

Saving Scotland's Red Squirrels



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Spring survey protocol
Tayside



January 2019

Tetrad Feeder-box survey protocol

Saving Scotland's Red Squirrels has carefully chosen 2km x 2km square areas (known as '**tetrads**') in which to monitor for the presence of red and grey squirrels. The tetrads represent various woodland habitats and cover all of the project's target areas.

This network of tetrads is surveyed every spring using hair-trap feeder boxes. **Four feeder boxes** are located in each tetrad, with a **sticky tab ('sticky')** placed on the underside of the lid. When the squirrels lift the lid, hairs are caught on its surface. Each sticky is collected and replaced twice, at two week intervals, resulting in three stickies per feeder box and 12 stickies per tetrad. The whole operation is completed within a six week period during **March and April**.

The species is then identified through a painstaking process of looking at the whole sticky under a microscope to make sure that no hairs are missed. The collected data contributes towards a detailed understanding of red and grey distribution over time across the project areas and helps us measure the impact of our red squirrel conservation efforts.

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1. Before you start...

Please make sure you have read the Survey Health & Safety documentation provided. You can also download this information from the [Resources Page](#) on the Community Hub.

Before you head out, make sure you have:

- Your survey data sheet with a pencil or ballpoint pen
- Maps
- A charged mobile phone
- Bait
- Labelled plastic bags for collected stickies
- 500ml spray bottle with Virkon solution and disposable gloves (first and last visit only – read safety instructions)

2. Pre-survey visit

You will be asked to visit your survey site for a pre-survey health check.

The majority of feeder boxes are already in place. However, some might need to be replaced or moved, for example if the box has been damaged or the tree has been felled. If this is the case, please contact your local Conservation Officer who will ensure your damaged/missing feeder boxes are replaced.

Please let your local Conservation Officer know if you are having trouble attaching your sticky to the underside of the feeder box lid.



To reduce the risk of aiding the spread of disease amongst any visiting wildlife, all feeder boxes must be disinfected with a broad-spectrum disinfectant solution called Virkon S. You'll find Virkon S tablets in your survey pack. Before setting out, dissolve one Virkon tablet in a spray bottle containing 500ml water. **Virkon is a toxic substance so please read the health and safety guidance provided carefully before handling.**

Once on site, remove any old bait or other debris, and spray carefully until the whole box is damp, making sure anyone else present is standing behind you. Leave the boxes to dry for a few days.

Tip: Bring along an old spoon, or simply find a stick to use as a scraper to get all of the old bait out.

Do not immediately dispose of any remaining Virkon solution. Instead, leave the spray bottle in a safe place for one week to deactivate before it can be safely poured away. Please refer to the health and safety guidance for more details.



3. Visit 1

On your first survey visit you'll be adding bait to the feeder box and installing the first set of stickies.

500g/ 1 bag of peanuts should be emptied into the feeder box. You could also sprinkle a small amount of bait outside the box to help squirrels find the new food source available.



Attach a sticky to the underside of the feeder box lid by removing the protective backing paper from **one side only**. Press down firmly before removing the final backing paper, exposing the sticky surface which will trap the hairs while ensuring no contamination occurs.



4. Visits 2-3

On your second and third visits you'll be collecting hair samples, installing fresh stickies and adding fresh bait.

Carefully remove the used sticky and place it face down on the waxy side of a piece of waxed paper before placing it in a labelled plastic bag, even if you cannot see any hairs. The wax paper will protect any collected hairs and prevent the sticky getting stuck to the plastic bag.

Remove any uneaten bait and refill the box with a bag of peanuts.

Lastly, carefully place a new sticky to the underside of the feeder box lid, remembering to remove the backing paper.

Your survey data sheet form requires details of bait taken, time spent, etc. to be recorded.

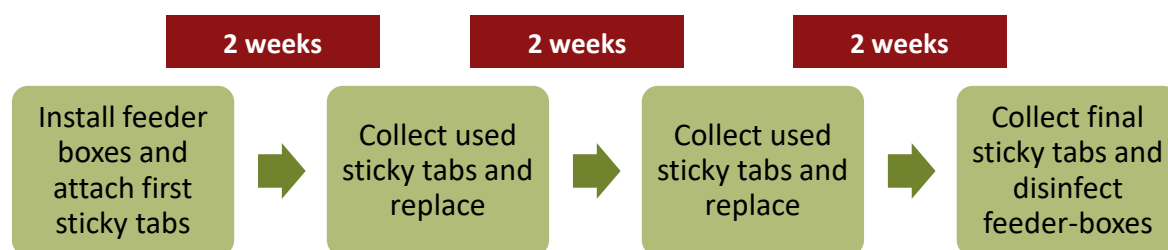
To complete all of our analyses we must have all four stickies from each tetrad per two week sampling period. If a sticky is missing please ask your Conservation Officer for advice.



5. Visit 4

On your fourth and final visit you will collect the last set of hair samples, remove any uneaten bait and disinfect each box with a freshly made batch of Virkon using the tablet provided. Always read

the safety guidance before preparing, handling and disposing Virkon. Don't forget to complete the data sheet with date visited, bait taken and time spent completing the survey.



6. Returning your hair samples and data

Before returning your hair samples and data sheet, please ensure that:

- All plastic bags contain one sample and are correctly labelled with box number and collection date
- Your data sheet is complete including feeder box map reference and sample collection dates

Next, return all samples, data sheet and empty peanut bags to your local Conservation Officer using the stamped addressed envelope provided.

7. Your survey results

The overall spring survey results will be published on the SSRS website within a year of the survey taking place. However, you can view your tetrad results as soon as they appear by joining the Community Hub. The Hub is a space for volunteers to access additional resources, connect with the project and manage red squirrel conservation data.

[Create an account](#) and [sign up as a volunteer](#) to be invited to the feeder box survey group. From here you'll be able to view your own results and explore the map to view results across the country.

You can download a Hub user guide for volunteers [on our website](#).

Saving Scotland's Red Squirrels - Developing Community Action is a project to implement a sustainable programme of red squirrel protection capable of securing the long-term survival of core red squirrel populations across Scotland. It is a five-year project to recruit and equip communities to take on a vital role in the long-term protection of red squirrels in key areas across the country. It is a partnership project between Scottish Wildlife Trust, Scottish Natural Heritage, Forestry Commission Scotland, RSPB Scotland, Scottish Land & Estates and Red Squirrel Survival Trust. It is funded for the five years 2017-2022 by the Heritage Lottery Fund.





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PROJECT PARTNERSHIP



FUNDERS

**Funding raised by
The National Lottery**

and awarded by the Heritage Lottery Fund



Saving Scotland's Red Squirrels is led by the Scottish Wildlife Trust, a Scottish registered charity (charity no. SC005792) and a company limited by guarantee and registered in Scotland (registered no. SC040247).