Post-construction Monitoring Study Sugar Creek Wind Project Logan County, Illinois

Final Report April 1 – October 15, 2023



Prepared for:

Sugar Creek Wind One LLC

465 State Route 10 Logan County, Illinois 62671

Prepared by:

Michelle Ritzert, Simon Weller, and Ashley Hedrick

Western EcoSystems Technology, Inc. 150 Corporate Center Drive, Suite 106 Camp Hill, Pennsylvania 17011

February 27, 2024



STUDY PARTICIPANTS

Jason Ritzert Senior Biologist/Senior Manager Michelle Ritzert Project Manager/Report Writer

Simon Weller Statistician
Catherine Read Data Analyst

Jared Swenson Lead Client Analyst

Ashley Hedrick Field Coordinator/Report Compiler

Chazz Coleman **GIS** Technician Liz Hurkes QA/QC Technician Joshua Zalewski **Technical Editor Zachary Spicer** Field Technician Elizabeth Witts Field Technician Brady O'Connell Field Technician Ashlynn Ballard Field Technician Ceclia Sanchez Field Technician Sara Box Field Technician Field Technician Luna Boggs Elizabeth Nowak Field Technician Field Technician Wren Melonja

REPORT REFERENCE

Ritzert, M., S. Weller, and A. Hedrick. 2024. Post-construction Monitoring Study, Sugar Creek Wind Project, Logan County, Illinois. Final Report: April 1 – October 15, 2023. Prepared for Sugar Creek Wind One LLC, Logan County, Illinois. Prepared by Western EcoSystems Technology, Inc. (WEST), Camp Hill, Pennsylvania. February 27, 2024.

WEST i February 2023

TABLE OF CONTENTS

INTRODUCTION AND BACKGROUND	1
PROJECT LOCATION	1
METHODS	4
Standardized Carcass Searches	4
Number of Turbines Sampled, Search Frequency, and Plot Size	4
Search Methods	6
Data Collection	6
Carcass Identification and Agency Notification	7
Bias Trials	7
Searcher Efficiency Trials	7
Carcass Persistence Trials	8
Search Area Mapping	8
Quality Assurance and Quality Control	9
Statistical Analysis	9
Searcher Efficiency Estimation	9
Carcass Persistence Estimation	
Search Area Adjustment Estimate	10
Carcasses Excluded from Area Correction Calculations	
Overall Fatality Rate Estimation	10
Covered Species Take and Evidence of Absence Detection Probabilities	11
Assessment of Adaptive Management Triggers	11
RESULTS	12
Standardized Carcass Searches	12
Overall Carcasses Found	12
Species Composition	13
Bias Trials	13
Searcher Efficiency Trials	13
Carcass Persistence Trials	14
Search Area Adjustment	15
Overall Fatality Estimates	16
Covered Species Take Estimates and Probability of Detection (g)	16
Adaptive Management Triggers	17
CONCLUSION	17
REFERENCES	17

LIST OF TABLES

Table 1.	Seasonal curtailment ¹ regime at the Sugar Creek Wind Project, Logan County, Illinois
Table 2.	Assignment of transect searches by season and search interval at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023 4
Table 3.	Number and percent (%) of carcasses by species included and excluded from analysis at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.
Table 4.	Searcher efficiency results for road and pad search areas at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023, as a function of season and plot search type
Table 5.	Searcher efficiency models for bats from the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023 (n = 85)14
Table 6.	Carcass persistence top models with covariates, distributions, and model parameters for the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023
Table 7.	Truncated weighted maximum likelihood search area adjustment estimates for the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023, for bats (n = 470)
Table 8a.	Overall fatality rates per megawatt (MW) and per turbine for overall search area studies conducted at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 202316
Table 8b.	Estimated fatality rates, with 90% confidence intervals (CI) at overall search areas for studies conducted at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023
Table 9.	Probability of detection (g), Ba, and Bb, at the Sugar Creek Wind Project, Logan County, Illinois
	LIST OF FIGURES
Figure 1.	Location of turbines at the Sugar Creek Wind Project, Logan County, Illinois 2
Figure 2.	Land cover at the Sugar Creek Wind Project, Logan County, Illinois 3
Figure 3.	Location of turbines by search type at the Sugar Creek Wind Project, Logan County, Illinois
Figure 4.	The average probability of carcass persistence on road and pads and full plots over time (in days) at 2.0-megawatt (MW) and 4.2-MW turbines at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 202315

LIST OF APPENDICES

- Appendix A. Carcasses Found during the 2023 Post-construction Monitoring Surveys at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 October 15, 2023
- Appendix B. Carcass Persistence Trial Information and Model Tables for the Sugar Creek Wind Project, Logan County, Illinois, from April 1 October 15, 2023
- Appendix C. Truncated Weighted Likelihood Area Adjustment Estimate Model Fitting Results for the Sugar Creek Wind Project, Logan County, Illinois, from April 1 October 15, 2023.
- Appendix D. Bat Fatality Rates and Adjustment Factors Table for the Sugar Creek Wind Project, Logan County, Illinois, from April 1 October 15, 2023.
- Appendix E. Inputs Required to Run the Evidence of Absence Single Class Module and Stratum-Specific *g* Distribution Values at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 October 15, 2023
- Appendix F. Screenshots of Inputs for Single Class and Multiple Class Modules in Evidence of Absence.

INTRODUCTION AND BACKGROUND

The Sugar Creek Wind Project (Project), located in Logan County, Illinois (Figure 1), is owned by Sugar Creek Wind One LLC (Sugar Creek), a subsidiary of Algonquin Power Company, and is operated by Liberty Power. Sugar Creek obtained a US Fish and Wildlife Service (USFWS) Incidental Take Permit (ITP; ESPER0047644) for the federally listed as endangered Indiana bat (*Myotis sodalis*) and northern long-eared bat (*M. septentrionalis*; hereafter, Covered Species) dated July 15, 2022. Sugar Creek also obtained Incidental Take Authorization (ITA) from the Illinois Department of Natural Resources (IDNR) for the Covered Species on December 22, 2022. Both the USFWS ITP and IDNR ITA require the Project to minimize impacts to the Covered Species and conduct post-construction monitoring (PCM).

Western EcoSystems Technology, Inc. (WEST) completed a third year of post-construction monitoring (PCM) at the Project in 2023 in accordance with the Project's Habitat Conservation Plan (HCP; version dated April 29, 2022; Liberty Power 2022) and Bird and Bat Conservation Strategy (version dated September 30, 2017; Sugar Creek 2017). The 2023 PCM was the second year of the Intensive Monitoring Phase under the Project's ITP. The objectives of this study were to estimate take of the Covered Species and estimate the overall bat fatality rate as specified in the HCP and BBCS. This report presents the results of the 2023 year of monitoring conducted at the Project from April 1 – October 15, 2023.

PROJECT LOCATION

The Project is located approximately 13 kilometers (eight miles) west of the city of Lincoln, Illinois (Figure 1). Topography is categorized by gentle, rolling hills largely composed of cultivated croplands and developed areas (Liberty Power 2021). Land cover in the Project is dominated by agriculture (i.e., row crop and pasture) with small creeks and drainages interspersed throughout. Small areas of hay/pasture, woody wetlands, deciduous forest, and open water are also present within the Project (National Land Cover Database 2021; Figure 2).

The Project is a 202-megawatt (MW) wind energy facility that became operational in 2020 and consists of 57 wind turbines: 17 Vestas V110s 2.0-MW turbines that have a 95-meter (m; 312-foot [ft]) hub height and 54-m (177-ft) blade length, and 40 Vestas V150s 4.2-MW turbines that have a 110-m (361-ft) hub height and 75-m (246-ft) blade length. All turbines were within the migratory range of the Covered Species, therefore, to minimize the impacts, all turbines were feathered below wind speeds of 5.0 m/second (m/s; 16.4 ft/s) from sunset to sunrise when temperatures were above 10 degrees Celsius (°C; 50° Fahrenheit [F]) during the fall migration period (August 1 – October 15; Table 1). Additionally, all turbines were feathered below the manufacturers cut-in speed of 3.0 m/s (9.8 ft/s) from sunset to sunrise when temperatures were above 4°C (40 F) during the summer maternity season and spring migration period, and winter (March 15 – July 31 and October 16 – March 14, respectively; Table 1).

WEST 1 February 2023

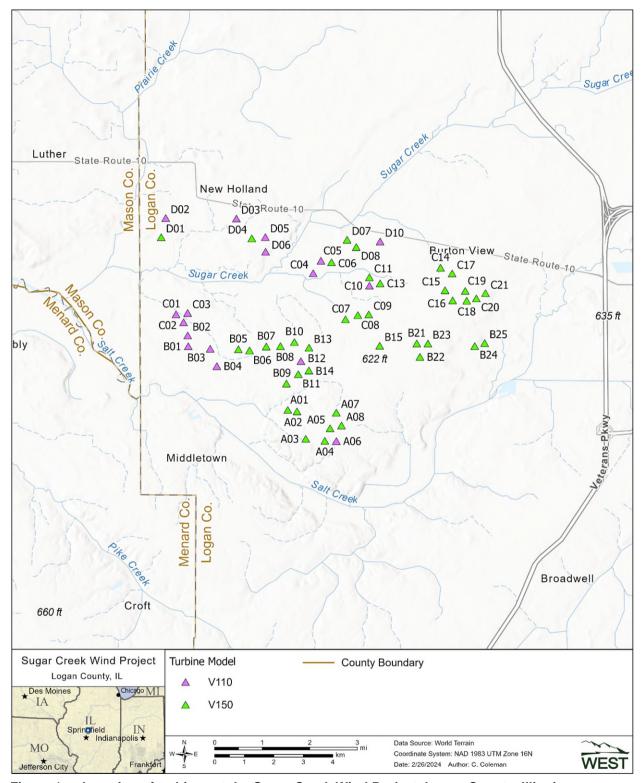


Figure 1. Location of turbines at the Sugar Creek Wind Project, Logan County, Illinois.

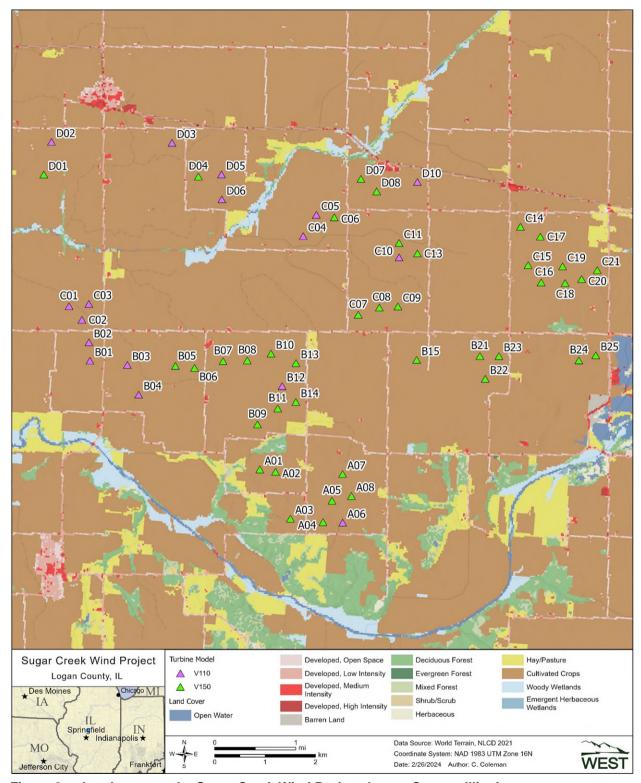


Figure 2. Land cover at the Sugar Creek Wind Project, Logan County, Illinois.

Table 1. Seasonal curtailment¹ regime at the Sugar Creek Wind Project, Logan County, Illinois.

	Spring and Summer:	Fall:	Winter:
Temperature	March 15 – July 31	August 1 – October 15	October 16 – March 14
Less than 4°C (40°F)	Uncurtailed	Uncurtailed	Uncurtailed
4-10°C (40-50°F) ²	3.0 m/s	3.0 m/s	3.0 m/s
Greater than 10°C (50°F)	3.0 m/s	5.0 m/s	3.0 m/s

^{1.} The manufacturer's cut-in wind speed is 3.0 meters per second (m/s; 9.8 feet [ft]/s) across the Project turbines.

METHODS

WEST followed PCM methods outlined in the Project's HCP for the Intensive Monitoring Phase, which targeted a probability of detection (*g*) above 0.20 for the Covered Species to meet the monitoring commitments.

Standardized Carcass Searches

Number of Turbines Sampled, Search Frequency, and Plot Size

Technicians conducted standardized carcass searches at all 57 turbines from April 1 – October 15, 2023. Search effort varied by season (Table 2), consistent with the Project's HCP. Searches were conducted within three types of search areas: gravel turbine access roads and pads, gravel turbine access roads and pads with a 5-m (16-ft) cleared buffer, or full plots (Table 2, Figure 3). The gravel portions of road and pad areas were searched out to 100 m (328 ft) from the turbine base at all 57 turbines weekly during the spring and summer (April 1 – July 31, 2023), and five days per week at 42 turbines during fall (August 1 – October 15, 2023). During fall, vegetation within a 5-m buffer around each road and pad, and at all full plots was mowed and maintained by Project staff to increase the search area and enhance detectability of carcasses. Full plot searches were conducted at 15 turbines within cleared areas centered on the turbines and searched five days per week from August 1 – October 15, 2023, which exceeded the level of effort in the HCP. The full plots were larger than specified in the HCP to reflect the different turbine sizes: 60-m (197-ft) radius circles at nine V110s 2.0 MW turbines and 70-m (230-ft) radius circles at six V150s 4.2 MW turbines.

Table 2. Assignment of transect searches by season and search interval at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Season	# Full Plot Turbines	# Road and Pad Turbines	Search Interval
Spring (April 1 – May 31)	0	57	Once per week
Summer (June 1 – July 31)	0	57	Once per week
Fall (August 1 – October 15)	15 ¹	42 ²	Five days per week

^{1.} Nine turbines each had a 60-meter (m; 197-foot [ft]) radius and the remaining six each had a 70-m (230-ft) radius.

^{2.} Turbines will be feathered below cut-in when temperatures are above the threshold. Feathering means that turbine blades will be pitched into the wind such that they spin at less than one rotation per minute.

[°]C = degrees Celsius; °F = degrees Fahrenheit.

^{2.} Fall road and pad search areas included a 5-m (16-ft) cleared buffer around each road and pad

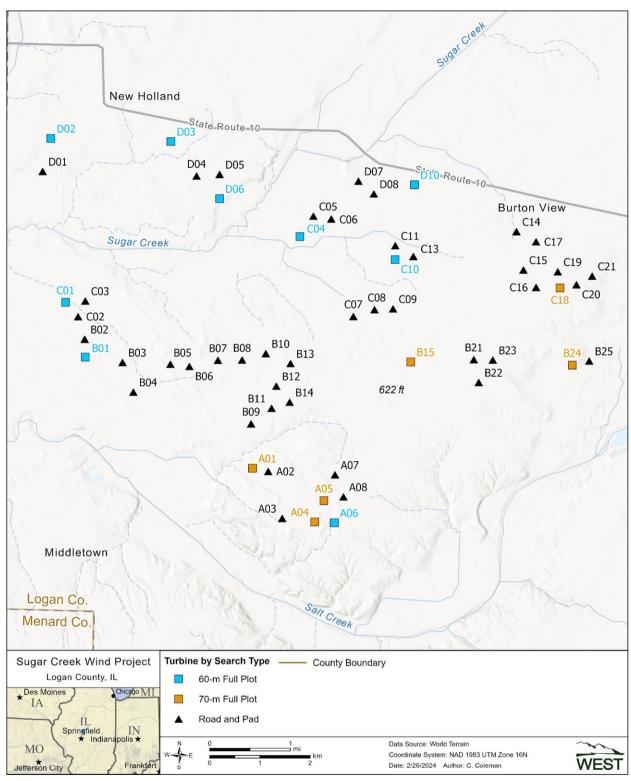


Figure 3. Location of turbines by search type at the Sugar Creek Wind Project, Logan County, Illinois.

WEST 5 February 2023

Search Methods

Technicians trained in proper search techniques conducted carcass searches and looked for carcasses while walking at a pace of approximately 45.0–60.0 m (148.0–197.0 ft) per minute (min) within search areas. At road and pad turbines, the technician walked the access road starting at 100 m from the turbine and walked towards the turbine, around the turbine along the gravel pad, and back towards their vehicle, searching out 2.5 m (8.2 ft) on each side until the entire road and pad was searched. During fall, technicians also walked transects spaced 2.5-m apart in the 5.0-m buffers of road and pad plots. For full plots, technicians walked transects spaced at approximately 5.0 m intervals while scanning the ground for carcasses within 2.5 m of each transect. The technician commenced searching at one side of the full plot and systematically searched the entire plot in a north/south or east/west direction.

Data Collection

Technicians recorded the date, search start and end times, technician name, turbine number, type of search, and if any carcasses were found during each scheduled search. Although the Covered Species are the focal species of the study, all bird and bat carcasses were recorded and collected. When a carcass was found, technicians placed a flag near it and continued the search. After searching the entire road and pad or full plot, the technician returned to each carcass and recorded the date and time found, technician name, species, sex, and age of the carcass (when possible), turbine number, distance and azimuth from turbine, location of carcass using geographic coordinate system (latitude and longitude), habitat surrounding carcass, estimated time since death (i.e., zero to one day, two to three days, four to seven days, eight to 14 days, 15–30 days, or more than 30 days), and condition of carcass (e.g., intact, scavenged, dismembered).

Carcasses found in non-search areas (i.e., outside of a plot boundary), or outside of the scheduled search time, were coded as incidental discoveries and were documented following the same protocol for those found during standard searches.

The condition of each carcass found was recorded using the following categories:

- Intact—a carcass that was entirely in one piece, not badly decomposed, and showed no sign of being fed upon by a predator or scavenger
- Scavenged—a carcass that showed signs of being fed upon by a predator or scavenger but was otherwise complete; or a portion(s) of a carcass in one location (e.g., wings, skeletal remains, part of a carcass), or a carcass that has been heavily infested by insects
- Dismembered—all portions of a single carcass found in multiple pieces that are distributed more than 1.0 m (3.3 ft) apart from one another, due to scavenging or other reasons
- Injured—a bat or bird found alive but impaired in some way

For bird carcasses, the following category was also used if needed:

 Feather spot—10 or more feathers (excluding down), or two or more primary feathers at one location indicating predation or scavenging of a bird carcass

Technicians took digital photographs of each carcass, including any visible injuries, and surrounding habitat. Bat carcasses were collected under the Project's USFWS ITP ESPER0047644, WEST's Federal Native Endangered and Threatened Species Recovery Permit TE234121-10, WEST's State Endangered and Threatened Species Scientific Permit 1531, and individual salvage permits: NH23.6975, NH23.7011, NH23.7012, NH23.7010, NH23.6976, NH23.6877, NH23.6978, and NH23.6819. Bird carcasses were collected under the Project's Federal Migratory Bird Special Purpose – Utility Permit (MBPER1772639). Technicians placed all carcasses in a re-sealable plastic bag labeled with the unique carcass identification number, turbine number, and date, for storage in a freezer on site. Leather and rubber gloves were used to handle all carcasses to eliminate possible transmission of rabies or other diseases. Live, injured bats and birds were recorded and considered fatalities for analysis purposes when observed in search areas and were handled in accordance with permit conditions (left in place).

Carcass Identification and Agency Notification

A federally permitted bat biologist (Meredith Hoggatt ESPER0039249; Pallavi Sirajuddin TE62046D-0) identified all bat carcasses via photos and/or in hand at the end of the surveys. Biologists experienced in identifying Midwestern bird species and their feathers verified all bird carcass identifications. The USFWS and the IDNR were notified within 24 hours of positive identification of any state- or federally listed species.

Tissue samples were collected from heavily scavenged or decomposed bat carcasses that could not be positively identified and had potential to be a Covered Species and submitted to the East Stroudsburg University Wildlife Genetics Institute for identification via deoxyribonucleic acid (DNA) analysis.

Bias Trials

Searcher Efficiency Trials

The objective of searcher efficiency (SEEF) trials was to collect data to estimate the probability a technician detected bat carcasses. No bird carcasses were placed for searcher efficiency trials. This effort accounted for any biases associated with changes in conditions such as search plot type, vegetation, topography, and weather (e.g., rain and/or cloud cover, muddy plots), and technician variability that may affect SEEF.

SEEF trials commenced with the start of carcass searches and were conducted in the same areas where searches took place throughout the study period. SEEF trials were stratified by search area (road and pad and full plot) and season. A bias trial administrator (administrator) placed SEEF trial carcasses (SEEF carcasses) in search areas to keep technicians unaware of when and where the SEEF carcasses were placed. Non-Myotis bats found on site were used as SEEF

carcasses. A random number generator was used to produce the location (distances and bearing) for the SEEF carcasses within plot boundaries.

The administrator placed 94 bat carcasses in random locations. Prior to placement, each SEEF carcass was marked discreetly with electrical tape around one leg so it could be identified as a SEEF carcass. The administrator dropped SEEF carcasses from waist height or higher and allowed them to land in a random posture. To avoid attracting scavengers, no more than two SEEF carcasses were placed at a single turbine at the same time. Technicians conducting carcass searches recorded the location of any SEEF carcasses found. Immediately following the trial, the bias trial administrator determined the number of SEEF carcasses that were available for detection during the trial.

Carcass Persistence Trials

The objective of carcass persistence trials (CPT) was to collect data to estimate the average probability a bat carcass remained available to be found during the search interval. The data collected were used to adjust for the potential bias of carcasses removed during carcass searches. CPT were conducted throughout the survey period to incorporate the effects of varying weather, climatic conditions, and scavenger densities. Possible means of carcass removal included predators, scavengers, insects, or agricultural practices, such as being plowed into a field. Estimates of bat carcass persistence were used to adjust the total number of bat carcasses found as compared to those removed from the search area. A random number generator was used to produce the distances and bearing for the trial carcasses within plot boundaries.

The administrator placed 71 bat carcasses for CPT. The same bat species used for SEEF trials also were used for CPT. Carcasses were marked discreetly with electrical tape around a leg for recognition by technicians and other personnel, and then dropped from waist height or higher and allowed to land in a random posture within the search area.

CPT carcasses were monitored over a 30-day period according to the following schedule: every day for the first seven days, then on days 10, 14, 21, and 30. The condition of carcasses was recorded each time the CPT carcasses were checked. The schedule varied slightly depending on weather, turbine maintenance, and coordination with other survey work. Following the 30-day period, any remaining evidence of carcasses was removed.

Search Area Mapping

Technicians recorded the boundaries of the spring and summer 100-m roads and pads, the fall 100-m roads and pad with the 5-m buffer, and fall full plot boundaries using a Trimble submeter Global Positioning Satellite unit. Unsearchable areas within plot boundaries were also mapped. The plot boundaries were used to verify if carcasses were found inside the search areas, and to inform the distribution of carcasses around turbines to estimate the number of carcasses that fell inside or outside of search areas.

Quality Assurance and Quality Control

Quality assurance and quality control measures were implemented at all stages of the study, including in the field, during data entry and analysis, and report writing. Following field surveys, technicians were responsible for inspecting data forms for completeness, accuracy, and legibility. Potentially erroneous data were identified using a series of database queries. Irregular codes or data suspected as questionable were discussed with the technician and/or Project Manager. Errors, omissions, or problems identified in later stages of analysis were traced back to the raw data forms, and appropriate changes and measures were implemented. A Microsoft® SQL database was developed to store, organize, and retrieve survey data. All data forms and electronic data files were retained for reference.

Statistical Analysis

The Evidence of Absence (EoA; Dalthorp et al. 2017) modeling framework was used to estimate the probability of detecting Covered Species. Additionally, per the Project's HCP, the all-bat fatality estimate was calculated using GenEst (a generalized estimator of fatality; Dalthorp et al. 2018, Simonis et al. 2018).

Searcher Efficiency Estimation

EoA uses raw SEEF data (e.g., number of found and available trial carcasses) to inform overall probability of detection. However, to determine if SEEF data should be pooled, or separated by strata such as season and/or plot type, we modeled searcher efficiency using logistic regression. Model selection was completed using an information theoretic approach known as AICc, or corrected Akaike Information Criterion (Burnham and Anderson 2002). The best model was selected as the most parsimonious model within two AICc units of the model with the lowest AICc value. SEEF data were input into the EoA software according to the model selection results.

The change in SEEF between successive searches was defined by a parameter called the detection reduction factor (k) that can range from zero to one. When k is zero, it implies a carcass that was missed on the first search would never be found on subsequent searches. A k of one implies SEEF remained constant no matter how many times a carcass was missed. An assumed value of k = 0.65 was used to calculate bat fatality estimates using EoA, per the HCP.

Carcass Persistence Estimation

Data collected during CPT's were used to estimate the probability carcasses remained available to be located by the searcher, given the search interval (i.e., the time between scheduled searches). The average probability a carcass persisted was estimated using an interval-censored survival regression with four potential distributions: exponential, log-logistic, lognormal, and Weibull distributions (Kalbfleisch and Prentice 2002, Dalthorp et al. 2018). Covariates (explanatory variables of interest) were fit to each of the parameters of the distributions and the covariates considered were season and plot type. The best model was selected as the most parsimonious model within two AICc units of the model with the lowest AICc value. The parameter estimates of the selected model (α [shape] and β [scale], including the 95% confidence interval of β) were used as inputs in the EoA Single Class module.

Search Area Adjustment Estimate

The search area adjustment accounted for unsearched areas beneath turbines and was calculated as a probability that ranged from zero to one. For example, an area adjustment of 0.75 meant that an estimated 75% of carcasses fell within the search area. Unsearched areas were due to survey obstacles such as ground cover (e.g., tall crops) or terrain, or areas where carcasses fell outside the search area (e.g., a carcass landed 70 m away from the turbine on a plot searched out to 60 m from the turbine base). The area adjustment was estimated as the product of the unsearched area around each turbine and a carcass-density distribution. The proportion of area searched was calculated in a geographic information system as the amount of area searched divided by the total area searched at each 1-m annulus around the turbine. A truncated weighted maximum likelihood (TWL) modeling approach (Khokan et al. 2013) was used to estimate the carcass-density distribution using site-specific carcass locations. The TWL approach uses weights based on probability of detection and the proportion of area searched in each 1-m annulus around the turbine. Due to the variation in turbine sizes (hub heights range from 95-110 m [312-361 ft] and blade lengths range from 54-75 m [177-246 ft] in diameter) carcass-density distribution models were fit for each turbine size separately and compared to additional models fit with data pooled across all turbine sizes. The pooled turbine size model was chosen, thus the only difference in area correction estimates across turbines is due to the proportions of area searched. Distributions considered were normal, gamma, Gompertz, and Weibull (parameterized according to R Development Core Team [2016] and Yee [2010]). Fitted models were checked for validity and excluded from consideration if the estimated variance was negative or infinite, if the statistical fitting algorithm returned indicated an error, or if the fitted distribution indicated less than 5% of carcasses within the maximum search radius (after Dalthorp and Huso 2023). The best model was selected using AICc after excluding invalid models.

Carcasses Excluded from Area Correction Calculations

Carcasses were excluded from the analysis when the carcass was discovered outside of the spatial and temporal scope of the survey design. For example, carcasses found outside a designated plot were not included in the analysis because the TWL fitting procedure accounts for unsearched areas. Carcasses found prior to the start of surveys (e.g., a carcass found on a plot in the spring that was estimated to have died prior to April 1) were also excluded because the carcass occurred outside of the study period. Note that carcasses found on a plot incidentally (e.g., found by maintenance personnel) were included in the analysis if that plot had a scheduled search in the future, but within the same season. If a carcass of a Covered Species was found outside of the spatial or temporal scope of the survey design, it would be excluded from the search area adjustment but would be included in the EoA fatality estimate following Dalthorp et al. (2020).

Overall Fatality Rate Estimation

Carcasses included in the all-bat fatality rate estimation were found within the search areas (plots) and had an estimated time of death within the study period. Fatality estimates were calculated for bats, by season and for the entire study period, using GenEst (Dalthorp et al. 2018, Simonis et al. 2018). To obtain an overall fatality estimate, each carcass included in the analysis was adjusted for SEEF, carcass persistence, k, and a search area adjustment. Estimates and 90% CI were calculated using a parametric bootstrap (Dalthorp et al. 2018). The relative number of

turbines sampled within each plot type was used to weight each plot type estimate within each season, resulting in an overall estimate by season. The overall estimates for each season were then summed to generate an overall estimate for the entire study period-

Covered Species Take and Evidence of Absence Detection Probabilities

EoA was used to estimate the median cumulative take to-date (M^*) and mean annual take rate (λ) for the Covered Species. Estimates were calculated using the EoA method (Dalthorp et al. 2017), using the Single Class, Multiple Class, and Multiple Years modules of EoA.

The overall g was estimated using the EoA Software (Dalthorp et al. 2017). The EoA method utilizes data from PCM to estimate site-wide g. Estimating an annual g is a 3-step process: first, the single stratum module is used to estimate g within each search stratum (e.g., search area type within season), second, search strata are combined within each season to estimate detection probability for each season, and, third, seasonal detection probabilities are combined to estimate an annual detection probability.

Single-stratum detection probability estimates were computed using the EoA Single Class module with inputs that described the estimated carcass removal rate, estimated SEEF rates, and temporal search effort. Data were not available to estimate the detection probability reduction factor (*k*), so an assumed value of 0.65 was used as stated in the Project HCP. Adjustments for the number of turbines searched were not included in the single-stratum detection probability estimates. Rather, unsearched turbines were given their own strata with near-zero detection probabilities¹ where relevant (D. Dalthorp, US Geological Survey, pers. comm., 2017), resulting in a searched area adjustment to the seasonal detection probabilities. For the purposes of this analysis, it is assumed that all turbines were operational for the entire study period.

Stratum-specific detection probabilities were combined into seasonal detection probabilities using the EoA multiple class module where the weights for each stratum (density-weighted proportion in the EoA software) were the fraction of Project turbines within the stratum.

Seasonal detection probabilities were combined into a whole-site, whole-year detection probability using the EoA multiple class module where the weights for each stratum were then assumed seasonality of risk for Covered Species which, has previously been estimated as 11% in spring and 89% in fall (USFWS 2016).

Assessment of Adaptive Management Triggers

As specified in the Project's HCP, evaluation of EoA and the annual PCM to determine the need for adaptive management will take place after Year 3 of post-ITP issuance operations. As the 2023 PCM was the second year of monitoring under the Project's ITP, adaptive management triggers were not evaluated.

¹ EoA cannot analyze zero-valued detection probabilities. An arbitrarily low detection probability (10⁻⁵) was used instead by specifying a beta (0.01, 1,000) distribution for the detection probability.

RESULTS

Standardized Carcass Searches

There were 3,726 searches completed across all seasons (spring = 452; summer = 440; fall = 2,834). Two hundred sixty-eight searches (full plot = 104; road and pad = 59; road and pad with buffer = 105; 7.2%) were missed due to turbine and access road maintenance, vegetation height, or unsafe weather conditions.

Overall Carcasses Found

Four hundred seventy bat carcasses were found during carcass searches (Table 3; Appendix A). Twenty-six bat carcasses were found outside the search areas, outside the study period (died prior to the study period), or found during plot setup, prior to the study starting; therefore, these carcasses were not included in analysis. Seventy-eight bird carcasses were found during searches (Appendix A); however, no birds were included in the analysis (Table 3).

Table 3. Number and percent (%) of carcasses by species included and excluded from analysis at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

		ded in ality mate	Out: Sea Are	rch	Outs Stu Peri	ıdy	Oth	er*	То	tal
Species	Total	%	Total	,	Total	%	Total	<u>%</u>	Total	<u>%</u>
Bat	1 0 1011		1 0 0011				1 0 0011		1 0 1011	
eastern red bat	285	60.6	4	57.1	1	50.0	10	58.8	300	60.5
silver-haired bat	75	16.0	2	28.6	0	0	4	23.5	81	16.3
hoary bat	58	12.3	1	14.3	1	50.0	2	11.8	62	12.5
evening bat	25	5.3	0	0	0	0	0	0	25	5.0
big brown bat	21	4.5	0	0	0	0	0	0	21	4.2
unidentified Lasiurus bat	4	0.9	0	0	0	0	1	5.9	5	1.0
eastern red bat or Seminole bat	1	0.2	0	0	0	0	0	0	1	0.2
Indiana bat	1	0.2	0	0	0	0	0	0	1	0.2
Overall Bats	470	100	7	100	2	100	17	100	496	100
Bird										
common yellowthroat	0	0	0	0	0	0	7	8.9	7	8.9
horned lark	0	0	0	0	0	0	6	7.6	6	7.6
unidentified small bird	0	0	0	0	0	0	5	6.3	5	6.3
chimney swift	0	0	0	0	0	0	5	6.3	5	6.3
killdeer	0	0	0	0	0	0	4	5.1	4	5.1
rock pigeon	0	0	0	0	0	0	4	5.1	4	5.1
blackburnian warbler	0	0	0	0	0	0	3	3.8	3	3.8
ruby-crowned kinglet	Ö	Ö	ő	Ö	ő	Ö	3	3.8	3	3.8
red-eyed vireo	0	Ö	0	Ō	0	Ō	3	3.8	3	3.8
Tennessee warbler	Ō	Ö	Ö	Ö	0	Ö	3	3.8	3	3.8
great horned owl	0	0	0	0	0	0	2	2.5	2	2.5
house sparrow	0	0	0	0	0	0	2	2.5	2	2.5
magnolia warbler	0	0	0	0	0	0	2	2.5	2	2.5
mourning dove	0	0	0	0	0	0	2	2.5	2	2.5
unidentified passerine	0	0	0	0	0	0	2	2.5	2	2.5
unidentified warbler	0	0	0	0	0	0	2	2.5	2	2.5
white-crowned sparrow	0	0	0	0	0	0	2	2.5	2	2.5

Included in Outside Outside **Fatality** Search Study Period* **Estimate** Area* Other* Total Total % Total Total % Total % **Species** Total % % 2.5 2.5 vellow-throated vireo blue-gray gnatcatcher 1.3 1.3 brown-headed cowbird 1.3 1.3 brown creeper 1.3 1.3 cliff swallow 1.3 1.3 Cooper's hawk 1.3 1.3 downy woodpecker 1.3 1.3 European starling 1.3 1.3 golden-crowned kinglet 1.3 1.3 indigo bunting 1.3 1.3 ovenbird 1.3 1.3 1.3 1.3 swamp sparrow turkev vulture 1.3 1.3 unidentified vireo O O 1.3 1.3 Virginia rail 1.3 1.3 white-breasted nuthatch 1.3 1.3 vellow-breasted chat 1.3 1.3 yellow warbler 1.3 1.3 **Overall Birds**

Table 3. Number and percent (%) of carcasses by species included and excluded from analysis at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Sums may not equal total values shown due to rounding.

Species Composition

One Covered Species, a federally listed as endangered Indiana bat, was found on August 22, 2023 (Table 3). The carcass was found approximately six m (20 ft; 40.13832, -89.54623) from Turbine B08. No other federally or state-listed species were found.

Eastern red bat (*Lasiurus borealis*; 300 carcasses; 60.5%) was the most commonly found bat species during surveys and incidentally, followed by silver-haired bat (*Lasionycteris noctivagans*; 81; 16.3%), hoary bat (*Lasiurus cinereus*; 62; 12.5%), evening bat (*Nycticeius humeralis*; 25; 5.0%), big brown bat (*Eptesicus fuscus*; 21; 4.2%), and unidentified *Lasiurus* bat (five; 1.0%). One eastern red or Seminole bat (0.2%) and one Indiana bat (0.2%) were also found during surveys (Table 3; Appendix A).

Bias Trials

Searcher Efficiency Trials

Ninety-four bats were placed for SEEF trials on 11 separate dates and 85 were available for searchers to find (Table 4). The best-fit model indicated that SEEF varied by search area type (Table 5). Overall, the observed SEEF ratios were 86.0% on road and pads and 46.4% on full plots (Table 4).

^{1.} Carcasses not included in analysis.

Table 4. Searcher efficiency results for road and pad search areas at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023, as a function of season and plot search type.

Search Area Type	Season	# Placed	# Available	# Found	% Found
Decile de la colonia	Spring	19	17	17	100
	Summer	16	16	14	87.5
Road and pad	Fall	26	24	18	75.0
	Overall	61	57	49	86.0
Full plot	Fall	33	28	13	46.4
	Overall	33	28	13	46.4

Table 5. Searcher efficiency models for bats from the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023 (n = 85).

Covariates	k Value	AICc	Delta AICc
Plot Search Type	k fixed at 0.65	89.06	0*
Season	k fixed at 0.65	89.52	0.46
No Covariates	k fixed at 0.65	101.30	12.24

^{*} Selected model.

Carcass Persistence Trials

Seventy-one carcasses were placed for CPT in search areas throughout the duration of the study (Appendix B). The best-fit model for carcass persistence rates had a loglogistic distribution and indicated that carcass persistence varied by plot search type (Table 6; Appendix B). Due to rounding, the median carcass persistence time for all plot search types was 3.17 days (Table 6).

The average probability a carcass persisted through the weekly search interval on roads and pads was 0.53 (90% CI: 0.45–0.61) in the spring and 0.52 (90% CI: 0.44–0.59) in the summer. The average probability a carcass persisted through the five times per week search interval in the fall was 0.88 (90% CI: 0.82–0.93) on road and pads and 0.73 (90% CI: 0.66–0.81) on full plots (Figure 4).

Table 6. Carcass persistence top models with covariates, distributions, and model parameters for the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

		Predicted Median Removal		
Search Area Type	Distribution	Time (days)	Parameter 1	Parameter 2
Road and pad	loglogistic*	3.17	shape = 1.578	scale = 1.154
Full plot	loglogistic*	3.17	shape = 0.722	scale = 1.154

^{*} Parameterization follows the FAdist parameterization for this distribution.

k = detection reduction factor; AICc = corrected Akaike Information Criterion; Delta AICc = change in AICc.

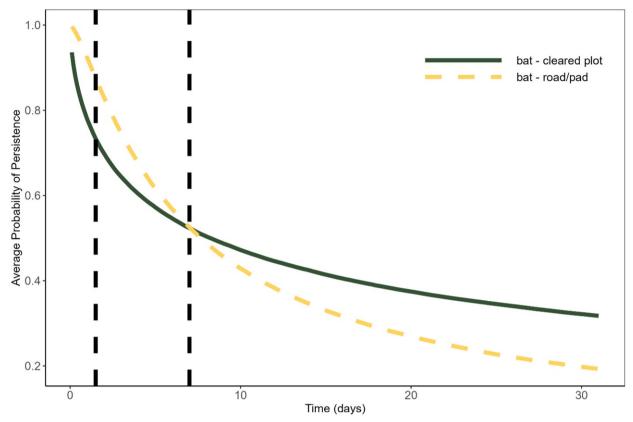


Figure 4. The average probability of carcass persistence on road and pads and full plots over time (in days) at 2.0-megawatt (MW) and 4.2-MW turbines at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Note: The vertical dashed lines indicate the five times per week and weekly search intervals for the full plot and road and pad search areas.

Search Area Adjustment

The best model selected by AICc for carcass-density distribution of bats from the pooled turbine size data was a Gompertz model (Appendix C). The TWL area adjustment for bats at road and pad plots was 0.13 in spring and summer, and 0.21 at road and pad plots with 5-m buffer in fall. The TWL area adjustment at 60-m full plots was 0.75 and 0.84 at 70-m full plots (Table 7; Appendix C).

Table 7. Truncated weighted maximum likelihood search area adjustment estimates for the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023, for bats (n = 470).

Search Area Size (m)	Season	Area Adjustment	Search Area Type	Distribution	Parameter 1	Parameter 2
	spring	0.13	100-m road and pad	Gompertz	0.0396	0.0054
100	summer	0.13	100-m road and pad	Gompertz	0.0396	0.0054
100	fall	0.21	100-m road and pad with 5-m buffer	Gompertz	0.0396	0.0054
60	fall	0.75	60-m full plot	Gompertz	0.0396	0.0054
70	fall	0.84	70-m full plot	Gompertz	0.0396	0.0054

Overall Fatality Estimates

The overall bat fatality estimate was 13.95 bats per MW (90% CI: 11.29–17.83; Table 8a). Bat fatality estimates were highest during the fall, followed by summer, and spring (Table 8b). Inputs used to calculate fatality estimates are presented in Appendix D.

Table 8a. Overall fatality rates per megawatt (MW) and per turbine for overall search area studies conducted at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Search Area	Per MW Estimates Estimate 90% CI		Per Turbir	ne Estimates
Туре			Estimate	90% CI
Road and pad	14.35	11.45–18.71	52.16	41.72–67.30
Full plot	8.37	6.74-11.39	25.29	20.65-34.26
Overall	13.95	11.29–17.83	49.17	39.91–62.80

CI = confidence interval.

Table 8b. Estimated fatality rates, with 90% confidence intervals (CI) at overall search areas for studies conducted at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

_	,							
	Spi	ring	Sur	nmer	Fall			
Search Area	57 Turbines Searched		57 Turbine	es Searched	57 Turbines Searched			
Туре	Estimate	90% CI	Estimate	90% CI	Estimate	90% CI		
Estimated Fatality Rates (Fatalities/Turbine/Season)								
Road and pad	4.12	2.33-6.94	10.86	7.26-16.06	37.08	30.08-46.70		
Full plot	n/a*	n/a*	n/a*	n/a*	25.29	20.65-34.26		
Overall	4.12	2.33-6.94	10.86	7.26-16.06	34.02	28.32-42.22		
Estimated Fata	ality Rates (Fa	talities/Megaw	/att/Season)					
Road and pad	1.14	0.64-1.99	3.10	2.04-4.79	10.07	8.20-12.72		
Full plot	n/a*	n/a*	n/a*	n/a*	8.37	6.74-11.39		
Overall	1.14	0.64-1.99	3.10	2.04-4.79	9.64	8.06-12.06		

^{*} Not applicable; full plot searches were not conducted in the spring and summer.

Covered Species Take Estimates and Probability of Detection (g)

One Indiana bat carcass was found during the 2023 study. To date, two Indiana bats and zero northern long-eared bats have been found during PCM at the Project. The overall g achieved for the 2023 study period was 0.216 (95% CI: 0.201–0.231; Table 9). Inputs required to run the EoA Single Class module and stratum-specific g distribution values and inputs required for the Multiple Class module are described in Appendix E. Appendix F includes representative screenshots of the inputs for the Single Class and Multiple Class Modules.²

WEST 16 February 2023

^{2.} There may be very minor differences between screenshots (Appendix E) and the results in the main text because EoA is a stochastic estimator, leading to slightly different estimates each time the modules are run.

minois.				
Year	Ba ¹	Bb ¹	g¹	90% CI
2021	11,354.711	80,708.378	0.123	0.122-0.125
2022	49.125	424.596	0.104	0.082-0.128
2023	426.664	1,552.003	0.216	0.201-0.231
2021-2023	490.353	2,769.178	0.150	0.140-0.161
2022-2023	304 545	1 602 841	0.160	0 146-0 174

Table 9. Probability of detection (g), Ba, and Bb, at the Sugar Creek Wind Project, Logan County, Illinois.

Mean annual take rates based on the combined 2021^3 –2023 monitoring years were estimated to be 6.21 (90% CI: 1.42–13.78) Indiana bats per year and 1.24 (90% CI: 0–4.78) northern long-eared bats per year. Cumulative take under the ITP to date (2022 and 2023 monitoring years), M^* , at $\alpha = 0.5$ (50th credible bound), is estimated to be seven Indiana bats and one northern long-eared bat.

Adaptive Management Triggers

As the 2023 PCM was the second year of monitoring under the Project's ITP, adaptive management triggers were not evaluated, per the HCP.

CONCLUSION

During the 2023 monitoring period, Intensive Monitoring was conducted in accordance with the HCP, and one covered species carcass was found. As per the HCP, adaptive management triggers will be evaluated after Year 3 (2024) of monitoring under the permit term.

Per the Project's HCP, PCM will continue at the Project in 2024 under the Annual Monitoring Phase. Annual Monitoring includes weekly searches at the gravel roads and pads of all 57 turbines from August 1 – October 15, 2024.

REFERENCES

Burnham, K. P. and D. R. Anderson. 2002. Model Selection and Multimodel Inference: A Practical Information-Theoretic Approach. Second Edition. Springer, New York, New York.

Dalthorp, D., M. M. P. Huso, and D. Dail. 2017. Evidence of Absence (V2.0) Software User Guide. US Geological Survey (USGS) Data Series 1055. USGS, Reston, Virginia. 109 pp. doi: 10.3133/ds1055. Available online: https://pubs.usgs.gov/ds/1055/ds1055.pdf

Dalthorp, D. H., L. Madsen, M. M. Huso, P. Rabie, R. Wolpert, J. Studyvin, J. Simonis, and J. M. Mintz. 2018. GenEst Statistical Models—a Generalized Estimator of Mortality. US Geological Survey Techniques and Methods, Volume 7, Chapter A2. 13 pp. doi: 10.3133/tm7A2. Available online: https://pubs.usgs.gov/tm/7a2/tm7a2.pdf

WEST 17 February 2023

^{1.} Ba and Bb are the parameters for the beta distribution used to characterize the distribution of the probability of detection. The g-value is the mean of that distribution.

CI = confidence interval of q.

^{3.} The 2021 PCM analysis was updated with turbine operational data, which resulted in an overall g of 0.123.

- Dalthorp, D. and M. Huso. 2023. dpw: Density-Weighted Proportion. R Package Version 1.1. R: A language and environment for statistical computing. Published July 1, 2023. Accessed December 2023. Available online: https://cran.r-project.org/package=dwp
- Dalthorp, D., P. Rabie, M. Huso, and A. T. Tredennick. 2020. Some Approaches to Accounting for Incidental Carcass Discoveries in Non-monitored Years Using the Evidence of Absence Model. US Geological Survey (USGS) Open-File Report 2020-1027, 24 pp. doi: 10.3133/ofr20201027. Available online: https://pubs.er.usgs.gov/publication/ofr20201027
- Esri. 2023. World Imagery and Aerial Photos (World Topo). ArcGIS Resource Center. Environmental Systems Research Institute (Esri), producers of ArcGIS software, Redlands, California. Accessed November 2023. Available online: https://www.arcgis.com/home/webmap/viewer.html?useExisting=1&layers=10df2279f9684e4a9f6a7f08febac2a9
- Kalbfleisch, J. D. and R. L. Prentice. 2002. The Statistical Analysis of Failure Time Data. John Wiley & Sons, Hoboken, New Jersey.
- Khokan, M. R., W. Bari, and J. A. Khan. 2013. Weighted Maximum Likelihood Approach for Robust Estimation: Weibull Model. Dhaka University Journal of Science 61(2): 153-156.
- Liberty Power. 2022. Habitat Conservation Plan for Indiana and Northern Long-Eared Bat, Sugar Creek Wind Project, Logan County, Illinois. Sugar Creek Wind One LLC, Oakville, Ontario, Canada. April 29, 2022.
- Yee, T. W. 2010. The Vgam Package for Categorical Data Analysis. Journal of Statistical Software 32(10): 1-34.
- National Land Cover Database (NLCD). 2021. National Land Cover Database 2021 Landcover & Imperviousness (Nlcd2021). Available online: https://www.mrlc.gov/data. As cited includes: Dewitz, J. 2023. National Land Cover Database (NLCD) 2021 Products. US Geological Survey data release. doi: 10.5066/P9JZ7AO3.
- R Development Core Team. 2016. R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing, Vienna, Austria. Available online: http://www.R-project.org/
- Simonis, J., D. H. Dalthorp, M. M. Huso, J. M. Mintz, L. Madsen, P. Rabie, and J. Studyvin. 2018. GenEst User Guide—Software for a Generalized Estimator of Mortality. US Geological Survey Techniques and Methods, Volume 7, Chapter C19, 72 pp. doi: 10.3133/tm7C19. Available online: https://pubs.usgs.gov/tm/7c19/tm7c19.pdf
- Stantec Consulting Services Inc. (Stantec Consulting). 2020. Eagle Conservation Plan, Sugar Creek Wind Farm, Logan County, Illinois. Prepared for Sugar Creek Wind, LLC, Oakville, Ontario. Prepared by Stantec Consulting, Independence, Iowa. February 24, 2020.
- Sugar Creek Wind One LLC (Sugar Creek). 2017. Bird and Bat Conservation Strategy for the Sugar Creek Wind Project with Technical Assistance Measures Incorporated to Address Listed Bat Risk. September 30, 2017. 330 pp.
- US Fish and Wildlife Service (USFWS). 2016. Midwest Wind Energy Multi-Species Habitat Conservation Plan.
- Yee, T. W. 2010. The Vgam Package for Categorical Data Analysis. Journal of Statistical Software 32(10): 1-34.

Appendix A. Carcasses Found during the 2023 Post-construction Monitoring Surveys the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 202	s at 23

Appendix A1. Species found during carcasses searches and incidentally at Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Species	Scientific Name
Bat	
big brown bat	Eptesicus fuscus
eastern red bat	Lasiurus borealis
eastern red bat or Seminole bat	_
evening bat	Nycticeius humeralis
hoary bat	Lasiurus cinereus
Indiana bat	Myotis sodalis
silver-haired bat	Lasionycteris noctivagans
unidentified Lasiurus bat	_
Bird	
Blackburnian warbler	Setophaga fusca
blue-gray gnatcatcher	Polioptila caerulea
brown-headed cowbird	Molothrus ater
brown creeper	Certhia americana
chimney swift	Chaetura pelagica
cliff swallow	Petrochelidon pyrrhonota
common yellowthroat	Geothlypis trichas
Cooper's hawk	Accipiter cooperii
downy woodpecker	Dryobates pubescens
European starling	Sturnus vulgaris
golden-crowned kinglet	Regulus satrapa
great horned owl	Bubo virginianus
horned lark	Eremophila alpestris
house sparrow	Passer domesticus
indigo bunting	Passerina cyanea
killdeer	Charadrius vociferus
magnolia warbler	Setophaga magnolia
mourning dove	Zenaida macroura
ovenbird	Seiurus aurocapilla
red-eyed vireo	Vireo olivaceus
rock pigeon	Columba livia
ruby-crowned kinglet	Corthylio calendula
swamp sparrow	Melospiza georgiana
Tennessee warbler	Leiothlypis peregrina
turkey vulture	Cathartes aura
Virginia rail	Rallus limicola
white-breasted nuthatch	Sitta carolinensis
white-crowned sparrow	Zonotrichia leucophrys
yellow-breasted chat	Icteria virens
yellow-throated vireo	Vireo flavifrons
yellow warbler	Setophaga petechia

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

04/04/2023 eastern red bat 17 B05 carcass search 100-m road and pad intact intact 04/06/2023 hoary bat 14 D01 carcass search 100-m road and pad intact intact 04/12/2023 eastern red bat 21 A02 carcass search 100-m road and pad intact 04/13/2023 eastern red bat 40 B05 incidental* n/a intact 04/13/2023 silver-haired bat 40 B05 incidental* n/a intact 04/24/2023 silver-haired bat 45 B13 carcass search** 100-m road and pad injured intact 05/08/2023 silver-haired bat 10 A05 carcass search 100-m road and pad injured intact 05/09/2023 eastern red bat 15 A08 carcass search 100-m road and pad injured intact 05/11/2023 big brown bat 61 D07 carcass search 100-m road and pad intact intact 05/16/2023 big brown bat 61 D07 carcass search <td< th=""><th>Farm I Data</th><th>Occasion</th><th>Distance from</th><th>T 1</th><th>O</th><th>O</th><th>Dissert on Constitution</th></td<>	Farm I Data	Occasion	Distance from	T 1	O	O	Dissert on Constitution
04/06/2023 hoary bat 14 D01 carcass search 100-m road and pad intact intact 04/10/2023 eastern red bat 13 B24 carcass search 100-m road and pad intact intact 04/13/2023 eastern red bat 40 B05 incidental* n/a intact 04/13/2023 silver-haired bat 45 B13 carcass search*** 100-m road and pad injured intact 05/08/2023 eastern red bat 45 B13 carcass search 100-m road and pad scavenged intact 05/08/2023 eastern red bat 15 A08 carcass search 100-m road and pad scavenged intact 05/09/2023 eastern red bat 44 C09 carcass search 100-m road and pad injured intact 05/10/2023 biy brown bat 61 D07 carcass search 100-m road and pad intact intact 05/15/2023 silver-haired bat 12 B09 incidental* n/a scavenged 05/15/2023 silver-haired bat 13		1	Turbine (m)			Search Area Type ¹	Physical Condition
04/10/2023 eastern red bat 21 A02 carcass search 100-m road and pad injuerd intact 04/13/2023 eastern red bat 40 B05 incidental* n/a intact intact 04/13/2023 silver-haired bat 20 B05 incidental* n/a intact intact 04/13/2023 silver-haired bat 45 B13 carcass search 100-m road and pad injured 05/08/2023 silver-haired bat 10 A05 carcass search 100-m road and pad injured 05/08/2023 silver-haired bat 15 A08 carcass search 100-m road and pad injured 05/09/2023 eastern red bat 44 C09 carcass search 100-m road and pad intact 05/11/2023 eastern red bat 12 B09 incidental* n/a scavenged 05/12/2023 silver-haired bat 31 A05 carcass search 100-m road and pad dismembered 05/12/2023 eastern red bat 3 C16 carcass search </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
04/12/2023 eastern red bat 13 B24 carcass search 100-m road and pad injured intact injured intact 04/13/2023 silver-haired bat 20 B05 incidental* n/a intact 04/24/2023 silver-haired bat 45 B13 carcass search*** 100-m road and pad injured intact 05/08/2023 eastern red bat 15 A08 carcass search 100-m road and pad injured intact 05/09/2023 eastern red bat 44 C09 carcass search 100-m road and pad injured injured intact 05/10/2023 big brown bat 61 D07 carcass search 100-m road and pad injured intact 05/15/2023 silver-haired bat 12 B09 incidental* n/a scavenged 05/16/2023 silver-haired bat 31 A05 carcass search 100-m road and pad carcass search dismembered dismembered scavenged 05/22/2023 silver-haired bat 3 C16 carcass search 100-m road and pad carcass search 100-m road and pad carcass search 100-m road and pad carcass search 00-m							
04/13/2023 astern red bat 40 B05 incidental* n/a infact 04/13/2023 silver-haired bat 20 B05 incidental* n/a intact 04/24/2023 silver-haired bat 45 B13 carcass search 100-m road and pad injured 05/08/2023 silver-haired bat 15 A08 carcass search 100-m road and pad injured 05/08/2023 silver-haired bat 15 A08 carcass search 100-m road and pad intact 05/10/2023 big brown bat 61 D07 carcass search 100-m road and pad intact 05/11/2023 big brown bat 61 D07 carcass search 100-m road and pad intact 05/11/2023 silver-haired bat 31 A05 carcass search 100-m road and pad dismembered 05/12/2023 silver-haired bat 3 C16 carcass search 100-m road and pad dismembered 05/22/2023 silver-haired bat 3 C16 carcass search 100-m road and pad scavenged 05/24/2023 silver-haired b						•	
04/13/2023 silver-haired bat 20 B05 incidental* n/a intact 04/24/2023 silver-haired bat 45 B13 carcass search*** 100-m road and pad injured 05/08/2023 eastern red bat 15 A08 carcass search 100-m road and pad injured 05/09/2023 eastern red bat 44 C09 carcass search 100-m road and pad injured 05/10/2023 big brown bat 61 D07 carcass search 100-m road and pad cavenged 05/15/2023 silver-haired bat 12 B09 incidental* n/a dismembered 05/15/2023 silver-haired bat 31 A05 carcass search 100-m road and pad cavenged 05/12/2023 eastern red bat 3 C16 carcass search 100-m road and pad scavenged 05/22/2023 eastern red bat 5 B14 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 20 C14 carcass search							-
04/24/2023 silver-haired bat 45 B13 carcass search*** 100-m road and pad scavenged injured 05/08/2023 seatern red bat 10 A05 carcass search 100-m road and pad pad pad pad pad pad pad pad pad pa							
05/08/2023 eastern red bat 10 A05 carcass search 100-m road and pad carcass search scavenged injured intact 05/08/2023 silver-haired bat 44 C09 carcass search 100-m road and pad injured intact intact 05/10/2023 big brown bat carcass search assembled big brown bat big brown							
05/08/2023 silver-haired bat 15 A08 carcass search 100-m road and pad injured intact 05/09/2023 eastern red bat 44 C09 carcass search 100-m road and pad intact 05/10/2023 big brown bat 61 D07 carcass search 100-m road and pad dismembered 05/15/2023 silver-haired bat 31 A05 carcass search 100-m road and pad dismembered 05/15/2023 silver-haired bat 13 D02 carcass search 100-m road and pad dismembered 05/17/2023 eastern red bat 3 C16 carcass search 100-m road and pad scavenged 05/17/2023 eastern red bat 5 B14 carcass search 100-m road and pad scavenged 05/22/2023 siver-haired bat 21 D01 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 20 C14 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 20 C14 carcass search 100-m road and pad scavenged 06/05/2023 si							•
05/09/2023 eastern red bat big brown bat 6f1 D07 carcass search 100-m road and pad carcavenged 05/11/2023 eastern red bat 12 B09 incidental* n/a dismembered 05/11/2023 silver-haired bat 31 A05 carcass search 100-m road and pad carcavenged 05/16/2023 silver-haired bat 13 D02 carcass search 100-m road and pad carcavenged 05/16/2023 silver-haired bat 13 D02 carcass search 100-m road and pad carcavenged 05/17/2023 eastern red bat 3 C16 carcass search 100-m road and pad scavenged 05/22/2023 eastern red bat 18 B12 carcass search 100-m road and pad scavenged 05/23/2023 eilver-haired bat 21 D01 carcass search 100-m road and pad scavenged 05/24/2023 eastern red bat 5 C19 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 20 C14 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 20 C14 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 0 C17 carcass search 100-m road and pad scavenged 06/05/2023 evening bat 0 C17 carcass search 100-m road and pad scavenged 06/05/2023 eilver-haired bat 5 A03 carcass search 100-m road and pad scavenged 06/06/2023 eilver-haired bat 5 A03 carcass search 100-m road and pad scavenged 06/07/2023 eilver-haired bat 27 B23 carcass search 100-m road and pad scavenged 06/07/2023 eilver-haired bat 27 B23 carcass search 100-m road and pad carcavenged 06/07/2023 eilver-haired bat 57 B05 carcass search 100-m road and pad dismembered 06/07/2023 eastern red bat 57 B05 carcass search 100-m road and pad carcavenged 06/27/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/202							· ·
05/10/2023 big brown bat 61 D07 carcass search 100-m road and pad (dismembered dismembered scavenged scavenged scavenged scavenged scavenged scavenged scavenged dismembered scavenged dismembered scavenged sca					carcass search		•
05/11/2023 eastern red bat 12 B09 incidental* n/a dismembered silver-haired bat 31 A05 carcass search 100-m road and pad scavenged 05/15/2023 silver-haired bat 3 D02 carcass search 100-m road and pad scavenged 05/17/2023 eastern red bat 3 C16 carcass search 100-m road and pad scavenged 05/22/2023 eastern red bat 5 B14 carcass search 100-m road and pad scavenged 05/22/2023 evening bat 18 B12 carcass search 100-m road and pad scavenged 05/23/2023 silver-haired bat 21 D01 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 21 D01 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 20 C14 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 20 C14 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 20 C17 carcass search 100-m road and pad scavenged 06/05/2023 silver-haired bat 9 B07 carcass search 100-m road and pad scavenged 06/05/2023 silver-haired bat 5 A03 carcass search 100-m road and pad scavenged 06/06/2023 evening bat 24 B04 carcass search 100-m road and pad scavenged 06/07/2023 eastern red bat 6 C16 carcass search 100-m road and pad scavenged 06/07/2023 silver-haired bat 27 B23 carcass search 100-m road and pad scavenged 06/07/2023 silver-haired bat 57 B05 carcass search 100-m road and pad intact 06/12/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/07/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/07/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/07/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/07/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/07/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 74 A07 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 75 B05 carcass search 100-m road and					carcass search		
05/15/2023 silver-haired bat 13 D02 carcass search 100-m road and pad dismembered 05/17/2023 eastern red bat 3 C16 carcass search 100-m road and pad scavenged 05/22/2023 eastern red bat 5 B14 carcass search 100-m road and pad scavenged 05/22/2023 evening bat 18 B12 carcass search 100-m road and pad scavenged 05/23/2023 silver-haired bat 21 D01 carcass search 100-m road and pad scavenged 05/24/2023 eastern red bat 5 C19 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 20 C14 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 20 C17 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 0 C17 carcass search 100-m road and pad scavenged 06/05/2023 eastern red bat 9 B07 carcass search 100-m road and pad scavenged 06/05/2023 eighter-haired bat 5 A03 carcass search 100-m road and pad scavenged 06/05/2023 evening bat 5 A03 carcass search 100-m road and pad scavenged 06/05/2023 evening bat 5 B04 carcass search 100-m road and pad scavenged 06/07/2023 eighter-haired bat 6 C16 carcass search 100-m road and pad scavenged 06/07/2023 silver-haired bat 6 C16 carcass search 100-m road and pad scavenged 06/07/2023 silver-haired bat 57 B05 carcass search 100-m road and pad inhact 106/19/2023 eastern red bat 9 D08 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 9 D08 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 9 D08 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 17 C01 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 17 C01 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 17 C01 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 28 A02 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 70 A07 carcass		•				•	· ·
05/16/2023 silver-haired bat astern red bat astern		eastern red bat			incidental*		
05/17/2023 eastern red bat		silver-haired bat			carcass search		· ·
05/22/2023 eastern red bat 05/22/2023 evening bat 18 B12 carcass search 100-m road and pad scavenged 05/23/2023 silver-haired bat 21 D01 carcass search 100-m road and pad scavenged 05/24/2023 eastern red bat 5 C19 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 05/24/2023 evening bat 05/24/2023 evening bat 05/24/2023 evening bat 06/05/2023 eastern red bat 06/05/2023 silver-haired bat 06/05/2023 silver-haired bat 06/05/2023 eastern red bat 06/07/2023 eastern red bat 07/03/2023 eastern red bat		silver-haired bat			carcass search		dismembered
05/22/2023 evening bat 05/23/2023 silver-haired bat 05/24/2023 eastern red bat 05/24/2023 evening bat 06/05/24/2023 evening bat 06/05/2023 eastern red bat 06/05/2023 silver-haired bat 06/05/2023 evening bat 06/05/2023 evening bat 06/05/2023 silver-haired bat 06/05/2023 eastern red bat 06/05/2023 eighter-haired bat 06/07/2023 eastern red bat 06/07/2023 eastern red bat 06/07/2023 eastern red bat 06/07/2023 silver-haired bat 06/07/2023 silver-haired bat 06/07/2023 silver-haired bat 06/07/2023 silver-haired bat 06/07/2023 eastern red bat 06/07/2023 eastern red bat 06/19/2023 eastern red bat 06/19/2023 eastern red bat 06/27/2023 eastern red bat 06/30/2023 eastern red bat 07/03/2023 eastern red bat		eastern red bat			carcass search	100-m road and pad	scavenged
05/23/2023 silver-haired bat 05/24/2023 eastern red bat 05/24/2023 evening bat 05/24/2023 evening bat 05/24/2023 evening bat 06/05/2023 eastern red bat 06/05/2023 silver-haired bat 06/05/2023 silver-haired bat 06/05/2023 evening bat 06/05/2023 silver-haired bat 06/05/2023 evening bat 06/05/2023 silver-haired bat 06/05/2023 silver-haired bat 06/05/2023 evening bat 06/05/2023 silver-haired bat 06/05/2023 silver-haired bat 06/07/2023 eastern red bat 06/07/2023 eastern red bat 06/07/2023 eastern red bat 06/07/2023 silver-haired bat 06/12/2023 eastern red bat 06/12/2023 eastern red bat 06/27/2023 eastern red bat 06/30/2023 eastern red bat 06/30/2023 eastern red bat 07/03/2023 eastern red bat		eastern red bat			carcass search	100-m road and pad	scavenged
05/24/2023 eastern red bat 05/24/2023 evening bat 20 C14 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 0 C17 carcass search 100-m road and pad scavenged 06/05/2023 eastern red bat 06/05/2023 silver-haired bat 06/06/2023 evening bat 06/07/2023 eastern red bat 06/07/2023 eastern red bat 06/07/2023 silver-haired bat 06/12/2023 silver-haired bat 06/12/2023 silver-haired bat 06/12/2023 silver-haired bat 06/12/2023 eastern red bat 06/27/2023 eastern red bat 06/30/2023 eastern red bat 07/03/2023 eastern red bat					carcass search		scavenged
05/24/2023 evening bat 20 C14 carcass search 100-m road and pad scavenged 05/24/2023 evening bat 0 C17 carcass search 100-m road and pad scavenged 06/05/2023 eastern red bat 9 B07 carcass search 100-m road and pad scavenged 06/05/2023 silver-haired bat 5 A03 carcass search 100-m road and pad scavenged 06/06/2023 evening bat 24 B04 carcass search 100-m road and pad scavenged 06/07/2023 eastern red bat 6 C16 carcass search 100-m road and pad scavenged 06/07/2023 silver-haired bat 27 B23 carcass search 100-m road and pad dismembered 06/12/2023 silver-haired bat 74 A07 carcass search 100-m road and pad dismembered 06/19/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 9 D08 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 17 C01 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 28 A02 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged	05/23/2023	silver-haired bat			carcass search		scavenged
05/24/2023 evening bat 0 C17 carcass search 100-m road and pad scavenged 06/05/2023 eastern red bat 9 B07 carcass search 100-m road and pad scavenged 06/05/2023 silver-haired bat 5 A03 carcass search 100-m road and pad scavenged 06/06/2023 evening bat 24 B04 carcass search 100-m road and pad scavenged 06/07/2023 eastern red bat 6 C16 carcass search 100-m road and pad dismembered 06/07/2023 silver-haired bat 27 B23 carcass search 100-m road and pad intact 06/12/2023 silver-haired bat 74 A07 carcass search 100-m road and pad dismembered 06/19/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 9 D08 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 17 C01 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 28 A02 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged scavenged scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged scavenged scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged scavenged	05/24/2023	eastern red bat			carcass search	100-m road and pad	scavenged
06/05/2023 eastern red bat 9 B07 carcass search 100-m road and pad scavenged 06/05/2023 silver-haired bat 5 A03 carcass search 100-m road and pad scavenged 06/06/2023 evening bat 24 B04 carcass search 100-m road and pad scavenged 06/07/2023 eastern red bat 6 C16 carcass search 100-m road and pad dismembered 06/07/2023 silver-haired bat 27 B23 carcass search 100-m road and pad intact 06/12/2023 silver-haired bat 74 A07 carcass search 100-m road and pad dismembered 06/19/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 9 D08 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 17 C01 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 28 A02 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged scavenged 07/03/2023 eastern red bat 100-m road and pad scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged	05/24/2023	evening bat	20	C14	carcass search	100-m road and pad	scavenged
06/05/2023 silver-haired bat 5 A03 carcass search 100-m road and pad scavenged 06/06/2023 evening bat 24 B04 carcass search 100-m road and pad scavenged 06/07/2023 eastern red bat 6 C16 carcass search 100-m road and pad dismembered 06/07/2023 silver-haired bat 27 B23 carcass search 100-m road and pad intact 06/12/2023 silver-haired bat 74 A07 carcass search 100-m road and pad dismembered 06/19/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 9 D08 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 17 C01 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 28 A02 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged	05/24/2023	evening bat	0	C17	carcass search	100-m road and pad	scavenged
06/06/2023 evening bat 06/07/2023 eastern red bat 06/07/2023 silver-haired bat 06/07/2023 silver-haired bat 06/12/2023 silver-haired bat 06/12/2023 silver-haired bat 06/12/2023 eastern red bat 06/19/2023 eastern red bat 06/19/2023 eastern red bat 06/27/2023 eastern red bat 06/30/2023 eastern red bat 07/03/2023 eastern red bat	06/05/2023	eastern red bat	9	B07	carcass search	100-m road and pad	scavenged
06/07/2023 eastern red bat 06/07/2023 silver-haired bat 27 B23 carcass search 100-m road and pad dismembered 100-m road and pad intact 100-m road and pad dismembered 100-m road and pad scavenged	06/05/2023	silver-haired bat	5	A03	carcass search	100-m road and pad	scavenged
06/07/2023 silver-haired bat 27 B23 carcass search 100-m road and pad intact 06/12/2023 silver-haired bat 74 A07 carcass search 100-m road and pad dismembered 06/19/2023 eastern red bat 57 B05 carcass search 100-m road and pad scavenged 06/27/2023 eastern red bat 9 D08 carcass search 100-m road and pad scavenged 06/30/2023 eastern red bat 17 C01 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 28 A02 carcass search 100-m road and pad scavenged 07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged	06/06/2023	evening bat	24	B04	carcass search	100-m road and pad	scavenged
06/12/2023silver-haired bat74A07carcass search100-m road and paddismembered06/19/2023eastern red bat57B05carcass search100-m road and padscavenged06/27/2023eastern red bat9D08carcass search100-m road and padscavenged06/30/2023eastern red bat17C01carcass search100-m road and padscavenged07/03/2023eastern red bat28A02carcass search100-m road and padscavenged07/03/2023eastern red bat70A07carcass search100-m road and padscavenged	06/07/2023	eastern red bat	6	C16	carcass search	100-m road and pad	dismembered
06/19/2023eastern red bat57B05carcass search100-m road and padscavenged06/27/2023eastern red bat9D08carcass search100-m road and padscavenged06/30/2023eastern red bat17C01carcass search100-m road and padscavenged07/03/2023eastern red bat28A02carcass search100-m road and padscavenged07/03/2023eastern red bat70A07carcass search100-m road and padscavenged	06/07/2023	silver-haired bat	27	B23	carcass search	100-m road and pad	intact
06/27/2023eastern red bat9D08carcass search100-m road and padscavenged06/30/2023eastern red bat17C01carcass search100-m road and padscavenged07/03/2023eastern red bat28A02carcass search100-m road and padscavenged07/03/2023eastern red bat70A07carcass search100-m road and padscavenged	06/12/2023	silver-haired bat	74	A07	carcass search	100-m road and pad	dismembered
06/30/2023eastern red bat17C01carcass search100-m road and padscavenged07/03/2023eastern red bat28A02carcass search100-m road and padscavenged07/03/2023eastern red bat70A07carcass search100-m road and padscavenged	06/19/2023	eastern red bat	57	B05	carcass search	100-m road and pad	scavenged
07/03/2023 eastern red bat 28 A02 carcass search 100-m road and pad scavenged 70 A07 carcass search 100-m road and pad scavenged	06/27/2023	eastern red bat	9	D08	carcass search	100-m road and pad	scavenged
07/03/2023 eastern red bat 70 A07 carcass search 100-m road and pad scavenged	06/30/2023	eastern red bat	17	C01	carcass search	100-m road and pad	scavenged
, ·	07/03/2023	eastern red bat	28	A02	carcass search	100-m road and pad	scavenged
,	07/03/2023	eastern red bat	70	A07	carcass search	•	_
	07/03/2023	eastern red bat	8	B06	carcass search	100-m road and pad	scavenged
07/05/2023 eastern red bat 12 C15 carcass search 100-m road and pad scavenged					carcass search		
07/10/2023 eastern red bat 18 A04 carcass search 100-m road and pad intact	07/10/2023	eastern red bat	18	A04	carcass search		
07/11/2023 eastern red bat 80 B23 carcass search 100-m road and pad dismembered		eastern red bat			carcass search	•	

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

		Distance from		-		
Found Date	•	Turbine (m)		Search Type	Search Area Type ¹	Physical Condition
07/19/2023	eastern red bat	35	A07	carcass search	100-m road and pad	intact
07/19/2023	eastern red bat	51	B11	carcass search**	100-m road and pad	scavenged
07/19/2023	eastern red bat	9	D01	carcass search	100-m road and pad	scavenged
07/19/2023	eastern red bat	10	D02	carcass search	100-m road and pad	scavenged
07/19/2023	eastern red bat	23	D04	carcass search	100-m road and pad	intact
07/19/2023	evening bat	15	A04	carcass search	100-m road and pad	intact
07/20/2023	eastern red bat	39	B02	carcass search	100-m road and pad	intact
07/20/2023	eastern red bat	25	C14	carcass search	100-m road and pad	scavenged
07/20/2023	eastern red bat	16	C14	carcass search	100-m road and pad	scavenged
07/20/2023	eastern red bat	20	C18	carcass search	100-m road and pad	intact
07/20/2023	hoary bat	50	B23	carcass search	100-m road and pad	dismembered
07/20/2023	hoary bat	31	C20	carcass search	100-m road and pad	scavenged
07/20/2023	unidentified Lasiurus bat	18	C17	carcass search	100-m road and pad	dismembered
07/25/2023	hoary bat	15	B06	carcass search	100-m road and pad	intact
07/27/2023	eastern red bat	27	B07	carcass search	100-m road and pad	scavenged
07/27/2023	eastern red bat	20	C17	carcass search	100-m road and pad	dismembered
07/27/2023	eastern red bat	34	C18	carcass search	100-m road and pad	scavenged
07/27/2023	eastern red bat	10	C19	carcass search	100-m road and pad	intact
07/27/2023	evening bat	21	D01	carcass search	100-m road and pad	scavenged
07/27/2023	hoary bat	27	C10	carcass search	100-m road and pad	scavenged
07/27/2023	hoary bat	1	C19	carcass search	100-m road and pad	scavenged
07/27/2023	hoary bat	22	C19	carcass search	100-m road and pad	scavenged
07/31/2023	eastern red bat	10	C11	carcass search	n/a	scavenged
07/31/2023	eastern red bat	15	C13	carcass search	n/a	scavenged
07/31/2023	eastern red bat	32	C16	incidental*	n/a	intact
07/31/2023	eastern red bat	12	C16	incidental*	n/a	intact
07/31/2023	eastern red bat	10	C17	incidental*	n/a	intact
07/31/2023	eastern red bat	20	C20	incidental*	n/a	scavenged
07/31/2023	eastern red bat	13	C21	incidental	n/a	scavenged
07/31/2023	hoary bat	49	D10	incidental*	n/a	intact
08/01/2023	eastern red bat	26	B04	carcass search	100-m road and pad	intact
08/01/2023	eastern red bat	16	B07	carcass search	100-m road and pad	scavenged
08/01/2023	eastern red bat	19	B14	carcass search	100-m road and pad	dismembered
08/01/2023	eastern red bat	48	C03	carcass search	100-m road and pad	scavenged
08/01/2023	eastern red bat	7	C03	carcass search	100-m road and pad	scavenged
08/01/2023	eastern red bat	8	C21	carcass search	100-m road and pad	scavenged

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

08/01/2023 existem red bat 08/01/2023 evening bat 16 B07 carcass search 100-m road and pad scavenged 08/01/2023 evening bat 49 D06 carcass search 60-m full plot scavenged 08/01/2023 broand batter 11 A01 carcass search 60-m full plot scavenged 08/02/2023 eastem red bat 11 A01 carcass search 60-m full plot scavenged 08/02/2023 eastem red bat 11 A01 carcass search 60-m full plot scavenged 08/02/2023 eastem red bat 11 A01 carcass search 70-m full plot scavenged 08/02/2023 eastem red bat 49 A04 carcass search 70-m full plot scavenged 08/02/2023 eastem red bat 49 A04 carcass search 70-m full plot scavenged 08/02/2023 eastem red bat 40 A05 carcass search 70-m full plot scavenged 08/02/2023 eastem red bat 66 A07 carcass search 70-m full plot scavenged 08/02/2023 eastem red bat 66 A07 carcass search 70-m full plot scavenged 08/02/2023 eastem red bat 66 B15 carcass search 70-m full plot scavenged 08/02/2023 eastem red bat 66 B15 carcass search 70-m full plot scavenged 08/02/2023 eastem red bat 26 B22 carcass search 70-m full plot scavenged 08/02/2023 eastem red bat 26 B22 carcass search 100-m road and pad dismembered 08/02/2023 eastem red bat 26 B22 carcass search 100-m road and pad dismembered 08/02/2023 eastem red bat 46 C06 carcass search 100-m road and pad dismembered 08/02/2023 eastem red bat 40 D04 carcass search 100-m road and pad dismembered 08/02/2023 eastem red bat 40 D04 carcass search 100-m road and pad intact 10-m road and pad intact 10-m road and pad 10-m road			Distance from				
08/01/2023 evening bat 49 D06 carcass search 60-m full plot scavenged 08/01/2023 by bat 36 A01 carcass search 60-m full plot scavenged 08/02/2023 gib prown bat 27 A06 carcass search 60-m full plot scavenged 08/02/2023 eastern red bat 11 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 49 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 49 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 4 A05 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 A07 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 B22 carcass search			Turbine (m)			Search Area Type ¹	Physical Condition
08/01/2023 evening bat 49 D06 carcass search 60-m full plot scavenged 08/02/2023 big brown bat 27 A06 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 11 A01 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 11 A01 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 49 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 4 A05 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 A07 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 A07 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 65 C02 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 65 C02 carcass search					_	•	
08/01/2023 big brown bat 36 A01 carcass search 70-m full plot scavenged 08/02/2023 big brown bat 27 A06 carcass search 60-m full plot dismembered 08/02/2023 eastern red bat 31 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 49 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 4 A05 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 A07 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 A07 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 66 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 65 C02 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 46 C06 carcass search <td></td> <td>· ·</td> <td></td> <td></td> <td></td> <td>•</td> <td></td>		· ·				•	
08/02/2023 big frown bat 27 A66 carcass search 60-m full plot dismembered 08/02/2023 eastern red bat 31 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 49 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 4 A05 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 A07 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 A07 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 65 C02 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 65 C02 carcass search 100-m road and pad dismembered 08/02/2023 eastern red bat 40 D04 carcass sea						•	_
08/02/2023 eastern red bat 11 A01 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 49 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 49 A04 carcass search 70-m full plot cavenged 08/02/2023 eastern red bat 6 A05 carcass search 70-m full plot cavenged 08/02/2023 eastern red bat 6 A07 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 60 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 66 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 65 C02 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 31 D08 carcass search<		•				•	•
08/02/2023 eastern red bat 31 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 49 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 4 A05 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 A07 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 60 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 66 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 65 C02 carcass search 100-m road and pad distact 08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass sea		•			_	•	
08/02/2023 eastern red bat 49 A04 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 4 A05 carcass search 70-m full plot dismembered 08/02/2023 eastern red bat 6 A07 carcass search 100-m road and pad scavenged 08/02/2023 eastern red bat 60 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 66 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 65 C02 carcass search 100-m road and pad dismembered 08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad dismembered 08/02/2023 hoary bat 45 A01 c						•	•
08/02/2023 eastern red bat 4 A05 carcass search 70-m full plot dismembered 08/02/2023 eastern red bat 6 A07 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 A07 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 66 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 26 B22 carcass search 100-m road and pad dismembered 08/02/2023 eastern red bat 65 C02 carcass search 100-m road and pad distact 08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 5 B21 carcass search 100-m road and pad dismembered 08/02/2023 hoary bat 45 A01 carca							_
08/02/2023 eastern red bat 4 A05 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 6 A07 carcass search 100-m road and pad scavenged 08/02/2023 eastern red bat 66 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 26 B22 carcass search 100-m road and pad dismembered 08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad dismembered 08/02/2023 eastern red bat 72 C17 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 72 C17 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 31 D08 carcass search 100-m road and pad intact 08/02/2023 evening bat 5 B21 carcass search 100-m road and pad intact 08/02/2023 hoary bat 45 A01 carcas					carcass search		
08/02/2023 eastern red bat 6 A07 carcass search 100-m road and pad scavenged 08/02/2023 eastern red bat 60 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 26 B22 carcass search 100-m road and pad dismembered 08/02/2023 eastern red bat 65 C02 carcass search 100-m road and pad dismembered 08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 31 D08 carcass search 100-m road and pad intact 08/02/2023 hoary bat 45 A01 carcass search 70-m full plot intact 08/02/2023 hoary bat 43 B07 carcass s					carcass search		dismembered
08/02/2023 eastern red bat 60 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 66 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 26 B22 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 evening bat 5 B21 carcass search 100-m road and pad carcass search 08/02/2023 hoary bat 45 A04 carcass search 70-m full plot scavenged 08/02/2023 hoary bat 43 B07 carcass search </td <td></td> <td></td> <td></td> <td></td> <td>carcass search</td> <td></td> <td><u> </u></td>					carcass search		<u> </u>
08/02/2023 eastern red bat 66 B15 carcass search 70-m full plot scavenged 08/02/2023 eastern red bat 26 B22 carcass search 100-m road and pad dismembered 08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad scavenged 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 45 A01 carcass search 100-m road and pad dismembered 08/02/2023 hoary bat 45 A01 carcass search 70-m full plot scavenged 08/02/2023 hoary bat 36 C06 carca		eastern red bat			carcass search		scavenged
08/02/2023 eastern red bat 26 B22 carcass search 100-m road and pad intact dismembered intact 08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad intact intact 08/02/2023 eastern red bat 72 C17 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 31 D08 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 31 D08 carcass search 100-m road and pad intact 08/02/2023 evening bat 5 B21 carcass search 100-m road and pad dismembered 08/02/2023 hoary bat 45 A01 carcass search 100-m road and pad dismembered 08/02/2023 hoary bat 45 A01 carcass search 100-m road and pad intact 08/02/2023 hoary bat 43 B07 carcass search 100-m road and pad intact 08/02/2023		eastern red bat			carcass search		_
08/02/2023 eastern red bat 65 C02 carcass search 100-m road and pad intact intact 08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad intact intact 08/02/2023 eastern red bat 72 C17 carcass search 100-m road and pad intact scavenged 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact scavenged 08/02/2023 eastern red bat 31 D08 carcass search 100-m road and pad intact scavenged 08/02/2023 evening bat 5 B21 carcass search 100-m road and pad dismembered dismembered 08/02/2023 hoary bat 45 A01 carcass search 70-m full plot scavenged 08/02/2023 hoary bat 43 B07 carcass search 100-m road and pad intact intact 08/02/2023 hoary bat 36 C06 carcass search 100-m road and pad intact intact 08/03/2023 eastern red bat					carcass search		
08/02/2023 eastern red bat 46 C06 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 72 C17 carcass search 100-m road and pad scavenged 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 31 D08 carcass search 100-m road and pad dismembered 08/02/2023 hoary bat 45 A01 carcass search 70-m full plot intact 08/02/2023 hoary bat 45 A04 carcass search 70-m full plot scavenged 08/02/2023 hoary bat 43 B07 carcass search 70-m full plot scavenged 08/02/2023 hoary bat 36 C06 carcass search 100-m road and pad intact 08/03/2023 eastern red bat 22 A07 carcass search 100-m road and pad intact 08/03/2023 eastern red bat 25 B15 carcass search		eastern red bat			carcass search		dismembered
08/02/2023 eastern red bat 72 C17 carcass search 100-m road and pad scavenged 08/02/2023 eastern red bat 40 D04 carcass search 100-m road and pad intact 08/02/2023 eastern red bat 31 D08 carcass search 100-m road and pad scavenged 08/02/2023 evening bat 5 B21 carcass search 100-m road and pad dismembered 08/02/2023 hoary bat 45 A01 carcass search 70-m full plot intact 08/02/2023 hoary bat 43 B07 carcass search 100-m road and pad intact 08/02/2023 hoary bat 43 B07 carcass search 100-m road and pad intact 08/02/2023 hoary bat 36 C06 carcass search 100-m road and pad intact 08/03/2023 eastern red bat 22 A07 carcass search 100-m road and pad intact 08/03/2023 eastern red bat 25 B15 carcass search					carcass search	100-m road and pad	intact
08/02/2023 eastern red bat 31 D08 carcass search 100-m road and pad scavenged 08/02/2023 evening bat 5 B21 carcass search 100-m road and pad dismembered 08/02/2023 hoary bat 45 A01 carcass search 70-m full plot scavenged 08/02/2023 hoary bat 45 A04 carcass search 100-m road and pad intact 08/02/2023 hoary bat 45 A04 carcass search 70-m full plot scavenged 08/02/2023 hoary bat 43 B07 carcass search 100-m road and pad intact 08/02/2023 hoary bat 36 C06 carcass search 100-m road and pad intact 08/02/2023 hoary bat 36 C06 carcass search 100-m road and pad intact 08/03/2023 eastern red bat 22 A07 carcass search 60-m full plot scavenged 08/03/2023 eastern red bat 66 A08 carcass search 100-m road and pad intact 08/03/2023 eastern red bat 25 B15 carcass search 100-m road and pad scavenged 08/03/2023 eastern red bat 25 B15 carcass search 70-m full plot intact 08/03/2023 eastern red bat 25 B15 carcass search 70-m full plot intact 08/03/2023 eastern red bat 25 B15 carcass search 70-m full plot intact 08/04/2023 eastern red bat 23 C17 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 23 C17 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact intact 08/04/2023 eastern red bat 56 D02 carcass search 60-m full plot intact inta	08/02/2023	eastern red bat	46	C06	carcass search	100-m road and pad	intact
08/02/2023eastern red bat31D08carcass search100-m road and padscavenged08/02/2023evening bat5B21carcass search100-m road and paddismembered08/02/2023hoary bat45A01carcass search70-m full plotintact08/02/2023hoary bat45A04carcass search70-m full plotscavenged08/02/2023hoary bat43B07carcass search100-m road and padintact08/02/2023hoary bat36C06carcass search100-m road and padintact08/03/2023hoary bat37C10carcass search60-m full plotscavenged08/03/2023eastern red bat22A07carcass search100-m road and padintact08/03/2023eastern red bat25B15carcass search100-m road and padintact08/03/2023hoary bat43A01carcass search70-m full plotintact08/03/2023hoary bat43A01carcass search70-m full plotintact08/04/2023eastern red bat5A07carcass search100-m road and padintact08/04/2023eastern red bat19B10carcass search100-m road and padintact08/04/2023eastern red bat23C14carcass search100-m road and padintact08/04/2023eastern red bat33C17carcass search60-m full plotintact<	08/02/2023	eastern red bat	72		carcass search	100-m road and pad	scavenged
08/02/2023 evening bat 5 B21 carcass search 100-m road and pad intact dismembered 08/02/2023 hoary bat 45 A01 carcass search 70-m full plot intact 08/02/2023 hoary bat 45 A04 carcass search 70-m full plot scavenged 08/02/2023 hoary bat 43 B07 carcass search 100-m road and pad intact 08/02/2023 hoary bat 36 C06 carcass search 100-m road and pad intact 08/02/2023 hoary bat 37 C10 carcass search 60-m full plot scavenged 08/03/2023 eastern red bat 22 A07 carcass search 100-m road and pad intact 08/03/2023 eastern red bat 25 B15 carcass search 100-m road and pad intact 08/03/2023 hoary bat 43 A01 carcass search 70-m full plot intact 08/03/2023 hoary bat 43 A01 carcass search 70-m full plot intact 08/04/2023	08/02/2023	eastern red bat	-	D04	carcass search	100-m road and pad	intact
08/02/2023hoary bat45A01carcass search70-m full plotintact08/02/2023hoary bat45A04carcass search70-m full plotscavenged08/02/2023hoary bat43B07carcass search100-m road and padintact08/02/2023hoary bat36C06carcass search100-m road and padintact08/03/2023hoary bat37C10carcass search60-m full plotscavenged08/03/2023eastern red bat22A07carcass search100-m road and padintact08/03/2023eastern red bat66A08carcass search100-m road and padscavenged08/03/2023eastern red bat25B15carcass search70-m full plotintact08/04/2023eastern red bat43A01carcass search70-m full plotintact08/04/2023eastern red bat5A07carcass search100-m road and padintact08/04/2023eastern red bat19B10carcass search100-m road and padintact08/04/2023eastern red bat23C14carcass search100-m road and padintact08/04/2023eastern red bat33C17carcass search100-m road and padintact08/04/2023eastern red bat36D02carcass search60-m full plotintact08/04/2023eastern red bat56D02carcass search60-m full plotinta	08/02/2023	eastern red bat	31	D08	carcass search	100-m road and pad	scavenged
08/02/2023hoary bat45A04carcass search70-m full plotscavenged08/02/2023hoary bat43B07carcass search100-m road and padintact08/02/2023hoary bat36C06carcass search100-m road and padintact08/02/2023hoary bat37C10carcass search60-m full plotscavenged08/03/2023eastern red bat22A07carcass search100-m road and padintact08/03/2023eastern red bat66A08carcass search100-m road and padscavenged08/03/2023eastern red bat25B15carcass search70-m full plotintact08/03/2023hoary bat43A01carcass search70-m full plotintact08/04/2023eastern red bat5A07carcass search100-m road and padintact08/04/2023eastern red bat19B10carcass search100-m road and padintact08/04/2023eastern red bat23C14carcass search100-m road and padintact08/04/2023eastern red bat33C17carcass search100-m road and padintact08/04/2023eastern red bat56D02carcass search60-m full plotintact08/04/2023eastern red bat30D06carcass search60-m full plotintact	08/02/2023	evening bat	5	B21	carcass search	100-m road and pad	dismembered
08/02/2023hoary bat43B07carcass search100-m road and padintact08/02/2023hoary bat36C06carcass search100-m road and padintact08/02/2023hoary bat37C10carcass search60-m full plotscavenged08/03/2023eastern red bat22A07carcass search100-m road and padintact08/03/2023eastern red bat66A08carcass search100-m road and padscavenged08/03/2023eastern red bat25B15carcass search70-m full plotintact08/03/2023hoary bat43A01carcass search70-m full plotintact08/04/2023eastern red bat5A07carcass search100-m road and padintact08/04/2023eastern red bat19B10carcass search100-m road and padintact08/04/2023eastern red bat23C14carcass search100-m road and padintact08/04/2023eastern red bat33C17carcass search100-m road and padintact08/04/2023eastern red bat56D02carcass search60-m full plotintact08/04/2023eastern red bat30D06carcass search60-m full plotintact	08/02/2023	hoary bat	45	A01	carcass search	70-m full plot	intact
08/02/2023hoary bat36C06carcass search100-m road and padintact08/02/2023hoary bat37C10carcass search60-m full plotscavenged08/03/2023eastern red bat22A07carcass search100-m road and padintact08/03/2023eastern red bat66A08carcass search100-m road and padscavenged08/03/2023eastern red bat25B15carcass search70-m full plotintact08/04/2023eastern red bat43A01carcass search70-m full plotintact08/04/2023eastern red bat5A07carcass search100-m road and padintact08/04/2023eastern red bat19B10carcass search100-m road and padintact08/04/2023eastern red bat23C14carcass search100-m road and padintact08/04/2023eastern red bat33C17carcass search100-m road and padintact08/04/2023eastern red bat56D02carcass search60-m full plotintact08/04/2023eastern red bat30D06carcass search60-m full plotintact	08/02/2023	hoary bat	45	A04	carcass search	70-m full plot	scavenged
08/02/2023hoary bat37C10carcass search60-m full plotscavenged08/03/2023eastern red bat22A07carcass search100-m road and padintact08/03/2023eastern red bat66A08carcass search100-m road and padscavenged08/03/2023eastern red bat25B15carcass search70-m full plotintact08/03/2023hoary bat43A01carcass search70-m full plotintact08/04/2023eastern red bat5A07carcass search100-m road and padintact08/04/2023eastern red bat19B10carcass search100-m road and padintact08/04/2023eastern red bat23C14carcass search100-m road and padintact08/04/2023eastern red bat33C17carcass search100-m road and padintact08/04/2023eastern red bat56D02carcass search60-m full plotintact08/04/2023eastern red bat30D06carcass search60-m full plotintact	08/02/2023	hoary bat	43	B07	carcass search	100-m road and pad	intact
08/02/2023hoary bat37C10carcass search60-m full plotscavenged08/03/2023eastern red bat22A07carcass search100-m road and padintact08/03/2023eastern red bat66A08carcass search100-m road and padscavenged08/03/2023eastern red bat25B15carcass search70-m full plotintact08/03/2023hoary bat43A01carcass search70-m full plotintact08/04/2023eastern red bat5A07carcass search100-m road and padintact08/04/2023eastern red bat19B10carcass search100-m road and padintact08/04/2023eastern red bat23C14carcass search100-m road and padintact08/04/2023eastern red bat33C17carcass search100-m road and padintact08/04/2023eastern red bat56D02carcass search60-m full plotintact08/04/2023eastern red bat30D06carcass search60-m full plotintact	08/02/2023	hoary bat	36	C06	carcass search	100-m road and pad	intact
08/03/2023 eastern red bat 25 B15 carcass search 70-m full plot intact 08/03/2023 hoary bat 43 A01 carcass search 70-m full plot intact 08/04/2023 eastern red bat 5 A07 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 19 B10 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 23 C14 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 30 D06 carcass search 60-m full plot intact intact intact	08/02/2023	hoary bat	37	C10	carcass search		scavenged
08/03/2023 eastern red bat 08/03/2023 hoary bat 43 A01 carcass search 08/04/2023 eastern red bat	08/03/2023	eastern red bat	22	A07	carcass search	100-m road and pad	intact
08/03/2023 hoary bat 43 A01 carcass search 70-m full plot intact 08/04/2023 eastern red bat 5 A07 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 19 B10 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 23 C14 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 56 D02 carcass search 60-m full plot intact 08/04/2023 eastern red bat 30 D06 carcass search 60-m full plot intact	08/03/2023	eastern red bat	66	A08	carcass search	100-m road and pad	scavenged
08/04/2023 eastern red bat 5 A07 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 19 B10 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 23 C14 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact 108/04/2023 eastern red bat 56 D02 carcass search 60-m full plot intact 108/04/2023 eastern red bat 30 D06 carcass search 60-m full plot intact 108/04/2023 eastern red bat 100-m road and pad intact 108/04/2023 eastern red bat 109-m road and pad intact 108/04/2023 eastern red bat 109-m road and pad intact 108/04/2023 eastern red bat 109-m road and pad intact 108/04/2023 eastern red bat 109-m road and pad intact 109-m road and pad intact 108/04/2023 eastern red bat 109-m road and pad intact 108/04/2023 eastern red bat 109-m road and pad intact 108/04/2023 eastern red bat 109-m road and pad intact 108/04/2023 eastern red bat 109-m road and pad intact 108/04/2023 eastern red bat 109-m road and pad intact 108/04/2023	08/03/2023	eastern red bat	25	B15	carcass search	70-m full plot	intact
08/04/2023 eastern red bat 19 B10 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 23 C14 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact 108/04/2023 eastern red bat 56 D02 carcass search 60-m full plot intact 108/04/2023 eastern red bat 30 D06 carcass search 60-m full plot intact 108/04/2023 eastern red bat 100-m road and pad intact 108/04/2023 eastern red bat 100-m road and pad intact 108/04/2023 eastern red bat 100-m road and pad intact 108/04/2023 eastern red bat 100-m road and pad intact 108/04/2023 eastern red bat 100-m road and pad intact 108/04/2023 eastern red bat 100-m road and pad intact 108/04/2023 eastern red bat 100-m road and pad intact 108/04/2023 eastern red bat 109-m road and pad intact 108	08/03/2023	hoary bat	43	A01	carcass search	70-m full plot	intact
08/04/2023 eastern red bat 19 B10 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 23 C14 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 56 D02 carcass search 60-m full plot intact 08/04/2023 eastern red bat 30 D06 carcass search 60-m full plot intact	08/04/2023	eastern red bat	5	A07	carcass search	100-m road and pad	intact
08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 56 D02 carcass search 60-m full plot intact 08/04/2023 eastern red bat 30 D06 carcass search 60-m full plot intact	08/04/2023	eastern red bat	19	B10	carcass search		intact
08/04/2023 eastern red bat 33 C17 carcass search 100-m road and pad intact 08/04/2023 eastern red bat 56 D02 carcass search 60-m full plot intact 08/04/2023 eastern red bat 30 D06 carcass search 60-m full plot intact	08/04/2023	eastern red bat	23	C14	carcass search	100-m road and pad	intact
08/04/2023 eastern red bat 56 D02 carcass search 60-m full plot intact 08/04/2023 eastern red bat 30 D06 carcass search 60-m full plot intact	08/04/2023	eastern red bat	33	C17	_	•	
08/04/2023 eastern red bat 30 D06 carcass search 60-m full plot intact	08/04/2023	eastern red bat	56	D02	carcass search	•	intact
· ·		eastern red bat		D06	carcass search	•	
U8/U4/ZUZ3 eastern red pat 44 DTU Carcass search 60-m full plot scavenged	08/04/2023	eastern red bat	44	D10	carcass search	60-m full plot	scavenged

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Found DateSpeciesTurbine (m)TurbineSearch TypeSearch Area Type¹Physical08/04/2023evening bat9C21carcass search100-m road and padintact08/04/2023hoary bat56D10carcass search60-m full plotscavenge	Condition ed
·	ed
08/04/2023 hoary bat 56 D10 carcass search 60-m full plot scavenge	ed
· · · · · · · · · · · · · · · · · · ·	
08/07/2023 eastern red bat 23 A01 carcass search 70-m full plot scavenge	ed
08/07/2023 eastern red bat 29 A02 carcass search 100-m road and pad scavenge	ed
08/07/2023 eastern red bat 66 A04 carcass search 70-m full plot intact	
08/07/2023 eastern red bat 27 C04 carcass search 60-m full plot intact	
08/07/2023 eastern red bat 11 C06 carcass search 100-m road and pad intact	
08/07/2023 eastern red bat 29 C11 carcass search 100-m road and pad intact	
08/07/2023 eastern red bat 31 C18 carcass search 70-m full plot scavenge	ed
08/07/2023 eastern red bat 35 C18 carcass search 70-m full plot scavenge	ed
08/07/2023 eastern red bat 26 C19 carcass search 100-m road and pad scavenge	ed
08/08/2023 eastern red bat 36 B15 carcass search 70-m full plot scavenge	ed
08/08/2023 eastern red bat 31 B15 carcass search 70-m full plot dismemb	ered
08/08/2023 eastern red bat 62 C10 carcass search 60-m full plot intact	
08/09/2023 eastern red bat 17 A04 carcass search 70-m full plot intact	
08/10/2023 big brown bat 31 B01 carcass search 60-m full plot scavenge	ed
08/10/2023 eastern red bat 14 B15 carcass search 70-m full plot scavenge	ed
08/10/2023 eastern red bat 17 B15 carcass search 70-m full plot intact	
08/10/2023 eastern red bat 16 B23 carcass search 100-m road and pad intact	
08/11/2023 big brown bat 30 A01 carcass search 70-m full plot scavenge	ed
08/11/2023 big brown bat 12 D08 carcass search 100-m road and pad scavenge	ed
08/11/2023 evening bat 29 A01 carcass search 70-m full plot scavenge	ed
08/11/2023 hoary bat 37 A01 carcass search 70-m full plot scavenge	ed
08/11/2023 hoary bat 65 A04 carcass search 70-m full plot scavenge	ed
08/12/2023 eastern red bat 3 C01 carcass search 60-m full plot scavenge	ed
08/12/2023 eastern red bat 55 C01 carcass search 60-m full plot scavenge	ed
08/12/2023 eastern red bat 59 C02 carcass search 100-m road and pad intact	
08/14/2023 big brown bat 35 A02 carcass search 100-m road and pad scavenge	ed
08/14/2023 big brown bat 22 A04 carcass search 70-m full plot intact	
08/14/2023 eastern red bat 84 A02 carcass search 100-m road and pad scavenge	ed
08/14/2023 eastern red bat 6 A03 carcass search 100-m road and pad scavenge	
08/14/2023 eastern red bat 36 B06 carcass search 100-m road and pad intact	
08/14/2023 eastern red bat 60 B08 carcass search 100-m road and pad intact	
08/14/2023 eastern red bat 9 B11 carcass search 100-m road and pad scavenge	ed
08/14/2023 eastern red bat 17 C01 carcass search 60-m full plot scavenge	
08/14/2023 eastern red bat 5 C03 carcass search 100-m road and pad scavenge	

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

		Distance from		-		
Found Date		Turbine (m)		Search Type	Search Area Type ¹	Physical Condition
08/14/2023	eastern red bat	38	C13	carcass search	100-m road and pad	intact
08/14/2023	eastern red bat	59	C21	carcass search	100-m road and pad	scavenged
08/14/2023	eastern red bat	23	D07	carcass search	100-m road and pad	intact
08/14/2023	evening bat	33	C01	carcass search	60-m full plot	scavenged
08/14/2023	evening bat	8	C16	carcass search	100-m road and pad	scavenged
08/14/2023	evening bat	29	D07	carcass search	100-m road and pad	scavenged
08/14/2023	hoary bat	42	A02	carcass search	100-m road and pad	intact
08/14/2023	hoary bat	0	B03	carcass search	100-m road and pad	scavenged
08/14/2023	hoary bat	29	C03	carcass search	100-m road and pad	scavenged
08/14/2023	hoary bat	16	C14	carcass search	100-m road and pad	scavenged
08/15/2023	big brown bat	5	C11	carcass search	100-m road and pad	intact
08/15/2023	eastern red bat	63	A02	carcass search**	100-m road and pad	intact
08/15/2023	eastern red bat	24	A02	carcass search	100-m road and pad	intact
08/15/2023	eastern red bat	40	B08	carcass search	100-m road and pad	intact
08/15/2023	eastern red bat	6	B14	carcass search	100-m road and pad	intact
08/15/2023	eastern red bat	56	C06	carcass search	100-m road and pad	intact
08/15/2023	eastern red bat	8	C06	carcass search	100-m road and pad	scavenged
08/15/2023	eastern red bat	26	C09	carcass search	100-m road and pad	intact
08/15/2023	eastern red bat	23	C19	carcass search	100-m road and pad	intact
08/15/2023	eastern red bat	18	D02	carcass search	60-m full plot	scavenged
08/15/2023	evening bat	30	C21	carcass search	100-m road and pad	intact
08/16/2023	big brown bat	29	A08	carcass search	100-m road and pad	intact
08/16/2023	eastern red bat	5	A02	carcass search	100-m road and pad	scavenged
08/16/2023	eastern red bat	5	D05	carcass search	100-m road and pad	intact
08/17/2023	eastern red bat	36	B01	carcass search	60-m full plot	scavenged
08/17/2023	eastern red bat	28	D02	carcass search	60-m full plot	scavenged
08/18/2023	eastern red bat	6	A08	carcass search	100-m road and pad	intact
08/18/2023	eastern red bat	59	C20	carcass search	100-m road and pad	intact
08/18/2023	eastern red bat	12	D10	carcass search	60-m full plot	scavenged
08/21/2023	big brown bat	14	B24	carcass search	70-m full plot	scavenged
08/21/2023	big brown bat	24	D04	carcass search	100-m road and pad	dismembered
08/21/2023	eastern red bat	32	A01	carcass search	70-m full plot	scavenged
08/21/2023	eastern red bat	4	A01	carcass search	70-m full plot	scavenged
08/21/2023	eastern red bat	36	A02	carcass search	100-m road and pad	intact
08/21/2023	eastern red bat	21	A04	carcass search	70-m full plot	scavenged
08/21/2023	eastern red bat	21	A07	carcass search	100-m road and pad	intact

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Name			Distance from				DI 1 10 III
08/21/2023 eastern red bat 44 B06 carcass search 100-m road and pad scavenged 08/21/2023 eastern red bat 54 B15 carcass search 70-m full plot intact 08/21/2023 eastern red bat 37 B15 carcass search 70-m full plot intact 08/21/2023 eastern red bat 40 B24 carcass search 70-m full plot intact 08/21/2023 eastern red bat 39 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 6 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 63 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 63 B24 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 71 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 14 D02 carcass search <th></th> <th></th> <th>Turbine (m)</th> <th></th> <th></th> <th>Search Area Type¹</th> <th>Physical Condition</th>			Turbine (m)			Search Area Type ¹	Physical Condition
08/21/2023 eastern red bat 44 B06 carcass search 100-m road and pad scavenged intact sastern red bat sastern red ba			•			•	
08/21/2023 eastern red bat 54 B15 carcass search 70-m full plot intact 08/21/2023 eastern red bat 37 B15 carcass search 70-m full plot intact 08/21/2023 eastern red bat 40 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 39 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 6 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 63 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 32 C05 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 32 C05 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 D10 carcass search <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td>						•	
08/21/2023 eastern red bat 37 B15 carcass search 70-m full plot intact 08/21/2023 eastern red bat 40 B24 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 39 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 6 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 63 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 32 C05 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 20 C11 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 D10 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 14 D02 carcass sear						•	_
08/21/2023 eastern red bat 53 B23 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 39 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 6 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 6 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 32 C05 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 20 C11 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot scavenged 08/21/2023 eastern red bat 63 D10 carcass search 100-m road and pad intact 08/21/2023 bayening bat 28 B11 carcass searc						•	
08/21/2023 eastern red bat 40 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 6 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 63 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 32 C05 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 20 C11 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot scavenged 08/21/2023 eastern red bat 40 B24 carcass search 100-m road and pad intact 08/21/2023 hoary bat 32 B02 carcass search </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
08/21/2023 eastern red bat 39 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 63 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 32 C05 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 20 C11 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 71 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 C13 carcass search 60-m full plot scavenged 08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot intact 08/21/2023 boary bat 32 B02 carcass search 100-m road and pad intact 08/21/2023 hoary bat 40 B24 carcass search						•	
08/21/2023 eastern red bat 6 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 63 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 32 C05 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 20 C11 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 C13 carcass search 60-m full plot scavenged 08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot intact 08/21/2023 boary bat 28 B11 carcass search 60-m full plot intact 08/21/2023 hoary bat 32 B02 carcass search 100-m road and pad intact 08/21/2023 hoary bat 31 C18 carcass search 70					_		
08/21/2023 eastern red bat 63 B24 carcass search 70-m full plot scavenged 08/21/2023 eastern red bat 32 C05 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 20 C11 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot scavenged 08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot scavenged 08/21/2023 hoary bat 28 B11 carcass search 100-m road and pad intact 08/21/2023 hoary bat 9 C13 carcass search 100-m road and pad intact 08/21/2023 hoary bat 26 C20 carcass search							
08/21/2023 eastern red bat 32 C05 carcass search 100-m road and pad intact i							
08/21/2023 eastern red bat 20 C11 carcass search 100-m road and pad intact intact 08/21/2023 eastern red bat 71 C13 carcass search 100-m road and pad intact intact 08/21/2023 eastern red bat 63 C13 carcass search 60-m full plot scavenged 08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot scavenged 08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot intact 08/21/2023 evening bat 28 B11 carcass search 60-m full plot intact 08/21/2023 hoary bat 32 B02 carcass search 100-m road and pad intact 08/21/2023 hoary bat 9 C13 carcass search 100-m road and pad intact 08/21/2023 hoary bat 26 C20 carcass search 100-m road and pad intact 08/22/2023 hoary bat 34 B14 carcass search <					carcass search		•
08/21/2023 eastern red bat 71 C13 carcass search 100-m road and pad intact intact 08/21/2023 eastern red bat 63 C13 carcass search 100-m road and pad intact intact 08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot scavenged 08/21/2023 evening bat 28 B11 carcass search 100-m road and pad intact 08/21/2023 hoary bat 32 B02 carcass search 100-m road and pad intact 08/21/2023 hoary bat 32 B02 carcass search 70-m full plot intact 08/21/2023 hoary bat 9 C13 carcass search 100-m road and pad intact 08/21/2023 hoary bat 31 C18 carcass search 70-m full plot intact 08/21/2023 hoary bat 34 B14 carcass search 100-m road and pad intact 08/22/2023 big brown bat 5 C14 carcass search 100-m					carcass search		
08/21/2023 eastern red bat 63 C13 carcass search 100-m road and pad intact 08/21/2023 eastern red bat 14 D02 carcass search 60-m full plot scavenged 08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot intact 08/21/2023 evening bat 28 B11 carcass search 100-m road and pad intact 08/21/2023 hoary bat 32 B02 carcass search 100-m road and pad intact 08/21/2023 hoary bat 40 B24 carcass search 70-m full plot scavenged 08/21/2023 hoary bat 9 C13 carcass search 100-m road and pad intact 08/21/2023 hoary bat 26 C20 carcass search 100-m road and pad intact 08/22/2023 lndiana bat 6 B08 carcass search 100-m road and pad intact 08/22/2023 big brown bat 34 B14 carcass search 100-m road and						•	
08/21/2023 eastern red bat 14 D02 carcass search 60-m full plot scavenged 08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot intact 08/21/2023 evening bat 28 B11 carcass search 100-m road and pad intact 08/21/2023 hoary bat 32 B02 carcass search 100-m road and pad intact 08/21/2023 hoary bat 9 C13 carcass search 70-m full plot scavenged 08/21/2023 hoary bat 31 C18 carcass search 100-m road and pad intact 08/21/2023 hoary bat 26 C20 carcass search 100-m road and pad intact 08/21/2023 big brown bat 34 B14 carcass search 100-m road and pad intact 08/22/2023 big brown bat 5 C14 carcass search 100-m road and pad intact 08/22/2023 eastern red bat 6 A07 incidental 100-m road and pa					carcass search		
08/21/2023 eastern red bat 63 D10 carcass search 60-m full plot intact 08/21/2023 evening bat 28 B11 carcass search 100-m road and pad intact 08/21/2023 hoary bat 32 B02 carcass search 100-m road and pad intact 08/21/2023 hoary bat 9 C13 carcass search 70-m full plot scavenged 08/21/2023 hoary bat 31 C18 carcass search 100-m road and pad intact 08/21/2023 hoary bat 26 C20 carcass search 100-m road and pad intact 08/22/2023 lodiana bat 6 B08 carcass search 100-m road and pad intact 08/22/2023 big brown bat 34 B14 carcass search 100-m road and pad intact 08/22/2023 big brown bat 5 C14 carcass search 100-m road and pad intact 08/22/2023 eastern red bat 6 A07 incidental 100-m road and pad <td></td> <td></td> <td></td> <td></td> <td>carcass search</td> <td></td> <td></td>					carcass search		
08/21/2023evening bat28B11carcass search100-m road and padintact08/21/2023hoary bat32B02carcass search100-m road and padintact08/21/2023hoary bat40B24carcass search70-m full plotscavenged08/21/2023hoary bat9C13carcass search100-m road and padintact08/21/2023hoary bat31C18carcass search70-m full plotintact08/21/2023hoary bat26C20carcass search100-m road and padintact08/22/2023Indiana bat6B08carcass search100-m road and padintact08/22/2023big brown bat34B14carcass search100-m road and padintact08/22/2023big brown bat5C14carcass search100-m road and padintact08/22/2023eastern red bat9A07incidental100-m road and padintact08/22/2023eastern red bat6A07incidental100-m road and padintact08/22/2023eastern red bat11B05carcass search100-m road and padintact08/22/2023eastern red bat27B24carcass search70-m full plotscavenged08/22/2023eastern red bat21B24carcass search70-m full plotscavenged08/22/2023eastern red bat21B24carcass search100-m road and padintact					carcass search		scavenged
08/21/2023 hoary bat 32 B02 carcass search 100-m road and pad intact 08/21/2023 hoary bat 40 B24 carcass search 70-m full plot scavenged 08/21/2023 hoary bat 9 C13 carcass search 100-m road and pad intact 08/21/2023 hoary bat 26 C20 carcass search 100-m road and pad intact 08/22/2023 Indiana bat 6 B08 carcass search 100-m road and pad intact 08/22/2023 big brown bat 34 B14 carcass search 100-m road and pad intact 08/22/2023 big brown bat 5 C14 carcass search 100-m road and pad intact 08/22/2023 eastern red bat 9 A07 incidental 100-m road and pad intact 08/22/2023 eastern red bat 6 A07 incidental 100-m road and pad intact 08/22/2023 eastern red bat 11 B05 carcass search 100-m road and pad		eastern red bat			carcass search		intact
08/21/2023hoary bat40B24carcass search70-m full plotscavenged08/21/2023hoary bat9C13carcass search100-m road and padintact08/21/2023hoary bat31C18carcass search70-m full plotintact08/22/2023hoary bat26C20carcass search100-m road and padintact08/22/2023Indiana bat6B08carcass search100-m road and padintact08/22/2023big brown bat34B14carcass search100-m road and padintact08/22/2023big brown bat5C14carcass search100-m road and padintact08/22/2023eastern red bat9A07incidental100-m road and padintact08/22/2023eastern red bat6A07incidental100-m road and padintact08/22/2023eastern red bat11B05carcass search100-m road and padintact08/22/2023eastern red bat66B08carcass search100-m road and padintact08/22/2023eastern red bat14B15carcass search70-m full plotscavenged08/22/2023eastern red bat21B24carcass search70-m full plotscavenged08/22/2023eastern red bat8B25carcass search100-m road and padintact08/22/2023eastern red bat8B25carcass search60-m full plotintact<					carcass search		
08/21/2023hoary bat9C13carcass search100-m road and padintact08/21/2023hoary bat31C18carcass search70-m full plotintact08/21/2023hoary bat26C20carcass search100-m road and padintact08/22/2023lndiana bat6B08carcass search100-m road and padintact08/22/2023big brown bat34B14carcass search100-m road and padintact08/22/2023big brown bat5C14carcass search100-m road and padintact08/22/2023eastern red bat9A07incidental100-m road and padintact08/22/2023eastern red bat6A07incidental100-m road and padintact08/22/2023eastern red bat11B05carcass search100-m road and padintact08/22/2023eastern red bat66B08carcass search100-m road and padintact08/22/2023eastern red bat14B15carcass search70-m full plotscavenged08/22/2023eastern red bat21B24carcass search70-m full plotscavenged08/22/2023eastern red bat8B25carcass search100-m road and padintact08/22/2023eastern red bat44C01carcass search60-m full plotintact08/22/2023eastern red bat36C07carcass search100-m road and padinta					carcass search		
08/21/2023hoary bat31C18carcass search70-m full plotintact08/21/2023hoary bat26C20carcass search100-m road and padintact08/22/2023Indiana bat6B08carcass search100-m road and padintact08/22/2023big brown bat34B14carcass search100-m road and padintact08/22/2023big brown bat5C14carcass search100-m road and padintact08/22/2023eastern red bat9A07incidental100-m road and padintact08/22/2023eastern red bat6A07incidental100-m road and padintact08/22/2023eastern red bat11B05carcass search100-m road and padintact08/22/2023eastern red bat66B08carcass search100-m road and padintact08/22/2023eastern red bat14B15carcass search70-m full plotscavenged08/22/2023eastern red bat27B24carcass search70-m full plotscavenged08/22/2023eastern red bat8B25carcass search100-m road and padintact08/22/2023eastern red bat44C01carcass search60-m full plotintact08/22/2023eastern red bat36C07carcass search100-m road and padintact		•			carcass search		•
08/21/2023hoary bat26C20carcass search100-m road and padintact08/22/2023Indiana bat6B08carcass search100-m road and padintact08/22/2023big brown bat34B14carcass search100-m road and padintact08/22/2023big brown bat5C14carcass search100-m road and padintact08/22/2023eastern red bat9A07incidental100-m road and padintact08/22/2023eastern red bat6A07incidental100-m road and padintact08/22/2023eastern red bat11B05carcass search100-m road and padintact08/22/2023eastern red bat66B08carcass search100-m road and padintact08/22/2023eastern red bat14B15carcass search70-m full plotscavenged08/22/2023eastern red bat27B24carcass search70-m full plotscavenged08/22/2023eastern red bat21B24carcass search70-m full plotscavenged08/22/2023eastern red bat8B25carcass search100-m road and padintact08/22/2023eastern red bat44C01carcass search60-m full plotintact08/22/2023eastern red bat36C07carcass search100-m road and padintact					carcass search		intact
08/22/2023Indiana bat6B08carcass search100-m road and padintact08/22/2023big brown bat34B14carcass search100-m road and padintact08/22/2023big brown bat5C14carcass search100-m road and padintact08/22/2023eastern red bat9A07incidental100-m road and padintact08/22/2023eastern red bat6A07incidental100-m road and padintact08/22/2023eastern red bat11B05carcass search100-m road and padintact08/22/2023eastern red bat66B08carcass search100-m road and padintact08/22/2023eastern red bat14B15carcass search70-m full plotscavenged08/22/2023eastern red bat27B24carcass search70-m full plotscavenged08/22/2023eastern red bat21B24carcass search70-m full plotscavenged08/22/2023eastern red bat8B25carcass search100-m road and padintact08/22/2023eastern red bat44C01carcass search60-m full plotintact08/22/2023eastern red bat36C07carcass search100-m road and padintact					carcass search	•	intact
08/22/2023big brown bat34B14carcass search100-m road and padintact08/22/2023big brown bat5C14carcass search100-m road and padintact08/22/2023eastern red bat9A07incidental100-m road and padintact08/22/2023eastern red bat6A07incidental100-m road and padintact08/22/2023eastern red bat11B05carcass search100-m road and padintact08/22/2023eastern red bat66B08carcass search100-m road and padintact08/22/2023eastern red bat14B15carcass search70-m full plotscavenged08/22/2023eastern red bat27B24carcass search70-m full plotscavenged08/22/2023eastern red bat21B24carcass search70-m full plotscavenged08/22/2023eastern red bat8B25carcass search100-m road and padintact08/22/2023eastern red bat44C01carcass search60-m full plotintact08/22/2023eastern red bat36C07carcass search100-m road and padintact		hoary bat			carcass search	100-m road and pad	intact
08/22/2023big brown bat5C14carcass search100-m road and padintact08/22/2023eastern red bat9A07incidental100-m road and padintact08/22/2023eastern red bat6A07incidental100-m road and padintact08/22/2023eastern red bat11B05carcass search100-m road and padintact08/22/2023eastern red bat66B08carcass search100-m road and padintact08/22/2023eastern red bat14B15carcass search70-m full plotscavenged08/22/2023eastern red bat27B24carcass search70-m full plotscavenged08/22/2023eastern red bat21B24carcass search70-m full plotscavenged08/22/2023eastern red bat8B25carcass search100-m road and padintact08/22/2023eastern red bat44C01carcass search60-m full plotintact08/22/2023eastern red bat36C07carcass search100-m road and padintact		Indiana bat			carcass search	100-m road and pad	intact
08/22/2023 eastern red bat	08/22/2023	big brown bat			carcass search	100-m road and pad	intact
08/22/2023 eastern red bat		big brown bat			carcass search	100-m road and pad	intact
08/22/2023eastern red bat11B05carcass search100-m road and padintact08/22/2023eastern red bat66B08carcass search100-m road and padintact08/22/2023eastern red bat14B15carcass search70-m full plotscavenged08/22/2023eastern red bat27B24carcass search70-m full plotscavenged08/22/2023eastern red bat21B24carcass search70-m full plotscavenged08/22/2023eastern red bat8B25carcass search100-m road and padintact08/22/2023eastern red bat44C01carcass search60-m full plotintact08/22/2023eastern red bat36C07carcass search100-m road and padintact	08/22/2023	eastern red bat			incidental	100-m road and pad	intact
08/22/2023 eastern red bat 66 B08 carcass search 100-m road and pad intact 08/22/2023 eastern red bat 14 B15 carcass search 70-m full plot scavenged 08/22/2023 eastern red bat 27 B24 carcass search 70-m full plot scavenged 08/22/2023 eastern red bat 21 B24 carcass search 70-m full plot scavenged 08/22/2023 eastern red bat 8 B25 carcass search 100-m road and pad intact 08/22/2023 eastern red bat 44 C01 carcass search 60-m full plot intact 08/22/2023 eastern red bat 36 C07 carcass search 100-m road and pad intact	08/22/2023	eastern red bat	6		incidental		intact
08/22/2023eastern red bat14B15carcass search70-m full plotscavenged08/22/2023eastern red bat27B24carcass search70-m full plotscavenged08/22/2023eastern red bat21B24carcass search70-m full plotscavenged08/22/2023eastern red bat8B25carcass search100-m road and padintact08/22/2023eastern red bat44C01carcass search60-m full plotintact08/22/2023eastern red bat36C07carcass search100-m road and padintact	08/22/2023	eastern red bat		B05	carcass search		intact
08/22/2023eastern red bat27B24carcass search70-m full plotscavenged08/22/2023eastern red bat21B24carcass search70-m full plotscavenged08/22/2023eastern red bat8B25carcass search100-m road and padintact08/22/2023eastern red bat44C01carcass search60-m full plotintact08/22/2023eastern red bat36C07carcass search100-m road and padintact	08/22/2023	eastern red bat	66	B08	carcass search	100-m road and pad	intact
08/22/2023 eastern red bat	08/22/2023	eastern red bat	14	B15	carcass search	70-m full plot	scavenged
08/22/2023eastern red bat8B25carcass search100-m road and pad intact08/22/2023eastern red bat44C01carcass search60-m full plotintact08/22/2023eastern red bat36C07carcass search100-m road and pad intact	08/22/2023	eastern red bat	27	B24	carcass search	70-m full plot	
08/22/2023 eastern red bat 44 C01 carcass search 60-m full plot intact 08/22/2023 eastern red bat 36 C07 carcass search 100-m road and pad intact	08/22/2023	eastern red bat	21	B24	carcass search	70-m full plot	scavenged
08/22/2023 eastern red bat 36 C07 carcass search 100-m road and pad intact	08/22/2023	eastern red bat	8	B25	carcass search	100-m road and pad	intact
08/22/2023 eastern red bat 36 C07 carcass search 100-m road and pad intact	08/22/2023	eastern red bat	44	C01	carcass search	60-m full plot	intact
08/22/2023 eastern red bat 58 C09 carcass search 100-m road and pad scavenged	08/22/2023	eastern red bat	36	C07	carcass search		intact
	08/22/2023	eastern red bat	58	C09	carcass search	100-m road and pad	scavenged

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

F I.D. :	0	Distance from	T	O	O	Physical Constitution
Found Date	•	Turbine (m)		Search Type	Search Area Type ¹	Physical Condition
08/22/2023	eastern red bat	5	C11	carcass search	100-m road and pad	scavenged
08/22/2023	eastern red bat	41	C14	carcass search	100-m road and pad	intact
08/22/2023	eastern red bat	44	C18	carcass search	70-m full plot	intact
08/22/2023	eastern red bat	8	C19	carcass search	100-m road and pad	intact
08/22/2023	eastern red bat	30	C19	carcass search	100-m road and pad	intact
08/22/2023	eastern red bat	50	C20	carcass search	100-m road and pad	intact
08/22/2023	eastern red bat	15	C21	carcass search	100-m road and pad	intact
08/22/2023	eastern red bat	28	D06	carcass search	60-m full plot	scavenged
08/22/2023	hoary bat	23	B25	carcass search	100-m road and pad	intact
08/22/2023	hoary bat	29	C14	carcass search	100-m road and pad	scavenged
08/22/2023	hoary bat	11	D08	carcass search	100-m road and pad	scavenged
08/23/2023	big brown bat	0	D01	carcass search	100-m road and pad	intact
08/23/2023	eastern red bat	40	A01	carcass search	70-m full plot	intact
08/23/2023	eastern red bat	31	A05	carcass search	70-m full plot	intact
08/23/2023	eastern red bat	25	B24	carcass search	70-m full plot	scavenged
08/23/2023	eastern red bat	15	C05	carcass search	100-m road and pad	scavenged
08/23/2023	eastern red bat	15	D01	carcass search	100-m road and pad	intact
08/23/2023	eastern red bat	46	D10	carcass search	60-m full plot	scavenged
08/23/2023	hoary bat	41	C04	carcass search	60-m full plot	scavenged
08/24/2023	big brown bat	14	B07	carcass search	100-m road and pad	dismembered
08/24/2023	eastern red bat	17	B02	carcass search	100-m road and pad	intact
08/24/2023	eastern red bat	47	B04	carcass search	100-m road and pad	scavenged
08/24/2023	eastern red bat	28	B21	carcass search	100-m road and pad	intact
08/24/2023	eastern red bat	34	B22	carcass search	100-m road and pad	intact
08/24/2023	eastern red bat	62	B24	carcass search	70-m full plot	intact
08/24/2023	eastern red bat	42	B24	carcass search	70-m full plot	intact
08/24/2023	eastern red bat	30	C18	carcass search	70-m full plot	scavenged
08/24/2023	eastern red bat	12	C18	carcass search	70-m full plot	intact
08/24/2023	eastern red bat	23	C18	carcass search	70-m full plot	dismembered
08/24/2023	eastern red bat	12	C19	carcass search	100-m road and pad	intact
08/25/2023	eastern red bat	45	A01	carcass search	70-m full plot	scavenged
08/25/2023	eastern red bat	4	A01	carcass search	70-m full plot	scavenged
08/25/2023	eastern red bat	40	A01	carcass search	70-m full plot	scavenged
08/25/2023	eastern red bat	79	B06	carcass search	100-m road and pad	scavenged
08/25/2023	eastern red bat	11	B14	carcass search	100-m road and pad	intact
08/25/2023	eastern red bat	13	C15	carcass search	100-m road and pad	intact

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

08/25/2023 eastern red bat 9 C21 carcass search 100-m road and pad intact 08/25/2023 hoary bat 18 A01 carcass search 100-m road and pad intact 08/25/2023 hoary bat 22 A01 carcass search 70-m full plot scavenged 08/25/2023 hoary bat 20 A03 carcass search 100-m road and pad dismembered 08/25/2023 unidentified Lasiurus bat 15 A03 carcass search 100-m road and pad dismembered 08/26/2023 big brown bat 5 B25 carcass search 100-m road and pad intact 08/26/2023 big brown bat 5 B25 carcass search 100-m road and pad cimted 08/26/2023 eastern red bat 39 A02 carcass search 100-m road and pad cimted 08/26/2023 eastern red bat 10 B15 carcass search 70-m full plot intact 08/26/2023 hoary bat 45 B07 carcass search			Distance from				
08/25/2023 eastern red bat 38 D01 carcass search 100-m road and pad intact intact 08/25/2023 hoary bat 22 A01 carcass search 70-m full plot scavenged 08/25/2023 hoary bat 20 A03 carcass search 100-m road and pad dismembered 08/25/2023 big brown bat 6 B15 carcass search 100-m road and pad dismembered 08/26/2023 big brown bat 5 B25 carcass search 100-m road and pad caverenged 08/26/2023 eastern red bat 39 A02 carcass search 100-m road and pad dismembered 08/26/2023 eastern red bat 39 A02 carcass search 70-m full plot intact 08/26/2023 eastern red bat 31 B15 carcass search 70-m full plot intact 08/26/2023 boary bat 34 B15 carcass search 70-m full plot intact 08/26/2023 boary bat 34 B15 carcass search		•	Turbine (m)			Search Area Type ¹	Physical Condition
08/25/2023 hoary bat 18						•	
08/25/2023 hoarý bat 22 A01 carcass search 70-m full plot scavenged 08/25/2023 unidentified Lasiurus bat 15 A03 carcass search 100-m road and pad dismembered 08/25/2023 big brown bat 6 B15 carcass search 70-m full plot intact 08/26/2023 big brown bat 5 B25 carcass search 100-m road and pad scavenged 08/26/2023 eastern red bat 39 A02 carcass search 100-m road and pad scavenged 08/26/2023 eastern red bat 9 A07 carcass search 100-m road and pad scavenged 08/26/2023 boary bat 63 B15 carcass search 70-m full plot intact 08/26/2023 hoary bat 43 B15 carcass search 70-m full plot intact 08/28/2023 eastern red bat 45 B07 carcass search 70-m full plot scavenged 08/28/2023 eastern red bat 16 C04 carcass search						•	
08/25/2023 inain/bat 20 A03 carcass search 100-m road and pad dismembered 08/25/2023 big brown bat 6 B15 carcass search 100-m road and pad dismembered 08/26/2023 big brown bat 5 B25 carcass search 100-m road and pad scavenged 08/26/2023 eastern red bat 9 A07 carcass search 100-m road and pad scavenged 08/26/2023 eastern red bat 9 A07 carcass search 100-m road and pad intact 08/26/2023 eastern red bat 9 A07 carcass search 100-m road and pad intact 08/26/2023 hoary bat 63 B15 carcass search 70-m full plot intact 08/26/2023 boxary bat 63 B15 carcass search 70-m full plot intact 08/26/2023 eastern red bat 45 B07 carcass search 70-m full plot scavenged 08/28/2023 eastern red bat 14 C04 carcass search		•				•	
08/25/2023 unidentified Lasiurus bat 15 A03 carcass search 100-m road and pad dismembered 08/26/2023 big brown bat 5 B25 carcass search 70-m full plot intact 08/26/2023 eastern red bat 39 A02 carcass search 100-m road and pad scavenged 08/26/2023 eastern red bat 9 A07 carcass search 100-m road and pad intact 08/26/2023 eastern red bat 10 B15 carcass search 70-m full plot intact 08/26/2023 hoary bat 63 B15 carcass search 70-m full plot intact 08/26/2023 boaztern red bat 63 A05 carcass search 70-m full plot intact 08/28/2023 eastern red bat 23 C01 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 23 C01 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 161 C06 carc		•				•	<u> </u>
08/26/2023 big brown bat 6 B15 carcass search 70-m full plot intact 08/26/2023 eastern red bat 39 A02 carcass search 100-m road and pad scavenged 08/26/2023 eastern red bat 9 A07 carcass search 100-m road and pad intact 08/26/2023 boary bat 63 B15 carcass search 70-m full plot intact 08/26/2023 hoary bat 63 B15 carcass search 70-m full plot intact 08/26/2023 hoary bat 63 B15 carcass search 70-m full plot intact 08/28/2023 eastern red bat 63 A05 carcass search 70-m full plot intact 08/28/2023 eastern red bat 45 B07 carcass search 70-m full plot scavenged 08/28/2023 eastern red bat 23 C01 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 14 C04 carcass search 60-m full plo		•			_		
08/26/2023 big brown bat 5 B25 carcass search 100-m road and pad scavenged 08/26/2023 eastern red bat 9 A07 carcass search 100-m road and pad intact 08/26/2023 eastern red bat 10 B15 carcass search 70-m full plot intact 08/26/2023 hoary bat 63 B15 carcass search 70-m full plot intact 08/26/2023 hoary bat 63 B15 carcass search 70-m full plot intact 08/28/2023 eastern red bat 63 A05 carcass search 70-m full plot scavenged 08/28/2023 eastern red bat 45 B07 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 23 C01 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 14 C04 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 51 C06 incidental**						•	
08/26/2023 eastern red bat 39 A02 carcass search 100-m road and pad carcass search scavenged 08/26/2023 eastern red bat eastern red bat eastern red bat ok/26/2023 hoary bat 63 B15 carcass search carcass search 70-m full plot intact intact 08/26/2023 hoary bat hoary bat ok/28/2023 eastern red bat eastern red ba		<u> </u>					
08/26/2023 eastern red bat 9 A07 carcass search 100-m road and pad intact 08/26/2023 eastern red bat 10 B15 carcass search 70-m full plot intact 08/26/2023 hoary bat 34 B15 carcass search 70-m full plot intact 08/28/2023 eastern red bat 63 A05 carcass search 70-m full plot intact 08/28/2023 eastern red bat 63 A05 carcass search 70-m full plot scavenged 08/28/2023 eastern red bat 23 C01 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 50 C03 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 8 C04 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 161 C06 incidental** n/a scavenged 08/28/2023 eastern red bat 45 C15 carcass search 100-m		-			carcass search	•	_
08/26/2023 eastern red bat 10 B15 carcass search 70-m full plot intact 08/26/2023 hoary bat 63 B15 carcass search 70-m full plot intact 08/28/2023 hoary bat 34 B15 carcass search 70-m full plot intact 08/28/2023 eastern red bat 63 A05 carcass search 70-m full plot scavenged 08/28/2023 eastern red bat 45 B07 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 23 C01 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 14 C04 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 161 C06 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 51 C06 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 3 C14 carcass search <t< td=""><td></td><td></td><td></td><td></td><td>carcass search</td><td></td><td>scavenged</td></t<>					carcass search		scavenged
08/26/2023 hoary bat 63 B15 carcass search 70-m full plot intact 08/26/2023 boary bat 34 B15 carcass search 70-m full plot intact 08/28/2023 eastern red bat 63 A05 carcass search 70-m full plot scavenged 08/28/2023 eastern red bat 45 B07 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 23 C01 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 14 C04 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 8 C04 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 161 C06 incidental** n/a scavenged 08/28/2023 eastern red bat 3 C14 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 45 C15 carcass search 100-					carcass search		intact
08/26/2023 hoary bat 34 B15 carcass search 70-m full plot intact 08/28/2023 eastern red bat 63 A05 carcass search 70-m full plot scavenged 08/28/2023 eastern red bat 23 C01 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 50 C03 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 14 C04 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 161 C06 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 161 C06 incidental** n/a scavenged 08/28/2023 eastern red bat 51 C06 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 3 C14 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 6 C21 carcass search 1					carcass search		intact
08/28/2023 eastern red bat 63 A05 carcass search 70-m full plot scavenged 08/28/2023 eastern red bat 45 B07 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 23 C01 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 50 C03 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 14 C04 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 8 C04 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 161 C06 incidental** n/a scavenged 08/28/2023 eastern red bat 3 C14 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 32 C18 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 14 D04 carcass search		•			carcass search		intact
08/28/2023 eastern red bat 45 B07 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 23 C01 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 50 C03 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 14 C04 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 8 C04 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 161 C06 incidental** n/a scavenged 08/28/2023 eastern red bat 51 C06 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 45 C15 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 6 C21 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 14 D04 carcass search </td <td></td> <td></td> <td></td> <td></td> <td>carcass search</td> <td></td> <td>intact</td>					carcass search		intact
08/28/2023 eastern red bat 23 C01 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 50 C03 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 14 C04 carcass search 60-m full plot scavenged 08/28/2023 eastern red bat 161 C06 incidental** n/a scavenged 08/28/2023 eastern red bat 51 C06 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 3 C14 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 32 C18 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 6 C21 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 40 D05 carcass search 100-m road and pad intact 08/28/2023 evening bat 12 B08 carcass search		eastern red bat			carcass search		scavenged
08/28/2023eastern red bat50C03carcass search100-m road and padscavenged08/28/2023eastern red bat14C04carcass search60-m full plotscavenged08/28/2023eastern red bat8C04carcass search60-m full plotscavenged08/28/2023eastern red bat161C06incidental**n/ascavenged08/28/2023eastern red bat51C06carcass search100-m road and padscavenged08/28/2023eastern red bat3C14carcass search100-m road and padintact08/28/2023eastern red bat45C15carcass search100-m road and padintact08/28/2023eastern red bat32C18carcass search70-m full plotscavenged08/28/2023eastern red bat6C21carcass search100-m road and padintact08/28/2023eastern red bat14D04carcass search100-m road and padintact08/28/2023eastern red bat40D05carcass search100-m road and padintact08/28/2023hoary bat12B08carcass search100-m road and padintact08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat14C06carcass search100-m road and pad					carcass search	•	
08/28/2023 eastern red bat 8 C04 carcass search 60-m full plot scavenged ob/28/2023 eastern red bat 161 C06 incidental** n/a scavenged ob/28/2023 eastern red bat 51 C06 carcass search 100-m road and pad scavenged ob/28/2023 eastern red bat 3 C14 carcass search 100-m road and pad intact eastern red bat 45 C15 carcass search 100-m road and pad intact eastern red bat 32 C18 carcass search 100-m road and pad intact eastern red bat 32 C18 carcass search 100-m road and pad intact eastern red bat 6 C21 carcass search 100-m road and pad scavenged ob/28/2023 eastern red bat 6 C21 carcass search 100-m road and pad scavenged ob/28/2023 eastern red bat 14 D04 carcass search 100-m road and pad scavenged ob/28/2023 eastern red bat 40 D05 carcass search 100-m road and pad intact ob/28/2023 evening bat 12 B08 carcass search 100-m road and pad intact ob/28/2023 hoary bat 14 C06 carcass search 100-m road and pad intact ob/28/2023 hoary bat 14 C06 carcass search 100-m road and pad intact ob/28/2023 hoary bat 14 C06 carcass search 100-m road and pad intact ob/28/2023 silver-haired bat 13 A02 carcass search 100-m road and pad intact ob/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad intact ob/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad intact		eastern red bat			carcass search	60-m full plot	scavenged
08/28/2023eastern red bat8C04carcass search60-m full plotscavenged08/28/2023eastern red bat161C06incidental**n/ascavenged08/28/2023eastern red bat51C06carcass search100-m road and padintact08/28/2023eastern red bat3C14carcass search100-m road and padintact08/28/2023eastern red bat45C15carcass search100-m road and padintact08/28/2023eastern red bat32C18carcass search100-m road and padscavenged08/28/2023eastern red bat6C21carcass search100-m road and padintact08/28/2023eastern red bat14D04carcass search100-m road and padintact08/28/2023eastern red bat40D05carcass search100-m road and padintact08/28/2023evening bat12B08carcass search100-m road and padscavenged08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat15C08carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road		eastern red bat			carcass search		scavenged
08/28/2023 eastern red bat 161 C06 incidental** n/a scavenged 08/28/2023 eastern red bat 51 C06 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 3 C14 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 45 C15 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 32 C18 carcass search 70-m full plot scavenged 08/28/2023 eastern red bat 6 C21 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 40 D05 carcass search 100-m road and pad intact 08/28/2023 evening bat 12 B08 carcass search 100-m road and pad scavenged 08/28/2023 hoary bat 14 C06 carcass search 100-m road and pad intact 08/28/2023 hoary bat 15 C08 carcass search <t< td=""><td>08/28/2023</td><td>eastern red bat</td><td></td><td></td><td>carcass search</td><td>60-m full plot</td><td>scavenged</td></t<>	08/28/2023	eastern red bat			carcass search	60-m full plot	scavenged
08/28/2023eastern red bat51C06carcass search100-m road and padscavenged08/28/2023eastern red bat3C14carcass search100-m road and padintact08/28/2023eastern red bat45C15carcass search100-m road and padintact08/28/2023eastern red bat32C18carcass search70-m full plotscavenged08/28/2023eastern red bat6C21carcass search100-m road and padscavenged08/28/2023eastern red bat14D04carcass search100-m road and padintact08/28/2023evening bat12B08carcass search100-m road and padintact08/28/2023hoary bat12B08carcass search100-m road and padscavenged08/28/2023hoary bat14C06carcass search60-m full plotdismembered08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat21C09carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search <td>08/28/2023</td> <td>eastern red bat</td> <td></td> <td></td> <td>carcass search</td> <td>60-m full plot</td> <td>scavenged</td>	08/28/2023	eastern red bat			carcass search	60-m full plot	scavenged
08/28/2023 eastern red bat 45 C15 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 32 C18 carcass search 70-m full plot scavenged 08/28/2023 eastern red bat 6 C21 carcass search 100-m road and pad intact 08/28/2023 eastern red bat 6 C21 carcass search 100-m road and pad scavenged 08/28/2023 eastern red bat 14 D04 carcass search 100-m road and pad intact 108/28/2023 eastern red bat 40 D05 carcass search 100-m road and pad intact 108/28/2023 evening bat 12 B08 carcass search 100-m road and pad scavenged 108/28/2023 hoary bat 12 B08 carcass search 100-m road and pad 108/28/2023 hoary bat 14 C06 carcass search 100-m road and pad 108/28/2023 hoary bat 14 C06 carcass search 100-m road and pad 108/28/2023 hoary bat 14 C06 carcass search 100-m road and pad 108/28/2023 hoary bat 14 C09 carcass search 100-m road and pad 108/28/2023 silver-haired bat 13 A02 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad 108/28/28/28/28/28/28/28/28/28/28/28/28/28	08/28/2023	eastern red bat			incidental**	n/a	scavenged
08/28/2023eastern red bat45C15carcass search100-m road and padintact08/28/2023eastern red bat32C18carcass search70-m full plotscavenged08/28/2023eastern red bat6C21carcass search100-m road and padscavenged08/28/2023eastern red bat14D04carcass search100-m road and padintact08/28/2023eastern red bat40D05carcass search100-m road and padintact08/28/2023evening bat12B08carcass search100-m road and padscavenged08/28/2023hoary bat22A06carcass search60-m full plotdismembered08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat5C08carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padscavenged08/28/2023silver-haired bat47B24carcass search70-m full plotintact		eastern red bat			carcass search	100-m road and pad	scavenged
08/28/2023eastern red bat32C18carcass search70-m full plotscavenged08/28/2023eastern red bat6C21carcass search100-m road and padscavenged08/28/2023eastern red bat14D04carcass search100-m road and padintact08/28/2023eastern red bat40D05carcass search100-m road and padintact08/28/2023evening bat12B08carcass search100-m road and padscavenged08/28/2023hoary bat22A06carcass search60-m full plotdismembered08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat5C08carcass search100-m road and padintact08/28/2023hoary bat21C09carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padscavenged08/28/2023silver-haired bat12A07carcass search70-m full plotintact	08/28/2023	eastern red bat			carcass search	100-m road and pad	intact
08/28/2023eastern red bat6C21carcass search100-m road and padscavenged08/28/2023eastern red bat14D04carcass search100-m road and padintact08/28/2023eastern red bat40D05carcass search100-m road and padintact08/28/2023evening bat12B08carcass search100-m road and padscavenged08/28/2023hoary bat22A06carcass search60-m full plotdismembered08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat5C08carcass search100-m road and padintact08/28/2023hoary bat21C09carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padscavenged08/28/2023silver-haired bat47B24carcass search70-m full plotintact	08/28/2023	eastern red bat			carcass search	100-m road and pad	intact
08/28/2023eastern red bat14D04carcass search100-m road and padintact08/28/2023eastern red bat40D05carcass search100-m road and padintact08/28/2023evening bat12B08carcass search100-m road and padscavenged08/28/2023hoary bat22A06carcass search60-m full plotdismembered08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat5C08carcass search100-m road and padintact08/28/2023hoary bat21C09carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padscavenged08/28/2023silver-haired bat47B24carcass search70-m full plotintact	08/28/2023	eastern red bat	32	C18	carcass search	70-m full plot	scavenged
08/28/2023eastern red bat40D05carcass search100-m road and padintact08/28/2023evening bat12B08carcass search100-m road and padscavenged08/28/2023hoary bat22A06carcass search60-m full plotdismembered08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat5C08carcass search100-m road and padintact08/28/2023hoary bat21C09carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padscavenged08/28/2023silver-haired bat47B24carcass search70-m full plotintact	08/28/2023	eastern red bat			carcass search	100-m road and pad	scavenged
08/28/2023evening bat12B08carcass search100-m road and padscavenged08/28/2023hoary bat22A06carcass search60-m full plotdismembered08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat5C08carcass search100-m road and padintact08/28/2023hoary bat21C09carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padscavenged08/28/2023silver-haired bat47B24carcass search70-m full plotintact	08/28/2023	eastern red bat		D04	carcass search	100-m road and pad	intact
08/28/2023hoary bat22A06carcass search60-m full plotdismembered08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat5C08carcass search100-m road and padintact08/28/2023hoary bat21C09carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padscavenged08/28/2023silver-haired bat47B24carcass search70-m full plotintact	08/28/2023	eastern red bat		D05	carcass search		intact
08/28/2023hoary bat14C06carcass search100-m road and padintact08/28/2023hoary bat5C08carcass search100-m road and padintact08/28/2023hoary bat21C09carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padscavenged08/28/2023silver-haired bat47B24carcass search70-m full plotintact	08/28/2023	evening bat	12	B08	carcass search	100-m road and pad	scavenged
08/28/2023hoary bat5C08carcass search100-m road and padintact08/28/2023hoary bat21C09carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padscavenged08/28/2023silver-haired bat47B24carcass search70-m full plotintact	08/28/2023	hoary bat	22	A06	carcass search	60-m full plot	dismembered
08/28/2023hoary bat21C09carcass search100-m road and padintact08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padscavenged08/28/2023silver-haired bat47B24carcass search70-m full plotintact	08/28/2023	hoary bat	14	C06	carcass search	100-m road and pad	intact
08/28/2023silver-haired bat13A02carcass search100-m road and padintact08/28/2023silver-haired bat12A07carcass search100-m road and padscavenged08/28/2023silver-haired bat47B24carcass search70-m full plotintact	08/28/2023	hoary bat	5	C08	carcass search	100-m road and pad	intact
08/28/2023 silver-haired bat 12 A07 carcass search 100-m road and pad scavenged 08/28/2023 silver-haired bat 47 B24 carcass search 70-m full plot intact	08/28/2023	hoary bat	21	C09	carcass search		intact
08/28/2023 silver-haired bat 47 B24 carcass search 70-m full plot intact	08/28/2023	silver-haired bat	13	A02	carcass search	100-m road and pad	intact
08/28/2023 silver-haired bat 47 B24 carcass search 70-m full plot intact	08/28/2023	silver-haired bat	12	A07	carcass search	100-m road and pad	scavenged
'	08/28/2023	silver-haired bat	47	B24	carcass search	•	_
08/28/2023 silver-haired bat 37 B24 carcass search 70-m full plot intact	08/28/2023	silver-haired bat	37	B24	carcass search	•	intact

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Found Date Species Turbine (m) Turbine Search Type Search Area Type Physical Condition 08/28/2023 silver-haired bat 16 C08 carcass search 100-m road and pad intact 08/28/2023 silver-haired bat 6 C15 carcass search 100-m road and pad intact 08/28/2023 silver-haired bat 84 C20 carcass search 100-m road and pad cavenged 08/28/2023 silver-haired bat 33 C20 carcass search 100-m road and pad cavenged 08/29/2023 silver-haired bat 9 D07 carcass search 100-m road and pad cavenged 08/29/2023 boary bat 41 C18 carcass search 100-m road and pad cavenged 08/29/2023 boary bat 41 D07 carcass search 100-m road and pad cavenged 08/29/2023 boary bat 41 D07 carcass search 100-m road and pad cavenged 08/29/2023 boary bat 41 D07 carcass searc		_	Distance from				
08/28/2023 silver-haired bat 35 C08 carcass search 100-m road and pad intact intact 08/28/2023 silver-haired bat 84 C20 carcass search 100-m road and pad intact intact 08/28/2023 silver-haired bat 33 C20 carcass search 100-m road and pad intact scavenged 08/29/2023 seastern red bat 2 D3 carcass search 60-m full plot scavenged 08/29/2023 seastern red bat 9 D07 carcass search 100-m road and pad scavenged 08/29/2023 hoary bat 41 C18 carcass search 100-m road and pad scavenged 08/29/2023 hoary bat 11 D07 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 7 B08 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 8 A01 carcass search 100-m road and pad scavenged 08/30/2023 silver-haired bat 15			Turbine (m)			Search Area Type ¹	Physical Condition
08/28/2023 silver-haired bat 84 C20 carcass search 100-m road and pad scavenged 08/28/2023 silver-haired bat 33 C20 carcass search 100-m road and pad scavenged 08/29/2023 sastern red bat 22 D03 carcass search 60-m full plot scavenged 08/29/2023 sastern red bat 9 D07 carcass search 100-m road and pad scavenged 08/29/2023 hoary bat 41 C18 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 7 B08 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 24 D07 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 20 C13 carcass search 100-m road and pad dismembered 08/30/2023 silver-haired bat 23 A02 carcass search 100-m road and pad dismembered 08/30/2023 silver-haired bat 25						•	<u> </u>
08/28/2023 silver-haired bat 84 C20 carcass search 100-m road and pad scavenged 08/28/2023 silver-haired bat 22 D03 carcass search 100-m road and pad intact 08/29/2023 eastern red bat 22 D03 carcass search 100-m road and pad scavenged 08/29/2023 hoary bat 41 C18 carcass search 100-m road and pad scavenged 08/29/2023 sliver-haired bat 11 D07 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 24 D07 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 24 D07 carcass search 100-m road and pad discavenged 08/30/2023 silver-haired bat 20 C13 carcass search 100-m road and pad discavenged 08/30/2023 silver-haired bat 23 A02 carcass search 100-m road and pad cavenged 08/31/2023 silver-haired bat 25						•	
08/28/2023 selver-haired bat 33 C20 carcass search 100-m road and pad intact 08/29/2023 eastern red bat 9 D07 carcass search 60-m full plot scavenged 08/29/2023 hoary bat 41 C18 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 7 B08 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 24 D07 carcass search 100-m road and pad inlact 08/29/2023 silver-haired bat 20 C13 carcass search 100-m road and pad inlact 08/29/2023 silver-haired bat 8 A01 carcass search 100-m road and pad inlact 08/30/2023 seatern red bat 8 A01 carcass search 70-m full plot scavenged 08/30/2023 silver-haired bat 23 A02 carcass search 60-m full plot scavenged 08/30/2023 silver-haired bat 25 D04 <						•	
08/29/2023 eastern red bat 22 D03 carcass search 60-m full plot scavenged 08/29/2023 eastern red bat 9 D07 carcass search 100-m road and pad scavenged 08/29/2023 hoary bat 11 D07 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 24 D07 carcass search 100-m road and pad scavenged 08/29/2023 unidentified <i>Lasiurus</i> bat 20 C13 carcass search 100-m road and pad discavenged 08/29/2023 unidentified <i>Lasiurus</i> bat 20 C13 carcass search 100-m road and pad discavenged 08/30/2023 eastern red bat 8 A01 carcass search 100-m road and pad dismembered 08/30/2023 silver-haired bat 15 B05 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat <t< td=""><td></td><td></td><td></td><td></td><td></td><td>•</td><td>_</td></t<>						•	_
08/29/2023 eastern red bat (08/29/2023) eastern red bat (08/29/2023) 41 C18 carcass search (70-m full plot (50-m road and pad (50-m) full plot (50-m) ful							
08/29/2023 hoary bat 41 C18 carcass search 70-m full plot scavenged 08/29/2023 hoary bat 11 D07 carcass search 100-m road and pad intact scavenged 08/29/2023 silver-haired bat 24 D07 carcass search 100-m road and pad intact scavenged 08/29/2023 silver-haired bat 24 D07 carcass search 100-m road and pad dismembered dismembered 08/30/2023 silver-haired bat 8 A01 carcass search 60-m full plot scavenged 08/30/2023 silver-haired bat 23 A02 carcass search 60-m full plot scavenged 08/30/2023 silver-haired bat 25 D04 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 25 D04 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 16						•	_
08/29/2023 hoary bat 11 D07 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 24 D07 carcass search 100-m road and pad scavenged 08/29/2023 silver-haired bat 24 D07 carcass search 100-m road and pad dismembered 08/30/2023 saltver-naired bat 8 A01 carcass search 70-m full plot scavenged 08/30/2023 silver-haired bat 23 A02 carcass search 100-m road and pad scavenged 08/30/2023 silver-haired bat 15 B05 carcass search 100-m road and pad scavenged 08/31/2023 silver-haired bat 25 D04 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 16 B24 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 25 <					_		<u> </u>
08/29/2023 silver-haired bat 7 B08 carcass search 100-m road and pad intact 08/29/2023 silver-haired bat 24 D07 carcass search 100-m road and pad diswerberd 08/30/2023 unidentified Lasiurus bat 20 C13 carcass search 100-m road and pad diswerbered 08/30/2023 eastern red bat 8 A01 carcass search 70-m full plot scavenged 08/30/2023 silver-haired bat 23 A02 carcass search 60-m full plot scavenged 08/30/2023 silver-haired bat 25 D04 carcass search 100-m road and pad scavenged 08/30/2023 silver-haired bat 25 D04 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 65 B15 carcass search 70-m full plot scavenged 08/31/2023 silver-haired bat 25		•					ū
08/29/2023 silver-haired bat 20 C13 carcass search 100-m road and pad dismembered 08/30/2023 eastern red bat 8 A01 carcass search 70-m full plot scavenged 08/30/2023 silver-haired bat 23 A02 carcass search 100-m road and pad scavenged 08/30/2023 silver-haired bat 25 D04 carcass search 100-m road and pad scavenged scavenged 08/30/2023 silver-haired bat 25 D04 carcass search 100-m road and pad scavenged 08/31/2023 big brown bat 75 B08 carcass search 100-m road and pad intact 108/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad intact 108/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad intact 108/31/2023 silver-haired bat 16 B24 carcass search 100-m road and pad 108/31/2023 silver-haired bat 16 B24 carcass search 70-m full plot 108/31/2023 silver-haired bat 16 B24 carcass search 100-m road and pad 108/31/2023 silver-haired bat 16 B24 carcass search 100-m road and pad 108/31/2023 silver-haired bat 16 B24 carcass search 100-m road and pad 109/01/2023 eastern red bat 29 A04 carcass search 100-m road and pad 109/01/2023 eastern red bat 29 A04 carcass search 100-m road and pad 109/01/2023 eastern red bat 30 B03 carcass search 100-m road and pad 109/01/2023 eastern red bat 45 B07 carcass search 100-m road and pad 109/01/2023 eastern red bat 26 B15 carcass search 100-m road and pad 109/01/2023 eastern red bat 25 C10 carcass search 100-m road and pad 109/01/2023 eastern red bat 25 C16 carcass search 100-m road and pad 109/01/2023 eastern red bat 25 C16 carcass search 100-m road and pad 109/01/2023 eastern red bat 29 A02 carcass search 100-m road and pad 109/01/2023 eastern red bat 29 A02 carcass search 100-m road and pad 109/01/2023 eastern red bat 29 A02 carcass search 100-m road and pad 109/01/2023 eastern red bat 29 A02 carcass search 100-m road and pad 109/01/2023 silver-haired bat 29 A02 carcass search 100-m road and pad 109/01/2023 silver-haired bat 16 C111 carcass search 100-m road and pad 109/01/2023 eastern red bat 50 C01 carcass search 100-m road and pad 109/01/2023 eastern r							
08/29/2023 unidentified Lasiurus bat 20 C13 carcass search 100-m road and pad dismembered 08/30/2023 eastern red bat 8 A01 carcass search 70-m full plot scavenged 08/30/2023 silver-haired bat 23 A02 carcass search 100-m road and pad scavenged 08/30/2023 silver-haired bat 15 B05 carcass search 100-m road and pad scavenged 08/30/2023 silver-haired bat 25 D04 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 65 B15 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 25 C07 carcass search 70-m full plot intact 08/31/2023 silver-haired bat 25 C07 carcass search 100-m road and pad intact 08/01/2023 eastern red bat 29							
08/30/2023 eastern red bat 8 A01 carcass search 70-m full plot scavenged 08/30/2023 silver-haired bat 23 A02 carcass search 100-m road and pad scavenged 08/30/2023 silver-haired bat 15 B05 carcass search 100-m road and pad scavenged 08/30/2023 silver-haired bat 25 D04 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 65 B15 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 65 B15 carcass search 70-m full plot scavenged 08/31/2023 silver-haired bat 25 C07 carcass search 70-m full plot intact 08/31/2023 silver-haired bat 29 A04 carcass search 70-m full plot intact 08/01/2023 eastern red bat 29 A08							
08/30/2023 hoary bat 41 C10 carcass search 60-m full plot scavenged 08/30/2023 silver-haired bat 23 A02 carcass search 100-m road and pad scavenged 08/30/2023 silver-haired bat 25 D04 carcass search 100-m road and pad intact 08/31/2023 big brown bat 75 B08 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 65 B15 carcass search 70-m full plot intact 08/31/2023 silver-haired bat 25 C07 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 25 C07 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 29 A04 carcass search 100-m road and pad intact 08/01/2023 eastern red bat 8 A08 c						•	
08/30/2023 silver-haired bat 23 A02 carcass search 100-m road and pad scavenged 08/30/2023 silver-haired bat 15 B05 carcass search 100-m road and pad scavenged 08/30/2023 silver-haired bat 25 D04 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad intact 08/31/2023 silver-haired bat 65 B15 carcass search 70-m full plot scavenged 08/31/2023 silver-haired bat 25 C07 carcass search 70-m full plot intact 08/31/2023 silver-haired bat 25 C07 carcass search 70-m full plot intact 08/31/2023 silver-haired bat 29 A04 carcass search 70-m full plot intact 08/31/2023 seatern red bat 8 A08 carcass search 100-m road and pad intact 09/01/2023 eastern red bat 8 A08 <							ū
08/30/2023 silver-haired bat 25 D04 carcass search 100-m road and pad intact 168/31/2023 big brown bat 16 B05 carcass search 100-m road and pad 108/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad 108/31/2023 silver-haired bat 16 B05 carcass search 100-m road and pad 108/31/2023 silver-haired bat 16 B24 carcass search 70-m full plot 108/31/2023 silver-haired bat 16 B24 carcass search 70-m full plot 109/01/2023 silver-haired bat 16 B24 carcass search 100-m road and pad 108/31/2023 silver-haired bat 16 B24 carcass search 100-m road and pad 109/01/2023 eastern red bat 25 C07 carcass search 100-m road and pad 109/01/2023 eastern red bat 29 A04 carcass search 100-m road and pad 109/01/2023 eastern red bat 30 B03 carcass search 100-m road and pad 109/01/2023 eastern red bat 45 B07 carcass search 100-m road and pad 109/01/2023 eastern red bat 26 B15 carcass search 100-m road and pad 109/01/2023 eastern red bat 26 B15 carcass search 100-m road and pad 109/01/2023 eastern red bat 26 B15 carcass search 100-m road and pad 109/01/2023 eastern red bat 25 C10 carcass search 100-m road and pad 109/01/2023 eastern red bat 25 C16 carcass search 100-m road and pad 109/01/2023 silver-haired bat 29 A02 carcass search 100-m road and pad 109/01/2023 silver-haired bat 29 A02 carcass search 100-m road and pad 109/01/2023 silver-haired bat 27 C09 carcass search 100-m road and pad 109/01/2023 silver-haired bat 16 C11 carcass search 100-m road and pad 109/01/2023 silver-haired bat 50 C01 carcass search 100-m road and pad 109/01/2023 eastern red bat 50 C01 carcass search 100-m road and pad 109/01/2023 eastern red bat 50 C01 carcass search 100-m road and pad 109/01/2023 eastern red bat 50 C01 carcass search 100-m road and pad 109/01/2023 eastern red bat 50 C01 carcass search 100-m road and pad 109/01/2023 eastern red bat 50 C01 carcass search 100-m road and pad 109/01/2023 eastern red bat 50 C01 carcass search 100-m road and pad 109/01/2023 eastern red bat 50 C01 carcass search 100-m road and pad 109/01/2023 eastern red b							_
08/30/2023 silver-haired bat 25 D04 carcass search 100-m road and pad intact 08/31/2023 big brown bat 75 B08 carcass search 100-m road and pad intact 108/31/2023 silver-haired bat 65 B15 carcass search 100-m road and pad 108/31/2023 silver-haired bat 16 B24 carcass search 70-m full plot scavenged 108/31/2023 silver-haired bat 16 B24 carcass search 70-m full plot intact 108/31/2023 silver-haired bat 25 C07 carcass search 100-m road and pad 100-m road 200-m ro					carcass search	•	
08/31/2023big brown bat75B08carcass search100-m road and padintact08/31/2023silver-haired bat16B05carcass search100-m road and padintact08/31/2023silver-haired bat65B15carcass search70-m full plotscavenged08/31/2023silver-haired bat16B24carcass search70-m full plotintact08/31/2023silver-haired bat25C07carcass search100-m road and padintact09/01/2023eastern red bat29A04carcass search70-m full plotintact09/01/2023eastern red bat8A08carcass search100-m road and padintact09/01/2023eastern red bat30B03carcass search100-m road and padintact09/01/2023eastern red bat26B15carcass search100-m road and padintact09/01/2023eastern red bat25C10carcass search60-m full plotintact09/01/2023eastern red bat25C16carcass search100-m road and padintact09/01/2023hoary bat32B08carcass search100-m road and padintact09/01/2023silver-haired bat27C09carcass search100-m road and padintact09/01/2023silver-haired bat27C09carcass search100-m road and padintact09/01/2023silver-haired bat50C01carcass sear		silver-haired bat			carcass search	•	scavenged
08/31/2023 silver-haired bat 65 B15 carcass search 70-m full plot scavenged intact 8/31/2023 silver-haired bat 16 B24 carcass search 70-m full plot intact 16 B24 carcass search 70-m full plot intact 16 B24 carcass search 70-m full plot 16 intact 170-m full plot 170-m fu					carcass search		
08/31/2023silver-haired bat65B15carcass search70-m full plotscavenged08/31/2023silver-haired bat16B24carcass search70-m full plotintact08/31/2023silver-haired bat25C07carcass search100-m road and padintact09/01/2023eastern red bat29A04carcass search70-m full plotintact09/01/2023eastern red bat8A08carcass search100-m road and padintact09/01/2023eastern red bat30B03carcass search100-m road and padintact09/01/2023eastern red bat45B07carcass search100-m road and padinjured09/01/2023eastern red bat26B15carcass search70-m full plotdismembered09/01/2023eastern red bat52C10carcass search60-m full plotintact09/01/2023hoary bat32B08carcass search100-m road and padintact09/01/2023silver-haired bat27C09carcass search100-m road and padintact09/01/2023silver-haired bat27C09carcass search100-m road and padintact09/02/2023eastern red bat50C01carcass search60-m full plotscavenged09/02/2023eastern red bat1C08carcass search100-m road and padintact		•			carcass search		
08/31/2023 silver-haired bat 08/31/2023 silver-haired bat 09/01/2023 eastern red bat 09/01/2023 silver-haired bat 09/01/2023 eastern red bat 09/01/2023 silver-haired bat 09/01/2023 silver-haired bat 09/01/2023 silver-haired bat 09/01/2023 eastern red bat 09/01/2023 eastern red bat 09/01/2023 silver-haired bat 09/01/2023 eastern red bat 09/01/2023 eastern red bat 09/01/2023 eastern red bat 09/01/2023 silver-haired bat 09/01/2023 eastern red b					carcass search	•	intact
08/31/2023 silver-haired bat 25 C07 carcass search 100-m road and pad intact 09/01/2023 eastern red bat 8 A08 carcass search 100-m road and pad intact 09/01/2023 eastern red bat 30 B03 carcass search 100-m road and pad intact 09/01/2023 eastern red bat 45 B07 carcass search 100-m road and pad intact 09/01/2023 eastern red bat 26 B15 carcass search 100-m road and pad injured 09/01/2023 eastern red bat 26 B15 carcass search 70-m full plot dismembered 09/01/2023 eastern red bat 25 C10 carcass search 60-m full plot intact 09/01/2023 eastern red bat 25 C16 carcass search 100-m road and pad intact 09/01/2023 hoary bat 32 B08 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 29 A02 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 27 C09 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 16 C11 carcass search 100-m road and pad intact 09/02/2023 eastern red bat 50 C01 carcass search 100-m road and pad intact 09/02/2023 eastern red bat 100-m road and pad intact 100-m road and 100-m road and 100-m road 10					carcass search		scavenged
09/01/2023 eastern red bat 09/01/2023 silver-haired bat 09/01/2023 eastern red bat 100-m road and pad intact		silver-haired bat			carcass search		
09/01/2023 eastern red bat 8 A08 carcass search 100-m road and pad intact 109/01/2023 eastern red bat 45 B07 carcass search 100-m road and pad intact 109/01/2023 eastern red bat 26 B15 carcass search 70-m full plot dismembered 109/01/2023 eastern red bat 52 C10 carcass search 100-m road and pad injured 109/01/2023 eastern red bat 52 C10 carcass search 100-m road and pad intact 109/01/2023 eastern red bat 25 C16 carcass search 100-m road and pad intact 109/01/2023 hoary bat 32 B08 carcass search 100-m road and pad intact 109/01/2023 silver-haired bat 29 A02 carcass search 100-m road and pad intact 109/01/2023 silver-haired bat 27 C09 carcass search 100-m road and pad intact 109/01/2023 silver-haired bat 16 C11 carcass search 100-m road and pad intact 109/02/2023 eastern red bat 50 C01 carcass search 100-m road and pad intact 109/02/2023 eastern red bat 50 C01 carcass search 100-m road and pad intact 109/02/2023 eastern red bat 50 C01 carcass search 100-m road and pad intact 109/02/2023 eastern red bat 50 C01 carcass search 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/2023 eastern red bat 100-m road and pad intact 109/02/202		silver-haired bat			carcass search		intact
09/01/2023 eastern red bat 09/01/2023 silver-haired bat 09/02/2023 eastern red bat 100-m road and pad intact		eastern red bat			carcass search	70-m full plot	intact
09/01/2023 eastern red bat 26 B15 carcass search 70-m full plot dismembered 09/01/2023 eastern red bat 52 C10 carcass search 60-m full plot intact 09/01/2023 eastern red bat 25 C16 carcass search 100-m road and pad intact 09/01/2023 hoary bat 32 B08 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 29 A02 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 27 C09 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 27 C09 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 16 C11 carcass search 100-m road and pad intact 09/02/2023 eastern red bat 50 C01 carcass search 100-m road and pad intact scavenged 09/02/2023 eastern red bat 1 C08 carcass search 100-m road and pad intact	09/01/2023	eastern red bat			carcass search	100-m road and pad	intact
09/01/2023 eastern red bat 09/01/2023 hoary bat 09/01/2023 silver-haired bat 09/01/2023 eastern red bat 09/02/2023 eastern red bat 100-m road and pad intact	09/01/2023	eastern red bat			carcass search		intact
09/01/2023 eastern red bat 09/01/2023 eastern red bat 25 C10 carcass search 09/01/2023 eastern red bat 25 C16 carcass search 100-m road and pad intact 09/01/2023 hoary bat 29 A02 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 27 C09 carcass search 100-m road and pad intact 109/01/2023 silver-haired bat 109/01/2023 silver-haired bat 100-m road and pad intact 109/01/2023 silver-haired bat 100-m road and pad intact	09/01/2023	eastern red bat			carcass search	100-m road and pad	injured
09/01/2023 eastern red bat 25 C16 carcass search 100-m road and pad intact 09/01/2023 hoary bat 32 B08 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 29 A02 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 27 C09 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 16 C11 carcass search 100-m road and pad intact 09/02/2023 eastern red bat 50 C01 carcass search 60-m full plot scavenged 09/02/2023 eastern red bat 1 C08 carcass search 100-m road and pad intact	09/01/2023	eastern red bat			carcass search	70-m full plot	dismembered
09/01/2023 hoary bat 32 B08 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 29 A02 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 27 C09 carcass search 100-m road and pad intact 09/01/2023 silver-haired bat 16 C11 carcass search 100-m road and pad intact 09/02/2023 eastern red bat 50 C01 carcass search 60-m full plot scavenged 09/02/2023 eastern red bat 1 C08 carcass search 100-m road and pad intact	09/01/2023	eastern red bat			carcass search	60-m full plot	intact
09/01/2023 silver-haired bat 09/01/2023 silver-haired bat 29 A02 carcass search 100-m road and pad intact C09 carcass search 100-m road and pad intact	09/01/2023	eastern red bat	25	C16	carcass search	100-m road and pad	intact
09/01/2023silver-haired bat27C09carcass search100-m road and pad intact09/01/2023silver-haired bat16C11carcass search100-m road and pad intact09/02/2023eastern red bat50C01carcass search60-m full plotscavenged09/02/2023eastern red bat1C08carcass search100-m road and pad intact	09/01/2023	hoary bat	32	B08	carcass search	100-m road and pad	intact
09/01/2023silver-haired bat16C11carcass search100-m road and pad intact09/02/2023eastern red bat50C01carcass search60-m full plotscavenged09/02/2023eastern red bat1C08carcass search100-m road and pad intact	09/01/2023	silver-haired bat	29	A02	carcass search	100-m road and pad	intact
09/02/2023 eastern red bat 50 C01 carcass search 60-m full plot scavenged 09/02/2023 eastern red bat 1 C08 carcass search 100-m road and pad intact	09/01/2023	silver-haired bat	27	C09	carcass search	100-m road and pad	intact
09/02/2023 eastern red bat 1 C08 carcass search 100-m road and pad intact	09/01/2023	silver-haired bat	16	C11	carcass search	100-m road and pad	intact
09/02/2023 eastern red bat 1 C08 carcass search 100-m road and pad intact	09/02/2023	eastern red bat	50	C01	carcass search	60-m full plot	scavenged
09/04/2023 big brown bat 28 B24 carcass search 70-m full plot scavenged	09/02/2023	eastern red bat	1	C08	carcass search		_
	09/04/2023	big brown bat	28	B24	carcass search	70-m full plot	scavenged

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

		Distance from		_		
Found Date	•	Turbine (m)		Search Type	Search Area Type ¹	Physical Condition
09/04/2023	eastern red bat	2	A03	carcass search	100-m road and pad	intact
09/04/2023	eastern red bat	30	B06	carcass search	100-m road and pad	intact
09/04/2023	eastern red bat	45	B07	carcass search	100-m road and pad	scavenged
09/04/2023	eastern red bat	41	B23	carcass search	100-m road and pad	intact
09/04/2023	eastern red bat	40	B23	carcass search	100-m road and pad	scavenged
09/04/2023	eastern red bat	30	B24	carcass search	70-m full plot	intact
09/04/2023	eastern red bat	10	C08	carcass search	100-m road and pad	scavenged
09/04/2023	eastern red bat	40	C18	carcass search	70-m full plot	scavenged
09/04/2023	eastern red bat	34	D01	carcass search	100-m road and pad	scavenged
09/04/2023	evening bat	16	B24	carcass search	70-m full plot	scavenged
09/04/2023	hoary bat	47	A01	carcass search	70-m full plot	intact
09/04/2023	hoary bat	17	D01	carcass search	100-m road and pad	scavenged
09/04/2023	silver-haired bat	29	B08	carcass search	100-m road and pad	intact
09/04/2023	silver-haired bat	29	B24	carcass search	70-m full plot	scavenged
09/04/2023	silver-haired bat	20	C02	carcass search	100-m road and pad	scavenged
09/04/2023	silver-haired bat	26	C16	carcass search	100-m road and pad	scavenged
09/04/2023	silver-haired bat	52	C17	carcass search	100-m road and pad	scavenged
09/04/2023	silver-haired bat	25	C19	carcass search	100-m road and pad	scavenged
09/04/2023	silver-haired bat	48	C20	carcass search	100-m road and pad	scavenged
09/05/2023	eastern red bat	1	A07	carcass search	100-m road and pad	scavenged
09/05/2023	hoary bat	9	C07	carcass search	100-m road and pad	intact
09/05/2023	silver-haired bat	14	C08	carcass search	100-m road and pad	intact
09/05/2023	silver-haired bat	29	D08	carcass search	100-m road and pad	dismembered
09/06/2023	eastern red bat	17	A01	carcass search	70-m full plot	scavenged
09/06/2023	eastern red bat	53	A01	carcass search	70-m full plot	scavenged
09/06/2023	eastern red bat	46	B01	carcass search	60-m full plot	scavenged
09/06/2023	eastern red bat	52	B06	carcass search	100-m road and pad	scavenged
09/06/2023	eastern red bat	1	C15	carcass search	100-m road and pad	scavenged
09/06/2023	eastern red bat	88	C16	carcass search	100-m road and pad	scavenged
09/06/2023	evening bat	18	A02	carcass search	100-m road and pad	intact
09/06/2023	evening bat	5	B06	carcass search	100-m road and pad	intact
09/06/2023	hoary bat	12	C11	carcass search	100-m road and pad	intact
09/06/2023	silver-haired bat	12	B10	carcass search	100-m road and pad	scavenged
09/06/2023	silver-haired bat	22	C17	carcass search	100-m road and pad	scavenged
09/07/2023	eastern red bat	32	A04	carcass search	70-m full plot	intact
09/07/2023	eastern red bat	18	A07	carcass search	100-m road and pad	intact

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Found Date Species Turbine (m) Turbine (m) Turbine (m) Search Type Search Area Type Physical Condition			Distance from		–		
09/07/2023 eastern red bat 36 B05 carcass search 100-m road and pad scavenged 09/07/2023 eastern red bat 5 B08 carcass search 100-m road and pad scavenged 09/07/2023 eastern red bat 14 C06 carcass search 100-m road and pad intact 109/07/2023 evening bat 33 C05 carcass search 100-m road and pad intact 109/08/2023 eastern red bat 9 B07 carcass search 100-m road and pad intact 109/08/2023 eastern red bat 9 B07 carcass search 100-m road and pad cavenged 09/08/2023 eastern red bat 83 D05 carcass search 100-m road and pad cavenged 09/08/2023 hoary bat 45 A07 carcass search 100-m road and pad carcass sea							
99/07/2023 eastern red bat 5 808 carcass search 100-m road and pad intact						•	· ·
09/07/2023 eastern red bat 14 C06 carcass search 100-m road and pad intact						•	_
09/07/2023 eastern red bat 14 C06 carcass search 100-m road and pad scavenged 09/07/2023 hoary bat 69 C10 carcass search 100-m road and pad intact 09/08/2023 eastern red bat 9 B07 carcass search 100-m road and pad scavenged 09/08/2023 eastern red bat 9 B07 carcass search 100-m road and pad scavenged 09/08/2023 evening bat 30 B23 carcass search 100-m road and pad cavenged 09/08/2023 hoary bat 45 A07 carcass search 100-m road and pad intact 09/08/2023 hoary bat 58 C15 carcass search 100-m road and pad intact 09/08/2023 hoary bat 58 C15 carcass search 100-m road and pad intact 09/08/2023 hoary bat 58 D10 carcass search 100-m road and pad intact 09/08/2023 silver-haired bat 47 B01 carcass search						•	
09/07/2023 oyning bat 09/08/2023 oyn					carcass search	•	
09/07/2023 hoary bat 69 C10 carcass search 60-m full plot intact 09/08/2023 eastern red bat 9 B07 carcass search 100-m road and pad scavenged 09/08/2023 evening bat 30 B23 carcass search 100-m road and pad intact 09/08/2023 hoary bat 45 A07 carcass search 100-m road and pad intact 09/08/2023 hoary bat 16 C06 carcass search 100-m road and pad intact 09/08/2023 hoary bat 58 C15 carcass search 100-m road and pad intact 09/08/2023 hoary bat 58 C15 carcass search 100-m road and pad intact 09/08/2023 silver-haired bat 58 D10 carcass search 100-m road and pad intact 09/09/2023 silver-haired bat 47 B01 carcass search 60-m full plot scavenged 09/09/2023 silver-haired bat 12 B05 carcass search 100					carcass search	•	_
09/08/2023 eastern red bat 9 BO7 carcass search 100-m road and pad scavenged 09/08/2023 eastern red bat 83 D05 carcass search 100-m road and pad intact 09/08/2023 hoary bat 45 A07 carcass search 100-m road and pad intact 09/08/2023 hoary bat 16 C06 carcass search 100-m road and pad intact 09/08/2023 hoary bat 58 C15 carcass search 100-m road and pad intact 09/08/2023 hoary bat 38 D08 carcass search 100-m road and pad intact 09/08/2023 silver-haired bat 38 D08 carcass search 100-m road and pad scavenged 09/09/2023 silver-haired bat 47 B01 carcass search 60-m full plot scavenged 09/11/2023 silver-haired bat 12 B05 carcass search 100-m road and pad intact 09/11/2023 eastern red bat 2 A04 carcass search					carcass search	•	
09/08/2023 eastern red bat 83 D05 carcass search 100-m road and pad intact 09/08/2023 hoary bat 45 A07 carcass search 100-m road and pad intact 09/08/2023 hoary bat 16 C06 carcass search 100-m road and pad intact 09/08/2023 hoary bat 58 C15 carcass search 100-m road and pad intact 09/08/2023 hoary bat 38 D08 carcass search 100-m road and pad intact 09/08/2023 invaled Lasiurus bat 38 D10 carcass search 60-m full plot scavenged 09/08/2023 involentified Lasiurus bat 38 C18 carcass search 70-m full plot dismembered 09/09/2023 silver-haired bat 12 B05 carcass search 100-m road and pad intact 09/11/2023 big brown bat 2 C20 carcass search 100-m road and pad intact 09/11/2023 eastern red bat 2 A04 carcass search					carcass search		intact
09/08/2023 evening bat 30 B23 carcass search 100-m road and pad intact intact 09/08/2023 hoary bat 45 A07 carcass search 100-m road and pad intact intact 09/08/2023 hoary bat 58 C15 carcass search 100-m road and pad intact intact 09/08/2023 hoary bat 38 D08 carcass search 100-m road and pad intact intact 09/08/2023 silver-haired bat 58 D10 carcass search 100-m road and pad intact intact 09/08/2023 silver-haired bat 58 D10 carcass search 60-m full plot scavenged 09/09/2023 silver-haired bat 47 B01 carcass search 60-m full plot scavenged 09/11/2023 silver-haired bat 1 2 C20 carcass search 100-m road and pad intact 09/11/2023 eastern red bat 2 A04 carcass search 100-m road and pad cavenged 09/11/2023 eastern red bat 51					carcass search		<u> </u>
09/08/2023 hoary bat 45 A07 carcass search 100-m road and pad intact one process of the process of th					carcass search		scavenged
09/08/2023 hoary bat 16 C06 carcass search 100-m road and pad intact intact 09/08/2023 hoary bat 58 C15 carcass search 100-m road and pad intact intact 09/08/2023 solver-haired bat 58 D10 carcass search 60-m full plot scavenged 09/08/2023 unidentified Lasiurus bat 38 C18 carcass search 70-m full plot dismembered 09/09/2023 eastern red bat 47 B01 carcass search 60-m full plot scavenged 09/09/2023 silver-haired bat 12 B05 carcass search 60-m full plot scavenged 09/11/2023 big brown bat 2 C20 carcass search 100-m road and pad intact 09/11/2023 eastern red bat 2 A04 carcass search 100-m road and pad cavenged 09/11/2023 eastern red bat 51 C10 carcass search 100-m road and pad intact 09/11/2023 hoary bat 6 C13 <td< td=""><td></td><td><u> </u></td><td></td><td></td><td>carcass search</td><td></td><td></td></td<>		<u> </u>			carcass search		
09/08/2023 hoarý bat 58 C15 carcass search 100-m road and pad intact 09/08/2023 silver-haired bat 38 D08 carcass search 100-m road and pad scavenged 09/08/2023 silver-haired bat 58 D10 carcass search 60-m full plot scavenged 09/09/2023 eastern red bat 47 B01 carcass search 60-m full plot scavenged 09/09/2023 silver-haired bat 12 B05 carcass search 60-m full plot scavenged 09/11/2023 big brown bat 2 C20 carcass search 100-m road and pad intact 09/11/2023 eastern red bat 2 A04 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 57 C05 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 21 D04 carcass search 100-m road and pad intact 09/11/2023 hoary bat 6 C13 carcass s		hoary bat			carcass search		
09/08/2023 hoary bat 38 D08 carcass search 100-m road and pad scavenged 09/08/2023 silver-haired bat 58 D10 carcass search 60-m full plot scavenged 09/08/2023 unidentified Lasiurus bat 38 C18 carcass search 60-m full plot dismembered 09/09/2023 salver-haired bat 47 B01 carcass search 60-m full plot scavenged 09/09/2023 silver-haired bat 12 B05 carcass search 100-m road and pad intact 09/11/2023 big brown bat 2 C20 carcass search 100-m road and pad intact 09/11/2023 eastern red bat 2 A04 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 57 C05 carcass search 100-m road and pad intact 09/11/2023 eastern red bat 22 D04 carcass search 60-m full plot scavenged 09/11/2023 hoary bat 33 D02		hoary bat			carcass search	100-m road and pad	intact
09/08/2023 silver-haired bat 58 D10 carcass search 60-m full plot scavenged 09/08/2023 unidentified Lasiurus bat 38 C18 carcass search 70-m full plot dismembered 09/09/2023 silver-haired bat 47 B01 carcass search 60-m full plot scavenged 09/09/2023 silver-haired bat 12 B05 carcass search 100-m road and pad intact 09/11/2023 big brown bat 2 C20 carcass search 100-m road and pad intact 09/11/2023 eastern red bat 2 A04 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 57 C05 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 22 D04 carcass search 100-m road and pad intact 09/11/2023 hoary bat 6 C13 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 35 B06		hoary bat			carcass search		intact
09/08/2023 unidentified Lasiurus bat 38 C18 carcass search 70-m full plot scavenged on one of the following seatern red bat 47 B01 carcass search 60-m full plot scavenged on one of the following seatern red bat 12 B05 carcass search 100-m road and pad intact on one of the following seatern red bat 12 B05 carcass search 100-m road and pad intact one of the following seatern red bat 12 B05 carcass search 100-m road and pad intact one of the following seatern red bat 12 C2 C20 carcass search 100-m road and pad intact one of the following seatern red bat 12 C2 C30 carcass search 100-m road and pad 100-m road 1	09/08/2023				carcass search	100-m road and pad	
09/09/2023 eastern red bat 47 B01 carcass search 60-m full plot scavenged 09/09/2023 silver-haired bat 12 B05 carcass search 100-m road and pad intact intact 09/11/2023 big brown bat 2 C20 carcass search 100-m road and pad intact intact 09/11/2023 eastern red bat 2 A04 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 57 C05 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 51 C10 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 51 C10 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 22 D04 carcass search 100-m road and pad intact 109/11/2023 hoary bat 6 C13 carcass search 100-m road and pad intact 109/11/2023 silver-haired bat 33 D02 carcass search 100-m road and pad intact 109/11/2023 silver-haired bat 15 B10 carcass search 100-m road and pad intact 109/11/2023 silver-haired bat 25 B11 carcass search 100-m road and pad intact 109/11/2023 silver-haired bat 21 C08 carcass search 100-m road and pad intact 109/11/2023 silver-haired bat 21 C08 carcass search 100-m road and pad 10					carcass search	60-m full plot	scavenged
09/09/2023 silver-haired bat big brown bat 2 C20 carcass search 100-m road and pad intact 09/11/2023 eastern red bat 2 A04 carcass search 100-m road and pad intact 09/11/2023 eastern red bat 6 B07 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 57 C05 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 51 C10 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 22 D04 carcass search 60-m full plot scavenged 09/11/2023 hoary bat 6 C13 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 35 B06 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 25 B11 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 25 B11 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 21 C08 carcass search 100-m road and pad scavenged 09/11/2023 silver-haired bat 1 C13 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 1 C13 carcass search 100-m road and pad scavenged 09/11/2023 silver-haired bat 1 C13 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 1 C13 carcass search 100-m road and pad scavenged 09/11/2023 silver-haired bat 1 C13 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad scavenged 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass sear	09/08/2023	unidentified Lasiurus bat	38	C18	carcass search	70-m full plot	dismembered
09/11/2023big brown bat2C20carcass search100-m road and padintact09/11/2023eastern red bat2A04carcass search70-m full plotintact09/11/2023eastern red bat6B07carcass search100-m road and padscavenged09/11/2023eastern red bat57C05carcass search100-m road and padscavenged09/11/2023eastern red bat51C10carcass search60-m full plotscavenged09/11/2023eastern red bat22D04carcass search100-m road and padintact09/11/2023hoary bat6C13carcass search100-m road and padintact09/11/2023silver-haired bat35B06carcass search60-m full plotscavenged09/11/2023silver-haired bat15B10carcass search100-m road and padintact09/11/2023silver-haired bat25B11carcass search100-m road and padintact09/11/2023silver-haired bat21C08carcass search100-m road and padintact09/11/2023silver-haired bat2D04carcass search100-m road and padintact09/11/2023silver-haired bat2D04carcass search100-m road and padintact09/11/2023silver-haired bat2D04carcass search100-m road and padintact09/11/2023silver-haired bat7D10carc	09/09/2023	eastern red bat	47	B01	carcass search	60-m full plot	scavenged
09/11/2023 eastern red bat 09/11/2023 hoary bat 09/11/2023 hoary bat 09/11/2023 silver-haired bat	09/09/2023	silver-haired bat	12		carcass search	100-m road and pad	intact
09/11/2023 eastern red bat 09/11/2023 hoary bat 09/11/2023 hoary bat 09/11/2023 silver-haired	09/11/2023	big brown bat			carcass search	100-m road and pad	intact
09/11/2023 eastern red bat 57 C05 carcass search 100-m road and pad scavenged 09/11/2023 eastern red bat 51 C10 carcass search 60-m full plot scavenged 09/11/2023 eastern red bat 22 D04 carcass search 100-m road and pad intact 09/11/2023 hoary bat 6 C13 carcass search 100-m road and pad intact 09/11/2023 hoary bat 33 D02 carcass search 60-m full plot scavenged 09/11/2023 silver-haired bat 35 B06 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 15 B10 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 25 B11 carcass search 100-m road and pad scavenged 09/11/2023 silver-haired bat 21 C08 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 1 C13 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/1		eastern red bat			carcass search	70-m full plot	intact
09/11/2023 eastern red bat 09/11/2023 eastern red bat 22 D04 carcass search 100-m road and pad intact 09/11/2023 hoary bat 6 C13 carcass search 100-m road and pad intact 09/11/2023 hoary bat 33 D02 carcass search 09/11/2023 silver-haired bat 09/11/2023 silver-haired bat 15 B10 carcass search 100-m road and pad intact 100-m road and pad intact 15 B10 carcass search 100-m road and pad intact 100-m road and	09/11/2023	eastern red bat			carcass search	100-m road and pad	scavenged
09/11/2023 eastern red bat 22 D04 carcass search 100-m road and pad intact 09/11/2023 hoary bat 6 C13 carcass search 100-m road and pad intact 09/11/2023 hoary bat 33 D02 carcass search 60-m full plot scavenged 09/11/2023 silver-haired bat 35 B06 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 15 B10 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 25 B11 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 21 C08 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 1 C13 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 1 C13 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 31 B12 carcass search 100-m road and pad intact	09/11/2023	eastern red bat	57	C05	carcass search	100-m road and pad	scavenged
09/11/2023 hoary bat 09/11/2023 hoary bat 09/11/2023 silver-haired bat	09/11/2023	eastern red bat	51	C10	carcass search	60-m full plot	scavenged
09/11/2023hoary bat33D02carcass search60-m full plotscavenged09/11/2023silver-haired bat35B06carcass search100-m road and padintact09/11/2023silver-haired bat15B10carcass search100-m road and padintact09/11/2023silver-haired bat25B11carcass search100-m road and padintact09/11/2023silver-haired bat21C08carcass search100-m road and padintact09/11/2023silver-haired bat1C13carcass search100-m road and padintact09/11/2023silver-haired bat2D04carcass search100-m road and padintact09/11/2023silver-haired bat20D07carcass search100-m road and padintact09/12/2023eastern red bat7D10carcass search60-m full plotscavenged09/12/2023eastern red bat31B12carcass search100-m road and padintact	09/11/2023	eastern red bat	22	D04	carcass search		intact
09/11/2023 silver-haired bat 09/11/2023 silver-haired bat 15 B10 carcass search 100-m road and pad intact 15 B10 carcass search 100-m road and pad intact 100/m road and pad intact	09/11/2023	hoary bat		C13	carcass search	100-m road and pad	intact
09/11/2023 silver-haired bat 15 B10 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 25 B11 carcass search 100-m road and pad scavenged 09/11/2023 silver-haired bat 21 C08 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 1 C13 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 20 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 20 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 7 D10 carcass search 60-m full plot scavenged 09/12/2023 eastern red bat 31 B12 carcass search 100-m road and pad intact	09/11/2023	hoary bat	33	D02	carcass search	60-m full plot	scavenged
09/11/2023 silver-haired bat 25 B11 carcass search 100-m road and pad scavenged 09/11/2023 silver-haired bat 21 C08 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 1 C13 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad scavenged 09/11/2023 silver-haired bat 20 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 7 D10 carcass search 60-m full plot scavenged 09/12/2023 eastern red bat 31 B12 carcass search 100-m road and pad intact	09/11/2023	silver-haired bat	35	B06	carcass search	100-m road and pad	intact
09/11/2023 silver-haired bat 21 C08 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 1 C13 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 2 D04 carcass search 100-m road and pad scavenged 09/11/2023 silver-haired bat 20 D07 carcass search 100-m road and pad intact 09/11/2023 silver-haired bat 7 D10 carcass search 60-m full plot scavenged 09/12/2023 eastern red bat 31 B12 carcass search 100-m road and pad intact	09/11/2023	silver-haired bat	15	B10	carcass search	100-m road and pad	intact
09/11/2023 silver-haired bat 09/12/2023 eastern red bat 1 C13 carcass search 100-m road and pad intact 1 D10 carcass search 100-m road and pad intact 1 C13 carcass search 100-m road and pad intact 1 D10 carcass search 100-m road and pad intact 1 D10 carcass search 100-m road and pad intact 1 C13 carcass search 100-m road and pad intact 1 D10 carcass search 100-m road and pad intact 1 D10 carcass search 100-m road and pad intact	09/11/2023	silver-haired bat	25	B11	carcass search	100-m road and pad	scavenged
09/11/2023silver-haired bat2D04carcass search100-m road and padscavenged09/11/2023silver-haired bat20D07carcass search100-m road and padintact09/11/2023silver-haired bat7D10carcass search60-m full plotscavenged09/12/2023eastern red bat31B12carcass search100-m road and padintact	09/11/2023	silver-haired bat	21	C08	carcass search	100-m road and pad	intact
09/11/2023silver-haired bat20D07carcass search100-m road and pad intact09/11/2023silver-haired bat7D10carcass search60-m full plotscavenged09/12/2023eastern red bat31B12carcass search100-m road and pad intact	09/11/2023	silver-haired bat	1	C13	carcass search	100-m road and pad	intact
09/11/2023 silver-haired bat 7 D10 carcass search 60-m full plot scavenged 09/12/2023 eastern red bat 31 B12 carcass search 100-m road and pad intact	09/11/2023	silver-haired bat			carcass search		scavenged
09/12/2023 eastern red bat 31 B12 carcass search 100-m road and pad intact	09/11/2023	silver-haired bat	20	D07	carcass search	100-m road and pad	intact
09/12/2023 eastern red bat 31 B12 carcass search 100-m road and pad intact	09/11/2023	silver-haired bat	7	D10	carcass search	60-m full plot	scavenged
09/12/2023 silver-haired bat 31 A02 carcass search 100-m road and pad intact	09/12/2023	eastern red bat	31	B12	carcass search	100-m road and pad	intact
	09/12/2023	silver-haired bat	31	A02	carcass search	100-m road and pad	intact

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Found Date Species Turbine (m) Turbine (m) Turbine Search Type Search Area Type Physical Condition 99/13/2023 silver-haired bat 34 C21 carcass search 100-m road and pad carcass search 100-m			Distance from				
09/13/2023 silver-haired bat 34			Turbine (m)			Search Area Type ¹	Physical Condition
99/13/2023 exerem red bat 23						•	<u> </u>
09/13/2023 09/						•	
1						•	
09/13/2023 silver-haired bat 21		•					
09/13/2023 silver-haired bat 01							
09/14/2023 eastern red bat 28 C16 carcass search 100-m road and pad intact 09/14/2023 eastern red bat 12 D10 carcass search 60-m full plot intact 09/14/2023 silver-haired bat 35 D02 carcass search 60-m full plot scavenged 09/15/2023 silver-haired bat 35 B25 carcass search 60-m full plot scavenged 09/15/2023 silver-haired bat 63 A04 carcass search 70-m full plot intact 09/18/2023 silver-haired bat 19 C10 carcass search 60-m full plot intact 09/18/2023 salver-haired bat 10 B03 carcass search 100-m road and pad intact 09/19/2023 salver-haired bat 21 C19 carcass search 100-m road and pad intact 09/19/2023 sastern red bat 38 B07 carcass search 100-m road and pad scavenged 09/19/2023 sastern red bat 32 B15 car						•	
09/14/2023 satern red bat 12 D10 carcass search 60-m full plot intact 09/14/2023 silver-haired bat 35 D02 carcass search 70-m full plot scavenged 09/15/2023 silver-haired bat 35 B25 carcass search 100-m road and pad intact 09/15/2023 silver-haired bat 19 C10 carcass search 70-m full plot scavenged 09/18/2023 silver-haired bat 10 B03 carcass search 100-m road and pad intact 09/18/2023 hoary bat 13 B24 carcass search 100-m road and pad intact 09/18/2023 silver-haired bat 21 C19 carcass search 100-m road and pad intact 09/19/2023 eastern red bat 63 B06 carcass search 100-m road and pad intact 09/19/2023 eastern red bat 32 B15 carcass search 100-m road and pad scavenged 09/19/2023 eastern red bat 32 B15 carc					_		
09/14/2023 silver-haired bat 20 A01 carcass search 70-m full plot scavenged 09/14/2023 silver-haired bat 35 D02 carcass search 60-m full plot scavenged 09/15/2023 silver-haired bat 63 A04 carcass search 70-m full plot scavenged 09/15/2023 silver-haired bat 19 C10 carcass search 60-m full plot scavenged 09/18/2023 eastern red bat 10 B03 carcass search 60-m full plot intact 09/18/2023 hoary bat 13 B24 carcass search 70-m full plot scavenged 09/19/2023 eastern red bat 21 C19 carcass search 100-m road and pad intact 09/19/2023 eastern red bat 38 B07 carcass search 100-m road and pad scavenged 09/19/2023 eastern red bat 32 B15 carcass search 70-m full plot scavenged 09/19/2023 silver-haired bat 4 B10 incident							
09/14/2023 silver-haired bat 35 D02 carcass search 60-m full plot scavenged 09/15/2023 silver-haired bat 35 B25 carcass search 100-m road and pad intact 09/15/2023 silver-haired bat 19 C10 carcass search 60-m full plot intact 09/18/2023 silver-haired bat 10 B03 carcass search 60-m full plot intact 09/18/2023 bastern red bat 10 B03 carcass search 100-m road and pad intact 09/18/2023 bastern red bat 21 C19 carcass search 100-m road and pad intact 09/19/2023 eastern red bat 38 B06 carcass search 100-m road and pad scavenged 09/19/2023 eastern red bat 32 B15 carcass search 70-m full plot scavenged 09/19/2023 eastern red bat 8 C21 carcass search 70-m full plot scavenged 09/19/2023 bastern red bat 4 C10 carcas							
09/15/2023 eastern red bat 35 B25 carcass search 100-m road and pad intact 09/15/2023 silver-haired bat 63 A04 carcass search 70-m full plot scavenged 09/18/2023 eastern red bat 19 C10 Carcass search 100-m road and pad intact 09/18/2023 hoary bat 13 B24 carcass search 100-m road and pad intact 09/18/2023 silver-haired bat 21 C19 carcass search 100-m road and pad intact 09/19/2023 eastern red bat 63 B06 carcass search 100-m road and pad cacwenged 09/19/2023 eastern red bat 38 B07 carcass search 100-m road and pad scavenged 09/19/2023 eastern red bat 32 B15 carcass search 70-m full plot scavenged 09/19/2023 eastern red bat 8 C21 carcass search 100-m road and pad intact 09/19/2023 silver-haired bat 4 C07 ca							_
09/15/2023 silver-haired bat 63 A04 carcass search 70-m full plot scavenged 09/15/2023 silver-haired bat 19 C10 carcass search 60-m full plot intact 09/18/2023 beatern red bat 10 B03 carcass search 100-m road and pad intact 09/18/2023 silver-haired bat 21 C19 carcass search 100-m road and pad cavenged 09/19/2023 eastern red bat 63 B06 carcass search 100-m road and pad cavenged 09/19/2023 eastern red bat 38 B07 carcass search 100-m road and pad cavenged 09/19/2023 eastern red bat 32 B15 carcass search 70-m full plot scavenged 09/19/2023 eastern red bat 8 C21 carcass search 70-m full plot scavenged 09/19/2023 silver-haired bat 4 B10 incidental** 100-m road and pad cavenged 09/19/2023 silver-haired bat 4 C07 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td></t<>							_
09/15/2023 silver-haired bat 19 C10 carcass search 60-m full plot intact 09/18/2023 hoary bat 13 B24 carcass search 100-m road and pad intact 09/18/2023 silver-haired bat 21 C19 carcass search 100-m road and pad intact 09/19/2023 eastern red bat 63 B06 carcass search 100-m road and pad scavenged 09/19/2023 eastern red bat 38 B07 carcass search 100-m road and pad scavenged 09/19/2023 eastern red bat 32 B15 carcass search 70-m full plot scavenged 09/19/2023 eastern red bat 32 B15 carcass search 100-m road and pad intact 09/19/2023 hoary bat 44 B10 incidental** 100-m road and pad scavenged 09/19/2023 silver-haired bat 4 C07 carcass search 70-m full plot intact 09/20/2023 eastern red bat 31 A04 carcass searc							
09/18/2023 eastern red bat 10 B03 carcass search 100-m road and pad intact 09/18/2023 hoary bat 13 B24 carcass search 70-m full plot scavenged 09/18/2023 silver-haired bat 21 C19 carcass search 100-m road and pad intact 09/19/2023 eastern red bat 38 B06 carcass search 100-m road and pad scavenged 09/19/2023 eastern red bat 38 B07 carcass search 70-m full plot scavenged 09/19/2023 eastern red bat 32 B15 carcass search 70-m full plot scavenged 09/19/2023 eastern red bat 8 C21 carcass search 70-m full plot scavenged 09/19/2023 silver-haired bat 4 B10 incidental** 100-m road and pad scavenged 09/19/2023 silver-haired bat 4 C07 carcass search 70-m full plot intact 09/20/2023 eastern red bat 31 A04 carcass sea							_
09/18/2023 hoary bat 13 B24 carcass search 70-m full plot scavenged 09/18/2023 silver-haired bat 21 C19 carcass search 100-m road and pad intact 09/19/2023 eastern red bat 38 B07 carcass search 100-m road and pad scavenged 09/19/2023 eastern red bat 32 B15 carcass search 70-m full plot scavenged 09/19/2023 eastern red bat 32 B15 carcass search 70-m full plot scavenged 09/19/2023 eastern red bat 8 C21 carcass search 100-m road and pad intact 09/19/2023 silver-haired bat 4 B10 incidental** 100-m road and pad cavenged 09/19/2023 silver-haired bat 5 B24 carcass search 70-m full plot intact 09/19/2023 silver-haired bat 1 A04 carcass search 70-m full plot intact 09/20/2023 eastern red bat 31 A04 carcass search							
09/18/2023 silver-haired bat 63 B06 carcass search 100-m road and pad scavenged 99/19/2023 eastern red bat 38 B07 carcass search 100-m road and pad scavenged 99/19/2023 eastern red bat 17 B15 carcass search 70-m full plot scavenged 99/19/2023 eastern red bat 32 B15 carcass search 70-m full plot scavenged 99/19/2023 eastern red bat 32 B15 carcass search 100-m road and pad intact 99/19/2023 eastern red bat 32 B15 carcass search 100-m road and pad intact 99/19/2023 eastern red bat 8 C21 carcass search 100-m road and pad intact 109/19/2023 silver-haired bat 15 B24 carcass search 100-m road and pad scavenged 109/19/2023 silver-haired bat 15 B24 carcass search 100-m road and pad 109/20/2023 eastern red bat 17 B15 carcass search 100-m road and pad 109/20/2023 eastern red bat 17 B15 carcass search 100-m road and pad 109/20/2023 eastern red bat 17 B15 carcass search 100-m road and pad 109/20/2023 eastern red bat 17 B15 carcass search 100-m road and pad 109/20/2023 eastern red bat 17 B15 carcass search 100-m road and pad 109/20/2023 eastern red bat 17 B15 carcass search 100-m road and pad 109/20/2023 eastern red bat 15 B11 carcass search 100-m road and pad 109/20/2023 eastern red bat 15 B11 carcass search 100-m road and pad 109/20/2023 eastern red bat 15 B11 carcass search 100-m road and pad 109/20/2023 eastern red bat 15 B11 carcass search 100-m road and pad 109/20/2023 eastern red bat 15 B11 carcass search 100-m road and pad 109/25/2023 eastern red bat 23 A02 carcass search 100-m road and pad 100-m road and pad 109/25/2023 eastern red bat 23 A02 carcass search 100-m road and pad 100-m road and pad 100-m road and pad 100-m road and pad 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad 100-m road					carcass search	•	
09/19/2023 eastern red bat eas		•			carcass search		_
09/19/2023 eastern red bat 17 B15 carcass search 70-m full plot scavenged o9/19/2023 eastern red bat 32 B15 carcass search 70-m full plot scavenged o9/19/2023 eastern red bat 8 C21 carcass search 100-m road and pad intact 09/19/2023 hoary bat 44 B10 incidental** 100-m road and pad scavenged o9/19/2023 silver-haired bat 5 B24 carcass search 100-m road and pad scavenged o9/20/2023 eastern red bat 31 A04 carcass search 100-m road and pad scavenged o9/20/2023 eastern red bat 17 B15 carcass search 70-m full plot intact 09/20/2023 eastern red bat 17 B15 carcass search 70-m full plot intact 09/20/2023 eastern red bat 37 B23 carcass search 100-m road and pad scavenged o9/20/2023 eastern red bat 37 B23 carcass search 100-m road and pad scavenged 09/20/2023 eastern red bat 37 B23 carcass search 100-m road and pad scavenged 09/20/2023 silver-haired bat 35 A01 carcass search 100-m road and pad scavenged 09/21/2023 eastern red bat 15 B11 carcass search 100-m road and pad scavenged 09/22/2023 eastern red bat 15 B11 carcass search 100-m road and pad scavenged 09/22/2023 eastern red bat 33 C06 carcass search 100-m road and pad intact 109/25/2023 eastern red bat 23 A02 carcass search 100-m road and pad intact 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad intact 109/25/2023 eastern red bat 35 B24 carcass search 70-m full plot scavenged 100-m road and pad intact 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad intact 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad 100-m road and pad 100-m road and pad 100-m road 200-m road 200-					carcass search		
09/19/2023 eastern red bat 09/19/2023 eastern red bat 09/19/2023 eastern red bat 09/19/2023 eastern red bat 09/19/2023 hoary bat 09/19/2023 silver-haired bat 09/20/2023 eastern red bat 09/20/2023 silver-haired bat 09/20/2023 silver-haired bat 09/20/2023 silver-haired bat 09/20/2023 silver-haired bat 09/20/2023 eastern red bat 09/22/2023 eastern red bat 09/25/2023 eastern red bat					carcass search		
09/19/2023 eastern red bat 09/19/2023 hoary bat 09/19/2023 silver-haired bat 09/20/2023 eastern red bat 09/20/2023 eastern red bat 09/20/2023 eastern red bat 09/20/2023 silver-haired bat 09/20/2023 eastern red bat 09/20/2023 silver-haired bat 09/21/2023 eastern red bat 09/22/2023 silver-haired bat 09/22/2023 silver-haired bat 09/22/2023 silver-haired bat 09/22/2023 eastern red bat 09/22/2023 eastern red bat 09/22/2023 eastern red bat 09/25/2023 eastern red bat					carcass search	•	
09/19/2023 eastern red bat 44 B10 incidental** 100-m road and pad scavenged 09/19/2023 silver-haired bat 5 B24 carcass search 100-m road and pad intact 09/19/2023 silver-haired bat 4 C07 carcass search 100-m road and pad scavenged 09/20/2023 eastern red bat 31 A04 carcass search 70-m full plot intact 09/20/2023 eastern red bat 17 B15 carcass search 70-m full plot intact 09/20/2023 eastern red bat 37 B23 carcass search 100-m road and pad scavenged 09/20/2023 hoary bat 72 D05 carcass search 100-m road and pad scavenged 09/20/2023 silver-haired bat 35 A01 carcass search 100-m road and pad scavenged 09/21/2023 eastern red bat 15 B11 carcass search 100-m road and pad scavenged 09/22/2023 eastern red bat 33 C06 carcass search 100-m road and pad intact 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad intact 109/25/2023 eastern red bat 23 A02 carcass search 100-m road and pad intact 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad intact 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad intact 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad intact 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad 100-m road and pad 100-m road 200/25/2023 eastern red bat 11 C06 carcass search 100-m road 200/25/2023 eastern red bat 11 C06 carcass search 100-m road 200/25/2023 eastern red bat 11 C06 carcass search 100-m road 200/25/2023 eastern red bat 11 C06 carcass search 100-m road 200/25/2023 eastern red bat 11 C06 carcass search 100-m road 200/25/2023 eastern red bat 11 C06 carcass search 100-m road 200/25/2023 eastern red bat 11 C06 carcass search 100-m road 200/25/2023 eastern red bat 11 C06 carcass search 100-m road 200/25/					carcass search		
09/19/2023 hoary bat 44 B10 incidental** 100-m road and pad scavenged o9/19/2023 silver-haired bat 5 B24 carcass search 70-m full plot intact o9/19/2023 eastern red bat 31 A04 carcass search 70-m full plot intact o9/20/2023 eastern red bat 17 B15 carcass search 70-m full plot intact o9/20/2023 eastern red bat 37 B23 carcass search 100-m road and pad scavenged o9/20/2023 eastern red bat 37 B23 carcass search 100-m road and pad scavenged o9/20/2023 hoary bat 72 D05 carcass search 100-m road and pad scavenged o9/20/2023 silver-haired bat 35 A01 carcass search 100-m road and pad scavenged o9/21/2023 eastern red bat 15 B11 carcass search 100-m road and pad scavenged o9/22/2023 silver-haired bat 33 C06 carcass search 100-m road and pad intact o9/25/2023 eastern red bat 23 A02 carcass search 100-m road and pad intact o9/25/2023 eastern red bat 35 B24 carcass search 70-m full plot scavenged o9/25/2023 eastern red bat 11 C06 carcass search 70-m full plot scavenged o9/25/2023 eastern red bat 35 B24 carcass search 70-m full plot scavenged o9/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged o9/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged o9/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged o9/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged					carcass search		scavenged
09/19/2023 silver-haired bat 5 B24 carcass search 70-m full plot intact 09/19/2023 silver-haired bat 4 C07 carcass search 100-m road and pad scavenged 09/20/2023 eastern red bat 31 A04 carcass search 70-m full plot intact 09/20/2023 eastern red bat 17 B15 carcass search 70-m full plot intact 09/20/2023 eastern red bat 37 B23 carcass search 100-m road and pad scavenged 09/20/2023 hoary bat 72 D05 carcass search 100-m road and pad scavenged 09/20/2023 silver-haired bat 35 A01 carcass search 100-m road and pad scavenged 09/21/2023 eastern red bat 15 B11 carcass search 100-m road and pad scavenged 09/22/2023 silver-haired bat 33 C06 carcass search 100-m road and pad intact 09/25/2023 eastern red bat 23 A02 carcass search 100-m road and pad intact 09/25/2023 eastern red bat 35 B24 carcass search 70-m full plot scavenged 09/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad intact 09/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad scavenged 09/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad scavenged		eastern red bat				•	intact
09/19/2023 silver-haired bat 4 C07 carcass search 100-m road and pad scavenged 09/20/2023 eastern red bat 17 B15 carcass search 70-m full plot intact 09/20/2023 eastern red bat 37 B23 carcass search 100-m road and pad scavenged 09/20/2023 hoary bat 72 D05 carcass search 100-m road and pad scavenged 09/20/2023 silver-haired bat 35 A01 carcass search 100-m road and pad scavenged 09/21/2023 eastern red bat 15 B11 carcass search 100-m road and pad scavenged 09/22/2023 silver-haired bat 33 C06 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 23 A02 carcass search 100-m road and pad intact 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 35 B24 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged 109/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged		hoary bat			incidental**	100-m road and pad	scavenged
09/20/2023 eastern red bat 17 B15 carcass search 70-m full plot intact 17 09/20/2023 eastern red bat 17 B15 carcass search 70-m full plot intact 18 09/20/2023 eastern red bat 17 B23 carcass search 100-m road and pad 18 scavenged 19/20/2023 hoary bat 19/20/2023 silver-haired bat 19/20/2023 eastern red bat 15 B11 carcass search 100-m road and pad 18 scavenged 19/21/2023 eastern red bat 15 B11 carcass search 100-m road and pad 18 scavenged 19/22/2023 silver-haired bat 18 B11 carcass search 100-m road and pad 18 scavenged 19/22/2023 eastern red bat 18 A02 carcass search 100-m road and pad 18 intact 18 Constant 19/25/2023 eastern red bat 1	09/19/2023	silver-haired bat			carcass search	70-m full plot	intact
09/20/2023 eastern red bat 09/20/2023 eastern red bat 09/20/2023 hoary bat 09/20/2023 silver-haired bat 09/21/2023 eastern red bat 09/21/2023 eastern red bat 09/21/2023 eastern red bat 09/21/2023 eastern red bat 09/22/2023 silver-haired bat 09/22/2023 silver-haired bat 09/22/2023 silver-haired bat 09/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad intact	09/19/2023	silver-haired bat			carcass search	100-m road and pad	scavenged
09/20/2023 eastern red bat 09/20/2023 hoary bat 72 D05 carcass search 100-m road and pad scavenged 09/20/2023 silver-haired bat 09/21/2023 eastern red bat 15 B11 carcass search 100-m road and pad scavenged 109/21/2023 eastern red bat 15 B11 carcass search 100-m road and pad scavenged 109/22/2023 silver-haired bat 109/25/2023 eastern red bat 100-m road and pad intact 1009/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad intact 1009/25/2023 eastern red bat 1009/25/2023 eastern red bat 1009/25/2023 eastern red bat 11 C06 carcass search 1000-m road and pad intact 1009/25/2023 eastern red bat 11 C06 carcass search 1000-m road and pad scavenged	09/20/2023	eastern red bat	31		carcass search	70-m full plot	intact
09/20/2023hoary bat72D05carcass search100-m road and padscavenged09/20/2023silver-haired bat35A01carcass search70-m full plotscavenged09/21/2023eastern red bat15B11carcass search100-m road and padscavenged09/22/2023silver-haired bat33C06carcass search100-m road and padintact09/25/2023eastern red bat23A02carcass search100-m road and padintact09/25/2023eastern red bat35B24carcass search70-m full plotscavenged09/25/2023eastern red bat11C06carcass search100-m road and padscavenged	09/20/2023	eastern red bat			carcass search		intact
09/20/2023silver-haired bat35A01carcass search70-m full plotscavenged09/21/2023eastern red bat15B11carcass search100-m road and padscavenged09/22/2023silver-haired bat33C06carcass search100-m road and padintact09/25/2023eastern red bat23A02carcass search100-m road and padintact09/25/2023eastern red bat35B24carcass search70-m full plotscavenged09/25/2023eastern red bat11C06carcass search100-m road and padscavenged	09/20/2023	eastern red bat			carcass search		scavenged
09/21/2023 eastern red bat 15 B11 carcass search 100-m road and pad scavenged 09/22/2023 silver-haired bat 33 C06 carcass search 100-m road and pad intact 09/25/2023 eastern red bat 23 A02 carcass search 100-m road and pad intact 09/25/2023 eastern red bat 35 B24 carcass search 70-m full plot scavenged 09/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged	09/20/2023	hoary bat	72	D05	carcass search	100-m road and pad	scavenged
09/22/2023silver-haired bat33C06carcass search100-m road and pad intact09/25/2023eastern red bat23A02carcass search100-m road and pad intact09/25/2023eastern red bat35B24carcass search70-m full plotscavenged09/25/2023eastern red bat11C06carcass search100-m road and padscavenged	09/20/2023	silver-haired bat	35	A01	carcass search	70-m full plot	scavenged
09/25/2023eastern red bat23A02carcass search100-m road and pad intact09/25/2023eastern red bat35B24carcass search70-m full plotscavenged09/25/2023eastern red bat11C06carcass search100-m road and padscavenged	09/21/2023	eastern red bat	15	B11	carcass search	100-m road and pad	scavenged
09/25/2023 eastern red bat 35 B24 carcass search 70-m full plot scavenged 09/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged	09/22/2023	silver-haired bat		C06	carcass search	100-m road and pad	intact
09/25/2023 eastern red bat 35 B24 carcass search 70-m full plot scavenged 09/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged	09/25/2023	eastern red bat	23	A02	carcass search	100-m road and pad	intact
09/25/2023 eastern red bat 11 C06 carcass search 100-m road and pad scavenged	09/25/2023	eastern red bat	35	B24	carcass search		scavenged
09/25/2023 eastern red bat 10 C14 carcass search 100-m road and pad dismembered	09/25/2023	eastern red bat	11	C06	carcass search		_
	09/25/2023	eastern red bat	10	C14	carcass search	100-m road and pad	dismembered

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Turbine (m) Turbine (m) Turbine (m) Turbine (m) Search Type Search Area Type Physical Condition			Distance from				
09/25/2023 eastern red bat 20							
99/25/2023 eastern red bat 20						•	•
09/26/2023 eastern red bat 53 A04 carcass search 70-m full plot scavenged 09/26/2023 eastern red bat 35 B23 incidental n/a intact 09/26/2023 eastern red bat 41 B24 carcass search 70-m full plot scavenged 09/26/2023 eastern red bat 41 B24 carcass search 70-m full plot scavenged 09/26/2023 eastern red bat 41 B24 carcass search 70-m full plot scavenged 09/26/2023 eastern red bat 41 C20 carcass search 100-m road and pad intact 09/26/2023 eastern red bat 9 D07 carcass search 100-m road and pad intact 09/26/2023 silver-haired bat 11 C19 incidental n/a carcass search 100-m road and pad intact 09/27/2023 eastern red bat 55 B06 carcass search 100-m road and pad intact 09/27/2023 eastern red bat 11 B03 carcass search 100-m road and pad intact 09/28/2023 silver-haired bat 19 B15 incidental n/a scavenged 09/28/2023 silver-haired bat 16 A02 incidental n/a scavenged 09/28/2023 eastern red bat 33 A06 carcass search 60-m full plot intact 09/28/2023 eastern red bat 33 A06 carcass search 60-m full plot intact 09/29/2023 eastern red bat 33 A06 carcass search 60-m full plot intact 09/29/2023 eastern red bat 38 D08 carcass search 60-m full plot intact 09/29/2023 eastern red bat 38 D08 carcass search 60-m full plot intact 09/29/2023 eastern red bat 27 A01 carcass search 100-m road and pad intact 09/29/2023 eastern red bat 27 A01 carcass search 100-m road and pad intact 09/29/2023 eastern red bat 27 A07 carcass search 100-m road and pad intact 09/29/2023 eastern red bat 27 A07 carcass search 100-m road and pad intact 09/29/2023 eastern red bat 27 A07 carcass search 100-m road and pad intact 09/29/2023 eastern red bat 27 A07 carcass search 100-m road and pad intact 09						•	-
09/26/2023 eastern red bat 22 B14 carcass search 100-m road and pad scavenged 109/26/2023 eastern red bat 41 B24 carcass search 100-m road and pad scavenged 109/26/2023 eastern red bat 11 C20 carcass search 100-m road and pad scavenged 09/26/2023 eastern red bat 9 D07 carcass search 100-m road and pad intact 109/26/2023 eastern red bat 9 D07 carcass search 100-m road and pad intact 109/26/2023 eastern red bat 9 D07 carcass search 100-m road and pad intact 109/27/2023 eastern red bat 55 B06 carcass search 100-m road and pad intact 109/27/2023 eastern red bat 11 B03 carcass search 100-m road and pad intact 109/27/2023 eastern red bat 19 B15 incidental n/a scavenged 109/28/2023 eastern red bat 58 C10 carcass search 60-m full plot intact 109/28/2023 eastern red bat 4 B06 incidental n/a scavenged 109/29/2023 eastern red bat 33 A06 carcass search 100-m road and pad intact 100/20203 eastern red bat 33 A06 carcass search 100-m road and pad intact 100/20203 eastern red bat 37 A05 carcass search 100-m road and pad intact 100/20203 eastern red bat 27 A01 carcass search 100-m road and pad intact 100/20203 eastern red bat 27 A01 carcass search 100-m road and pad intact 100/20203 eastern red bat 47 B24 carcass search 100-m road and pad intact 100/20203 eastern red bat 47 B24 carcass search 100-m road and pad intact 100/20203 eastern red bat 47 B24 carcass search 100-m road and pad intact 100/20203 eastern red bat 47 B24 carcass search 100-m road and pad intact 100/20203 eastern red bat 40 C17 carcass search 100-m road and pad intact 100/20203 eastern red bat 40 C17 carcass search 100-m road and pad intact 100/20203 eastern red bat 40 C17 carcass search 100-m road and pad intact 100/20203 eastern red bat						•	-
09/26/2023 eastern red bat 35 B23 incidental n/a carcass search 100-m road and pad carcass search carcass search 100-m road and pad carcass search carc						•	-
09/26/2023 eastern red bat 41 B24 carcass search 70-m full plot scavenged 09/26/2023 eastern red bat 11 C20 carcass search 100-m road and pad intact 09/26/2023 eastern red bat 9 D07 carcass search 100-m road and pad intact 09/27/2023 silver-haired bat 11 C19 incidental n/a intact 09/27/2023 silver-haired bat 11 B03 carcass search 100-m road and pad intact 09/27/2023 silver-haired bat 19 B15 incidental n/a scavenged 09/28/2023 silver-haired bat 16 A02 incidental n/a scavenged 09/28/2023 silver-haired bat 4 B06 incidental n/a scavenged 09/29/2023 sastern red bat 33 A06 carcass search 100-m road and pad intact 09/29/2023 sastern red bat 7 A05 carcass search 100-m road and pad <						•	<u> </u>
09/26/2023 eastern red bat 3 B25 carcass search 100-m road and pad scavenged scavenged 09/26/2023 eastern red bat 9 D07 carcass search 100-m road and pad intact intact 09/26/2023 silver-haired bat 11 C19 incidental n/a intact 09/27/2023 silver-haired bat 55 B06 carcass search 100-m road and pad intact intact 09/27/2023 hoary bat 11 B03 carcass search 100-m road and pad intact intact 09/28/2023 silver-haired bat 58 C10 carcass search 60-m full plot scavenged 09/28/2023 silver-haired bat 33 A06 incidental n/a scavenged 09/29/2023 eastern red bat 33 A06 carcass search 60-m full plot scavenged 09/29/2023 eastern red bat 38 D08 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 27 A01 carcass							
09/26/2023 eastern red bat 11 C20 carcass search 100-m road and pad intact intact 09/26/2023 silver-haired bat 11 C19 incidental incidental intact intact 09/27/2023 silver-haired bat 11 B03 carcass search 100-m road and pad intact intact 09/27/2023 silver-haired bat 11 B03 carcass search 100-m road and pad intact intact 09/28/2023 silver-haired bat 19 B15 incidental n/a n/a scavenged 09/28/2023 silver-haired bat 16 A02 incidental n/a n/a scavenged 09/28/2023 silver-haired bat 4 B06 incidental n/a n/a scavenged 09/29/2023 eastern red bat 33 A06 carcass search 60-m full plot intact 09/29/2023 eastern red bat 7 A05 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 27 A01 carcass search 100							<u> </u>
09/26/2023 eastern red bat 9 D07 carcass search 100-m road and pad intact intact 09/27/2023 eastern red bat 55 B06 carcass search 100-m road and pad intact intact 09/27/2023 hoary bat 11 B03 carcass search 100-m road and pad intact intact 09/27/2023 silver-haired bat 19 B15 incidental incidental n/a seavenged 09/28/2023 silver-haired bat 16 A02 incidental n/a seavenged 09/28/2023 silver-haired bat 4 B06 incidental n/a seavenged 09/29/2023 eastern red bat 33 A06 carcass search 60-m full plot seavenged 09/29/2023 eastern red bat 38 D08 carcass search 100-m road and pad intact 10/02/2023 silver-haired bat 7 A05 carcass search 100-m road and pad intact 10/02/2023 sastern red bat 27 A01 carcass search							•
09/26/2023 silver-haired bat 11 C19 incidental n/a intact 09/27/2023 eastern red bat 55 B06 carcass search 100-m road and pad intact 09/27/2023 silver-haired bat 19 B15 incidental n/a scavenged 09/28/2023 silver-haired bat 16 A02 incidental** 100-m road and pad intact 09/28/2023 silver-haired bat 16 A02 incidental** 100-m road and pad intact 09/28/2023 silver-haired bat 4 B06 incidental** 100-m road and pad intact 09/29/2023 eastern red bat 33 A06 carcass search 60-m full plot scavenged 09/29/2023 eastern red bat 38 D08 carcass search 100-m road and pad intact 09/29/2023 saltern red bat 7 A05 carcass search 100-m road and pad intact 09/29/2023 saltern red bat 27 A01 carcass search 70-m f							
09/27/2023 eastern red bat 55 B06 carcass search 100-m road and pad intact intact 09/27/2023 silver-haired bat 19 B15 incidental n/a scavenged 09/28/2023 eastern red bat 58 C10 carcass search 60-m full plot intact intact 09/28/2023 silver-haired bat 16 A02 incidental** 100-m road and pad intact intact 09/28/2023 silver-haired bat 4 B06 incidental n/a scavenged 09/28/2023 eastern red bat 33 A06 carcass search 60-m full plot scavenged 09/29/2023 eastern red bat 36 C20 carcass search 100-m road and pad intact 09/29/2023 eastern red bat 38 D08 carcass search 100-m road and pad intact 09/29/2023 eastern red bat 12 B13 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 12 B13 carcass search 70-m full plot scavenged 10/03/2023 eastern red bat <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
09/27/2023 hoary bat 11 B03 carcass search 100-m road and pad intact 09/28/2023 silver-haired bat 19 B15 incidental n/a scavenged 09/28/2023 seatern red bat 16 A02 incidental** 100-m road and pad intact 09/28/2023 silver-haired bat 4 B06 incidental n/a scavenged 09/28/2023 silver-haired bat 4 B06 incidental n/a scavenged 09/29/2023 eastern red bat 33 A06 carcass search 60-m full plot scavenged 09/29/2023 eastern red bat 38 D08 carcass search 100-m road and pad intact 09/29/2023 eastern red bat 27 A01 carcass search 70-m full plot scavenged 09/29/2023 eastern red bat 27 A01 carcass search 70-m full plot scavenged 10/02/2023 eastern red bat 27 A01 carcass search 70-m full plot					incidental		
09/27/2023 silver-haired bat 19 B15 incidental n/a scavenged 09/28/2023 seastern red bat 58 C10 carcass search 60-m full plot intact 09/28/2023 silver-haired bat 16 A02 incidental*** 100-m road and pad intact 09/28/2023 silver-haired bat 4 B06 incidental n/a scavenged 09/29/2023 eastern red bat 33 A06 carcass search 60-m full plot scavenged 09/29/2023 eastern red bat 38 D08 carcass search 100-m road and pad intact 09/29/2023 silver-haired bat 7 A05 carcass search 100-m road and pad intact 09/29/2023 silver-haired bat 27 A01 carcass search 70-m full plot intact 10/02/2023 eastern red bat 27 A01 carcass search 70-m full plot intact 10/02/2023 eastern red bat 47 B24 Carcass search 70-m full						•	
09/28/2023 eastern red bat 58 C10 carcass search 60-m full plot intact 09/28/2023 silver-haired bat 16 A02 incidental** 100-m road and pad intact 09/28/2023 silver-haired bat 4 B06 incidental** n/a scavenged 09/29/2023 eastern red bat 33 A06 carcass search 60-m full plot scavenged 09/29/2023 eastern red bat 56 C20 carcass search 100-m road and pad intact 09/29/2023 silver-haired bat 7 A05 carcass search 70-m full plot scavenged 10/02/2023 eastern red bat 27 A01 carcass search 70-m full plot scavenged 10/02/2023 eastern red bat 47 B24 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 40 C17 carcass search 70-m full plot scavenged 10/03/2023 eastern red bat 14 C02 carcass search							
09/28/2023 silver-haired bat 4 B06 incidental** 100-m road and pad scavenged silver-haired bat 4 B06 incidental n/a scavenged scavenged o9/29/2023 eastern red bat 56 C20 carcass search 100-m road and pad intact 109/29/2023 eastern red bat 38 D08 carcass search 100-m road and pad scavenged o9/29/2023 silver-haired bat 7 A05 carcass search 100-m road and pad scavenged intact 10/02/2023 eastern red bat 27 A01 carcass search 70-m full plot scavenged intact 10/02/2023 eastern red bat 12 B13 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 47 B24 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 47 B24 carcass search 100-m road and pad 10/03/2023 eastern red bat 40 C17 carcass search 100-m road and pad 10/03/2023 eastern red bat 39 B15 carcass search 100-m road and pad 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad 10/03/2023 eastern red bat 17 A01 carcass search 100-m road and pad 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad 10/04/2023 eastern red bat 14 A02 carcass search 100-m road and pad 10/04/2023 eastern red bat 14 A02 carcass search 100-m road and pad 10/04/2023 silver-haired bat 14 A02 carcass search 100-m road and pad 10/04/2023 big brown bat 76 C05 carcass search 100-m road and pad 10/04/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged 10/06/2023 eastern red bat 27 A06 carcass search 100-m					incidental		
09/28/2023 silver-haired bat 33 A06 carcass search 60-m full plot scavenged o9/29/2023 eastern red bat 56 C20 carcass search 100-m road and pad intact 10/02/2023 silver-haired bat 7 A05 carcass search 100-m road and pad scavenged intact 10/02/2023 eastern red bat 27 A01 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 12 B13 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 12 B13 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 47 B24 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 40 C17 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 39 B15 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad intact 10/04/2023 silver-haired bat 17 A02 carcass search 100-m road and pad dismembered 10/04/2023 silver-haired bat 17 A02 carcass search 100-m road and pad dismembered 10/04/2023 silver-haired bat 17 A03 carcass search 100-m road and pad dismembered 10/06/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged						•	intact
09/29/2023 eastern red bat 100/29/2023 eastern red bat 27 A05 carcass search 100-m road and pad scavenged intact 10/02/2023 eastern red bat 27 A01 carcass search 70-m full plot scavenged intact 10/02/2023 eastern red bat 12 B13 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 47 B24 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 47 B24 carcass search 100-m road and pad intact 10/03/2023 eastern red bat 40 C17 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 39 B15 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 26 C16 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 26 C16 carcass search 100-m road and pad scavenged 10/04/2023 eastern red bat 9 C18 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 9 C18 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat 33 A02 carcass search 100-m road and pad dismembered 10/04/2023 silver-haired bat 33 B15 carcass search 100-m road and pad dismembered 10/04/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged							intact
09/29/2023 eastern red bat 38 D08 carcass search 100-m road and pad intact scavenged o9/29/2023 eastern red bat 7 A05 carcass search 70-m full plot intact scavenged intact 10/02/2023 eastern red bat 27 A01 carcass search 70-m full plot scavenged intact 10/02/2023 eastern red bat 12 B13 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 47 B24 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 47 B24 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 39 B15 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 9 C18 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat 9 C18 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat 14 A02 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 33 A02 carcass search 100-m road and pad intact 10/04/2023 eight red bat 14 A02 carcass search 100-m road and pad intact 10/04/2023 silver-haired bat 33 B15 carcass search 100-m road and pad intact 10/04/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged		silver-haired bat			incidental		
09/29/2023 eastern red bat 7 A05 carcass search 70-m full plot intact 70/02/2023 eastern red bat 27 A01 carcass search 70-m full plot scavenged 10/02/2023 eastern red bat 12 B13 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 47 B24 carcass search 70-m full plot intact 10/02/2023 eastern red bat 47 B24 carcass search 70-m full plot intact 10/02/2023 eastern red bat 40 C17 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 39 B15 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 17 A01 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 9 C18 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat 33 A02 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat 33 A02 carcass search 100-m road and pad intact 10/04/2023 hoary bat 14 A02 carcass search 100-m road and pad intact 10/04/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged					carcass search		
09/29/2023silver-haired bat7A05carcass search70-m full plotintact10/02/2023eastern red bat27A01carcass search70-m full plotscavenged10/02/2023eastern red bat12B13carcass search100-m road and padintact10/02/2023eastern red bat47B24carcass search70-m full plotintact10/02/2023eastern red bat40C17carcass search100-m road and padscavenged10/03/2023eastern red bat39B15carcass search70-m full plotscavenged10/03/2023eastern red bat14C02carcass search100-m road and padscavenged10/04/2023eastern red bat26C16carcass search100-m road and padintact10/04/2023eastern red bat17A01carcass search70-m full plotscavenged10/04/2023eastern red bat or Seminole bat33A02carcass search100-m road and paddismembered10/04/2023hoary bat14A02carcass search100-m road and padintact10/06/2023big brown bat76C05carcass search100-m road and paddismembered10/06/2023big brown bat76C05carcass search60-m full plotscavenged		eastern red bat			carcass search	•	intact
10/02/2023 eastern red bat 10/02/2023 eastern red bat 112 B13 carcass search 100-m road and pad intact 10/02/2023 eastern red bat 10/02/2023 eastern red bat 10/02/2023 eastern red bat 10/02/2023 eastern red bat 10/03/2023 eastern red bat 10/04/2023 eastern red bat 10/04/2023 eastern red bat 17 A01 carcass search 10/0-m road and pad 10/04/2023 eastern red bat 10/04/2023 silver-haired bat 13 A02 carcass search 100-m road and pad 10/04/2023 silver-haired bat 13 B15 carcass search 100-m road and pad 10/0-m r					carcass search		scavenged
10/02/2023 eastern red bat 47 B24 carcass search 70-m full plot intact 10/02/2023 eastern red bat 40 C17 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 39 B15 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 26 C16 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat 9 C18 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat or Seminole bat 33 A02 carcass search 100-m road and pad dismembered 10/04/2023 hoary bat 14 A02 carcass search 100-m road and pad intact 10/04/2023 silver-haired bat 33 B15 carcass search 70-m full plot scavenged 10/06/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged		silver-haired bat			carcass search	•	intact
10/02/2023 eastern red bat 47 B24 carcass search 70-m full plot intact scavenged 10/03/2023 eastern red bat 39 B15 carcass search 70-m full plot scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 26 C16 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat 9 C18 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat 9 C18 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat 33 A02 carcass search 100-m road and pad dismembered 10/04/2023 hoary bat 14 A02 carcass search 100-m road and pad intact 10/04/2023 silver-haired bat 33 B15 carcass search 70-m full plot scavenged 10/06/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged		eastern red bat			carcass search		scavenged
10/02/2023 eastern red bat 40 C17 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 26 C16 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat 9 C18 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat or Seminole bat 33 A02 carcass search 100-m road and pad dismembered 10/04/2023 hoary bat 14 A02 carcass search 100-m road and pad dismembered 10/04/2023 silver-haired bat 33 B15 carcass search 70-m full plot scavenged 10/06/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged		eastern red bat			carcass search	100-m road and pad	intact
10/03/2023 eastern red bat 14 C02 carcass search 100-m road and pad scavenged 10/03/2023 eastern red bat 26 C16 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 70-m full plot scavenged 26 C16 carcass search 100-m road and pad intact 27 A06 carcass search 100-m road and pad 27 A06 carcass search 100-m road and pad 28 cavenged 29 C18 carcass search 100-m road and pad 29 C18	10/02/2023	eastern red bat			carcass search	70-m full plot	intact
10/03/2023 eastern red bat 10/03/2023 eastern red bat 26 C16 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 100-m full plot scavenged 10/04/2023 eastern red bat 10/04/2023 eastern red bat 10/04/2023 eastern red bat or Seminole bat 10/04/2023 hoary bat 10/04/2023 silver-haired bat 12 C02 carcass search 100-m road and pad dismembered 100-m road and pad dismembered 10/04/2023 hoary bat 14 A02 carcass search 100-m road and pad intact 10/04/2023 silver-haired bat 13 B15 carcass search 100-m road and pad intact 10/04/2023 big brown bat 10/06/2023 big brown bat 10/06/2023 eastern red bat		eastern red bat			carcass search	100-m road and pad	scavenged
10/03/2023 eastern red bat 10/04/2023 eastern red bat 17 A01 carcass search 100-m road and pad intact 10/04/2023 eastern red bat 17 A01 carcass search 100-m full plot 10/04/2023 eastern red bat 10/04/2023 eastern red bat or Seminole bat 10/04/2023 hoary bat 10/04/2023 silver-haired bat 10/04/2023 silver-haired bat 10/04/2023 big brown bat 10/06/2023 eastern red bat	10/03/2023	eastern red bat	39		carcass search	70-m full plot	scavenged
10/04/2023 eastern red bat 17 A01 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat or Seminole bat 10/04/2023 eastern red bat or Seminole bat 10/04/2023 hoary bat 10/04/2023 silver-haired bat 10/04/2023 big brown bat 10/06/2023 eastern red bat 17 A01 carcass search 70-m full plot scavenged 100-m road and pad intact 100-m road and pad intact 100-m road and pad intact 10/06/2023 big brown bat 10/06/2023 eastern red bat 10/06/2023 eastern red bat 10/06/2023 eastern red bat 17 A01 carcass search 70-m full plot scavenged 100-m road and pad dismembered 10/06/2023 eastern red bat 17 A01 carcass search 100-m road and pad dismembered 10/0-m road and pad dismembered 10/0-m road and pad dismembered 10/06/2023 eastern red bat 10/06/2023 eastern red bat 17 A01 carcass search 100-m road and pad dismembered 10/0-m road and pad dismembered 10/0-m road and pad dismembered 10/06/2023 eastern red bat 10/06/2023 eastern red bat		eastern red bat			carcass search		scavenged
10/04/2023 eastern red bat 9 C18 carcass search 70-m full plot scavenged 10/04/2023 eastern red bat or Seminole bat 33 A02 carcass search 100-m road and pad dismembered 10/04/2023 hoary bat 14 A02 carcass search 100-m road and pad intact 10/04/2023 silver-haired bat 33 B15 carcass search 70-m full plot scavenged 10/06/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged	10/03/2023	eastern red bat			carcass search	100-m road and pad	intact
10/04/2023 eastern red bat or Seminole bat 33 A02 carcass search 100-m road and pad dismembered 10/04/2023 hoary bat 14 A02 carcass search 100-m road and pad intact 10/04/2023 silver-haired bat 33 B15 carcass search 70-m full plot scavenged 10/06/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged	10/04/2023	eastern red bat	17	A01	carcass search	70-m full plot	scavenged
10/04/2023 hoary bat 14 A02 carcass search 100-m road and pad intact 10/04/2023 silver-haired bat 33 B15 carcass search 70-m full plot scavenged 10/06/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged	10/04/2023	eastern red bat	9	C18	carcass search	70-m full plot	scavenged
10/04/2023 silver-haired bat 33 B15 carcass search 70-m full plot scavenged 10/06/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged	10/04/2023	eastern red bat or Seminole bat	33	A02	carcass search	100-m road and pad	dismembered
10/06/2023 big brown bat 76 C05 carcass search 100-m road and pad dismembered 10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged	10/04/2023	hoary bat		A02	carcass search	100-m road and pad	intact
10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged	10/04/2023	silver-haired bat	33	B15	carcass search	70-m full plot	scavenged
10/06/2023 eastern red bat 27 A06 carcass search 60-m full plot scavenged	10/06/2023	big brown bat	76	C05	carcass search	100-m road and pad	dismembered
·	10/06/2023	eastern red bat	27	A06	carcass search	60-m full plot	scavenged
	10/06/2023	eastern red bat	29	B02	carcass search	100-m road and pad	_

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

		Distance from		_		
Found Date	•	Turbine (m)		Search Type	Search Area Type ¹	Physical Condition
10/06/2023	eastern red bat	21	B23	carcass search	100-m road and pad	intact
10/06/2023	eastern red bat	32	B24	carcass search	70-m full plot	scavenged
10/06/2023	eastern red bat	62	B24	carcass search	70-m full plot	intact
10/06/2023	eastern red bat	55	C04	carcass search	60-m full plot	intact
10/06/2023	eastern red bat	58	C08	carcass search	100-m road and pad	intact
10/06/2023	eastern red bat	52	C20	carcass search	100-m road and pad	intact
10/06/2023	evening bat	9	B06	carcass search	100-m road and pad	intact
10/07/2023	eastern red bat	40	A04	carcass search	70-m full plot	intact
10/07/2023	evening bat	20	A01	carcass search	70-m full plot	scavenged
10/09/2023	eastern red bat	18	C14	carcass search	100-m road and pad	intact
10/09/2023	eastern red bat	31	C19	carcass search	100-m road and pad	scavenged
10/09/2023	silver-haired bat	27	B07	carcass search	100-m road and pad	intact
10/09/2023	silver-haired bat	10	C14	carcass search	100-m road and pad	intact
10/09/2023	silver-haired bat	66	C20	carcass search	100-m road and pad	intact
10/09/2023	silver-haired bat	72	D05	carcass search	100-m road and pad	scavenged
10/09/2023	silver-haired bat	33	D07	carcass search	100-m road and pad	intact
10/10/2023	silver-haired bat	0	B10	carcass search	100-m road and pad	injured
10/10/2023	silver-haired bat	46	B11	carcass search	100-m road and pad	intact
10/10/2023	silver-haired bat	36	B15	carcass search	70-m full plot	scavenged
10/11/2023	silver-haired bat	48	C06	carcass search	100-m road and pad	intact
10/12/2023	eastern red bat	9	A08	carcass search	100-m road and pad	intact
10/12/2023	eastern red bat	50	B09	carcass search**	100-m road and pad	intact
10/12/2023	eastern red bat	27	C01	carcass search	60-m full plot	injured
10/13/2023	eastern red bat	36	B01	carcass search	60-m full plot	intact
10/13/2023	eastern red bat	23	D10	carcass search	60-m full plot	scavenged
10/13/2023	hoary bat	14	C15	carcass search	100-m road and pad	intact
10/13/2023	hoary bat	26	D04	carcass search	100-m road and pad	intact
10/17/2023	unidentified Lasiurus bat	1	C02	incidental*	n/a	scavenged
04/06/2023	swamp sparrow	97	D01	carcass search	100-m road and pad	intact
04/11/2023	mourning dove	0	C21	carcass search	100-m road and pad	intact
04/12/2023	golden-crowned kinglet	46	C02	carcass search	100-m road and pad	intact
04/19/2023	house sparrow	11	B23	carcass search	100-m road and pad	injured
04/25/2023	ruby-crowned kinglet	21	D04	carcass search	100-m road and pad	scavenged
05/01/2023	horned lark	19	B05	carcass search	100-m road and pad	injured
05/10/2023	white-crowned sparrow	61	C16	carcass search	100-m road and pad	scavenged
05/11/2023	white-crowned sparrow	107	B07	incidental**	100-m road and pad	scavenged

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Found Data	Smeeting	Distance from	Turkina	Sourch Trees	Sourch Area Turnel	Dhysical Canditian
Found Date		Turbine (m)		Search Type	Search Area Type ¹	Physical Condition
05/15/2023	Virginia rail	70	A02 Substatio	carcass search**	100-m road and pad	intact
05/15/2023	great horned owl	0	n	incidental**	n/a	injured
05/17/2023	common yellowthroat	19	C18	carcass search	100-m road and pad	scavenged
06/07/2023	house sparrow	15	B23	carcass search	100-m road and pad	intact
06/14/2023	European starling	41	B22	carcass search	100-m road and pad	intact
06/26/2023	killdeer	49	B06	carcass search	100-m road and pad	dismembered
07/05/2023	cliff swallow	17	C17	carcass search	100-m road and pad	intact
07/06/2023	great horned owl	1	D08	carcass search	100-m road and pad	scavenged
07/10/2023	white-breasted nuthatch	43	B10	carcass search**	100-m road and pad	dismembered
07/27/2023	unidentified passerine	5	B22	carcass search	100-m road and pad	dismembered
07/31/2023	yellow warbler	9	D08	carcass search	n/a	scavenged
08/02/2023	killdeer	52	D10	carcass search	60-m full plot	feather spot
08/07/2023	mourning dove	5	D03	carcass search	60-m full plot	intact
08/08/2023	yellow-breasted chat	42	C13	carcass search	100-m road and pad	scavenged
08/15/2023	unidentified passerine	24	C10	carcass search	60-m full plot	scavenged
08/16/2023	Blackburnian warbler	22	B21	carcass search	100-m road and pad	intact
08/18/2023	yellow-throated vireo	41	D06	carcass search	60-m full plot	intact
08/21/2023	horned lark	25	B24	carcass search	70-m full plot	scavenged
08/23/2023	blue-gray gnatcatcher	34	A04	carcass search	70-m full plot	intact
08/28/2023	Blackburnian warbler	43	A01	carcass search	70-m full plot	intact
08/28/2023	horned lark	28	B24	carcass search	70-m full plot	intact
08/28/2023	horned lark	17	B24	carcass search	70-m full plot	feather spot
08/28/2023	killdeer	37	A05	carcass search	70-m full plot	feather spot
08/28/2023	magnolia warbler	43	B08	carcass search	100-m road and pad	intact
08/28/2023	red-eyed vireo	89	C03	carcass search	100-m road and pad	dismembered
08/29/2023	Tennessee warbler	15	D07	carcass search	100-m road and pad	scavenged
08/30/2023	Cooper's hawk	1	C07	carcass search	100-m road and pad	intact
08/30/2023	Tennessee warbler	28	C13	carcass search	100-m road and pad	scavenged
08/30/2023	chimney swift	43	B03	carcass search	100-m road and pad	intact
08/30/2023	downy woodpecker	54	C19	carcass search	100-m road and pad	intact
08/30/2023	rock pigeon	22	B14	carcass search	100-m road and pad	feather spot
09/01/2023	common yellowthroat	80	C15	carcass search	100-m road and pad	scavenged
09/01/2023	unidentified small bird	29	A06	carcass search	60-m full plot	dismembered
09/04/2023	common yellowthroat	79	D01	carcass search	100-m road and pad	scavenged
09/05/2023	turkey vulture	31	B10	carcass search**	100-m road and pad	intact

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

	_	Distance from				
Found Date	•	Turbine (m)		Search Type	Search Area Type ¹	Physical Condition
09/06/2023	common yellowthroat	51	C20	carcass search	100-m road and pad	scavenged
09/06/2023	horned lark	24	B23	carcass search	100-m road and pad	intact
09/07/2023	unidentified small bird	91	B03	carcass search	100-m road and pad	feather spot
09/07/2023	yellow-throated vireo	70	B06	carcass search	100-m road and pad	intact
09/08/2023	Blackburnian warbler	64	C18	carcass search	70-m full plot	scavenged
09/08/2023	unidentified small bird	56	B24	carcass search	70-m full plot	feather spot
09/11/2023	Tennessee warbler	22	C20	carcass search	100-m road and pad	intact
09/12/2023	common yellowthroat	56	A05	carcass search	70-m full plot	scavenged
09/12/2023	common yellowthroat	5	D07	carcass search	100-m road and pad	scavenged
09/12/2023	ovenbird	42	B07	carcass search	100-m road and pad	intact
09/13/2023	unidentified warbler	34	A02	carcass search	100-m road and pad	scavenged
09/15/2023	horned lark	15	B22	carcass search	100-m road and pad	feather spot
09/19/2023	common yellowthroat	43	C06	carcass search	100-m road and pad	intact
09/19/2023	magnolia warbler	8	B06	carcass search	100-m road and pad	scavenged
09/21/2023	chimney swift	40	B24	carcass search	70-m full plot	feather spot
09/21/2023	unidentified small bird	17	B24	carcass search	70-m full plot	dismembered
09/25/2023	brown-headed cowbird	38	C16	carcass search	100-m road and pad	intact
09/26/2023	unidentified small bird	49	B21	carcass search	100-m road and pad	feather spot
09/27/2023	unidentified warbler	14	A02	carcass search	100-m road and pad	scavenged
09/28/2023	red-eyed vireo	33	A02	carcass search	100-m road and pad	intact
09/29/2023	chimney swift	44	C06	carcass search	100-m road and pad	dismembered
09/29/2023	killdeer	1	D07	carcass search	100-m road and pad	intact
10/03/2023	indigo bunting	6	B13	carcass search	100-m road and pad	intact
10/04/2023	chimney swift	45	A01	carcass search	70-m full plot	intact
10/04/2023	chimney swift	95	B06	carcass search	100-m road and pad	scavenged
10/04/2023	red-eyed vireo	8	C16	carcass search	100-m road and pad	scavenged
10/05/2023	rock pigeon	19	B25	carcass search	100-m road and pad	dismembered
10/10/2023	brown creeper	63	B15	carcass search	70-m full plot	scavenged
10/10/2023	rock pigeon	61	B06	carcass search	100-m road and pad	scavenged
10/10/2023	rock pigeon	48	B06	carcass search	100-m road and pad	feather spot
10/10/2023	ruby-crowned kinglet	42	B07	carcass search	100-m road and pad	scavenged
10/11/2023	unidentified vireo	74	C03	carcass search	100-m road and pad	scavenged
					•	-

Appendix A2. Complete listing of carcasses found at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

_	Distance from		•	<u>.</u>	-
Found Date Species	Turbine (m)	Turbine	Search Type	Search Area Type ¹	Physical Condition
10/13/2023 ruby-crowned kinglet	66	C16	carcass search	100-m road and pad	intact

¹ Fall road and pad search areas included a 5-m (16-ft) cleared buffer around each road and pad.

m = meter(s); n/a = not applicable.

^{*} Carcass found during scanning searches that were completed per the Project's Eagle Conservation Plan (Stantec Consulting Services, Inc. 2020).

^{**} Carcass was found outside the search area.

Appendix B. Carca Wind Pre	ss Persistence Trial l oject, Logan County,	Information and Mo Illinois, from April	odel Tables for the 1 – October 15, 20	e Sugar Creek 023

Appendix B1. All carcasses placed for carcass persistence trials by date, season, species, and turbine at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

4/3/2023 Spring silver-haired bat C10 5/3/2023 5/3/2023 4/3/2023 Spring silver-haired bat D02 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat B03 5/3/2023 5/3/2023 4/3/2023 Spring eastern red bat B06 4/8/2023 4/7/2023 4/3/2023 Spring eastern red bat B06 4/8/2023 4/2/2023 4/3/2023 Spring eastern red bat A06 4/4/2023 4/3/2023 4/3/2023 Spring eastern red bat A06 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat B01 5/3/2023 5/3/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/10/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/17/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/17/2023 4/3/2023 Spring eastern red bat B05	Date Placed	Season	Species	Turbine	Before Removal*	After Removal**
4/3/2023 Spring eastern red bat B13 5/3/2023 5/3/2023 4/3/2023 Spring eastern red bat B1 4/6/2023 4/7/2023 4/3/2023 Spring eastern red bat B06 4/8/2023 4/9/2023 4/3/2023 Spring eastern red bat B01 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat A06 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat A01 5/3/2023 5/3/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/10/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/10/2023 4/3/2023 Spring eastern red bat B10 4/4/2023 4/6/2023 4/3/2023 Spring eastern red bat A03 4/5/2023 4/6/2023 4/3/2023 Spring eastern red bat A05 4/6/2023 4/6/2023 4/25/2023 Spring eastern red bat D01	4/3/2023	Spring	silver-haired bat	C10	5/3/2023	5/3/2023
4/3/2023 Spring eastern red bat B11 4/6/2023 4/7/2023 4/3/2023 Spring eastern red bat B06 4/8/2023 4/9/2023 4/3/2023 Spring eastern red bat B01 4/4/2023 4/24/2023 4/3/2023 Spring eastern red bat A06 4/4/2023 4/4/2023 4/3/2023 Spring eastern red bat A01 5/3/2023 5/3/2023 4/3/2023 Spring eastern red bat B04 4/4/2023 4/4/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/10/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/71/2023 4/3/2023 Spring eastern red bat B10 4/4/2023 4/6/2023 4/3/2023 Spring eastern red bat A05 4/6/2023 4/75/2023 4/3/2023 Spring bastern red bat D01 4/27/2023 4/28/2023 4/25/2023 Spring bastern red bat D01	4/3/2023	Spring	silver-haired bat	D02	4/4/2023	4/5/2023
4/3/2023 Spring eastern red bat B06 4/8/2023 4/9/2023 4/3/2023 Spring hoary bat A07 4/17/2023 4/24/2023 4/3/2023 Spring eastern red bat B01 4/4/2023 4/3/2023 4/3/2023 Spring eastern red bat A06 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat A01 5/3/2023 4/5/2023 4/3/2023 Spring eastern red bat B24 4/4/2023 4/4/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/10/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/6/2023 4/3/2023 Spring eastern red bat A03 4/5/2023 4/6/2023 4/3/2023 Spring eastern red bat A05 4/6/2023 4/72/2023 4/25/2023 Spring hoary bat C03 5/9/2023 5/16/2023 4/25/2023 Spring silver-haired bat B04 <	4/3/2023	Spring	eastern red bat	B03	5/3/2023	5/3/2023
4/3/2023 Spring eastern red bat A07 4/17/2023 4/24/2023 4/3/2023 Spring eastern red bat A06 4/4/2023 4/4/2023 4/3/2023 Spring eastern red bat A06 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat A01 5/3/2023 5/3/2023 4/3/2023 Spring hoary bat C07 4/9/2023 4/10/2023 4/3/2023 Spring hoary bat C07 4/9/2023 4/10/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/7/2023 4/3/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/25/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 4/29/2023 4/25/2023 Spring eastern red bat D01 <	4/3/2023	Spring	eastern red bat	B11	4/6/2023	4/7/2023
4/3/2023 Spring eastern red bat A06 4/4/2023 4/4/2023 4/3/2023 Spring eastern red bat A06 4/4/2023 5/5/2023 4/3/2023 Spring eastern red bat A01 5/3/2023 5/5/2023 4/3/2023 Spring eastern red bat A01 5/3/2023 5/5/2023 4/3/2023 Spring hoary bat C07 4/9/2023 4/10/2023 4/3/2023 Spring hoary bat B05 4/6/2023 4/10/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/7/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/7/2023 4/3/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat A05 4/6/2023 4/7/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 4/25/2023 Spring eastern red bat B04 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/13/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/13/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/13/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/13/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/18/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/26/2023 Summer eastern red bat B14 8/26/2023 6/27/2023 6/26/2023 Summer eastern red bat B14 8/26/2023 6/27/2023 6/26/2023 Summer eastern red bat B14 8/26/2023 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B16 8/2023 8/2023 8/2023 8/2023 8/2023 Fall eastern red bat B15 8/21/2023 8/2023 8/2023 8/2023	4/3/2023	Spring	eastern red bat	B06	4/8/2023	4/9/2023
4/3/2023 Spring eastern red bat A06 4/4/2023 4/4/2023 4/3/2023 Spring eastern red bat A06 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat A01 5/3/2023 5/3/2023 4/3/2023 Spring eostern red bat B24 4/4/2023 4/10/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/10/2023 4/3/2023 Spring eastern red bat A03 4/5/2023 4/6/2023 4/3/2023 Spring eastern red bat A05 4/6/2023 4/6/2023 4/3/2023 Spring eastern red bat A05 4/6/2023 4/5/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 4/26/2023 4/25/2023 Spring hoary bat C03 5/9/2023 5/16/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/29/2023 4/12/2023 Summer eastern red bat B04	4/3/2023		hoary bat	A07	4/17/2023	4/24/2023
4/3/2023 Spring eastern red bat A01 5/3/2023 5/3/2023 4/3/2023 Spring silver-haired bat B24 4/4/2023 4/4/2023 4/4/2023 4/4/2023 4/4/2023 4/4/2023 4/4/2023 4/4/2023 4/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 4/10/2023 4/10/2023 4/10/2023 4/10/2023 4/10/2023 4/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023 5/10/2023	4/3/2023	Spring	eastern red bat	B01	4/4/2023	4/4/2023
4/3/2023 Spring silver-haired bat D05 4/4/2023 4/4/2023 4/10/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/7/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/7/2023 4/3/2023 Spring eastern red bat B10 4/4/2023 4/6/2023 4/3/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/5/2023 4/5/2023 Spring eastern red bat A05 4/6/2023 4/7/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 5/16/2023 4/25/2023 Spring hoary bat C03 5/9/2023 5/16/2023 4/25/2023 Spring hoary bat C07 4/28/2023 5/9/2023 4/25/2023 Spring silver-haired bat C04 5/5/2023 5/9/2023 6/12/2023 Summer eastern red bat B04 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer bar bar bar bar bar bar bar bar bar ba	4/3/2023	Spring	eastern red bat	A06	4/4/2023	4/5/2023
4/3/2023 Spring hoary bat C07 4/9/2023 4/10/2023 4/3/2023 Spring eastern red bat B05 4/6/2023 4/7/2023 4/3/2023 Spring eastern red bat A03 4/5/2023 4/6/2023 4/3/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/25/2023 Spring hoary bat C03 5/9/2023 5/16/2023 4/25/2023 Spring hoary bat C03 5/9/2023 5/16/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/28/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/29/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/29/2023 4/25/2023 Spring silver-haired bat B04 5/5/2023 5/9/2023 6/12/2023 Summer eastern red bat B04 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B04 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/15/2023 6/12/2023 Summer silver-haired bat B11 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/14/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/18/2023 6/12/2023 Summer eastern red bat B14 6/26/2023 6/18/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/18/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/18/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B09 7/2/2023 6/27/2023 6/26/2023 Summer eastern red bat B09 8/27/2023 8/2023 8/7/2023 Fall eastern red bat B01 8/2023 8/2023 8/7/2023 Fall eastern red bat B01 8/2023 8/2023 8/7/2023 Fall eastern red bat B01 8/2023 8/2023 8/7/2023 Fall eastern	4/3/2023	Spring	eastern red bat	A01	5/3/2023	5/3/2023
4/3/2023 Spring eastern red bat A03 4/5/2023 4/7/2023 4/5/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/5/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat A05 4/6/2023 4/7/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 4/28/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 4/28/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/29/2023 4/25/2023 Spring silver-haired bat D04 5/5/2023 5/9/2023 6/12/2023 Summer eastern red bat B04 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer barn red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer barn red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer barn red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer barn red bat B11 6/13/2023 6/13/2023 6/12/2023 Summer silver-haired bat B11 6/13/2023 6/18/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/18/2023 6/12/2023 Summer eastern red bat B13 6/17/2023 6/18/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/30/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/30/2023 6/26/2023 Summer eastern red bat B19 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B09 8/27/2023 6/26/2023 Summer eastern red bat B06 7/6/2023 7/2/2023 6/26/2023 Summer eastern red bat B06 8/2/2023 8/7/2023 Fall eastern red bat B06 8/2/2023 8/2/2023 8/7/2023 Fall eastern red bat B01 8/2/2023 8/2/2023 8/7/2023 Fall eastern red bat B01 8/2/2023 8/2/2023 8/7/2023 Fall eastern red bat B01 8/2/2023 8/2/2023 8/2/2023 Fall eastern red bat B04 8/10/2	4/3/2023	Spring	silver-haired bat	B24	4/4/2023	4/4/2023
4/3/2023 Spring eastern red bat A03 4/5/2023 4/6/2023 4/3/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat A05 4/6/2023 4/7/2023 4/25/2023 Spring hoary bat C03 5/9/2023 5/16/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 4/28/2023 4/25/2023 Spring silver-haired bat C04 5/5/2023 5/9/2023 6/12/2023 Summer eastern red bat B04 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/18/2023 6/12/2023 Summer eastern red bat <	4/3/2023	Spring	hoary bat	C07	4/9/2023	4/10/2023
4/3/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat A05 4/6/2023 4/7/2023 4/25/2023 Spring hoary bat C03 5/9/2023 5/16/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/28/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/29/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/29/2023 6/12/2023 Spring silver-haired bat B04 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/18/2023 6/12/2023 Summer silver-haired bat A04 6/13/2023 6/13/2023 6/12/2023 Summer silver-haired bat A07 6/18/2023 6/18/2023 6/12/2023 Summer eastern red bat B11 <td>4/3/2023</td> <td>Spring</td> <td>eastern red bat</td> <td>B05</td> <td>4/6/2023</td> <td>4/7/2023</td>	4/3/2023	Spring	eastern red bat	B05	4/6/2023	4/7/2023
4/3/2023 Spring eastern red bat B10 4/4/2023 4/5/2023 4/3/2023 Spring eastern red bat A05 4/6/2023 4/7/2023 4/25/2023 Spring hoary bat C03 5/9/2023 5/16/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 4/28/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/28/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/29/2023 6/12/2023 Summer eastern red bat B04 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer silver-haired bat A04 6/13/2023 6/15/2023 6/12/2023 Summer silver-haired bat A07 6/18/2023 6/18/2023 6/12/2023 Summer eastern red bat B1	4/3/2023		eastern red bat	A03	4/5/2023	4/6/2023
4/3/2023 Spring eastern red bat A05 4/6/2023 4/7/2023 4/25/2023 Spring hoary bat C03 5/9/2023 5/16/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 4/28/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/29/2023 4/25/2023 Spring silver-haired bat C04 5/5/2023 5/9/2023 6/12/2023 Summer eastern red bat B04 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/18/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/18/2023 6/12/2023 Summer silver-haired bat B11 6/13/2023 6/18/2023 6/12/2023 Summer eastern red bat B13 6/17/2023 6/18/2023 6/12/2023 Summer eastern red bat	4/3/2023		eastern red bat	B10	4/4/2023	
4/25/2023 Spring hoary bat C03 5/9/2023 5/16/2023 4/25/2023 Spring eastern red bat D01 4/27/2023 4/28/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/29/2023 4/25/2023 Spring silver-haired bat C04 5/5/2023 5/9/2023 6/12/2023 Summer eastern red bat B04 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/14/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/14/2023 6/12/2023 Summer eastern red bat B13 6/17/2023 6/18/2023 6/26/2023 Summer eastern red bat	4/3/2023		eastern red bat	A05	4/6/2023	4/7/2023
4/25/2023 Spring eastern red bat D01 4/27/2023 4/28/2023 4/25/2023 Spring hoary bat C07 4/28/2023 4/29/2023 4/25/2023 Spring silver-haired bat C04 5/5/2023 5/9/2023 6/12/2023 Spring silver-haired bat B04 6/14/2023 6/15/2023 6/12/2023 Summer silver-haired bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat A04 6/16/2023 6/18/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/15/2023 6/12/2023 Summer silver-haired bat B11 6/13/2023 6/14/2023 6/12/2023 Summer eastern red bat B13 6/17/2023 6/18/2023 6/12/2023 Summer eastern red bat B14 6/26/2023 6/20/2023 6/26/2023 Summer eastern red ba			hoary bat	C03	5/9/2023	5/16/2023
4/25/2023 Spring hoary bat C07 4/28/2023 4/29/2023 4/25/2023 Spring silver-haired bat C04 5/5/2023 5/9/2023 6/12/2023 Spring silver-haired bat B04 6/14/2023 6/15/2023 6/12/2023 Summer eastern red bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat A04 6/16/2023 6/18/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer hoary bat A06 6/13/2023 6/15/2023 6/12/2023 Summer hoary bat A06 6/13/2023 6/13/2023 6/12/2023 Summer hoary bat A06 6/13/2023 6/14/2023 6/12/2023 Summer silver-haired bat B11 6/18/2023 6/14/2023 6/12/2023 Summer eastern red bat B13 6/17/2023 6/27/2023 6/26/2023 Summer eastern red bat B				D01	4/27/2023	4/28/2023
4/25/2023 Spring silver-haired bat C04 5/5/2023 5/9/2023 6/12/2023 Summer eastern red bat B04 6/14/2023 6/15/2023 6/12/2023 Summer silver-haired bat B05 6/13/2023 6/15/2023 6/12/2023 Summer eastern red bat B10 6/16/2023 6/18/2023 6/12/2023 Summer hoary bat A06 6/13/2023 6/15/2023 6/12/2023 Summer hoary bat A06 6/13/2023 6/14/2023 6/12/2023 Summer hoary bat A06 6/13/2023 6/14/2023 6/12/2023 Summer eastern red bat B11 6/13/2023 6/14/2023 6/12/2023 Summer eastern red bat B13 6/17/2023 6/18/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/26/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 6/27/2023 6/26/2023 Summer eastern red bat <t< td=""><td>4/25/2023</td><td></td><td>hoary bat</td><td>C07</td><td>4/28/2023</td><td>4/29/2023</td></t<>	4/25/2023		hoary bat	C07	4/28/2023	4/29/2023
6/12/2023 Summer eastern red bat 804 6/14/2023 6/15/2023 6/12/2023 Summer silver-haired bat 805 6/13/2023 6/15/2023 6/15/2023 6/12/2023 Summer eastern red bat 810 6/14/2023 6/15/2023 6/15/2023 6/12/2023 Summer hoary bat 810 6/14/2023 6/15/2023 6/12/2023 Summer silver-haired bat 811 6/13/2023 6/14/2023 6/14/2023 6/12/2023 Summer silver-haired bat 811 6/13/2023 6/18/2023 6/12/2023 Summer silver-haired bat 811 6/13/2023 6/18/2023 6/18/2023 6/12/2023 Summer eastern red bat 813 6/17/2023 6/18/2023 6/26/2023 Summer eastern red bat 813 6/17/2023 6/26/2023 Summer eastern red bat 814 6/26/2023 6/30/2023 6/26/2023 Summer eastern red bat 809 6/27/2023 6/26/2023 Summer eastern red bat 809 6/27/2023 6/26/2023 Summer eastern red bat 810 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat 810 7/1/2023 6/27/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/2/2023 6/26/2023 Summer eastern red bat A07 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 7/20203 6/27/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 9/6/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/7/2023			silver-haired bat	C04	5/5/2023	5/9/2023
6/12/2023 Summer silver-haired bat eastern red bat A04 6/16/2023 6/18/2023 6/18/2023 6/12/2023 Summer eastern red bat B10 6/14/2023 6/18/2023 6/13/2023 6/12/2023 Summer hoary bat A06 6/13/2023 6/13/2023 6/13/2023 6/12/2023 Summer silver-haired bat B11 6/13/2023 6/13/2023 6/12/2023 Summer silver-haired bat B11 6/13/2023 6/18/2023 6/18/2023 6/12/2023 Summer silver-haired bat B13 6/17/2023 6/18/2023 6/18/2023 6/18/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/28/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/28/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 6/27/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer silver-haired bat A06 7/26/2023 7/26/2023 6/26/2023 Summer silver-haired bat B06 7/26/2023 7/2023 6/26/2023 Summer silver-haired bat B06 7/26/2023 9/6/2023 8/7/2023 Fall eastern red bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/2023 8/28/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/2023 8/3/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/8/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/8/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/3/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/3/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/202	6/12/2023		eastern red bat	B04	6/14/2023	6/15/2023
6/12/2023 Summer eastern red bat B10 6/14/2023 6/15/2023 6/12/2023 Summer hoary bat A06 6/13/2023 6/13/2023 6/12/2023 Summer silver-haired bat B11 6/13/2023 6/14/2023 6/12/2023 Summer silver-haired bat A07 6/18/2023 6/18/2023 6/12/2023 Summer eastern red bat B13 6/17/2023 6/18/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A01 7/1/2023 7/26/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 6/27/2023 6/26/2023 Summer eastern red bat A01 7/1/2023 7/26/2023 6/26/2023 Summer silver-haired bat <td>6/12/2023</td> <td></td> <td>silver-haired bat</td> <td>B05</td> <td>6/13/2023</td> <td>6/15/2023</td>	6/12/2023		silver-haired bat	B05	6/13/2023	6/15/2023
6/12/2023 Summer silver-haired bat B11 6/13/2023 6/14/2023 6/14/2023 6/12/2023 Summer silver-haired bat B11 6/13/2023 6/18/2023 6/18/2023 6/18/2023 6/18/2023 Summer eastern red bat B13 6/17/2023 6/18/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/26/2023 G/26/2023 Summer eastern red bat B19 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat A07 6/27/2023 6/27/2023 6/27/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall silver-haired bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat D06 8/7/2023 8/7/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/7/2023 Fall eastern red bat B01 8/8/2023 8/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/7/2023 Fall eastern red bat B01 8/8/2023 8/7/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/7/2023 8/7/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall easter	6/12/2023	Summer	eastern red bat	A04	6/16/2023	6/18/2023
6/12/2023 Summer silver-haired bat B11 6/13/2023 6/14/2023 6/14/2023 6/12/2023 Summer silver-haired bat A07 6/18/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/26/2023 Summer eastern red bat B19 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 9/6/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall silver-haired bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat D06 8/7/2023 8/7/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/7/2023 Fall eastern red bat B01 8/8/2023 8/8/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/7/2023 Fall eastern red bat B01 8/8/2023 8/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/7/2023 8/8/2023 Fall eastern red bat B01 8/8/2023 8/2023 8/7/2023 8/8/2023 Fall eastern red bat B01 8/8/2023 8/2023 8/7/2023 8/8/2023 Fall eastern red bat B01 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B01 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red b	6/12/2023	Summer	eastern red bat	B10	6/14/2023	6/15/2023
6/12/2023 Summer silver-haired bat A07 6/18/2023 6/18/2023 6/18/2023 6/12/2023 Summer eastern red bat B13 6/17/2023 6/18/2023 6/18/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/30/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 6/27/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/3/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat A07 6/27/2023 6/27/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall eastern red bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat D06 8/7/2023 8/7/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/8/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/2023 8/8/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/2023 8/8/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/2023 8/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/2023 8/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/2023 8/2023 Fall eastern red bat B01 8/2023 8/2023 8/2023 8/2023 Fall eastern red bat B01 8/2023 8/2023 8/2023 8/2023 Fall eastern red bat B01 8/2023 8/2023 8/2023 8/2023 Fall eastern red bat B04 8/2023 8/2023 8/2023 8/2023 Fall eastern red bat B04 8/2023 8/2023 8/2023 8/2023 Fall eastern red bat B04 8/2023 8/2023 8/2023 8/2023 Fall eastern red bat B		Summer	hoary bat	A06	6/13/2023	6/13/2023
6/12/2023 Summer eastern red bat B13 6/17/2023 6/18/2023 6/26/2023 Summer eastern red bat B14 6/26/2023 6/30/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/26/2023 Summer eastern red bat A01 7/1/2023 7/3/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat A07 6/27/2023 6/27/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall silver-haired bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/7/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/8/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/8/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/8/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/8/2023 Fall eastern red bat B01 8/7/2023 8/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern	6/12/2023	Summer		B11	6/13/2023	6/14/2023
6/26/2023 Summer eastern red bat B14 6/26/2023 6/30/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer eastern red bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat C01 9/6/2023 6/27/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall eastern red bat D06 8/7/2023 8/7/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/7/2023 Fall eastern red bat B0	6/12/2023	Summer	silver-haired bat	A07	6/18/2023	6/18/2023
6/26/2023 Summer eastern red bat B14 6/26/2023 6/30/2023 6/26/2023 Summer eastern red bat B09 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A01 7/1/2023 7/26/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat A07 6/27/2023 6/27/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall eastern red bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/8/2023 Fall eastern red bat	6/12/2023	Summer	eastern red bat	B13	6/17/2023	6/18/2023
6/26/2023 Summer eastern red bat B10 7/1/2023 7/2/2023 6/26/2023 Summer eastern red bat A05 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A01 7/1/2023 7/3/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/9/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat A07 6/27/2023 6/27/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall eastern red bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/28/2023 8/8/2023 Fall eastern red bat B01 8/7/2023 8/7/2023 8/8/2023 Fall hoary bat C16	6/26/2023		eastern red bat	B14	6/26/2023	6/30/2023
6/26/2023 Summer eastern red bat A05 6/27/2023 6/27/2023 6/26/2023 Summer eastern red bat A01 7/1/2023 7/3/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat A07 6/27/2023 6/27/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall eastern red bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/7/2023 Fall eastern red bat B01 8/7/2023 8/7/2023 8/8/2023 Fall hoary bat C14 8/11/2023 8/11/2023 8/8/2023 Fall hoary bat D01 8	6/26/2023	Summer	eastern red bat	B09	6/27/2023	6/27/2023
6/26/2023 Summer eastern red bat A01 7/1/2023 7/3/2023 6/26/2023 Summer eastern red bat A06 7/26/2023 7/26/2023 6/26/2023 Summer silver-haired bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat A07 6/27/2023 6/27/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall silver-haired bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/7/2023 Fall silver-haired bat B01 8/7/2023 8/7/2023 8/8/2023 Fall eastern red bat C16 8/8/2023 8/9/2023 8/8/2023 Fall hoary bat C14 8/11/2023 8/11/2023 8/8/2023 Fall eastern red bat B04	6/26/2023	Summer	eastern red bat	B10	7/1/2023	7/2/2023
6/26/2023Summereastern red batA067/26/20237/26/20236/26/2023Summersilver-haired batB067/6/20237/9/20236/26/2023Summersilver-haired batA076/27/20236/27/20238/7/2023Falleastern red batC019/6/20239/6/20238/7/2023Fallsilver-haired batB018/8/20238/9/20238/7/2023Falleastern red batD068/7/20238/7/20238/7/2023Falleastern red batC108/7/20238/8/20238/7/2023Falleastern red batB158/21/20238/28/20238/7/2023Fallsilver-haired batB018/7/20238/7/20238/8/2023Falleastern red batC168/8/20238/9/20238/8/2023Fallhoary batC148/11/20238/11/20238/8/2023Falleastern red batD018/10/20238/11/20238/8/2023Falleastern red batB048/10/20238/11/20238/8/2023Falleastern red batB048/10/20238/11/20238/8/2023Falleastern red batB048/10/20238/11/20238/8/2023Falleastern red batB048/10/20238/11/20238/8/2023Falleastern red batB048/10/20238/10/2023	6/26/2023	Summer	eastern red bat	A05	6/27/2023	6/27/2023
6/26/2023 Summer silver-haired bat B06 7/6/2023 7/9/2023 6/26/2023 Summer silver-haired bat A07 6/27/2023 6/27/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall silver-haired bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/7/2023 Fall silver-haired bat B01 8/7/2023 8/7/2023 8/8/2023 Fall eastern red bat C16 8/8/2023 8/9/2023 8/8/2023 Fall hoary bat C14 8/11/2023 8/11/2023 8/8/2023 Fall eastern red bat D01 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04	6/26/2023	Summer	eastern red bat	A01	7/1/2023	7/3/2023
6/26/2023 Summer silver-haired bat A07 6/27/2023 6/27/2023 8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall silver-haired bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat D06 8/7/2023 8/7/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/8/2023 Fall silver-haired bat B01 8/7/2023 8/7/2023 8/8/2023 Fall eastern red bat C16 8/8/2023 8/9/2023 8/8/2023 Fall hoary bat C14 8/11/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/	6/26/2023	Summer	eastern red bat	A06	7/26/2023	7/26/2023
8/7/2023 Fall eastern red bat C01 9/6/2023 9/6/2023 8/7/2023 Fall silver-haired bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat D06 8/7/2023 8/7/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/8/2023 Fall silver-haired bat B01 8/7/2023 8/7/2023 8/8/2023 Fall eastern red bat C16 8/8/2023 8/9/2023 8/8/2023 Fall hoary bat C14 8/11/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat D07 8/9/2023 8/10/2023	6/26/2023	Summer	silver-haired bat	B06	7/6/2023	7/9/2023
8/7/2023 Fall silver-haired bat B01 8/8/2023 8/9/2023 8/7/2023 Fall eastern red bat D06 8/7/2023 8/7/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/8/2023 Fall silver-haired bat B01 8/7/2023 8/7/2023 8/8/2023 Fall eastern red bat C16 8/8/2023 8/9/2023 8/8/2023 Fall hoary bat C14 8/11/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat D07 8/9/2023 8/10/2023	6/26/2023	Summer	silver-haired bat	A07	6/27/2023	6/27/2023
8/7/2023 Fall eastern red bat D06 8/7/2023 8/7/2023 8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/7/2023 Fall silver-haired bat B01 8/7/2023 8/7/2023 8/8/2023 Fall eastern red bat C16 8/8/2023 8/9/2023 8/8/2023 Fall hoary bat C14 8/11/2023 8/11/2023 8/8/2023 Fall hoary bat D01 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat D07 8/9/2023 8/10/2023	8/7/2023	Fall	eastern red bat	C01	9/6/2023	9/6/2023
8/7/2023 Fall eastern red bat C10 8/7/2023 8/8/2023 8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/7/2023 Fall silver-haired bat B01 8/7/2023 8/7/2023 8/8/2023 Fall eastern red bat C16 8/8/2023 8/9/2023 8/8/2023 Fall hoary bat C14 8/11/2023 8/11/2023 8/8/2023 Fall hoary bat D01 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat D07 8/9/2023 8/10/2023	8/7/2023	Fall	silver-haired bat	B01	8/8/2023	8/9/2023
8/7/2023 Fall eastern red bat B15 8/21/2023 8/28/2023 8/7/2023 Fall silver-haired bat B01 8/7/2023 8/7/2023 8/8/2023 Fall eastern red bat C16 8/8/2023 8/9/2023 8/8/2023 Fall hoary bat C14 8/11/2023 8/11/2023 8/8/2023 Fall hoary bat D01 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat D07 8/9/2023 8/10/2023	8/7/2023	Fall	eastern red bat	D06	8/7/2023	8/7/2023
8/7/2023 Fall silver-haired bat B01 8/7/2023 8/7/2023 8/8/2023 Fall eastern red bat C16 8/8/2023 8/9/2023 8/8/2023 Fall hoary bat C14 8/11/2023 8/12/2023 8/8/2023 Fall hoary bat D01 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat D07 8/9/2023 8/10/2023	8/7/2023	Fall	eastern red bat	C10	8/7/2023	8/8/2023
8/8/2023 Fall eastern red bat C16 8/8/2023 8/9/2023 8/8/2023 Fall hoary bat C14 8/11/2023 8/12/2023 8/8/2023 Fall hoary bat D01 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat D07 8/9/2023 8/10/2023	8/7/2023	Fall	eastern red bat	B15	8/21/2023	8/28/2023
8/8/2023 Fall hoary bat C14 8/11/2023 8/12/2023 8/8/2023 Fall hoary bat D01 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat D07 8/9/2023 8/10/2023	8/7/2023	Fall	silver-haired bat	B01	8/7/2023	8/7/2023
8/8/2023 Fall hoary bat D01 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat D07 8/9/2023 8/10/2023	8/8/2023	Fall	eastern red bat	C16	8/8/2023	8/9/2023
8/8/2023 Fall eastern red bat B04 8/10/2023 8/11/2023 8/8/2023 Fall eastern red bat D07 8/9/2023 8/10/2023	8/8/2023	Fall	hoary bat	C14	8/11/2023	8/12/2023
8/8/2023 Fall eastern red bat D07 8/9/2023 8/10/2023	8/8/2023	Fall	hoary bat	D01	8/10/2023	8/11/2023
	8/8/2023	Fall	eastern red bat	B04	8/10/2023	8/11/2023
0/0/2022 Foll contain red bot COE 0/0/2022 0/40/2022	8/8/2023	Fall	eastern red bat	D07	8/9/2023	8/10/2023
0/0/2023 Fall easternited bat COD 8/9/2023 8/10/2023	8/8/2023	Fall	eastern red bat	C05	8/9/2023	8/10/2023
8/28/2023 Fall hoary bat D04 8/30/2023 8/31/2023	8/28/2023	Fall	hoary bat	D04	8/30/2023	8/31/2023
8/28/2023 Fall eastern red bat A01 9/3/2023 9/6/2023	8/28/2023	Fall	eastern red bat	A01	9/3/2023	9/6/2023
8/28/2023 Fall silver-haired bat D03 8/29/2023 8/30/2023	8/28/2023		silver-haired bat		8/29/2023	8/30/2023
8/28/2023 Fall eastern red bat C11 8/28/2023 8/29/2023	8/28/2023	Fall	eastern red bat	C11	8/28/2023	8/29/2023

Appendix B1. All carcasses placed for carcass persistence trials by date, season, species, and turbine at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Date Placed	Season	Species	Turbine	Before Removal*	After Removal**
8/28/2023	Fall	eastern red bat	C11	8/28/2023	8/28/2023
8/28/2023	Fall	eastern red bat	D05	9/3/2023	9/6/2023
8/28/2023	Fall	big brown bat	B09	8/28/2023	8/29/2023
8/28/2023	Fall	big brown bat	B09	9/2/2023	9/3/2023
8/28/2023	Fall	eastern red bat	A01	9/27/2023	9/27/2023
8/28/2023	Fall	silver-haired bat	C04	9/6/2023	9/11/2023
8/28/2023	Fall	eastern red bat	C04	9/6/2023	9/11/2023
8/28/2023	Fall	eastern red bat	D03	9/18/2023	9/27/2023
9/12/2023	Fall	eastern red bat	A06	9/12/2023	9/12/2023
9/12/2023	Fall	hoary bat	C11	9/14/2023	9/15/2023
9/12/2023	Fall	eastern red bat	D02	9/12/2023	9/12/2023
9/12/2023	Fall	eastern red bat	C18	9/12/2023	9/12/2023
9/12/2023	Fall	hoary bat	D04	9/17/2023	9/18/2023
9/12/2023	Fall	eastern red bat	C18	9/15/2023	9/16/2023
9/12/2023	Fall	hoary bat	C03	9/17/2023	9/18/2023
9/12/2023	Fall	eastern red bat	A07	9/15/2023	9/16/2023
9/12/2023	Fall	eastern red bat	A06	9/12/2023	9/12/2023
9/12/2023	Fall	eastern red bat	D02	9/15/2023	9/16/2023
9/12/2023	Fall	hoary bat	C13	9/13/2023	9/14/2023
9/12/2023	Fall	eastern red bat	A07	9/16/2023	9/17/2023

^{*} Last date checked before removal.

^{**} Date checked after removal.

Appendix B2. Carcass persistence models with covariates and distributions for bats at the Sugar Creek Wind Energy Project, Logan County, Illinois, from April 1 – October 15, 2023 (n = 71).

Location Covariates	Scale Covariates	Distribution	AICc	Delta AICc
No Covariates	Plot Search Type	loglogistic	336.49	0*
Plot Search Type	Plot Search Type	loglogistic	338.36	1.87
No Covariates	Season + Plot Search Type	loglogistic	338.41	1.92
No Covariates	Plot Type Season	loglogistic	338.41	1.92
No Covariates	Plot Search Type	lognormal	338.72	2.23
Season + Plot Search Type	Plot Search Type	loglogistic	340.17	3.68
Season	Season + Plot Search Type	Weibull	340.23	3.74
No Covariates	Season + Plot Search Type	lognormal	340.25	3.76
No Covariates	Plot Type Season	lognormal	340.25	3.76
Plot Search Type	Plot Search Type	lognormal	340.38	3.89
Season	Season + Plot Search Type	loglogistic	340.45	3.96
Plot Search Type	Season + Plot Search Type	loglogistic	340.52	4.03
Season + Plot Search Type	Plot Search Type	lognormal	340.70	4.21
Season	Season + Plot Search Type	lognormal	340.89	4.40
No Covariates	Season + Plot Search Type	Weibull	341.37	4.88
No Covariates	Plot Type Season	Weibull	341.37	4.88
Season + Plot Search Type	Season + Plot Search Type	Weibull	342.17	5.68
Plot Type Season	Season + Plot Search Type	Weibull	342.17	5.68
Season + Plot Search Type	Plot Type Season	Weibull	342.17	5.68
Plot Type Season	Plot Type Season	Weibull	342.17	5.68
Plot Search Type	Season + Plot Search Type	lognormal	342.31	5.82
No Covariates	Plot Search Type + Plot Type Season	lognormal	342.63	6.14
Season	Plot Search Type + Plot Type Season	Weibull	342.78	6.29
Season + Plot Search Type	Plot Search Type	Weibull	342.78	6.29
No Covariates	No Covariates	loglogistic	342.87	6.38
Season + Plot Search Type	Season + Plot Search Type	loglogistic	342.94	6.45
Plot Type Season	Season + Plot Search Type	loglogistic	342.94	6.45
Season + Plot Search Type	Plot Type Season	loglogistic	342.94	6.45
Plot Type Season	Plot Type Season	loglogistic	342.94	6.45
Season	Plot Search Type + Plot Type Season	loglogistic	343.00	6.51
Plot Search Type + Plot Type Season	Plot Search Type	lognormal	343.17	6.68
Season + Plot Search Type	Season + Plot Search Type	lognormal	343.38	6.89
Plot Type Season	Season + Plot Search Type	lognormal	343.38	6.89
Season + Plot Search Type	Plot Type Season	lognormal	343.38	6.89
Plot Type Season	Plot Type Season	lognormal	343.38	6.89

Appendix B2. Carcass persistence models with covariates and distributions for bats at the Sugar Creek Wind Energy Project, Logan County, Illinois, from April 1 – October 15, 2023 (n = 71).

Location Covariates	Scale Covariates	Distribution	AICc	Delta AICc
Season	Plot Search Type + Plot Type Season	lognormal	343.43	6.94
Plot Search Type	Season + Plot Search Type	Weibull	343.56	7.07
No Covariates	Plot Search Type + Plot Type Season	Weibull	343.76	7.27
No Covariates	Plot Search Type	Weibull	344.31	7.82
Season	No Covariates	loglogistic	344.70	8.21
Plot Search Type	No Covariates	loglogistic	344.78	8.29
Plot Type Season	Plot Search Type + Plot Type Season	Weibull	344.79	8.30
Plot Search Type + Plot Type Season	Plot Type Season	Weibull	344.79	8.30
No Covariates	No Covariates	lognormal	344.79	8.30
Plot Search Type + Plot Type Season	Plot Search Type	Weibull	345.25	8.76
Season + Plot Search Type	Plot Search Type + Plot Type Season	loglogistic	345.56	9.07
Plot Type Season	Plot Search Type + Plot Type Season	loglogistic	345.56	9.07
Season + Plot Type Season	Plot Search Type	lognormal	345.71	9.22
Season	No Covariates	lognormal	345.77	9.28
Season + Plot Search Type	Plot Search Type + Plot Type Season	lognormal	346.01	9.52
Plot Type Season	Plot Search Type + Plot Type Season	lognormal	346.01	9.52
Plot Search Type + Plot Type Season	Plot Type Season	lognormal	346.01	9.52
Plot Search Type	Plot Search Type + Plot Type Season	Weibull	346.02	9.53
No Covariates	Season	loglogistic	346.55	10.06
Plot Search Type	No Covariates	lognormal	346.55	10.06
Plot Search Type	Plot Search Type	Weibull	346.56	10.07
Season + Plot Search Type	No Covariates	loglogistic	347.01	10.52
Plot Type Season	No Covariates	loglogistic	347.01	10.52
No Covariates	No Covariates	Weibull	347.30	10.81
Season + Plot Search Type	No Covariates	Weibull	347.46	10.97
Plot Type Season	No Covariates	Weibull	347.46	10.97
Season + Plot Search Type	Season + Plot Search Type + Season:Plo	ot Weibull	347.51	11.02
	Search Type			
Season + Plot Type Season	Plot Type Season	Weibull	347.51	11.02
Season + Plot Type Season	Plot Search Type	Weibull	347.79	11.30
Season + Plot Search Type	No Covariates	lognormal	348.04	11.55
Plot Type Season	No Covariates	lognormal	348.04	11.55
Season + Plot Search Type + Plot Type Season	Plot Search Type	lognormal	348.34	11.85
No Covariates	Season	lognormal	348.34	11.85
Season	Season	loglogistic	348.61	12.12

Appendix B2. Carcass persistence models with covariates and distributions for bats at the Sugar Creek Wind Energy Project, Logan County, Illinois, from April 1 – October 15, 2023 (n = 71).

Location Covariates	Scale Covariates	Distribution	AICc	Delta AICc
Season	No Covariates	Weibull	348.72	12.23
Plot Type Season	Season + Plot Type Season	lognormal	348.73	12.24
Season + Plot Type Season	Plot Type Season	lognormal	348.73	12.24
No Covariates	Season + Plot Search Type + Plot Type Season	Weibull	348.77	12.28
Plot Search Type	No Covariates	Weibull	349.07	12.58
Season	Season	lognormal	349.50	13.01
Plot Search Type + Plot Type Season	No Covariates	Weibull	349.85	13.36
Season + Plot Search Type + Plot Type Season	Plot Type Season	Weibull	350.32	13.83
Season + Plot Search Type + Plot Type Season	Plot Search Type	Weibull	350.42	13.93
Plot Search Type + Plot Type Season	No Covariates	lognormal	350.43	13.94
Season + Plot Search Type	Season	loglogistic	351.07	14.58
No Covariates	Season	Weibull	351.28	14.79
Season + Plot Search Type + Plot Type Season	Plot Type Season	lognormal	351.54	15.05
Season + Plot Search Type	Season	lognormal	351.94	15.45
Season + Plot Search Type	Season	Weibull	352.27	15.78
Season + Plot Type Season	No Covariates	Weibull	352.31	15.82
Season + Plot Type Season	No Covariates	lognormal	352.90	16.41
Season	Season	Weibull	353.03	16.54
Season + Plot Search Type + Plot Type Season + Season:Plot Search Type	Plot Search Type	lognormal	353.87	17.38
Plot Search Type + Plot Type Season	Season	lognormal	354.48	17.99
Plot Search Type + Plot Type Season	Season	Weibull	354.82	18.33
Season + Plot Search Type + Plot Type Season	No Covariates	Weibull	354.86	18.37
Season + Plot Search Type	-	exponential	354.98	18.49
Plot Type Season	-	exponential	354.98	18.49
Season + Plot Search Type + Plot Type Season	No Covariates	lognormal	355.44	18.95
Season + Plot Search Type + Plot Type Season + Season:Plot Search Type	Plot Search Type	Weibull	355.94	19.45
Season + Plot Search Type + Plot Type Season + Season:Plot Search Type	Plot Type Season	Weibull	356.23	19.74
Season + Plot Search Type + Plot Type Season + Plot Search Type:Plot Type Season		lognormal	356.77	20.28
Season + Plot Type Season	Season	lognormal	357.11	20.62
Plot Search Type + Plot Type Season	-	exponential	357.30	20.81

Appendix B2. Carcass persistence models with covariates and distributions for bats at the Sugar Creek Wind Energy Project, Logan County, Illinois, from April 1 – October 15, 2023 (n = 71).

Location Covariates	Scale Covariates	Distribution	AICc	Delta AICc
Season + Plot Type Season	Season	Weibull	357.44	20.95
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Type Season	lognormal	357.45	20.96
Search Type				
Season + Plot Search Type + Plot Type Season + Plot Search	Plot Search Type	Weibull	358.85	22.36
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Plot Search	Plot Type Season	Weibull	359.34	22.85
Type:Plot Type Season				
Season + Plot Type Season	_	exponential	359.69	23.20
Season + Plot Search Type + Plot Type Season	Season	lognormal	359.83	23.34
Season + Plot Search Type + Plot Type Season	Season	Weibull	360.16	23.67
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	Weibull	360.20	23.71
Search Type				
Season + Plot Search Type + Plot Type Season + Plot Search	Plot Type Season	lognormal	360.56	24.07
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	lognormal	360.79	24.30
Search Type				
Season	_	exponential	361.96	25.47
Season + Plot Search Type + Plot Type Season	_	exponential	362.15	25.66
No Covariates	_	exponential	362.60	26.11
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Search Type	lognormal	362.89	26.40
Search Type + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Plot Search	No Covariates	Weibull	363.01	26.52
Type:Plot Type Season				
Plot Search Type	_	exponential	363.23	26.74
Season + Plot Search Type + Plot Type Season + Plot Search	No Covariates	lognormal	363.59	27.10
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Search Type	Weibull	364.97	28.48
Search Type + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	lognormal	365.54	29.05
Search Type				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	Weibull	365.87	29.38
Search Type				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Type Season	Weibull	365.92	29.43
Search Type + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Search Type	lognormal	366.12	29.63
Type Season				

Appendix B2. Carcass persistence models with covariates and distributions for bats at the Sugar Creek Wind Energy Project, Logan County, Illinois, from April 1 – October 15, 2023 (n = 71).

Location Covariates	Scale Covariates	Distribution	AICc	Delta AICc
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Type Season	lognormal	367.14	30.65
Search Type + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	_	exponential	367.32	30.83
Search Type				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Search Type	Weibull	368.20	31.71
Type Season				
Season + Plot Search Type + Plot Type Season + Plot Search	Season	lognormal	368.55	32.06
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Plot Search	Season	Weibull	368.88	32.39
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	Weibull	368.92	32.43
Search Type + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Type Season	Weibull	369.39	32.90
Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	lognormal	369.50	33.01
Search Type + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Plot Search	-	exponential	370.04	33.55
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Type Season	lognormal	370.61	34.12
Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	Weibull	372.03	35.54
Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	lognormal	372.62	36.13
Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Search Type	lognormal	372.94	36.45
Search Type + Season:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	lognormal	374.89	38.40
Search Type + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Search Type	Weibull	375.02	38.53
Search Type + Season:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	Weibull	375.22	38.73
Search Type + Plot Search Type:Plot Type Season			075.75	
Season + Plot Search Type + Plot Type Season + Season:Plot	_	exponential	375.75	39.26
Search Type + Plot Search Type:Plot Type Season	DI 40		070.55	40.00
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Search Type	lognormal	376.55	40.06
Type Season + Plot Search Type:Plot Type Season				

Appendix B2. Carcass persistence models with covariates and distributions for bats at the Sugar Creek Wind Energy Project, Logan County, Illinois, from April 1 – October 15, 2023 (n = 71).

Location Covariates	Scale Covariates	Distribution	AICc	Delta AICc
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Type Season	Weibull	376.75	40.26
Search Type + Season:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Type Season	lognormal	377.96	41.47
Search Type + Season:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	lognormal	378.23	41.74
Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	Weibull	378.57	42.08
Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	Weibull	378.61	42.12
Search Type + Season:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Search Type	Weibull	378.62	42.13
Type Season + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	_	exponential	378.76	42.27
Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	lognormal	379.19	42.70
Search Type + Season:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Type Season	Weibull	380.64	44.15
Type Season + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Type Season	lognormal	381.86	45.37
Type Season + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	Weibull	382.08	45.59
Type Season + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	lognormal	382.67	46.18
Type Season + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Search Type	lognormal	384.19	47.70
Search Type + Season:Plot Type Season + Plot Search				
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	-	exponential	385.10	48.61
Search Type + Season:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	lognormal	385.31	48.82
Search Type + Season:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	Weibull	385.65	49.16
Search Type + Season:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Search Type	Weibull	386.27	49.78
Search Type + Season:Plot Type Season + Plot Search				
Type:Plot Type Season				

Appendix B2. Carcass persistence models with covariates and distributions for bats at the Sugar Creek Wind Energy Project, Logan County, Illinois, from April 1 – October 15, 2023 (n = 71).

Location Covariates	Scale Covariates	Distribution	AICc	Delta AICc
Season + Plot Search Type + Plot Type Season + Season:Plot	-	exponential	388.45	51.96
Type Season + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Type Season	Weibull	388.93	52.44
Search Type + Season:Plot Type Season + Plot Search				
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	lognormal	389.06	52.57
Type Season + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	Weibull	389.40	52.91
Type Season + Plot Search Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	Weibull	389.44	52.95
Search Type + Season:Plot Type Season + Plot Search				
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	No Covariates	lognormal	390.02	53.53
Search Type + Season:Plot Type Season + Plot Search				
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Plot Type Season	lognormal	390.15	53.66
Search Type + Season:Plot Type Season + Plot Search				
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	_	exponential	395.53	59.04
Search Type + Season:Plot Type Season + Plot Search				
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	lognormal	397.02	60.53
Search Type + Season:Plot Type Season + Plot Search				
Type:Plot Type Season				
Season + Plot Search Type + Plot Type Season + Season:Plot	Season	Weibull	397.35	60.86
Search Type + Season:Plot Type Season + Plot Search				
Type:Plot Type Season				
* 0 1 4 1 1 1				

^{*} Selected model.

AICc = corrected Akaike Information Criterion; Delta AICc = change in AICc.

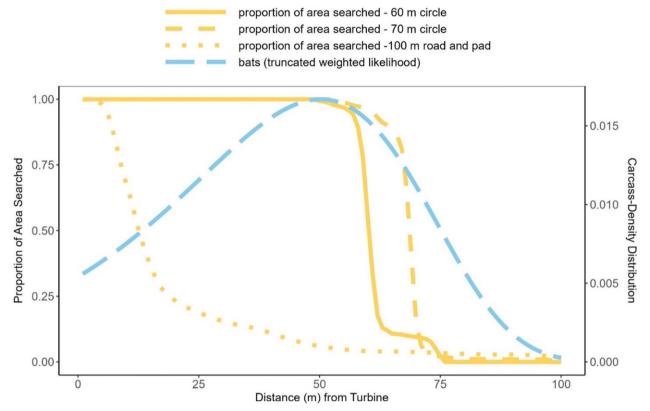
Appendix C. Truncated Weighted Likelihood Area Adjustment Estimate Model Fitting Results for the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

Appendix C1. Search area adjustment models for bats from the Sugar Creek Wind Energy Project, Logan County, Illinois, from April 1 – October 15, 2023.

Distribution	AICc	Delta AICc
Gompertz	26,881.84	0*
normal	26,984.11	102.27
Weibull	27,028.36	146.52
gamma	27,131.86	250.02

^{*} Selected model.

AICc = corrected Akaike Information Criterion; Delta AICc = change in AICc.



Appendix C3. Estimated carcass-density distribution for 4.2 megawatt blade length turbines, and proportion of area searched by distance from turbine at Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023. *Fall road and pad search areas included a 5-m (16-ft) cleared buffer around each road and pad.



Appendix D1. Estimated fatality rates and adjustment factors, with 90% confidence intervals (CI) at 60-meter full plot search areas for studies conducted at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

		Fall
	9 turbine	s searched
	Estimate	90% CI
Search Area Adjustment	•	-
	0.75	0.68-0.81
Searcher Efficiency	•	·
	0.46	0.32-0.62
Average Probability of a Carcass Persisting Through the Search Interval*		
	0.73	0.66-0.81
Probability of Available and Detected		
	0.46	0.35-0.56
Estimated Fatality Rates (Fatalities/Turbine/Season)		
	14.92	11.30-21.06
Estimated Fatality Rates (Fatalities/Megawatt/Season)		
	7.46	5.65-10.53

^{*} The search interval was five times per week.

Appendix D2. Estimated fatality rates and adjustment factors, with 90% confidence intervals (CI) at 70-meter full plot search areas for studies conducted at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

	ı	Fall
	6 turbine	s searched
	Estimate	90% CI
Search Area Adjustment		-
	0.84	0.79-0.89
Searcher Efficiency		
	0.46	0.32-0.62
Average Probability of a Carcass Persisting Through the Search Interval*		
	0.73	0.66-0.81
Probability of Available and Detected		
	0.46	0.35-0.56
Estimated Fatality Rates (Fatalities/Turbine/Season)		
	40.75	32.84-56.02
Estimated Fatality Rates (Fatalities/Megawatt/Season)		
	9.70	7.82–13.34

^{*} The search interval was five times per week.

Appendix D3. Estimated fatality rates and adjustment factors, with 90% confidence intervals (CI) at road and pad search areas for studies conducted at the Sugar Creek Wind Project, Logan County, Illinois, from April 1 – October 15, 2023.

	Spi	ring	Sur	nmer	Fall		
	57 Turbine	s Searched	55 Turbine	es Searched	57 Turbine	es Searched	
	Estimate	90% CI	Estimate	90% CI	Estimate	90% CI	
Search Area Adjus	tment						
	0.13	0.11-0.16	0.13	0.11-0.16	0.21	0.18-0.25	
Searcher Efficiency	У						
	0.86	0.77-0.92	0.86	0.77-0.92	0.86	0.77-0.92	
Average Probability	y of a Carcas	s Persisting T	Through the S	Search Interva	 *		
	0.53	0.45-0.61	0.52	0.44-0.59	0.88	0.82-0.93	
Probability of Avail	lable and Det	ected					
	0.46	0.38-0.54	0.46	0.38-0.54	0.76	0.68-0.83	
Estimated Fatality	Rates (Fatalit	ies/Turbine/S	eason)				
	4.12	2.33-6.94	10.86	7.26-16.06	37.08	30.08-46.70	
Estimated Fatality	Rates (Fatalit	ies/Megawatt	/Season)				
	1.14	0.64-1.99	3.10	2.04-4.79	10.07	8.20-12.72	

^{*} The search interval was weekly in spring and summer and five times per week in fall.



Appendix E. Single Class Module Inputs for stratum *g* estimation.

	-	Turbine	# of Turbines	Total # of	Arrival	Sampling	Plot	Plot Size			Search
Season	Search Area Type	MW	Searched	Turbines	Proportion	Fraction	Shape	(m)	Start Date	End Date	Interval
opring	road and nad	2.0	17	57	0.11	0.30	circle	100	3-Apr	25-May	7.0
spring	road and pad	4.2	40	57	0.11	0.70	circle	100	3-Apr	25-May	7.0
·	full plot	2.0	9	57	0.89	0.16	circle	60	2-Aug	21-Oct	1.5
fall	Tuli piot	4.2	6	57	0.89	0.11	circle	70	2-Aug	21-Oct	1.5
Idli	road and pad	2.0	8	57	0.89	0.14	circle	100	2-Aug	21-Oct	1.5
	Toau anu pau	4.2	34	57	0.89	0.60	circle	100	2-Aug	21-Oct	1.5

MW = megawatt; m = meters.

Appendix E. (continued) Single Class Module Inputs for stratum g estimation.

	-	-		# of SEEF-	-	# of	CPT Shape	CPT Scale	CPT Scale	CPT Scale
Season	Search Area Type	SEEF	C Found	C Placed	k	Searches	Parameter	Parameter	Parameter-Lower	Parameter-Upper
opring	road and nad	0.86	49	57	0.65	9	1.39	3.17	2.29	4.39
spring	road and pad	0.86	49	57	0.65	9	1.39	3.17	2.29	4.39
	full plot	0.46	13	28	0.65	48	0.63	3.17	2.29	4.39
fall	ruii piot	0.46	13	28	0.65	45	0.63	3.17	2.29	4.39
Iali	road and nod	0.86	49	57	0.65	53	1.39	3.17	2.29	4.39
	road and pad	0.86	49	57	0.65	51	1.39	3.17	2.29	4.39

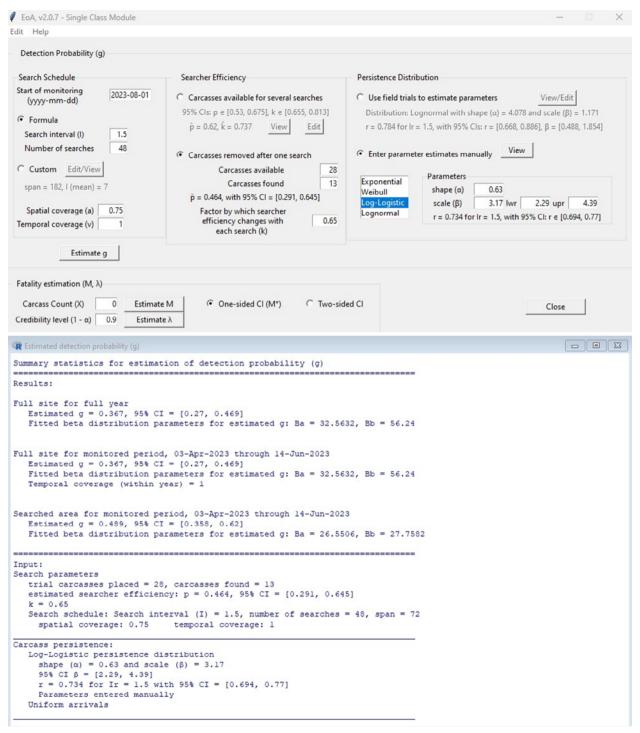
SEEF = searcher efficiency; SEEF-C = searcher efficiency carcasses; k = detection reduction factor; CPT = carcass persistence trials.

Appendix E. (continued) Single Class Module Inputs for stratum g estimation.

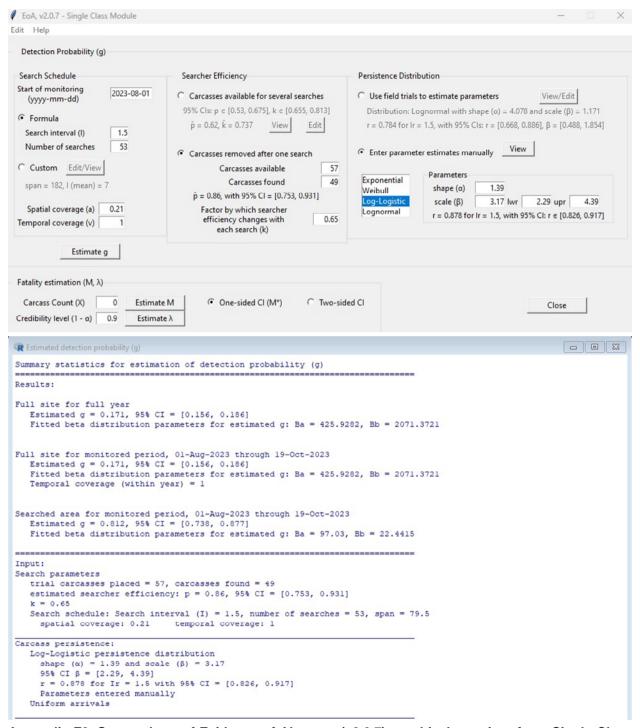
		СРТ	CPT Scale Parameter	Area	g - Beta Distribution,	g - Beta Distribution,		g -	g -
Season	Search Area Type	Distribution	Confidence Level	Correction	Alpha Parameter	Beta Parameter	g	lower	upper
opring	road and nad	loglogistic	0.95	0.13	472.16	7,586.43	0.06	0.05	0.06
spring	road and pad	loglogistic	0.95	0.13	472.16	7,586.43	0.06	0.05	0.06
	full plot	loglogistic	0.95	0.75	35.44	56.52	0.39	0.30	0.47
foll	ruii piot	loglogistic	0.95	0.84	32.66	42.39	0.44	0.34	0.53
fall	road and nad	loglogistic	0.95	0.21	1,113.55	5,277.15	0.17	0.17	0.18
	road and pad	loglogistic	0.95	0.21	1,111.74	5,269.13	0.17	0.17	0.18

CPT = carcass persistence trials; g = detection probability.

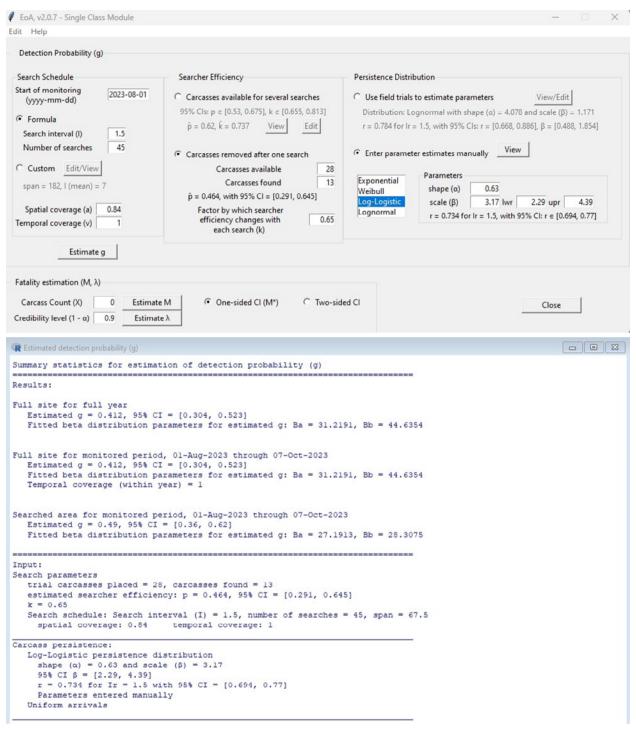
Appendix F. Screenshots of Inputs for Single Class and Multiple Class Modules in Evidence of Absence.



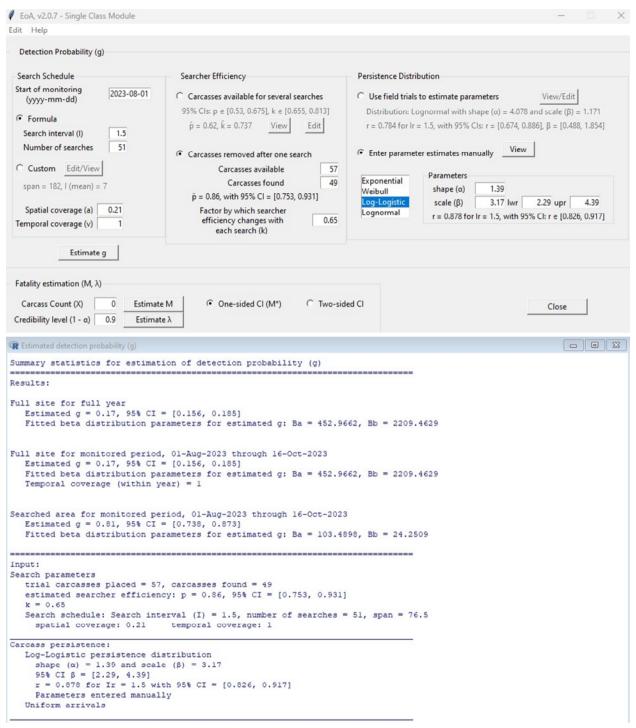
Appendix F1. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Single Class Module inputs for Indiana and northern-long eared bats. Sampling fraction and temporal coverage are accounted for in the Multiple Class Module weights. Detection probability estimates can be found in the Covered Species Take Estimates and Probability of Detection (g) section under Results.



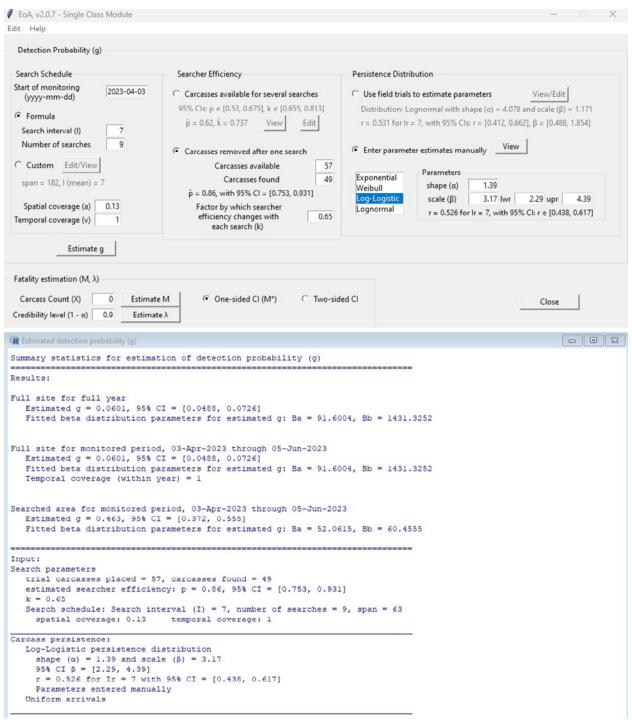
Appendix F2. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Single Class Module inputs for Indiana and northern-long eared bats. Sampling fraction and temporal coverage are accounted for in the Multiple Class Module weights. Detection probability estimates can be found in the Covered Species Take Estimates and Probability of Detection (g) section under Results.



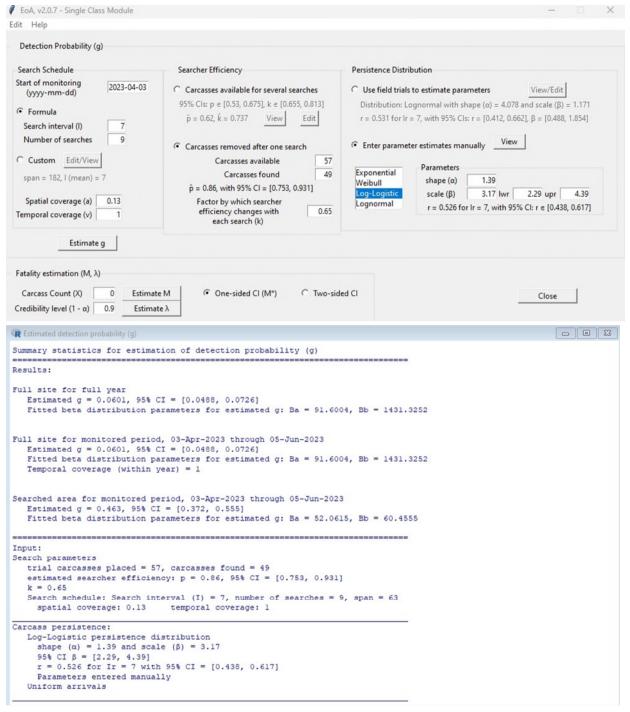
Appendix F3. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Single Class Module inputs for Indiana and northern-long eared bats. Sampling fraction and temporal coverage are accounted for in the Multiple Class Module weights. Detection probability estimates can be found in the Covered Species Take Estimates and Probability of Detection (g)section under Results.



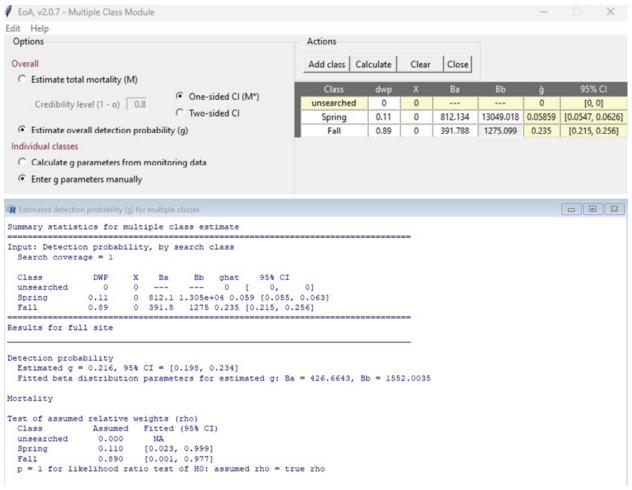
Appendix F4. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Single Class Module inputs for Indiana and northern-long eared bats. Sampling fraction and temporal coverage are accounted for in the Multiple Class Module weights. Detection probability estimates can be found in the Covered Species Take Estimates and Probability of Detection (g) section under Results.



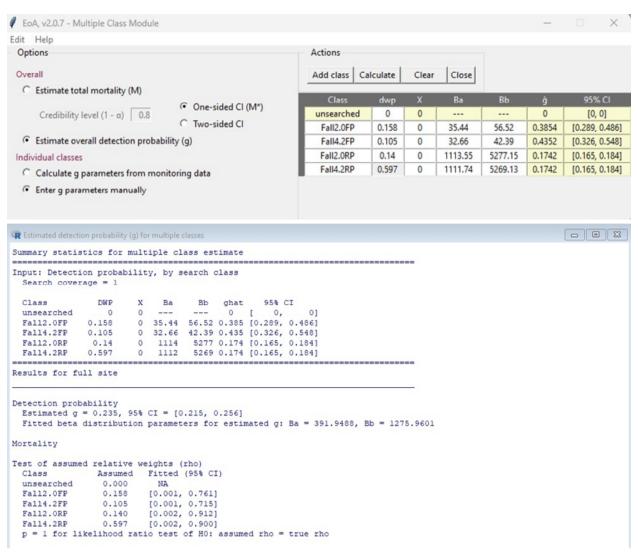
Appendix F5. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Single Class Module inputs for Indiana and northern-long eared bats. Sampling fraction and temporal coverage are accounted for in the Multiple Class Module weights. Detection probability estimates can be found in the Covered Species Take Estimates and Probability of Detection (g) section under Results.



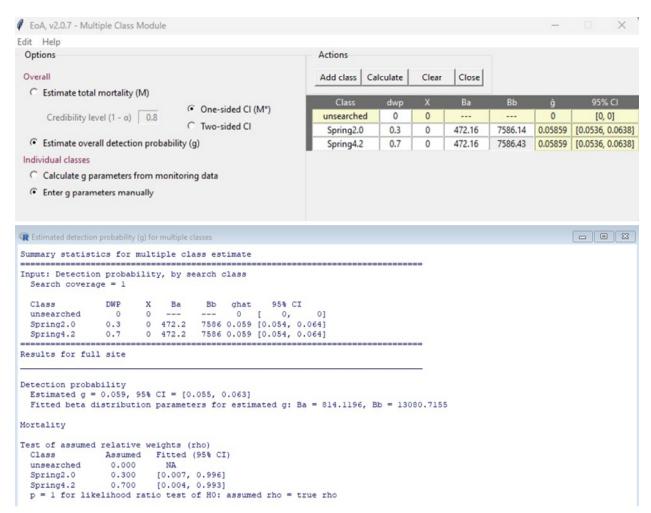
Appendix F6. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Single Class Module inputs for Indiana and northern-long eared bats. Sampling fraction and temporal coverage are accounted for in the Multiple Class Module weights. Detection probability estimates can be found in the Covered Species Take Estimates and Probability of Detection (g) section under Results.



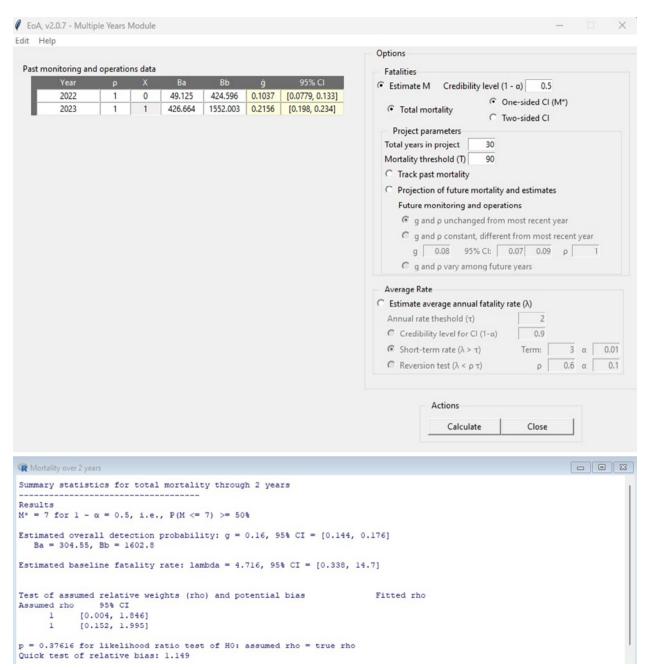
Appendix F7. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Multiple Class Module inputs for Indiana and northern long-eared bats. Weights (DWP) were calculated as the sampling fraction within season and temporal coverage (arrival proportion) across seasons. Detection probabilities estimates can be located in the *Covered Species Take Estimates and Probability of Detection (g)*section, under *Results*. Mortality estimates were calculated using the Multiple Years Module.



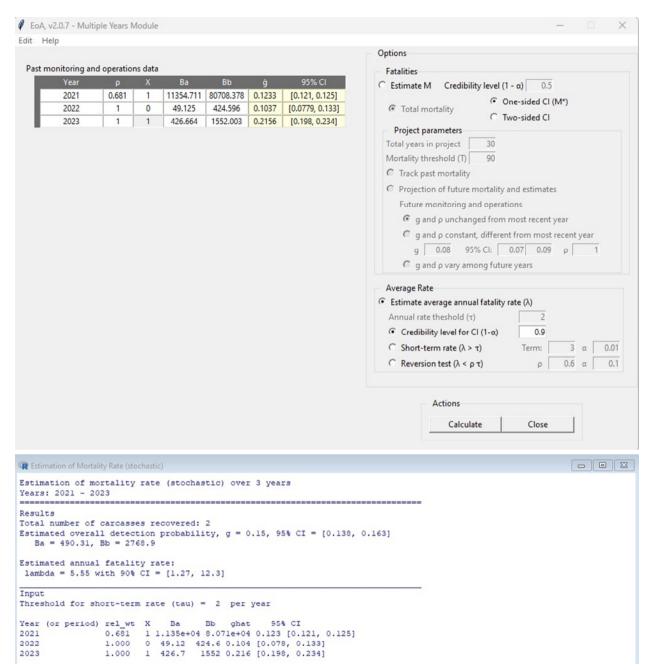
Appendix F8. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Multiple Class Module inputs for Indiana and northern long-eared bats. Weights (DWP) were calculated as the sampling fraction within season and temporal coverage (arrival proportion) across seasons. Detection probabilities estimates can be located in the *Covered Species Take Estimates and Probability of Detection* (g)section, under *Results*. Mortality estimates were calculated using the Multiple Years Module.



Appendix F9. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Multiple Class Module inputs for Indiana and northern long-eared bats. Weights (DWP) were calculated as the sampling fraction within season and temporal coverage (arrival proportion) across seasons. Detection probabilities estimates can be located in the Covered Species Take Estimates and Probability of Detection (g)section, under Results. Mortality estimates were calculated using the Multiple Years Module.

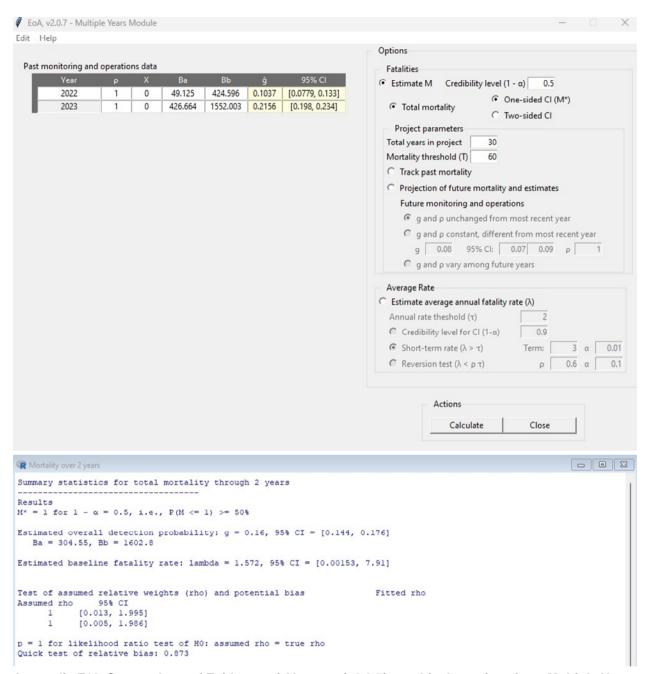


Appendix F10. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Multiple Years Module inputs for Indiana bats. Years 2022 and 2023 were used for the M* estimates, and years 2021–2023 were used for the lambda estimates. Weights (ρ) were calculated to combine Beta distribution parameters across years, with a ρ of 1 representing a normal risk year.

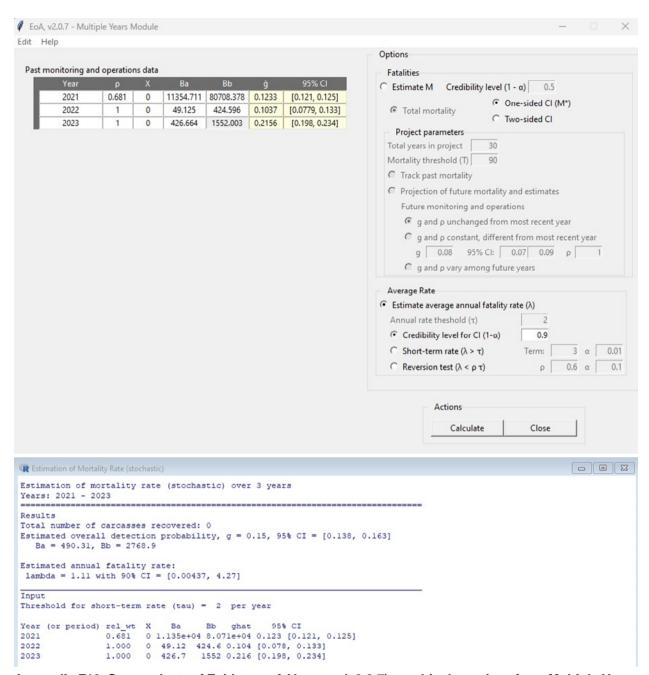


Appendix F11. Screenshots of Evidence of Absence (v2.0.7) graphical user interface (GUI), Multiple Years Module inputs for Indiana bats. Years 2022 and 2023 were used for the M* estimates, and years 2021–2023 were used for the lambda estimates. Weights (ρ) were calculated to combine Beta distribution parameters across years, with a ρ of 1 representing a normal risk year.

Note: although the weight (ρ) column of the Multiple Years Module sums to 2.68, the EoA GUI produces a "year-adjusted λ " by calculating the average λ over the number of input rows (years) in the multi-year module of the GUI. Because the ρ values associated with each year in the GUI are scaled so that a " ρ " of 1.0 is equivalent to a typical operations year for the wind farm, we would like to calculate the " ρ -adjusted λ " but the GUI does not accommodate that calculation. Therefore, the " ρ -adjusted λ ," 6.21, is equivalent to the "year-adjusted λ " (5.55, as seen in the output above) divided by the sum of ρ (2.68) multiplied by the number of years (3).



Appendix F12. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Multiple Years Module inputs for northern-long eared bats. Years 2022 and 2023 were used for the M* estimates, and years 2021–2023 were used for the lambda estimates. Weights (ρ) were calculated to combine Beta distribution parameters across years, with a ρ of 1 representing a normal risk year.



Appendix F13. Screenshots of Evidence of Absence (v2.0.7) graphical user interface, Multiple Years Module inputs for northern-long eared bats. Years 2022 and 2023 were used for the M* estimates, and years 2021–2023 were used for the lambda estimates. Weights (ρ) were calculated to combine Beta distribution parameters across years, with a ρ of 1 representing a normal risk year.

Note: although the weight (ρ) column of the Multiple Years Module sums to 2.68, the EoA GUI produces a "year-adjusted λ " by calculating the average λ over the number of input rows (years) in the multi-year module of the GUI. Because the ρ values associated with each year in the GUI are scaled so that a " ρ " of 1.0 is equivalent to a typical operations year for the wind farm, we would like to calculate the " ρ -adjusted λ " but the GUI does not accommodate that calculation. Therefore, the " ρ -adjusted λ ," 1.24, is equivalent to the "year-adjusted λ " (1.11, as seen in the output above) divided by the sum of ρ (2.68) multiplied by the number of years (3).