

SUMMARY OF THE 2022 REPORT

The Bugs Matter Citizen Science Survey

The national citizen science survey of 'bug splats' on vehicle number plates to monitor flying insect abundance.

Address for correspondence: info@bugsmatter.app







Headlines and Key Findings





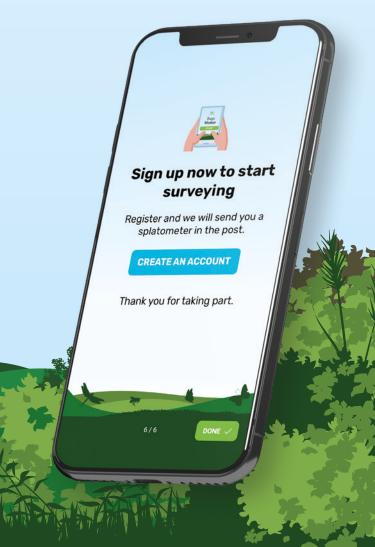
Background

Evidence is growing of widespread insect population decline. These declines could have catastrophic impacts on the Earth and human survivability. Bugs Matter demonstrates an innovative method using vehicle number plates for the widespread monitoring of insect numbers in the UK.

What is the Bugs Matter survey?

Bugs Matter enlists the help of volunteer citizen scientists to monitor the health of the UK's insect populations by recording the number of insect splats on their vehicle number plates after completing a journey using the official Bugs Matter app.

The Bugs Matter survey takes place every year from the start of June to the end of August. It was first run by the RSPB in 2004, repeated by Kent Wildlife Trust in Kent in 2019, and has since been carried out nationally in 2021 and 2022 by Kent Wildlife Trust and Buglife.



Key findings

The number of insects sampled on vehicle number plates **declined** by

+63.7%

in the UK

between 2004 - 2022

The number of insects sampled on vehicle number plates **declined** by

467.5%

in England

between 2004 - 2022

The number of insects sampled on vehicle number plates **declined** by



in Wales

between 2004 - 2022

The number of insects sampled on vehicle number plates **declined** by



in Scotland

between 2004 - 2022

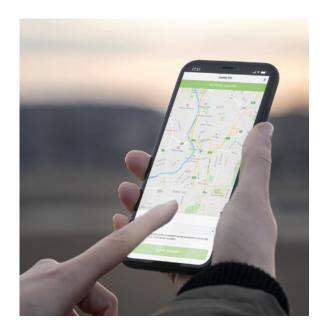
There were no journeys recorded in Northern Ireland in 2004 to compare this year's data with.



Taking action







What needs to happen?

- Insects make up over half the species on Earth and our planet's health depends on them
- There is an urgent need for an intense and global effort to avert these declining trends in insect numbers
- Local extinction rate for insects is eight times higher than any other animal group, such as birds and mammals
- We need to reverse habitat loss and degradation, prevent and mitigate climate change, reconnect flower-rich habitats, clean up polluted waters and replace pesticide dependence with sustainable farming methods
- Importantly, we need to continue to monitor the health of our insect populations.

Together, we can restore nature, and we can reverse the declines in our insects, but we must all work together, we must work at scale, and we must work with urgency. Bugs Matter will continue in 2023, so we hope that those who took part in previous surveys will be joined by hundreds more citizen scientists next year! The Bugs Matter team are working hard to improve the survey by making updates to the Bugs Matter app and trialling the use of Artificial Intelligence to auto-count insect splats.

Support the survey

The Bugs Matter citizen science survey will continue to generate crucial data. If you would like to support the Bugs Matter survey please visit:

Kent Wildlife Trust

kentwildlifetrust.org.uk/bugs-matter

Bug Life

buglife.org.uk/get-involved/surveys/bugs-matter/

You can also get in touch via info@bugsmatter.app
if you would like to support the project through technological innovations, partnerships, or if you have feedback on the survey.

Read the full report

The full technical report for the 2022 Bugs Matter survey containing detailed analyses and references to other studies is available and enquiries can be directed to info@bugsmatter.app

Read the full report

