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

**Instructions**

Upon completion, EVERY box should have a value in it. 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

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

|  |  |  |
| --- | --- | --- |
| **GROUNDSMAN\*** | **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)** |  |
| **C:\Users\user\Pictures\Untitled.jpgROOSTING 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:**(Tick as many of the following as are applicable. Where a field is negative please put a cross.)**There should be a value in EVERY box: ✓ or X** | **SMELL** | **None** | **Pleasant** | **Not unpleasant** | **Unpleasant** |
|  |  |  |  |
| **SUBSTRATE** | **Smooth** | **Bobbly**  | **Bumpy** | **Rough** |
|  |  |  |  |
| **Clean\*\* =** | **Waxy**  | **Blackened**  | **Polished**  |
|  |  |  |  |
| **Dirty\*\* =** | **Dusty** | **Debris** | **Sludgy** |
|  |  |  |  |
| **HUMIDITY** | **Dry** | **Damp** | **Wet** | **Mildew** |
|  |  |  |  |
| **APEX SHAPE** | **Dome** | **Spire** | **Peak/wedge** | **Flat** |
|  |  |  |  |
| **Chambered** | **Tube** |
|  |  |
| **COMPETITORS****(invertebrates, birds, mammals?)** |  |
| \* | **PHOTOS** | 1. Contextual photo showing tree in habitat |  |
| 2. Close-up photo of the PRF |  |
| **FORM** | Check the form to ensure every box has a value  |  |

\*\* Cleanliness categories have a primary (i.e. clean or dirty) and then any associated secondary is ticked where it is observed.

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

|  |  |
| --- | --- |
| **HABITAT TYPE** |  |
| **TOPOGRAPHY** | **Level (i.e. 0-10º)** |  |
| **Sloping (i.e. over 10º)** |  |
| **SITUATION** | **Central** |  |
| **Corridor** |  |
| **Edge** |  |
| **CANOPY HEIGHT RANGE** |  |
| **CANOPY TREE SPECIES** |  | **DBH RANGE** |  | **ABUNDANCE** |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| **SHRUB-LAYER TREE SPECIES** |  | **DBH RANGE** |  | **ABUNDANCE** |  |
|  |  |  |
|   |  |  |
|  |  |  |
|  |  |  |
| **BAT SPECIES INVENTORY (DATA-SEARCH)** | **Barbastelle** | **Bechstein’s bat** | **Alcathoe’s bat** | **Brandt’s bat** | **Daubenton’s bat** | **Whiskered bat** | **Natterer’s bat** | **Leisler’s bat** | **Noctule** | **Nathusius’ pipistrelle** | **Common pipistrelle** | **Soprano pipistrelle** | **Brown long-eared bat** | **Lesser horseshoe bat** |
| **BAT SPECIES PRESENT IN COUNTY** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **BAT SPECIES RECORDED ROOSTING ON-SITE** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **BAT SPECIES RECORDED IN-FLIGHT ON-SITE** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **BAT SPECIES RECORDED ROOSTING OFF-SITE AND FOR WHICH THE SITE IS WITHIN THE CORE SUSTENANCE ZONE** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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

|  |  |  |
| --- | --- | --- |
| **STAGE 1** | **TREE SPECIES** |  |
| **DIAMETER at BREAST HEIGHT** |
| **DBH RANGE OF SPECIMENS OF THE SPECIES ON SITE** |  |
| **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)?** |  |
| **STAGE 2** | **PRF POTENTIALLY PRESENT THAT ROOSTING BATS HAVE BEEN PROVEN TO EXPLOIT** |
| **Disease & Decay** | **Y/N** | **Damage** | **Y/N** | **Association** | **Y/N** |
| **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** |  |
| **STAGE 3** | **ENVIRONMENT** |
| **HABITAT** | **Y/N** | **PRF POTENTIALLY PRESENT WITHIN SITE (list)** |
| **TOPOGRAPHY** | **Level** |  |  |
| **Sloping** |  |
| **SITUATION** | **Central** |  |
| **Corridor** |  |
| **Edge** |  |
| **STAGE 4** | **BAT SPECIES** |
| **Species proven to exploit PRF potentially present in this context** | **Y/N** | **County inventory** | **Y/N** | **Data-search result** | **Y/N** |
| **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**

|  |  |
| --- | --- |
| **SITE NAME** |  |
| **TREE SPECIES** |  |
| **BAT SPECIES** | **Disease & Decay** | **Damage** | **Association** |
| **Woodpecker-hole** | **Squirrel-hole** | **Knot-hole** | **Pruning-cut** | **Tear-out** | **Wound** | **Canker** | **Compression-fork** | **Butt-rot** | **Lightning-strike** | **Hazard-beam** | **Subsidence-crack** | **Shearing-crack** | **Transverse-snap** | **Weld** | **Lifting-bark** | **Desiccation-fissure** | **Frost-crack** | **Fluting** | **Ivy** |
| **Barbastelle** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Bechstein’s bat** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Alcathoe’s bat** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Brandt’s bat** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Daubenton’s bat** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **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**

|  |  |
| --- | --- |
| **1st Recorder:** | **2nd Recorder:** |
| **GROUNDSMAN** | **SITE NAME** |  |
| **DATE** |  |
| **HABITAT** (Phase 1) |  |
| **GRID REFERENCE** (O.S. not lat/lon) |  |
| **Tag No. / Tree Ref.** |  |
| **TREE SPECIES** |  |
| **TREE ALIVE/DEAD** |  |
| **DBH** (Diameter at Breast Height) |  |
| **TREE HEIGHT**  |  |
| **PRF on STEM/LIMB** |  |
| **PRF TYPE** |  |
| **DIRECTION PRF FACES** |  |
| **PRF HEIGHT** (approximate) |  |
| **COMMENTS** | **Do not forget the photographs!** |
| **CONTEXTUAL PHOTO** | **PRF CLOSE-UP PHOTO** |
| ***insert*** | ***insert*** |

**The BTHK ground-truthing account template**

|  |  |
| --- | --- |
| **SITE NAME** |  |
| **TREE REFERENCE/TAG No.** |  |
| **O.S. GRID REFERENCE**  |  |
| **TREE SPECIES** |  |
| **PRF TYPE** |  | **SATISFIES STAGE 1 CRITERIA? Y/N** |  |
| **PRF HEIGHT** |  | **SATISFIES STAGE 2 CRITERIA? Y/N** |  |
| **BAT SPECIES** | **Predicted presence (RL/P\*)** | **SEASON**  |
| **Winter** | **Transitory****(spring-flux)** | **Maternity** | **Mating** | **Transitory****(autumn-flux)** |
| **Pregnancy** | **Nursery** |
| **Jan** | **Feb** | **Mar** | **Apr** | **May** | **Jun** | **Jul** | **Aug** | **Sep** | **Oct** | **Nov** | **Dec** |
| **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** |  |  |  |  |  |  |  |  |
| **VITALITY (alive / moribund / dead)** |  |
| **ACCESS POSSIBLE (Y/N)?** |  |
| **ROOST RECORDS HELD ON BTHK DATABASE COMPARABLE TO THIS CONTEXT (Y/N)?****Identify the roost position.** **List any field-signs associated with bat presence and any competitors** |  |

\*RL: *Reasonable likelihood* / P: Potential

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

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

**The BTHK remote-observation recording form**

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

1. 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). [↑](#footnote-ref-1)