

Horticulture

Roadmap to Net Zero

Soil 101:

- [Soil Testing](#)
- [Measuring and Assessing Soil Carbon](#)
- [Earthworms](#)
- [The importance of managing soil pH](#)
- [Soil Compaction](#)
- [Joel Williams at Prideaux](#)

Cover Cropping:

- [Cover crops](#)
- [Outwintering on forage/cover crops](#)
- [Grazed winter cover crops](#)
- [Trial: Overwinter grazing at Ennis Barton, Blable and Tregooden Farms](#)

Hedges:

- [Hedgerows for carbon capture](#)
- [Hedges, a win-win](#)

Compost:

- [Optimised compost management for productivity and soil health: initial trial results](#)
- [Why Compost?](#)
- [Can composting kill weeds and save carbon?](#)
- [How to make a microbial brew for your compost](#)
- [The only compost recipe you need](#)
- [How composting can help nature and save you money](#)

Minimising risk at field scale:

- [Field Vegetables in Rotation – Best Practices for Soil Health](#)



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Horticultural emissions come mainly from fuel and inputs (artificial fertiliser and sprays). Over five years, the Farm Net Zero (FNZ) project has produced a range of resources to help understand methods to reduce emissions and increase sequestration. These resources are listed below and include factsheets from trials and reports from on-farm events, collated into practical on-farm actions.

Start with the soil:

- [Soil Testing](#) identifies the distribution of nutrients across a farm, allowing for targeted applications of fertilisers.
- [Measuring and Assessing Soil Carbon](#) creates an understanding of existing carbon stocks on farm. Increasing soil carbon content can offset emissions.
- [Earthworms](#) are an important part of a healthy farm ecosystem, cycling nutrients and aerating soil.
- [The importance of managing soil pH](#) is a vital part of reducing emissions from artificial fertiliser. Incorrect soil pH disrupts fertiliser efficiency, creating a waste of resources, money and emissions.
- [Soil Compaction](#) affects crop productivity and can require the use of excess fuel to remediate issues and fertiliser to boost productivity.
- [Joel Williams at Prideaux](#) provided a valuable insight into the process of soil carbon cycling and storage.

Grow hedges taller and thicker:

- [Hedgerows for carbon capture](#) are an important feature of the farmed landscape, as well as having major biodiversity benefits.
- [“Hedgerows, a win-win”](#) reports on an event held on a FNZ farm where they manage their hedgerows to increase biodiversity and carbon capture.

Make compost to feed the soil and store carbon:

- [“Optimised compost management for productivity and soil health: initial trial results”](#) covers the trial and results of the FNZ Compost Field Lab.
- [“Why Compost?”](#) describes how to get started in compost production.
- [“Can composting kill weeds and save carbon?”](#) is a useful video summarising the FNZ Field Lab on compost to control weeds.
- [“How to make a microbial brew for your compost”](#) details the creation of a liquid feed. With one of the FNZ monitor farmers.
- [“The only compost recipe you need”](#) covers the composting practices developed on two FNZ monitor farms through the Compost Field Lab.
- [“How composting can help nature and save you money”](#) allows the FNZ Field Lab triallists to explain the benefits of compost for their gardens.

Use cover crops to protect the soil:

- [Cover crops](#) protect soil from erosion and compaction between cash crops. The living roots can also help to maintain carbon inputs into the soil.
- [Outwintering on forage/cover crops](#) integrates livestock into arable. With appropriate management, this can boost soil nutrient cycling.
- [Grazed winter cover crops](#) can include a range of plant species. This factsheet details which species grew best on Cornish farms.
- [“Trial: Overwinter grazing at Ennis Barton, Blable and Tregooden Farms”](#) details the results of trialling cover crops for overwintering cattle and the effect on soil health on three FNZ farms.

Minimise erosion risk when growing at field scale:

- [“Field Vegetables in Rotation – Best Practices for Soil Health”](#) covers a FNZ event on how to avoid soil erosion and damage when growing field-scale vegetables. It also includes a summary of the integration of livestock into field vegetable production, as part of a circular approach to waste.