦	Date	S	Start time		3,	Stop time		Please Return to:	turn to:	k		
Veath	Weatherproofing	ă			/		Coordinates		Start time		, 	Stop time_		P.O. Box 73, P. (859) 925-9012	P.O. Box 73, Paint Lick, KY, 40461. (859) 925-9012	Lick, KY,	40461.	
Commento				1	1									1				

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4	Dominant Vegetation	+ 15	9		Net Set by Habitat	O				X			_			
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Lat/Low; UTM: N/E 11/836 Datum: MAD 83 County	Site Diagram:				1	1 west	Sold									

0432 COPPERHEAD Wax / Wane No. Bats 2053 Set 00 0 p. 2 Wind Moderate breeze: 11-16 mph P.O. Box 73, Paint Lick, KY, 40461 Heavy rain - thunder storm Beaufort Wind Scale Gentle breeze: 7-10 mph Light breeze: 4-6 mph 062 Sky Code Drizzle or light rain 19/16 Cloudy or overcast Rise Light air: 1-3 mph Sky Calm: <1 mph Partly Cloudy Fog or smoke Few Clouds Temp (F) Please Return to: 75 Date 29-5-14-2015 Clear Moon Phase 95 (859) 925-9012 Datum NAD 83 Observers & Sound 0200 708 Time 0000 2100 0 in 4 9 0 3 Moon Sun Freq. Stop time Stop time Stop time Band# Type G/H/B/T Zone NA Datu WDI 0 Start time Start time Start time Height (m) 3 Time Up 2050 Net Coordinates 83.00H70 FA (mm) Date Date Date Mass (g) W/N Unit # Repr. NR 41. 15548 W/ Project No./Name Sex Age Acoustic Survey: Unit type woodlot Species CALB Mist Netting Data Form LPFU Lat/Lon; UTM: N/E Weatherproofing Site Location 50 0110 Time Comments: 10 14 15 25 13 16 19 20 18 22 28 6 11 12 17 21 23 24 5 9 œ 27 3 4

Seate Other Court Cour	Time Species Age Sea Rept. Graph Age Age Sea Rept. Graph Age	State OF Time Up 2045 Time Down Ti	Moon Phase	COPPER	2
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	cies Abbreviations: Corynorhinus affinesquii (CORA); Eptesicus fuscus (EPFU); Lasitruts affinesquii (CORA); Corynorhinus t. virginianus (COVI); Eptesicus fuscus (EPFU); Lasitruts entire crite-cres (LACI); Lasitruts entire-cres (LACI); Lasitruts entire-crea (LACI); Lasitruts e		6100 14	- 0	1
	cies Abbreviations: Corynorthius rafinesquii (CORA); Corynorthiuus t. virginianus (COVI); Eptesicus fuscus (EPFU); Lasiurus seliis (LABO); Lasiurus seminolus (LASPI; Lasiurus seminolu	14 15 16 17 18 19 20 21 22 23 24			
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	cies Abbreviations: Corynorthinus rafinesquii (CORA); Corynorthinus t. virginianus (COVI); Eptesicus (EPFU); Lasiurus seminolus (LASB: Lasiorus cinered (LACI): Lasiurus cinered (LACI): Lasiurus seminolus (LASB: Lasiorus cinered (LACI): Lasiurus cinered (LACI): La	22 23 24	i	moke	
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0 0 1 1 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	cies Abbreviations: Corynorthinus rafinesquii (CORA); Corynorthinus t. virginianus (COVI); Eptesicus fuscus (EPFU); Lasiurus aalis (LABO); Lasiurus cinered (LACI): Lasiurus seminolus (LASE): Lasionvoteris nortivaoans (LANO). Mootis austrovinasius				
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	cies Abbreviations: Corynorhinus rafinesquii (CORA); Corynorhinus t. virginianus (COVI); Eptesicus fuscus (EPFU); Lasiurus Please Reh	27		r: 1-3 mph	
3	cies Abbreviations: Corynorhinus rafinesquii (CORA); Corynorhinus t. virginianus (COVI); Eptesicus fuscus (EPFU); Lasiurus Please Reh	78		eeze: 4-6 mph	
4	cies Abbreviations: Corynorhinus rafinesquii (CORA); Corynorhinus t. virginianus (COVI); Eptesicus fuscus (EPFU); Lasiurus ealis (LABO); Lasiurus cineres (LACI); Lasiurus seminolus (LASE): Lasionyoteris noctivaeans (LANO): Myoris austrorinarius	29		reeze: 7-10 mph	
		30		te breeze: 11-16 mph	

Other Abbreviations: Male: M; Female: F; Pregnant: P; Lactating: L; Post Lactating: PL; Scrotal: S; Non Repro: NR

p. 1



APPENDIX B

Mist-Net Site Photographs



Site 1 Net B

Site 1 Net A



Site 1 Net D



Site 1 Net C



Site 2 Net A



Site 2 Net C



Site 2 Net B



Site 2 Net D



Site 2 Net A



Site 2 Net C



Site 2 Net B



Site 2 Net D



Site 3 Net B

Site 3 Net A



Site 3 Net D



Site 3 Net C



Site 4 Net A



Site 4 Net C



Site 4 Net B



Site 4 Net D



Site 5 Net B



Site 5 Net D



Site 5 Net C



Site 6 Net B





Site 6 Net C



Site 6 Net B







Site 6 Net C



Site 7 Net B

Site 7 Net A



Site 7 Net D



Site 7 Net C



Site 7 Net E





Site 8 Net B



Site 8 Net A



Site 8 Net C



Site 8 Net E



Site 9 Net B



Site 9 Net D



Site 9 Net C



Site 10 Net B



Site 10 Net D



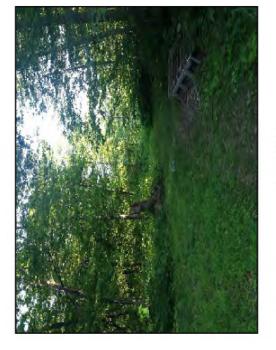
Site 10 Net C



Site 11 Net A



Site 11 Net C



Site 11 Net B



Site 11 Net D



Site 12 Net A



Site 12 Net C



Site 12 Net B



Site 12 Net D



Site 12 Net E

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in

Case No(s). 17-2295-EL-BGN

Summary: Application Exhibit R Part 8 of 11 electronically filed by Teresa Orahood on behalf of Dylan F. Borchers