

## **The BTHK Potential Roost Feature (PRF) recording form**


### **Instructions**

Upon completion, EVERY box should have a value entered or an attribute circled (if it is present) or crossed out (if it is not present). If they do not, anyone attempting to use the data will be left in doubt whether the blank represents a negative or an oversight.

All numeric values should be in metres (m) or centimetres (cm). If the resolution is in mm then this should be entered as cm/mm (so 81 mm would be entered as 8.1 cm). This is because that is the recording criteria in the BTHK project and therefore the way the data is presented on the Database. Adopting cm uses less space and experience has shown that it results in less confusion when the data is used for practical purposes.

Any questions or requests for clarification should be directed to [info@battreehabitatkey.com](mailto:info@battreehabitatkey.com)

It may take a couple of days for someone to answer but be patient and you will get a response.

GROUND SAMPLING	SITE NAME					
	DATE					
	HABITAT (Phase 1 where known)					
	O.S. GRID REFERENCE					
	Tag number					
	TREE SPECIES					
	TREE ALIVE/DEAD					
	DBH (Diameter at Breast Height)					
	TREE HEIGHT					
	PRF on STEM/LIMB					
	PRF TYPE					
	DIRECTION PRF FACES					
CLIMBER	MEASUREMENTS	PRF HEIGHT (m)				
		DPH (Diameter at PRF Height)				
		ENTRANCE	Height (cm)			
			Width (cm)			
		INTERNAL	Height (cm)			
			Width (cm)			
			Depth (cm)			
	ROOSTING EVIDENCE 	Droppings: yes or no? (look in base)				
		Bats (look in cavity)	Species			
			Number of bats			
			Torpid or awake			
			Above/below/to side of entrance			
			Distance from entrance (cm)			
	INTERNAL CONDITIONS: (Circle as many of the following as are applicable and cross-out those that are not)	SMELL	None	Pleasant	Not unpleasant	Unpleasant
		SUBSTRATE	Smooth	Bobbly	Bumpy	Rough
				Waxy	Blackened	Polished
				Dusty	Debris	Sludgy
		HUMIDITY	Dry	Damp	Wet	Mildew
		APEX SHAPE	Dome	Spire	Peak/wedge	Flat
			Chambered		Tube	
		COMPETITORS (invertebrates, birds, mammals?)				
	*	PHOTOS	1. Photo of this form so you know which photos go with which tree			
			2. Contextual photo showing tree in habitat; tick box when done			
3. Close-up photo of the PRF; tick box when done						
FORM		Check the form to ensure every box has a value				

\*\* Cleanliness categories have a primary (i.e., clean or dirty) which is circled where it is observed and crossed-out where it is not, and then any associated secondary is circled where it is observed and crossed-out where it is not.



## The BTHK template for the presentation of the results of intelligence-gathering

[illegible]

**The BTHK template for a tree species summary table**

<b>S T A G E 1</b>	<b>TREE SPECIES</b>					
	<b>DIAMETER at BREAST HEIGHT</b>					
	<b>DBH RANGE OF SPECIMENS OF THE SPECIES ON SITE</b>					
	Minimum DBH at which species is proven to form Disease & Decay PRF			Trees within DBH range present on site (Y/N)?		
	Minimum DBH at which species is proven to form Damage PRF			Trees within DBH range present on site (Y/N)?		
	Minimum DBH at which species is proven to hold Association PRF			Trees within DBH range present on site (Y/N)?		
<b>S T A G E 2</b>	<b>PRF POTENTIALLY PRESENT THAT ROOSTING BATS HAVE BEEN PROVEN TO EXPLOIT</b>					
	<b>Disease &amp; Decay</b>	<b>Y/N</b>	<b>Damage</b>	<b>Y/N</b>	<b>Association</b>	<b>Y/N</b>
	Woodpecker-hole		Lightning-strike		Fluting	
	Squirrel-hole		Hazard-beam		Ivy	
	Knot-hole		Subsidence-crack			
	Pruning-cut		Shearing-crack			
	Tear-out		Transverse-snap			
	Wound		Weld			
	Canker		Lifting-bark			
	Compression-fork		Desiccation-fissure			
Butt-rot		Frost-crack				
<b>S T A G E 3</b>	<b>BAT SPECIES</b>					
	<b>Species proven to exploit PRF potentially present in this context</b>	<b>Y/N</b>	<b>County inventory</b>	<b>Y/N</b>	<b>Data-search result</b>	<b>Y/N</b>
	Barbastelle		Barbastelle		Barbastelle	
	Bechstein's bat		Bechstein's bat		Bechstein's bat	
	Alcathoe's bat		Alcathoe's bat		Alcathoe's bat	
	Brandt's bat		Brandt's bat		Brandt's bat	
	Daubenton's bat		Daubenton's bat		Daubenton's bat	
	Whiskered bat		Whiskered bat		Whiskered bat	
	Natterer's bat		Natterer's bat		Natterer's bat	
	Leisler's bat		Leisler's bat		Leisler's bat	
	Noctule		Noctule		Noctule	
	Nathusius' pipistrelle		Nathusius' pipistrelle		Nathusius' pipistrelle	
	Common pipistrelle		Common pipistrelle		Common pipistrelle	
	Soprano pipistrelle		Soprano pipistrelle		Soprano pipistrelle	
	Brown long-eared bat		Brown long-eared bat		Brown long-eared bat	
	Lesser horseshoe-bat		Lesser horseshoe-bat		Lesser horseshoe-bat	

## The BTHK desk-study Field Summary

[illegible]

Whiskered bat																						
Natterer's bat																						
Leisler's bat																						
Noctule																						
Nathusius' pipistrelle																						
Common pipistrelle																						
Soprano pipistrelle																						
Brown long-eared bat																						
Lesser horseshoe-bat																						

**Key:** RL = "Reasonable likelihood" (i.e. 'more-likely-than-not') & P = 'Potential'.

## The BTHK ground-truthing recording form

<b>Tree reference number</b>			
<b>PRF ID</b> (for multiple PRF on one tree, you would work from highest to lowest so on Tree 1 if there were three PRF you would have 1a, 1b & 1c with 1a being the highest and 1c the lowest)			
<b>Site name</b>			
<b>County</b>			
<b>Habitat</b> (Phase 1)		Code	
<b>Date ground truthing performed</b>			
<b>Grid reference</b> (10-figure O.S. <b>not</b> lat/lon)			
<b>Tree species</b>			
<b>DBH (Diameter at Breast Height)</b>			
<b>PRF height (m)</b>			
<b>PRF Type</b>			
<b>Tree alive or dead</b>			
<b>PRF on trunk or limb</b> (HINT: if you're uncertain; it's on a limb)			
<b>Direction PRF faces</b>			
<b>Tag No. (if used)</b>			
<b>Comments</b> (Limit yourself to just comments on the feasibility of further survey. For example, whether the tree can safely be climbed etc.)			
<b>PHOTOS</b> (Take a photo of this form first, then you know the photos that follow are for this tree)	<b>Contextual photo of PRF position on tree</b>	<b>Close-up photo of PRF entrance on trunk or limb</b>	
	Tick here when taken:	Tick here when taken:	
<b>Do not forget the photographs!</b>			

**N.B.** There should be a value in every cell when you have finished.



## The BTHK ground-truthing account template

<b>SITE NAME</b>															
<b>TREE REFERENCE/TAG No.</b>															
<b>O.S. GRID REFERENCE</b>															
<b>TREE SPECIES</b>															
<b>PRF TYPE</b>					<b>SATISFIES STAGE 1 CRITERIA? Y/N</b>										
<b>PRF HEIGHT</b>					<b>SATISFIES STAGE 2 CRITERIA? Y/N</b>										
<b>BAT SPECIES</b>	<b>Predicted presence (RL/P*)</b>	<b>SEASON</b>													
		<b>Winter</b>		<b>Transitory (spring-flux)</b>		<b>Maternity</b>				<b>Mating</b>		<b>Transitory (autumn-flux)</b>			
		<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>Pregnancy</b>		<b>Nursery</b>		<b>S</b>	<b>O</b>	<b>N</b>	<b>De</b>		
		<b>a</b>	<b>e</b>	<b>a</b>	<b>p</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>De</b>		
		<b>n</b>	<b>b</b>	<b>r</b>	<b>r</b>	<b>a</b>	<b>u</b>	<b>l</b>	<b>u</b>	<b>g</b>	<b>e</b>	<b>c</b>	<b>o</b>	<b>v</b>	<b>c</b>
Barbastelle															
Bechstein's bat															
Alcathoe's bat															
Brandt's bat															
Daubenton's bat															
Natterer's bat															
Whiskered bat															
Leisler's bat															
Noctule															
Nathusius pipistrelle															
Common pipistrelle															
Soprano pipistrelle															
Brown long-eared bat															
Lesser horseshoe-bat															
<b>VITALITY (alive / moribund / dead)</b>															
<b>ACCESS POSSIBLE (Y/N)?</b>															
<b>ROOST RECORDS HELD ON BTHK DATABASE COMPARABLE TO THIS CONTEXT (Y/N)?</b> <b>Identify the roost position.</b> <b>List any field-signs associated with bat presence and any competitors</b>															

\*RL: Reasonable likelihood / P: Potential

## The BTHK template for the presentation of repeat close-inspection data

<b>Tree reference No:</b>							
CATEGORY	CRITERIA	DATE					
<b>BATS</b>	Bats (note species and numbers)						
	Above entrance: a Below: b Side: s						
	Distance from entrance (cm)						
<b>DROPPINGS PRESENT</b>							
<b>BAT-FLIES PRESENT</b>							
<b>ENTRANCE DIMENSIONS</b>	Height						
	Width						
<b>INTERNAL DIMENSIONS</b>	Height						
	Width (i.e. diameter)						
	Depth						
<b>INTERNAL VOLUME<sup>1</sup></b>							
<b>APEX SHAPE</b>							
<b>HUMIDITY</b>	Dry						
	Damp						
	Wet						
<b>ODOUR</b>	None						
	Pleasant						
	Not unpleasant						
	Unpleasant						
<b>TEXTURE</b>	Smooth						
	Bobbly						
	Bumpy						
	Rough						
<b>CLEANLINESS</b>	Clean						
	Waxy						
	Blackened						
	Polished						
	Dirty						
	Dusty						
	Debris						
	Sludgy						
<b>COMPETITORS PRESENT</b>							

<sup>1</sup> Simply use Google online calculator; type in “calculating the volume of a cylinder (if it is a dome apex), a cone (if it is a spire apex), a wedge (if it is a peak apex) or a rectangle (if it is a crevice-type PRF with a flat apex).

**The BTHK remote-observation recording form**

<b>SURVEYOR NAME(S)</b>	
<b>DATE</b>	
<b>TREE LOCATION</b>	<b>O.S. Grid ref:</b>
<b>CAMERA LOCATION</b>	<b>O.S. Grid ref:</b>
<b>TIMING</b>	
<b>SURVEY COMMENCED</b>	
<b>SUNSET TIME</b>	
<b>SURVEY COMPLETE</b>	
<b>CONDITIONS UPON COMMENCING</b>	
<b>CLOUD-COVER</b>	
<b>WIND</b>	
<b>RAIN</b>	
<b>TEMPERATURE</b>	°C
<b>CONDITIONS UPON COMPLETION</b>	
<b>CLOUD-COVER</b>	
<b>WIND</b>	
<b>RAIN</b>	
<b>TEMPERATURE</b>	°C
<b>RESULT</b>	
<b>DROPPINGS</b>	
<b>EMERGENCE OR RETURN?</b>	
<b>FAMILY/SPECIES</b>	
<b>COUNT</b>	
<b>VISITATION</b>	
<b>FAMILY/SPECIES &amp; NUMBER</b>	
<b>INVESTIGATION</b>	
<b>FAMILY/SPECIES &amp; NUMBER</b>	