

Tool	Farm Carbon Calculator Farm Carbon Cutting Toolkit	Cool Farm Tool Cool Farm Alliance	AgRE Calc Agricultural Resource Efficiency Calculator	Solagro (JRC) Carbon Calculator
Who designed it?	The FCCT was created and continues to be managed by farmers through a not-for-profit organisation funded by the Esmee Fairbairn Foundation.	The CFT was designed and developed by the Antithesis Group, originated from work undertaken by the Sustainable Food Lab, Unilever, and the University of Aberdeen . It is managed and maintained by the Cool Farm Alliance.	SAC Consulting developed AgRE Calc with Scotland's Rural College (SRUC); the tool was originally designed for farmers in Scotland. Farmers elsewhere in the UK can also use the tool free of charge and the database from which it draws its information is application outside of Scottish agriculture.	Solagro , an agri-environment consultancy based in France, designed the tool for the Joint Research Center of the European Commission . It is designed for use by all farmers in Europe, including the UK.
How do you input your data?	The Data Collection Sheet is an excel spreadsheet into which you can put all the data you will need to complete the Calculator. The Farm Carbon Calculator allows you to input data online though drop-down menus in a webpage and all the information about the farm goes into a single audit.	The Data Inputs Guide includes instructions and tables to collect the information needed for each product on your farm. The Cool Farm Tool operates through an online app which allows you to select options for drop-down menus for separate 'assessments', including carbon auditing for crops and livestock.	AgRE Calc does not currently offer a printable data collection sheet prior to data entry, but PDF versions are due for release shortly. Once logged in, select ' Farm Report Data Entry ' from the left-hand menu and choose the enterprises relevant to your farm business. At the bottom of the page you will find buttons for 'Land and Crops', 'Livestock' and 'Energy & Waste', through which you can enter your data by clicking through the various tabs.	The tool is an Excel workbook which users download and input their data in separate livestock, crop and 'other inputs' (energy use and generation, buildings and machinery etc) sections, which open as new windows when selected. Most of the tool uses drop-down menus and the menus are comprehensive.
How are the results presented?	The results are presented as a whole farm summary of emissions and sequestration, with a total CO2e (kg/year) and a % proportion from each source. E.g. Emissions; fuel - 40%, livestock - 30%. Sequestration; soil organic matter - 10%, woodlands/hedges - 25%. These results are also given as a graph to illustrate the balance between emissions and sequestration. The tool does not give advice or suggest management changes (e.g. reduced inputs), but guidance on a range of emissions-reduction and sequestration options can be found on the FCCT website	The results for each product are provided as total GHG emissions, emissions per hectare and emissions per tonne. - the tool does not give a whole-farm carbon footprint as part of the basic account. 'Aggregation' of assessments, in which results from different crops or livestock assessments are combined to give group- or whole-farm assessments, is a 'member-only feature'. If you are using CFT to meet a carbon auditing requirement in your supply chain, it is likely that the organisation that requires this is part of a Cool Farm Alliance and can provide you with a 'share code' to access these aggregated results. 'Key performance indicators' of N and P use efficiency, carbon sequestration and energy use are given within the results and assessment results can be compared between years, if you complete annual audits. The tool does not give advice or suggest management changes (e.g. reduced inputs) but users can view the modelled impact of changes by changing data in their assessments and viewing the results, e.g. total GHG emissions for a product may go down if carbon is sequestered through tree planting or renewable energy use, or up if more fertiliser or pesticides are used.	The results section of this tool is very comprehensive. A summary of emissions from carbon dioxide, methane and nitrous oxide for the whole farm and per enterprise is shown in the results section. Total emissions are also expressed per unit of output, per hectare and per livestock unit equivalent. The results section also allows you to compare results from multiple years, when you have a record history, for whole farm results and per enterprise. Users can 'Copy Scenario' to make a duplicate of their audit and change data (feed regime, inputs, sequestration etc) to see the impact of changes on their results. The tool generates a report which offers a list of 'mitigation areas' and potential actions to reduce the farm carbon footprint.	The 'results' section gives you a whole-farm result and a result for each product , each of which it compares to the global minimum, average and maximum. It also gives you a break-down of GHG emissions across the farm for each type of GHG (CO2, CH4, N2O and HFC), changes in soil carbon and the top 10 suggested mitigation actions (e.g. agroforestry) with details of the impact they would have on the carbon footprint if adopted and the financial costs/gains (if you have included the optional financial data input in the audit).
Other useful information	There is a useful 10-minute 'how to' video guide for the Farm Carbon Calculator , which is worth watching before you start to use the tool.	Alongside an easy-to-use online app format, the CFT has a YouTube channel with useful demo videos.		The webpage may initially load in French; this is nothing to worry about. Your browser will translate it automatically and the tool and user guide are in English.