

Table 1. Comparison of four popular carbon calculators (Last updated April 2024)

Company	Agrecalc	Cool farm alliance	Farm carbon toolkit	Trinity Agtech
Tool	Agrecalc	Cool farm tool	Farm carbon calculator	Sandy
Website	agrecalc.com/	coolfarm.org/	calculator.farmcarbontoolkit.org.uk/	trinityagtech.com/
Audience - farmer or supply chain	Farmer & supply chain	Farmer & supply chain	Farmer & supply chain	Farmer & supply chain
Cost	Free for individual farmers, at their basic tier. Additional features such as comparisons available in paid tiers.	Free for individual farmers for non-commercial use	Free for individual farmers non-commercial use.	Annual licence fee from £618
Sectors covered	All AHDB sectors covered, plus potatoes, poultry, some horticulture, and others.	All AHDB sectors covered*, plus potatoes, poultry, some horticulture, and others. *CFT have advised against using their module for non-cattle livestock until v3.0 is released (est Q4 2024)	All AHDB sectors covered, plus potatoes, poultry, some horticulture, and others.	All AHDB sectors covered, plus potatoes, horticulture, poultry, other livestock, permanent grassland, peat, and others
Level of footprint	Whole farm, enterprise and product	Product only	Whole farm, can be broken down to products	Whole farm, enterprise, field, crop, and variety level
Data input	Online, input by farmer. Option to use	Online, input by farmer. Option to use	Online, input by farmer. Option to use consultants or	Online, input by farmer. API links to Farm Management Software systems.

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	consultants or data collection business. Printable data collection sheets available.	consultants or data collection business.	data collection business. Excel spreadsheet for bringing data together is available. Company offer training services for a cost.	Option to use consultants. Online coaching and 'onboarding support' provided, amount dependent on package bought
Ease of input	Detailed information required, but still reported as easy to use - if data is available. Update to Agrecalc Cloud includes improved user interface.	Reportedly easy to use. Advanced packages allow connection to other apps to transfer data.	Reportedly easy to use, with real time visuals	Easy data input. Data can be added directly, via Excel templates, or link to Gatekeeper and Muddy Boots software.
Benchmark comparisons available	"General industry benchmarks" available in free version. Group and more detailed industry benchmarking available in paid tiers	Not currently, but was scheduled for spring 2024	Basic benchmarks against national averages, with test version of more detailed benchmarking available to all since 31/10/23	"Scientific Benchmarking" functionality compares farm's current vs possible best practice. Central reporting allows group benchmarking.
Carbon sequestration options	Yes - soil, woodland, hedgerows and biochar (tier 1)	Yes for crop footprints - trees, land use change and soil (via management practices) (tier 1)	Yes - soil, land use/management & biomass (woodland, hedgerows, perennials) (tier 1)	Yes - Soil by type/use, woodland, hedgerows, agroforestry, biochar and perennial crops (Mostly tier 2-3 & the Woodland Carbon Code)
Standards & methodologies	IPCC methodology: "Mostly tier 2"	IPCC methodology: Mix of tier 1 and tier 2	IPCC methodology: Tiers 1 and 2 Alignment to standards: not	IPCC methodology: Tier 2, with tier 3 where improved accuracy is available

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	<p>Alignment to standards: Version 1 aligns to PAS 2050:2011; Agrecalc Cloud is preparing for ISO 14064 & 14067 certification, and aims to align to GHG protocol and SBTi FLAG during 2024.</p>	<p>Alignment to standards: not certified, “seeks to be aligned with various standards and protocols”</p>	<p>certified, is “actively considering alignment with international standards such as ISO 14064 and the GHG Protocol, as well as land-sector based guidance from FLAG.”</p>	<p>and tier 1 where tier 2's not seen to add to accuracy.</p> <p>Alignment to standards: Certified for ISO 14067 & 14064:2. Aligned to a range of other standards including SBTi FLAG, GHG Product Life Cycle Accounting and Reporting Standard, GHG Protocol Land Sector and Removals Guidance, BSI Natural Capital Accounting standard BS 8632:2021, and others</p>
Greenhouse gas metric used	GWP100, future releases to include GWP*	GWP100	GWP100, Option to discuss GWP* in a consultation. intention is to show both global warming potential (GWP) and GWP* in the future	GWP100 and GWP*
Frequency of updates (information as of Jan 2024)	A few updates and improvements each year with a large upgrade (Agrecalc Cloud) released in July 2023 to paid users and those in government support schemes	Small bug fixes and improvements are continual, with large-scale updates every 1-2 years (CFT 2.0 launched in April 2023, CFT 3.0 is currently estimated for Q4 2024)	Aim to update at least twice a year. Last big updates were September 2023 and April 2024	Monthly updates

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Other areas assessed	-	Food waste, water use, and biodiversity at whole-farm level	Options to include emissions from construction of inventory e.g. farm buildings and machinery. Also has options for some processing from wineries and packhouses.	Biodiversity, water protection, agroforestry, soil erosion, natural capital valuation accounts. Assessment can include AD plant, biochar, soilless controlled environment, buildings, transport, and packhouse.