



About the On-Farm Emissions Calculator & your emissions results

This guide explains what the Calculator does, what your results mean, and how to use them confidently to support reporting, funding, and market access.

What the Calculator does

The Calculator estimates your farm's **biogenic greenhouse gas emissions**, specifically methane (CH₄) and nitrous oxide (N₂O), based on the livestock, fertiliser, feed, and (if applicable) milk production data you provide.

It uses **IPCC AR5 Global Warming Potentials**, consistent with New Zealand's national inventory, and follows the [Farm Emissions Method \(FEM\)](#) developed by MPI. You can learn more about how it works [here](#).

What your results include

Your results are broken down into:

- **Methane (CH₄)** from digestion and manure
- **Nitrous Oxide (N₂O)** from dung, urine, and nitrogen fertiliser
- **CO₂e total:** the combined emissions expressed in tonnes of carbon dioxide equivalent
- **Direct CO₂** from nitrogen-containing fertilisers (included in the CO₂e total)

Note: Results do not include emissions from fuel, electricity, or fertiliser production, and do not account for carbon sequestration.

What inputs are used

The Calculator uses the data you enter, including:

- Livestock numbers and movements
- Fertiliser type, coating, nitrogen content, and quantity purchased
- Supplementary feed type and allocation
- Milk production (if applicable)
- Farm class and location

These inputs are included in all output formats for transparency and traceability.

Optional naming

- In the **anonymous experience**, you can choose to provide a farm name. This will appear in the report header and outputs.
- When **logged in**, you can also assign a name to the report itself: helpful for versioning and internal tracking from your dashboard.

How to use your results

Your results can help you:

- Understand your farm's contribution to biogenic emissions
- Identify key emission sources (e.g. digestion, fertiliser, milk production)
- Support mitigation planning (e.g. feed changes, fertiliser adjustments)
- Communicate clearly with processors, supply chain partners, and stakeholders
- Demonstrate readiness for **market access** and **funding opportunities** that require emissions reporting

Sharing your results

You can export your results in three formats, depending on how you plan to use them. Each format includes the full set of inputs used in the calculation, so your results are always traceable and ready to share.

Format	Best for...
Printed Output	On-farm meetings, processor audits, or physical record-keeping
PDF	Governance papers, funding applications, or stakeholder updates
CSV	Formatting data, combining multiple reports for analysis, or uploading to farm management systems

All formats include the details you supplied for the calculation, including livestock, fertiliser, feed, and (if applicable) milk production.

Who can see your data

We care about your privacy and want you to feel confident using the Calculator. Who can see your data depends on how you're using it:

- **If you're not logged in (using it anonymously):** Your data is saved in your browser to make things quicker and easier. This means you can come back later,

keep working, and export your results without starting over. You can give your farm a name if you like, but nothing is linked to you personally. Your data stays on your device and isn't sent anywhere. If you want to remove it, you'll need to clear it from your browser settings.

- **If you're logged in:** Your reports are saved to your account and also downloaded to your browser to help the Calculator run smoothly. You can name each report to help keep track. Only you, or someone with access to your account, can see or manage these reports. When you log out, any data stored in your browser is automatically cleared. You can also delete reports or remove your account whenever you like.
- **If you contact support:** Sometimes, support teams may look at general, anonymous data to help fix problems or improve the Calculator. They won't see anything that identifies you or your farm unless you've given permission.

For more detail, you can read the [Privacy Statement](#) and [Terms of Use](#). These explain how your data is stored, protected, and used.

If you're using your results for funding, certification, or processor programmes, we recommend downloading and saving your reports somewhere safe. You're in control of who sees your information, whether they're stored in your browser or your account.

Things to keep in mind

- The Calculator does not validate your inputs. Accuracy depends on the data you provide
- A standard reporting year is 365 days. If you copy a report but change the reporting period, you may see slight changes to the emissions, especially if your new period includes a leap year (366 days)
- It does not include lifecycle emissions or sequestration
- Results are for general information only and do not replace professional advice
- You're responsible for ensuring your data is correct and current
- Use of the Calculator is subject to the applicable [Terms of Use](#) and [Privacy Statement](#)

If you're preparing materials for funding applications, processor programs, or internal reporting, we recommend using the PDF format. For technical users or system integration, the CSV is ideal. And if you're discussing results in person, a printed copy keeps things simple.

