

AgNav Farmer User Manual

Tillage

AgNav is a decision-support tool intended to support sustainability assessment and farm management. Outputs are based on available data, assumptions, and modelling methodologies and should be considered indicative only. Users remain responsible for all management, regulatory and business decisions. A full disclaimer is provided at the end of this user manual, in section 8.

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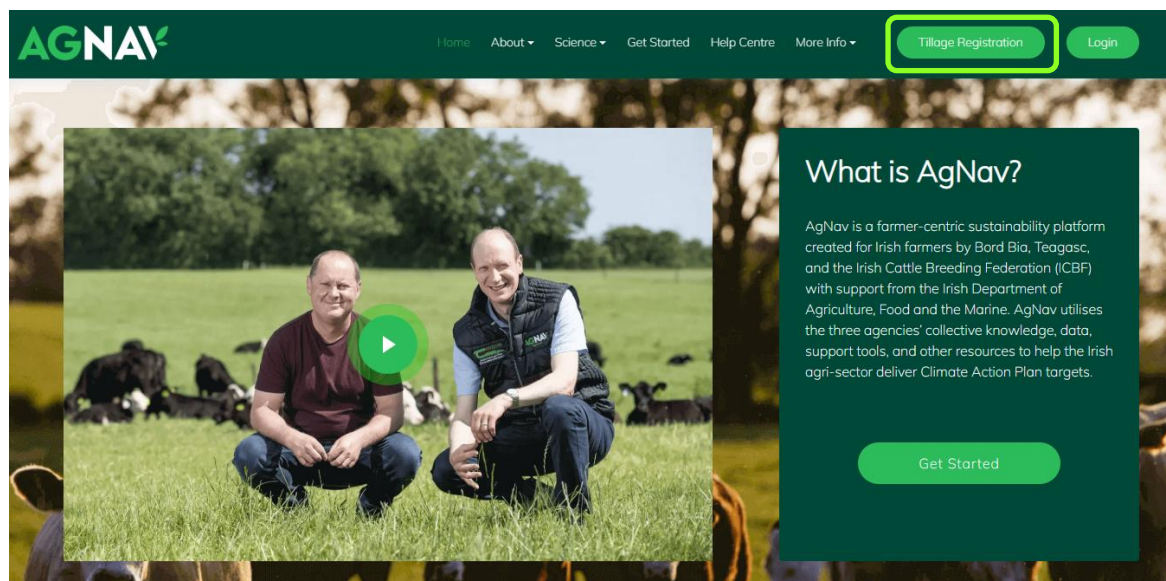
AgNav is developed and delivered through a partnership between Teagasc, the Irish Cattle Breeding Federation (ICBF) and Bord Bia, with support from the Department of Agriculture, Food and the Marine.

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1. Registering for AgNav Tillage

To register for AgNav Tillage, click the 'Tillage Registration' button at the top righthand side of the home page (www.agnav.ie). You will need to register for AgNav Tillage even if you have a pre-existing AgNav account.



This will bring you to the AgNav Tillage Farmer Registration screen. There are four registration steps.

Step 1: Enter User Details

In the appropriate boxes, enter your personal details, including your name, address, herd number, email address, and phone number.

NOTE:

If you have already signed up to AgNav (dairy and beef), **please use the same email address**. This will allow your accounts to merge, so that you will have access to AgNav dairy, beef, and tillage from the same home screen. If you use a different email when signing up for AgNav Tillage, you will have two separate accounts: one for dairy and beef and one for tillage.

In this step, you will also need to agree to AgNav's Terms and Conditions. You can also optionally select whether or not you would like to be contacted about joining Teagasc's free Signpost Advisory Programme (SAP). You will also be provided with the link if you would like to sign up for SAP yourself.

The screenshot shows the AgNav registration form. At the top, there is a header with the AgNav logo and navigation links for Home, About, and a Login button. The main content area is divided into two sections. The first section, titled 'By completing and submitting the application you:', contains two bullet points: 'i. authorise and agree to ICBF, Bord Bia and Teagasc having access to and sharing the Farm Data identified above (including the relevant Personal Data) and any other data that may be required for the purpose of operating AgNav;' and 'ii. confirm that you have read and understood and agree to comply with and be bound by the terms and conditions of AgNav [AgNav Terms & Conditions](#);' Below these points is a checkbox labeled 'I accept the Terms and Conditions' which is checked. The second section, titled 'Teagasc Signpost Advisory Programme', provides information about the programme and a link to register: <https://www.teagasc.ie/environment/climate-change--air-quality/signpost-programme/signpost-advisory-programme/sign-up/>. Below this is a section titled 'OR' and a checkbox labeled 'I agree' which is checked. At the bottom, there is a 'Please verify you are human' section with a CAPTCHA image showing the text 'zv67n' and a text input field containing 'zv67n'. A 'Submit' button is at the bottom right.

Step 2: Select Certification Body

Here you will need to nominate a certification body from the provided list.

The screenshot shows the AgNav registration form at the 'Select Certification Body' step. The header is the same as the previous screenshot. Below the header, there is a section titled 'AgNav Tillage Farmer Registration' with the subtitle 'Create your own AgNav account'. Below this is a progress bar with four steps: 'Step 1 User Details', 'Step 2 Certification Body', 'Step 3 Membership Identifier', and 'Step 4 Code'. The progress bar shows that Step 2 is the current step, and the overall progress is 25%. Below the progress bar is a section titled 'Select A Nominated Certification Body' with a text input field labeled 'Select Certification Body' and a 'Submit' button.

Step 3: Enter your Audit Number

Here you will need to enter your auditing number and agree for AgNav to share your auditing number to verify your membership.

Step 4: Verify your Audit Number

A 6-digit verification code will be sent to the phone number associated with your certification body. Please enter the 6-digit you receive into the box and press submit.

After your phone number has been verified, you have officially registered your account.

Next Steps

If you are new to AgNav, you will receive an email to create a password for your account.

If you already have an AgNav account, you will not receive an email to reset your password; instead, you will be prompted to log into AgNav using your preexisting credentials.

2. Logging in to AgNav

Log in to AgNav from the main website page (www.agnav.ie) by clicking the log in button on the top righthand side of the screen, which will bring you to the log in page (www.agnav.ie/login).

To log in for AgNav Tillage, enter your email or herd number and your password.

If you have forgotten your password, click 'Forgot Password' and follow the instructions to create a new password (see section below for more details).

Resetting your password

If you have forgotten your password or want to reset your password, click 'Forgot Password' and follow the instructions to create a new password.

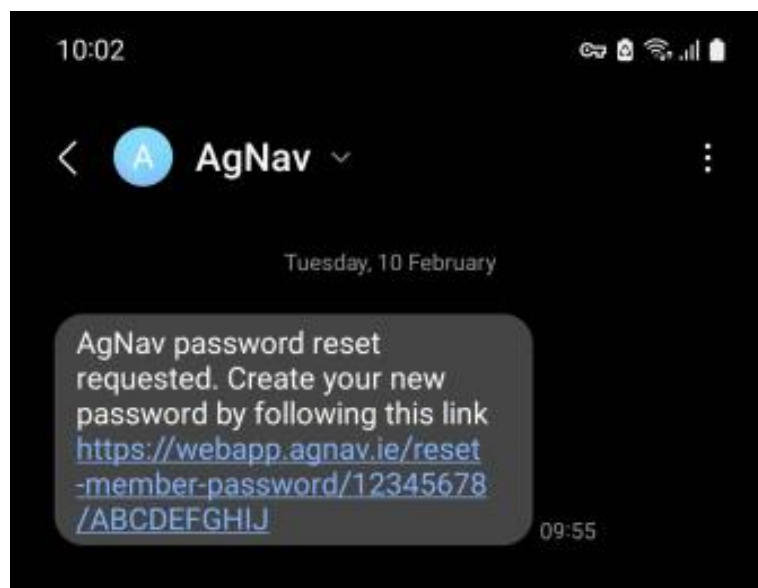
From this screen, you can choose to reset your password in two different ways: through your email or through an SMS text message. If you want to reset your password through your email, enter your email in the box below and click 'Submit'. If you would like to receive a text message to reset your password, click 'Use SMS instead'.

***Please note, AgNav users with @eircom.net emails have reported issues with receiving emails from AgNav. In this case, please opt to use the SMS text password reset method. ***

To reset your password via SMS text message, please enter your mobile number into the designated box in the depicted format, enter your herd number or IGAS number, and then click submit. If you registered for AgNav tillage without a herd number, you will need to use your IGAS number.

The mobile number and herd number/IGAS number you provide must match the mobile number and herd number/IGAS number that ICBF have on record (at the time that you first logging into or registered for AgNav). If they do not match, you will not receive the SMS text message to reset your password.

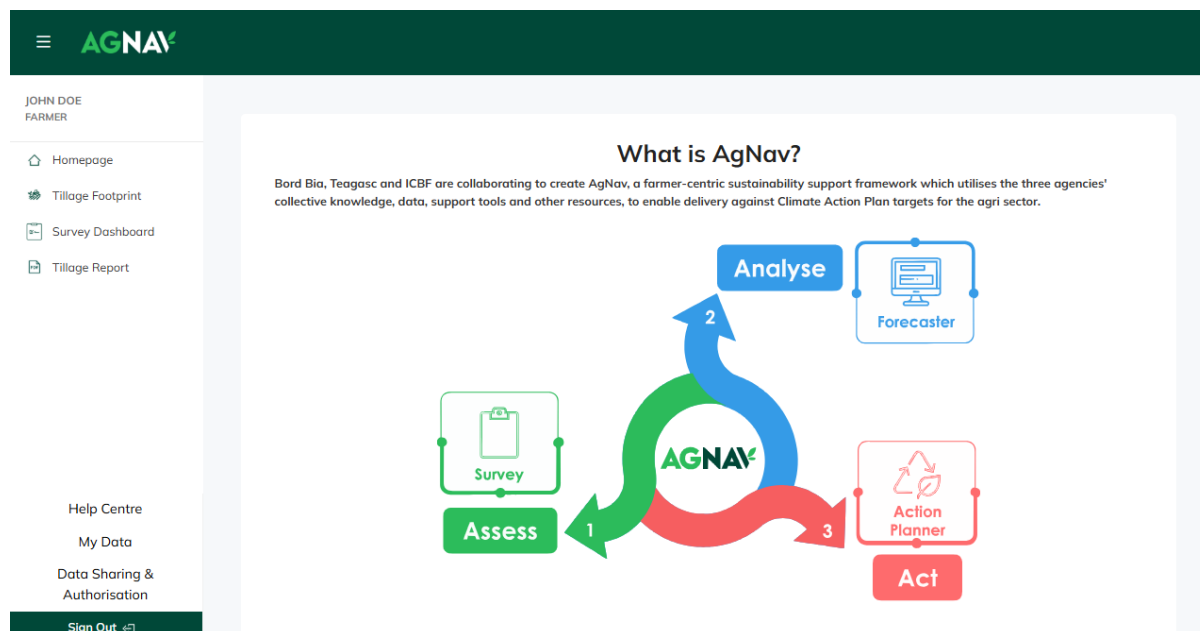
If your mobile number matches the one registered with your herd number in ICBF, you will receive a SMS text message with a link to reset your password. Click the link, and follow the steps to reset your password.



3. Navigating AgNav

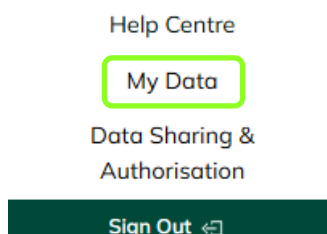
Homepage

The homepage is the first page that you are directed to after logging into AgNav. It contains links to the Survey Dashboard, Tillage Footprint, and Tillage Report, as well as general information about AgNav.



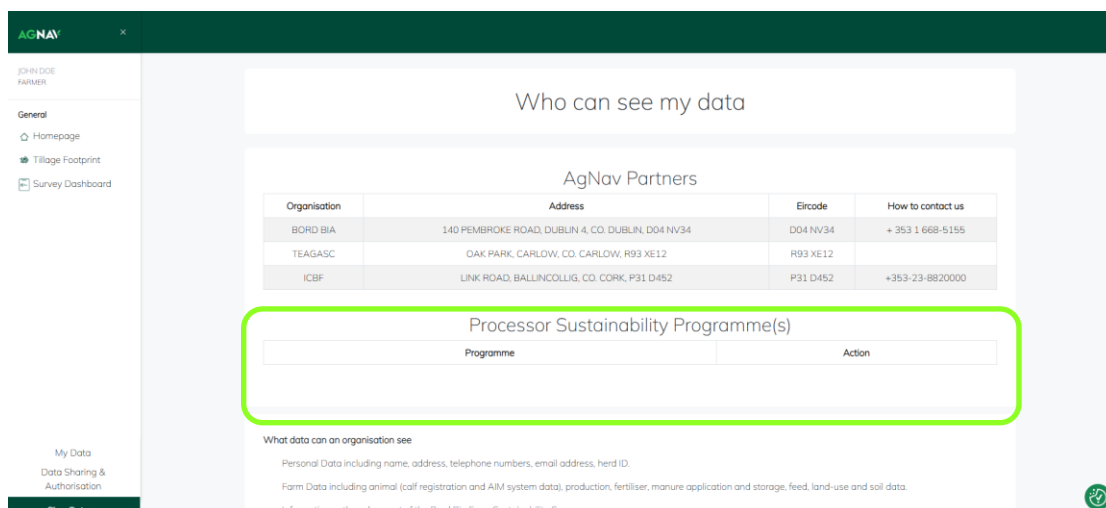
My Data

Selecting this button takes you to a page detailing who has access your data, such as the AgNav partners (Bord Bia, Teagasc, and ICBF) and any processors (if you are participating in a processor sustainability programme).



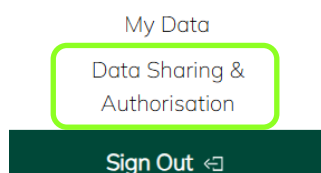
Revoking Data Access

On the 'My Data' page, you can revoke data access to processor sustainability programmes that you are a part of. If you are a member of any scheme, in the highlighted green box below you will be able to see the name of the scheme and a red 'Revoke' button in the action column. Press 'Revoke' if you would like to revoke that scheme's access to your data and leave the scheme.



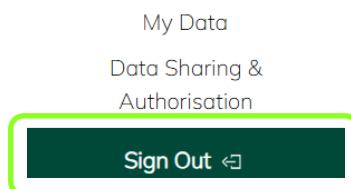
Data Sharing & Authorisation

Selecting this button will open a pop-up window containing information on AgNav's data sharing and authorisation policies. This includes how AgNav uses your data, which data AgNav uses, and how your data is stored.



Signing Out

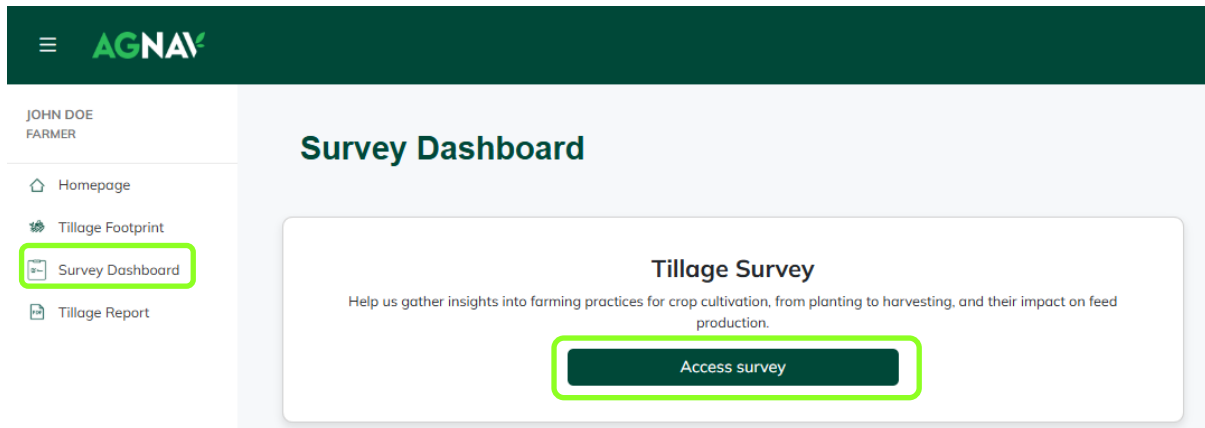
To sign out of AgNav, click the 'Sign Out' button on the lower lefthand side of the screen.



4. Accessing and Completing your Tillage Survey

Access the Tillage Survey

The Tillage Survey can be accessed from the Homepage by clicking the menu option on the lefthand side of the screen. This will take you to the Survey Dashboard. From here, click 'Access Survey'.



Completing your Tillage Survey

Before you begin, please note that there is no auto-save function on the Tillage Survey; any data you enter will not be saved until you click 'Complete'.

Step 1: Select Harvest Year

To start the survey, please select your desired production year and then press 'Next'. You have the option of entering historical data back to 2018.

Step 2: Enter data for each crop type

After clicking 'Next', you will be brought to the main data input page. On this page, you can input up to 10 different crop types.

For each crop type, you will need to enter information about your crop, straw incorporation and cover crops, soil information, crop production and protection, and gross output. Navigate through the survey using the dropdown menus and text boxes to fill in your farm's information.

Season: | Crop Type: | Area Id:

Area Id

Enter Your Area Id

> Crop Information

> Straw and Cover Crops

> Soil Information

> Crop Production & Protection

> Gross Output

Once you have finished inputting a crop type, you can add another crop type by clicking 'Add Another Crop'. You can also easily remove a crop type by clicking 'Remove Crop'.

The screenshot shows a user interface for managing crops. At the top, there is a horizontal bar with a 'Remove Crop' button on the right. Below this, there is a large rectangular area with an 'Add Another Crop' button at the bottom left.

Once you have finished entering all the required information for all desired crops, click 'Complete' at the bottom of the screen. All survey data, except for crop yield, must be completed before you are able to save the survey. This is to facilitate farmers who want to complete the survey before harvesting; however, if you do not fill out a crop's yield, its carbon footprint will not be calculated. In addition, the Tillage Survey does not have an auto-save feature; try to gather all of the necessary data before you begin entering your data.

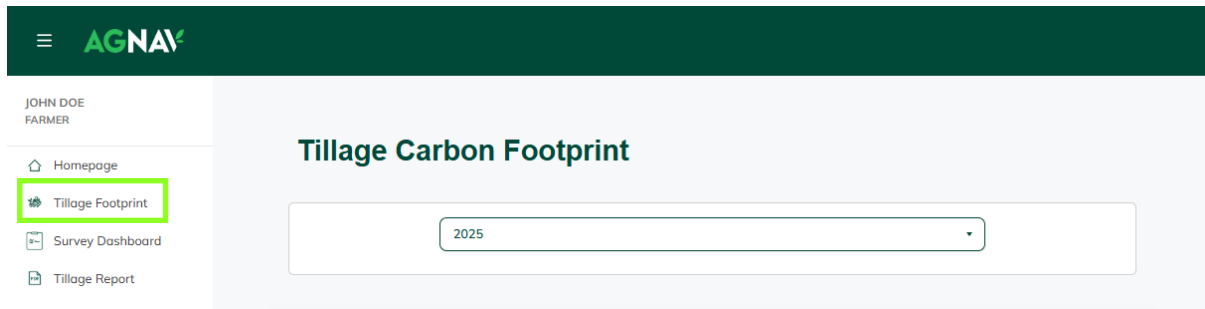
Note: AgNav automatically logs out users after 2 h of inactivity.

The screenshot shows a bottom navigation bar with three buttons: 'Previous', 'Complete', and 'Cancel'. The 'Complete' button is highlighted with a green border.

After you click 'Complete', you will then be taken to view your results on the Tillage Carbon Footprint page.

5. Viewing your Tillage Footprint

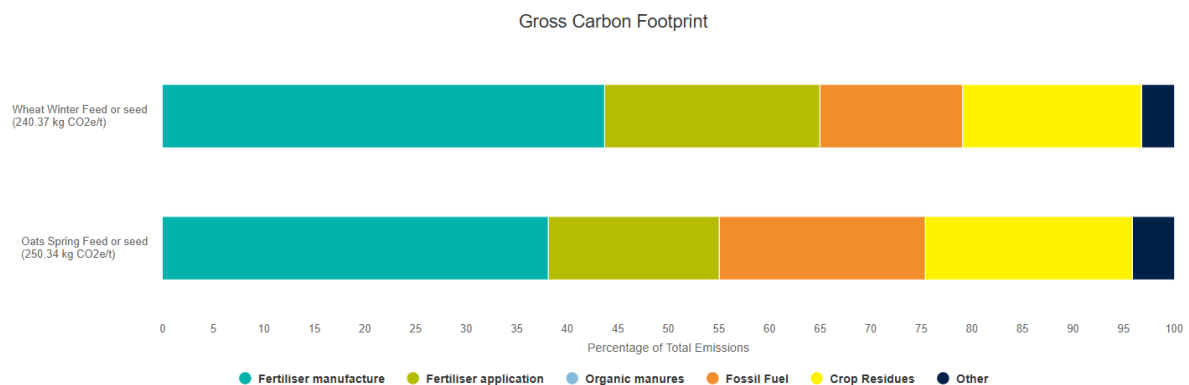
To navigate to your Tillage Footprint, click the menu button on the lefthand side of the screen. This will bring you to the Tillage – Carbon Footprint screen.



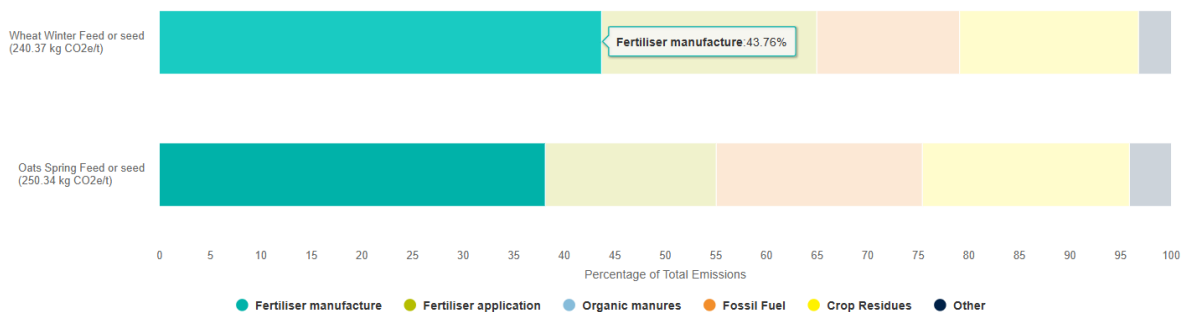
The first section shows you the Gross Carbon Footprint (kg CO₂ equivalent/tonne) and Net Carbon Footprint (kg CO₂ equivalent) for each crop that you entered in the survey.

Crop Type	Area ID	Gross Carbon Footprint (kg CO ₂ e/t)	Net Carbon Footprint (kg CO ₂ e/t)
Wheat Winter Feed or seed	Field 1	240.37	33.07
Oats Spring Feed or seed	Field 2	250.34	-12.09

The Emissions Breakdown shows you how much each of the inputs (fertiliser manufacture, fertiliser application, organic manure, fossil fuel, crop residues, and other) are contributing to your Gross Carbon Footprint as a percentage. The Gross Carbon Footprint for each crop is also shown on the lefthand side of the bar chart.



You can view the percentage that each input is contributing by hovering your mouse over that section of the bar chart.

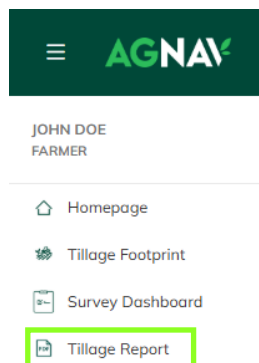


6. Carbon Footprint Report

The AgNav Sustainability Report is an automatically generated report containing a cover letter and a report detailing your current carbon footprint by crop type. Historical carbon footprints by crop type are also included in the report, if present on AgNav.

Downloading the Report

To download your AgNav Sustainability Report on AgNav, click the 'Sustainability Report' button on the left side menu. This will start the download of the PDF version of your report.



Understanding your Sustainability Report

Cover Letter

Your AgNav Tillage Sustainability Report will only start with a cover letter if it was downloaded for you by your Teagasc advisor; if you download your Report yourself, you will not receive a cover letter.

Current Carbon Footprint by Crop Type

The first section of the AgNav Tillage Sustainability Report contains two tables providing information on your crop's carbon footprints.

Crop Type	Area ID	Crop Area (ha)	Crop Yield (t/ha)	Gross Carbon Footprint ¹ (kgCO ₂ e/t)	Net Carbon Footprint ² (kgCO ₂ e/t)	GLFI Irish Average Carbon Footprint ³ (kgCO ₂ e/t)
Winter Barley Feed or seed		1	9.50	165.21	11.16	375
Spring Beans		1	5	153.56	153.56	392

The first table (example above) presents your gross and net carbon footprints on a per tonne basis for the most recent production year, based on your survey inputs. For each crop type, the Global Feed LCA Institute (GLFI) Irish average carbon footprint (kg CO₂ eq./tonne) is also given to provide context.

Crop Type	Gross Carbon Footprint (kg CO ₂ e/t)	Contributors to Carbon Footprint (%)					
		Fertiliser manufacture	Fertiliser application	Organic manures	Fossil fuels	Crop residues	Other
Winter Barley Feed or seed	165.21	44	11	0	17	23	5
Spring Beans	153.56	44	0	0	28	15	13

The second table (see example above) presents the main contributors towards each crop type's carbon footprint. The main contributors to each crop's carbon footprint are presented as a percentage of each crop's gross carbon footprint. The main contributors included in the chart are: fertiliser manufacture, fertiliser application, organic manures, fossil fuels, crop residues, and other.

Historical Figures

In this section, the your historical carbon footprints are shown, if available, to help you track changes in your carbon footprints across years and crop types. The GFLI Irish average carbon footprint (kg CO₂ eq./tonne) is also given for each included crop type to provide context.

Year	Crop Type	Area ID	Crop Area (ha)	Crop Yield (t/ha)	Gross Carbon Footprint (kgCO ₂ e/t)	Net Carbon Footprint (kgCO ₂ e/t)	GFLI Irish Average Carbon Footprint (kgCO ₂ e/t)
2024	Spring Barley Malting	Field 1	10	8	183.68	73.94	375
2024	Winter Oats Feed or seed	Field 2	24	6.51	178.00	58.60	328
2024	Winter Barley Feed or seed	winter Barley	18.80	9.50	184.13	7.59	375

Additional Information

At the end of the report, Teagasc's 12 Steps to Reduce Gaseous Emissions on your Tillage Farm are provided through a link or QR code.

7. Need help with AgNav?

AgNav Help Desk

The AgNav Helpdesk is available to support users with account queries, technical issues, and questions about navigating and using the platform.

Phone: (01) 963 6410

Opening hours: Monday to Friday, 9:00 am to 8:00 pm

For advice on farm management, sustainability actions, or understanding your figures, please contact your agricultural advisor or sign up for Teagasc's free Signpost Advisory Programme.

Signpost Advisory Programme

You can sign up for Teagasc's free Signpost Advisory Programme to receive advisory support and advice on farm management, sustainability actions, or understanding your AgNav figures.

For more information on SAP: <https://teagasc.ie/environment/climate-change-air-quality/signpost-programme/signpost-advisory-programme/what-is-the-signpost-advisory-programme/>

To sign up for SAP: <https://teagasc.ie/environment/climate-change-air-quality/signpost-programme/signpost-advisory-programme/sign-up/>

8. Disclaimer

Purpose of this Manual

This manual has been prepared by Teagasc to support the effective and consistent use of the AgNav platform by farmers, advisors, and other authorised users. It forms part of Teagasc's knowledge transfer activities and should only be used to facilitate the use of the AgNav platform.

Purpose of AgNav

AgNav is designed to support sustainability assessment and informed farm management. It is intended to assist users in understanding farm sustainability performance and identifying potential improvement opportunities. AgNav does not replace professional judgement, independent advice, or regulatory guidance.

Data and Model Limitations

AgNav outputs are generated using available datasets, user-provided information, scientific methodologies, and modelling assumptions, current at the time of use. The results represent modelled estimates and may differ from actual farm performance. Methodologies, datasets, assumptions, and calculations may be updated as scientific knowledge, national methodologies, data collection mechanisms, and policy requirements evolve.

User Responsibility

Each User remains responsible for verifying the information entered into AgNav and for interpreting outputs in the context of their own farm circumstances. Farm management, financial, regulatory, environmental, and business decisions remain the sole responsibility of the individual User.

Regulatory and Certification Use

Use of AgNav does not constitute compliance with legislation, assurance schemes, certification programmes, audit requirements, or regulatory obligations. Users remain responsible for ensuring compliance with all applicable requirements.

Environmental and Sustainability Claims

AgNav outputs, indicators, reports, and visualisations are intended to support farm management, sustainability assessment, and knowledge transfer. They should not be used as the sole basis for environmental, carbon, biodiversity, sustainability, regulatory, certification, or product-related claims without appropriate verification.

Limitation of Liability

While reasonable efforts are made to ensure the accuracy and reliability of AgNav, Teagasc and the AgNav partners provide no warranty regarding the completeness, accuracy, or suitability of the information provided.

To the maximum extent permitted by applicable law, Teagasc and the AgNav partners shall have no liability to the User, whether in contract, tort, negligence or otherwise, for any loss, damage, cost or expense arising from or in connection with the User's use of, reliance on, inability to use, or the consequences of using AgNav or any AgNav outputs.

Updates, Feedback, and Continuous Improvement

AgNav is continuously developed to reflect advances in scientific knowledge, user feedback, and national sustainability priorities. Features, calculations, methodologies, datasets, and guidance described in this manual may change without notice. Users should refer to the latest version of the platform and associated documentation. Suggestions for improving the platform or this manual are welcomed and may be submitted through the AgNav support team (support@agnav.ie).

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AgNav is developed and delivered through a partnership between Teagasc, the Irish Cattle Breeding Federation (ICBF) and Bord Bia, with support from the Department of Agriculture, Food and the Marine.

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