



From l-r: Matthew Pound, Helen Hooper and Rinke Vinkenoog of Northumbria University, with urban beekeeper Ian Campbell

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## Apiary opportunities for busy beekeepers

**Beekeepers in the North East are being invited to take part in a Northumbria University research project exploring the difference between the plants favoured by city and country bees.**

The 'City Slickers versus Country Yokels' project will look at the differences in the foraging behaviours between urban and rural bees.

The team behind the project are now looking to recruit beekeepers in Newcastle and the Tyne Valley to take part in the research, which is being

supported by the British Beekeepers Association.

Those taking part will be asked to collect pollen pellets from their hives once a fortnight and provide small samples of honey. These will then be analysed by the team at Northumbria to determine what flowers and plants the bees have been feeding on. A comparison between the habits of the city bees and their rural counterparts will then be made.

Matthew Pound, a Senior Lecturer in Geography at Northumbria and pollen analysis expert, said: “By analysing pollen pellets and honey in our lab we can establish where the bees have been foraging. Over the season, this will provide us with a good insight in where bees in rural areas and bees in the city find their food.

“We know that bees visit flowers to collect nectar and pollen, but which flowers? Do rural bees mainly fly on crops, or do they use a collection of wild flowers? And with urban beekeeping now becoming increasingly popular we hope to find out more about where these city bees go.”

The results of the research will help scientists understand more about the risks of accumulating agricultural pesticides in honey, as well as how to provide better habitats for bees in the region in the future.

Working alongside Matthew is Rinke Vinkenoog, a Senior Lecturer in Biology at Northumbria. He added: “Traditionally, we associate the countryside with wild flowers and buzzing bees – rich in biodiversity and a haven for beekeepers. However, modern agriculture and biodiversity do not always go together well.

“We now see pollination in rural areas under threat, whereas urban areas offer surprising opportunities for flower-visiting insects – not just honeybees, but many other pollinators as well. In addition to studying honeybees, we also aim to monitor the diversity in pollinators in both areas.”

Urban beekeeper Ian Campbell has 15 hives located in central Newcastle, which house up to 750,000 bees summer. He is taking part in the project and said: “The forage bees find is vital to their wellbeing. As a beekeeper it’s great to be involved in a project that can provide evidence to help us better understand their food sources in different locations. The information will

assist us to keep strong healthy colonies.”

Student volunteers from Northumbria are being recruited to support the project by visiting the beekeepers involved, collecting honey and pollen samples, analysing them in the lab and carrying out ecological surveys of flower-visiting insects.

Dr Helen Hooper is Head of the Biology, Food and Nutritional Sciences Department in the School of Life Sciences at Northumbria and will be working with both the student and beekeeper volunteers involved.

She said: “Taking part in a funded research project is a great opportunity for our students. They will learn new skills and gain hands on experience of science in action, taking part in experimental design, data collection, data analysis and presentation.

“It will also be a fascinating experience for the beekeepers taking part – they will gain a much deeper insight into the activity of their bees and learn more about the particular feeding characteristics of rural and urban bees.”

The project has received funding of £7,100 from the British Beekeepers Association.

British Beekeepers Association President Margaret Mordin said: “The British Beekeepers’ Association is delighted to be supporting this important work at the University of Northumbria. The nutrition of our honeybees is of vital importance and we will be interested to see if there are dietary differences between honeybees in urban areas and those in the countryside.”

To find out more about taking part in the project, please contact:

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