

The problem

The climate is changing, and in Scotland heavy rainfall is becoming more



← This graph shows the upward trend in rainfall over the last 40 years.

↑ After heavy or frequent rainfall areas of the Garden

frequent and intense.

become waterlogged and
flooded. We need to adapt to
cope with more extreme rainfall events so that the work
of RBGE is not interrupted
and the public can continue
to enjoy the garden.

Creating a Raingarden



Royal Botanic Garden Edinburgh

Our solution



In partnership with Heriot-Watt University, RBGE is creating a raingarden on the Birch Lawn to reduce the impact of heavy rain.

A raingarden is a shallow planted basin that allows rainwater to infiltrate (drain) naturally into the ground using free-draining soil. Its planting will include native shrubs, wildflowers and grasses that can withstand occasional flooding while also improving biodiversity. As well as providing a simple, attractive and wildlife-friendly way of reducing flood risk, we hope our raingarden will provide inspiration for visitors and other institutions who may need to solve similar problems.





Left and above, top row: A diverse mix of native Scottish plants that can tolerate a wide range of conditions from temporary water logging to soils drying out will be established, providing a rich patch of wildlife friendly habitat. (photos: grasshopper © Steve Marlow CC licence; bumblebees © Ivar Leidus CC BY-SA 4.0 licence; butterfly © Rob Jones)

Bottom row: A mini-disc infiltrometer was used to measure the soil infiltration rate to inform the design of the raingarden (photos: David Kelly)

OUR PARTNERS IN THIS PROJECT

