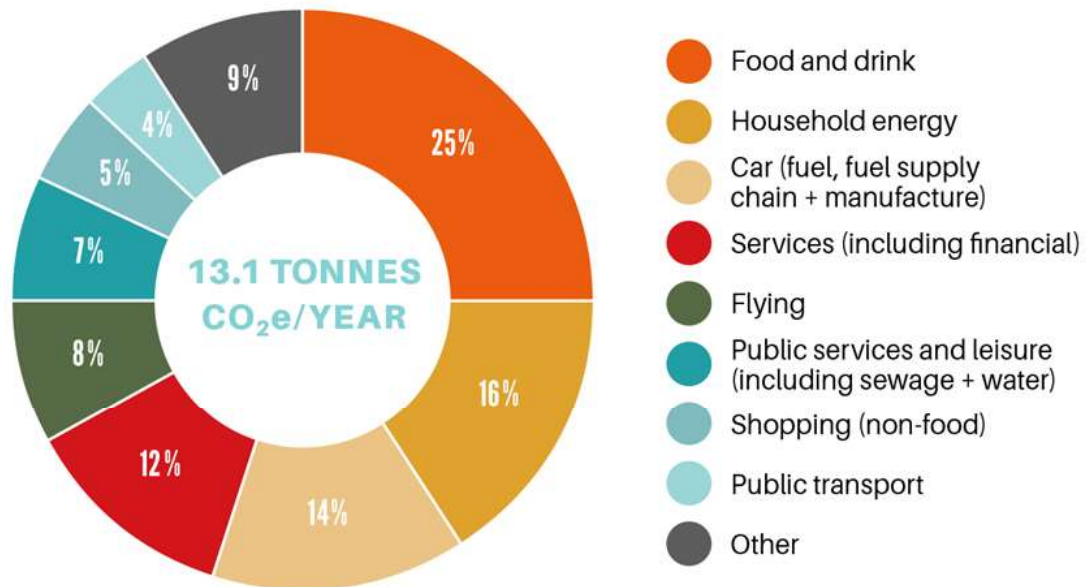


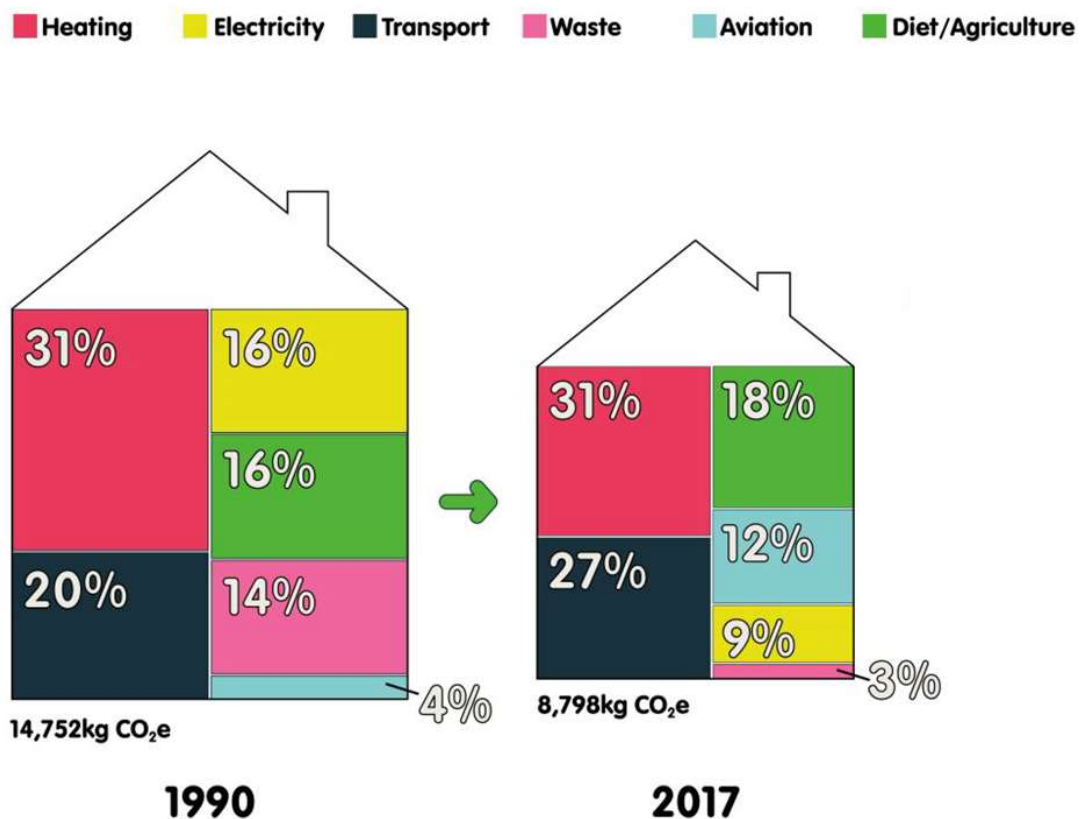
AVERAGE CARBON FOOTPRINT IN THE UK*



*A **carbon footprint** measures the total greenhouse gas (GHG) emissions caused directly and indirectly by a person. It's **measured** in tonnes of **carbon** dioxide equivalent (tCO₂e), a standard unit which expresses the impact of different GHGs.

Source: Small World Consulting

UK average household emissions



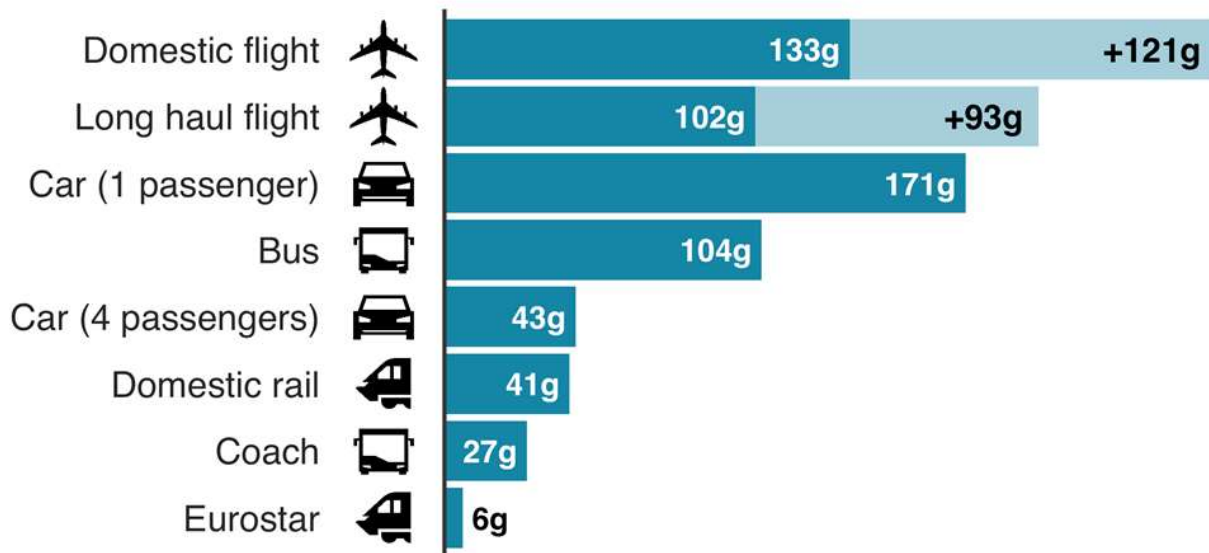
Source: Energy Systems Catapult Limited

Transport

Emissions from different modes of transport

Emissions per passenger per km travelled

■ CO2 emissions ■ Secondary effects from high altitude, non-CO2 emissions



Note: Car refers to average diesel car

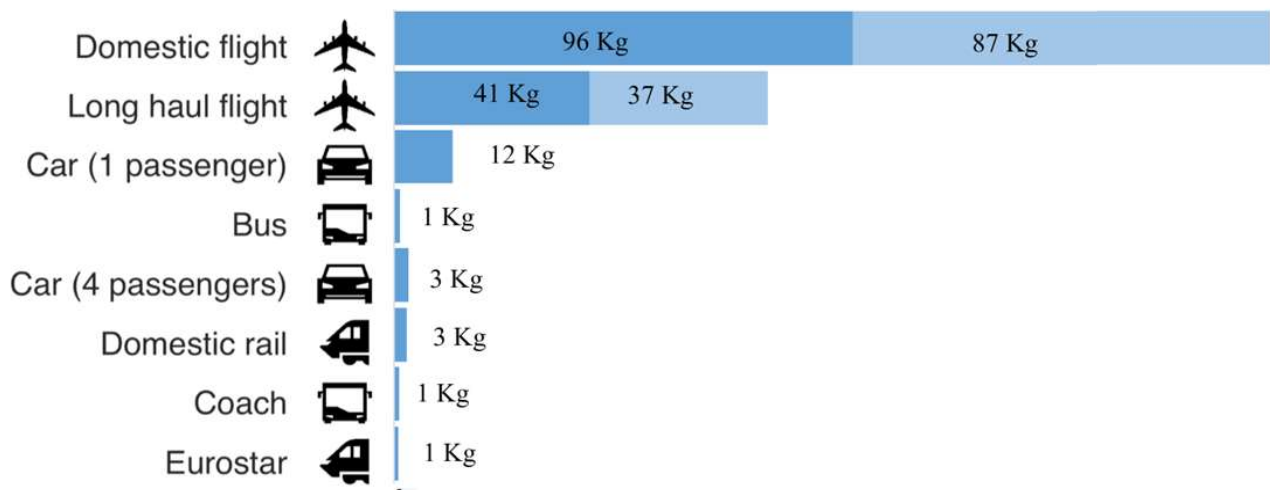
Source: BEIS/Defra Greenhouse Gas Conversion Factors 2019

BBC

Emissions from different modes of transport

Emissions per passenger per Hour travelled

■ CO2 emissions ■ Secondary effects from high altitude, non-CO2 emissions



Note: Car refers to average diesel car

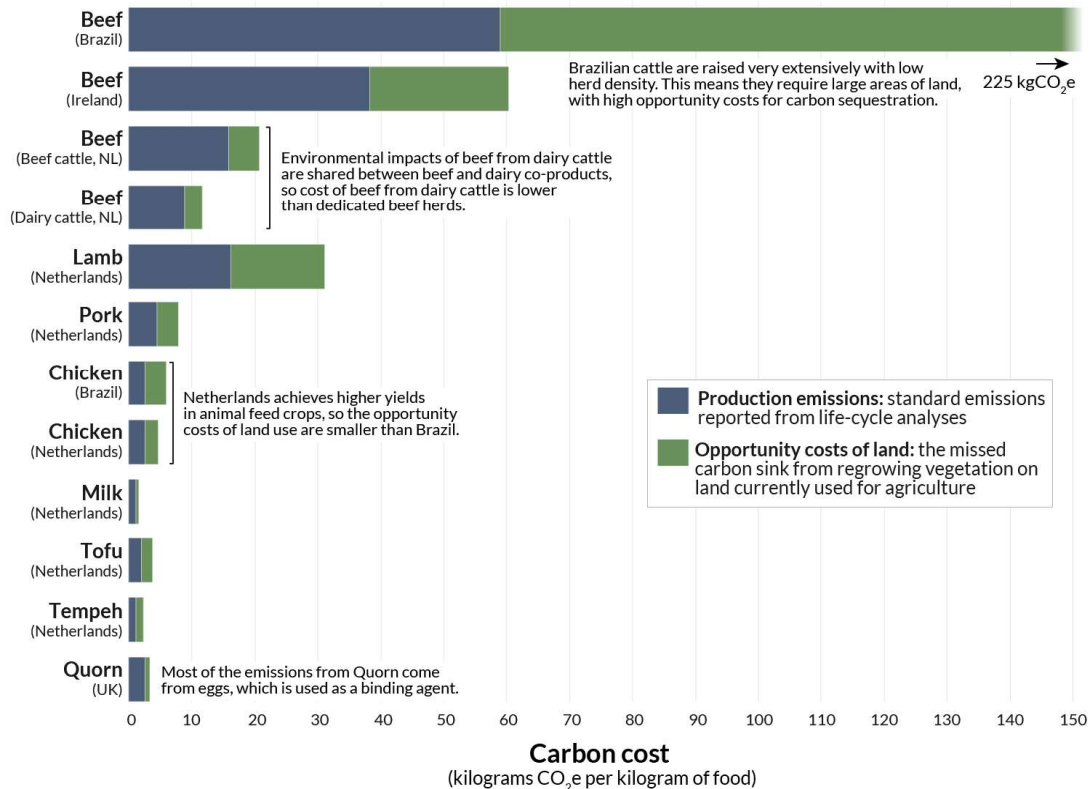
Source: BEIS/Defra Greenhouse Gas Conversion Factors 2019

BBC

What are the carbon costs of different foods?

Our World
in Data

Total carbon costs is the combination of greenhouse gas emissions from food production, plus the opportunity costs of land. Using land for agriculture – either crops or pasture for livestock – prevents natural vegetation, such as forests, or wild grasslands from growing on that land. The CO₂ this land could have sequestered is the 'carbon opportunity cost'.

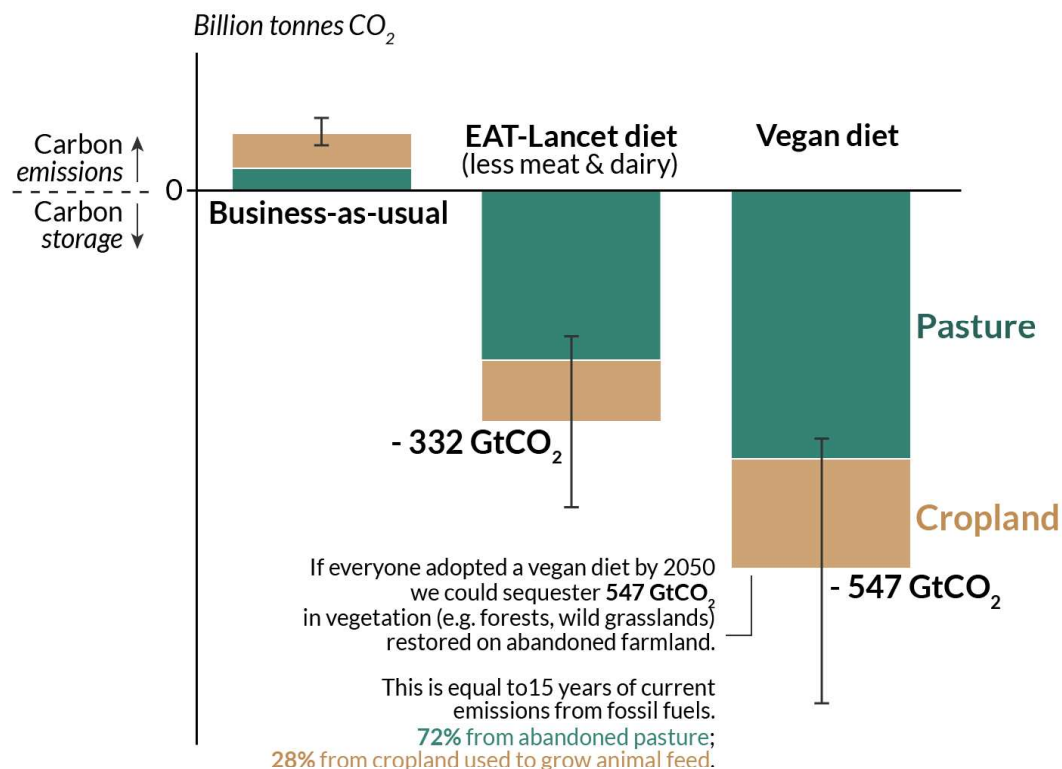


Carbon dioxide equivalents are measured using GWP100 values, and missed carbon sinks over a 100-year time horizon.
 Source: Schmidinger, K., & Stehfest, E. (2012). Including CO₂ implications of land occupation in LCAs—method and example for livestock products.
 OurWorldinData.org – Research and data to make progress against the world's largest problems. Licensed under CC-BY by the author Hannah Ritchie.

How much carbon dioxide could regrowth of trees and wilderness store if we changed global diets?

Our World
in Data

Using land for agriculture – either crops or pasture for livestock – prevents natural vegetation, such as forests, or wild grasslands from growing on that land. The CO₂ this land could sequester is the 'carbon opportunity cost'.



Note: Figures only include carbon storage in vegetation – it does not include reductions in greenhouse gas emissions from food production. Soil carbon sequestration is also not shown, but the authors estimate an additional 135 – 225 GtCO₂ of carbon storage in soils.
 Source: Matthew Hayek et al (2020). The carbon opportunity cost of animal-sourced food production on land. *Nature*.
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Land Use

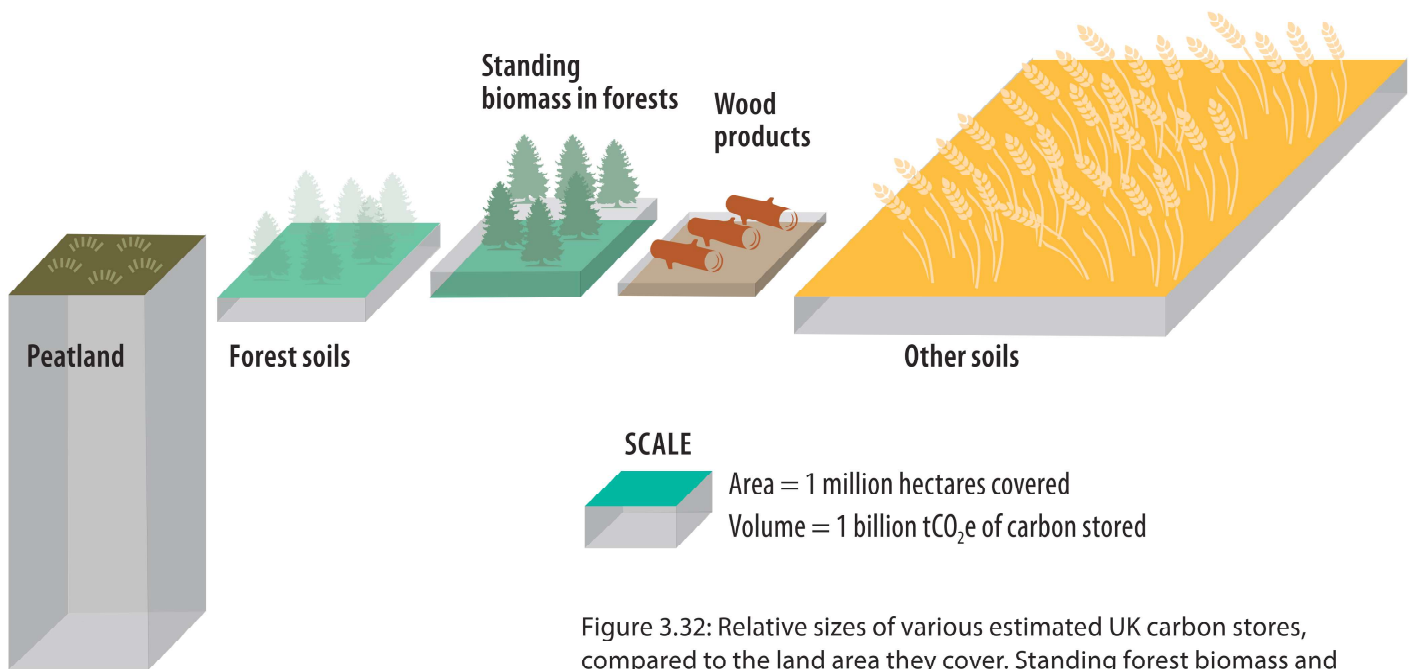


Figure 3.32: Relative sizes of various estimated UK carbon stores, compared to the land area they cover. Standing forest biomass and wood products show the carbon store above the ground level.

Top options for reducing your carbon footprint

Average reduction per person per year in tonnes of CO2 equivalent



Live car-free
2.04



Refurbishment
/renovation
0.895



Battery electric car
1.95



Vegan diet
0.8



One less long-haul
flight per year
1.68



Heat pump
0.795



Renewable energy
1.6



Improved cooking
equipment
0.65



Public transport
0.98



Renewable-based
heating
0.64

Source: Centre for Research into Energy Demand Solutions

BBC