



Farm Carbon Calculator

What's new?

Version 5.0 is a brand new version of the Farm Carbon Calculator, marking a major step forward for this very popular carbon calculator. It is aimed at all farmers and growers in the UK, on various scales and any type of product.

Run by Farm Carbon Toolkit, the tool is still free to the user, comprehensive and user-friendly. It is getting more popular by the week as the interest in carbon and farming grows exponentially.

We are proud to be an organisation for farmers, run by farmers.

Layout and user experience

The biggest change is how data is entered and results shown. The experience is more fluid, user friendly, and allows it to be used as a decision-making tool. In particular:

- Data entry is more logical and the layout more concise
- The processing speed of the Calculator is much faster
- Live results are now shown in the data entry phase – this allows it to be used as a decision making tool
- As many Carbon Reports can be completed as you like. This can be useful if you have more than one farm, different units of land, or want to do a report on behalf of someone else. You can also create hypothetical reports to look at different scenarios, using it as a decision-making tool – for example the impact of planting more woodland, switching to electric vehicles, reducing livestock numbers...the list is endless!

Results

- Results are shown in a clearer way, but with the same level of detail. There is more of a focus on the carbon balance.
- Inclusion of 'farm details' allows you to store useful information about the farm and compare results in total, per hectare and per tonne of product sold

- Results can be downloaded as a PDF to print and JPEG to download – to share on websites, social media or in documents/reports.
- You can share results with another user, for example two farms wanting to compare results and learn from each other. This can be done through your Carbon Reports page.
- Compare results year on year so that you can see trends in your carbon footprint
- Confidence factors related to the results indicating the robustness of the results

Emissions factors

New for version 5.0:

- Brand new emissions/sequestration factors for over 75% of data input categories
- Fencing calculations – per 100m of fencing, different types
- Contractors – emissions per specific operation
- Vehicles – inclusion of electric and hybrid vehicles (mileage)
- Hotel stays – to more accurately calculate any business travel
- Roof sheets – to help complete agricultural buildings
- Rockwool – for hydroponic systems
- Buildings calculator – automatically work out the footprint of standard agricultural buildings, by floor area
- Manure – bought in
- AD plants – running a plant
- AD digestate – bought in
- Fertilisers – more complete list, including blends and custom blend
- Livestock – enhanced list and the opportunity to input your own production characteristics to personalise the report
- Livestock feed – much improved list, including blended feeds
- Livestock methane emissions – inclusion of the new GWP* methodology to calculate comparison between GWP100 and GWP* methods
- Waste – more complete list, better emissions factors, composting and AD options included
- Sequestration – new hedgerow research, more perennial crops

- Peat soils – more accurate figures
- Soil Organic Matter – better design and ability to save historical data
- Land use change – major negative land use changes (e.g. woodland to pasture) are included for the first time

On top of all this, over 75% of the emissions and sequestration factors have been updated, reflecting the most recent research and methodologies.

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We received a Grant from the Agritech Cornwall Innovation Scheme, part of the ERDF's European Structural and Investment Funds Growth Programme 2014-2020 which part funded costs towards specialist research and development of the data and resources for the new Carbon Calculator. This data has now been developed into an online tool (the calculator) which has enabled us to expand our business offering as well as provide new innovation to boost the agricultural technology sector in Cornwall and further afield.



https://ec.europa.eu/regional_policy/en/funding/erdf/