The Rothamsted Long-term Experiments
A National Capability

The e-RA database is part of the Long-term Experiments National Capability which also includes the Classical Experiments, the Sample Archive and the Environmental Change Network.

It is jointly funded by the BBSRC and the Lawes Agricultural Trust.

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Snake’s head fritillary at Park Grass

Experiments which started in the mid-19th century continue to generate new knowledge for sustainable agriculture and ecology today
Selected commonly requested data from our long-term experiments are openly accessible as summary charts and spreadsheets. Datasets currently available include:

**Broadbalk Yields**
Mean long-term winter wheat yields from selected treatments on Broadbalk

**Park Grass Species Changes**
The impact of selected treatments on the number of species comprising 1% or more of the above-ground biomass

**Broadbalk and Hoosfield Soil Carbon**
Changes in soil organic carbon (SOC) content in selected treatments of the Broadbalk Wheat and Hoosfield Barley Experiments

**Broadbalk and Geescroft Wilderness Experiments**
Accumulation of carbon in soil and trees under the Wilderness Experiments

**Meteorological Data**
Long-term mean annual Rothamsted air temperature

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**Case Studies**

Several scientific disciplines have benefitted from using our data. Examples include:

- Agronomy
- Agro-ecology
- Biodiversity
- Climate Change
- Crop Science
- Crop and Soil Modelling
- Landscape Archaeology
- Meteorology
- Molecular Biology
- Plant Biology
- Plant Pathology
- Soil Science
- Statistics
- Weed Ecology

The long-term experiments, sample archive and e-RA database provide exciting opportunities to explore new ideas in agro-ecology. Together, they present a rich and unique research resource.

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Since 2010 our data has been used in over 80 publications

The e-RA database is comprehensive and easy to use