

GFM data checklist

There are 12 categories for you to answer questions in, with a short opening and closing survey. Some questions you will know off the top of your head, some you will need to check farm records for and a few will require active field tests. The cells below are colour coded according to how much effort it takes to collect the information needed to answer the questions. They are:

- Green – easy practice-based questions, these you are likely to be able to answer off the top of your head
- Blue – some desk work or reference to farm records
- Amber – active field work, where we ask for basic observations and sampling

Once you have answered all of the questions, you will instantly receive your GFM results. Your answers will then be shared with Agrecalc who will calculate your carbon emissions. This will be shared with you via email.

Initial info

Subcategory	Questions to answer	Notes on information to collect
Opening survey	Your thoughts on your farms sustainability.	Your opinion
Farm information	Basic information — including location, soil type, rainfall, altitude and mode of farming.	Some desk work needed (rainfall and altitude)
Cropped and non-cropped land	Area of environmental features, non-cropped and cropped land. Yield (marketable vs sold) for crops, pasture and forage.	Some desk work needed (area and yield)
Livestock	Number held, brought on and sent off farm for livestock and livestock products.	Some desk work needed (number held, imported and exported)
Farm woodland and agroforestry	Area of conifer, broadleaved and mixed woodland of different ages. Hedgerow length and width. Yield of wood products used and/or sold.	Some desk work needed (area and yield)
Land-use summary	No questions are asked. A summary of your land use based on your previous answers is provided.	No additional information needed
Seeds and feeds	Quantity brought on and sold/sent off farm.	Some desk work needed (quantity imported and exported)
Organic and inorganic fertiliser	Quantity brought on and sold/sent off farm.	Some desk work needed (quantity imported and exported)

Economics

Subcategory	Questions to answer	Notes on information to collect
Finances	Total income for crops, livestock and livestock products, plus income from other sources (subsidies, grants etc)	Some desk work needed (income)
Costs	Costs associated with livestock, crops and other enterprises. Option to aggregate or breakdown according to enterprise type. Costs requested include: marketing/processing, feed, forage, vet med, bedding, transport, seed, fertiliser, pesticides, fuel, maintenance, land-rent, labour, capital/infrastructure, depreciation, assets	Some desk work needed (costs)
Resilience	Practice based questions reflecting on your economic resilience	Practice-based questions
Physical output	No questions are asked. A breakdown of your production as energy (MegaJoules) is provided based on your previous answers	No additional information needed

Soil

Subcategory	Questions to answer	Notes on information to collect
Soil organic matter	SOM samples for 3 fields	Field work (collect and send soil sample)
Structure	Visual evaluation of soil structure and a series of practice based questions	Field work and practice-based questions (soil sample)
Soil biodiversity	Earthworm count in soil samples	Field work (soil sample)

Water

Subcategory	Questions to answer	Notes on information to collect
Source	Percentage of water from mains, abstracted, stored and recycled sources	Some desk work needed (water source)
Quality	Practice-based questions on irrigation (if used) and land-management	Practice-based questions
Water Biodiversity	Observation of species found in waterbodies on farm	Field work (water sample)

Air and Climate

Subcategory	Questions to answer	Notes on information to collect
GHG emission estimates	No questions are asked. The greenhouse gas emissions of your crop, livestock and livestock products are estimated based on your answers to previous questions.	No additional information needed
Carbon sequestration	Results of previous greenhouse gas assessments if available	Some desk work needed (previous GHG results)

Agricultural Inputs

Subcategory	Questions to answer	Notes on information to collect
Energy sources and usage	Type and amount of fuel used per enterprise for farm and contractors. This information is then automatically summarised and compared to benchmarks.	Some desk work needed (fuel use)
Renewable energy	Percentage energy from renewable sources	Some desk work needed (renewable energy use)
Material recycling, re-use and reduction	Questions on waste management	Practice-based questions

Nutrients

Subcategory	Questions to answer	Notes on information to collect
Nutrient balance	This category does not require you to answer any questions. Your answers from previous categories will automatically populate tables to show your nutrient balance.	No additional information needed

Livestock

Subcategory	Questions to answer	Notes on information to collect
Management practices	Questions on how you manage your livestock	Practice-based questions
Health & welfare	Practice-based questions and observation of livestock behaviours. Benchmark vet and med costs and the ratio feed used in livestock production to human-edible animal product produced (MJ) are automatically calculated.	Practice-based questions

Crops and Pasture

Subcategory	Questions to answer	Notes on information to collect
Rotation practices	Questions on how your rotation	Practice-based questions
Pest and disease control	Average number of spray rounds used on each crop	Some desk work needed (number of spray rounds)

Biodiversity

Subcategory	Questions to answer	Notes on information to collect
Agricultural	Number of species and varieties of crops and breeds of livestock	Some desk work needed (species, varieties, breeds of livestock)
Natural	Bird species identified on farm	Field work (bird observation)
Practices	A series of questions on management practices related to nature and biodiversity	Practice-based questions

Community and Governance

Subcategory	Questions to answer	Notes on information to collect
Local engagement	Local sale of produce, hiring practice and access to public	Practice-based questions
Diversified activities	Events and opportunities held on your farm	Practice-based questions
Governance	Legal structure, participation in and approach to decision making	Practice-based questions

Farmers and Workers

Subcategory	Questions to answer	Notes on information to collect
Employment	Number of staff and hours worked. Automatically compared to benchmark.	Some desk work needed (number of staff and hours)
Health and Wellbeing	Questions on your experience of farm life and practices associated with health and wellbeing	Practice-based questions
Training and capacity building	Number of training days	Some desk work needed (number of training days)