Cargill SustainConnect™ 2024

Enrollment Guide

Cargill SustainConnect™

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CONTENTS

Foundational Data: What to Bring

Historic data is required from the previous 3 rotations (of which at least one rotation must be canola).

If canola was not planted in the enrolled field in the past 3 years please provide data back to and including the last canola crop (max of 5 years back). Crop data must cover 1st April-31st March for that specific crop rotation.

Crop Rotation

Crop type
Crop usage
Planting Date
Harvest Date
Termination method
Yield
Residue Removed

Nutrient Management

Product
Application date
Application rate
Application method
Application depth
Water amount

Irrigation

Irrigation period
Irrigation method
Irrigation amount
Irrigation depth
Irrigation Energy Source
Irrigation Energy Usage

Tillage

Tillage date
Tillage depth
Soil inversion

Farm Management

Biodiesel Used
Aerial Application Passes

Create Your Account

To register please contact your program representative for Cargill SustainConnect 2024 or visit www.cargill.com.au/en/sustainconnect

In order to register, you must have a National Grower Registration number (NGR). If you don't have this number, please contact your collector or Cargill Representative.

Click 'Register' to begin, then 'Create a New Account'.

Next, follow the prompts and fill out the necessary fields to create your account.

You will receive a confirmation email from noreply@regrow.ag which will redirect you to set your password and finalize your registration.

- If you do not see the email within a few minutes, check your spam folder.
- Verify your account by clicking the link in the email. You will be taken to a page where you can create a password and finalize registration.

Enrol in the Program

Once you've logged in, the Cargill SustainConnect 2024 program will show. Select 'Enroll Today' to join the program.
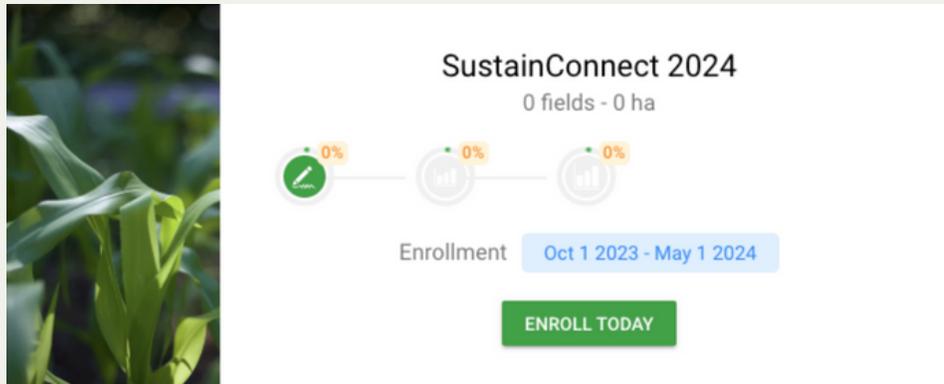
MRV Homepage

This is the MRV homepage where you can navigate to all stages of enrolment.

1. To begin the enrolment process select the 'Fields and Boundaries' stage
2. If you need to return to the Home Page, select the 'Program Steps' text at the top of the screen
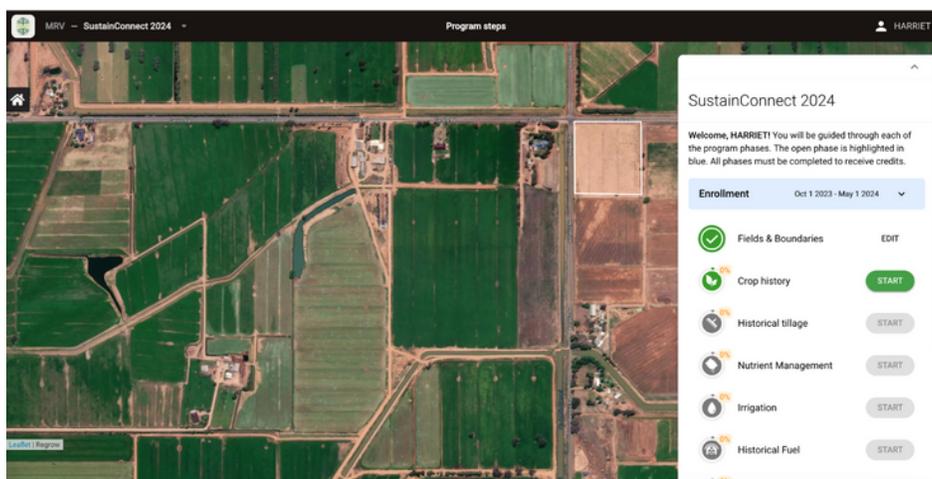
Fields & Boundaries

When you begin the Fields & Boundaries step, you will be able to import your fields in 3 different ways:
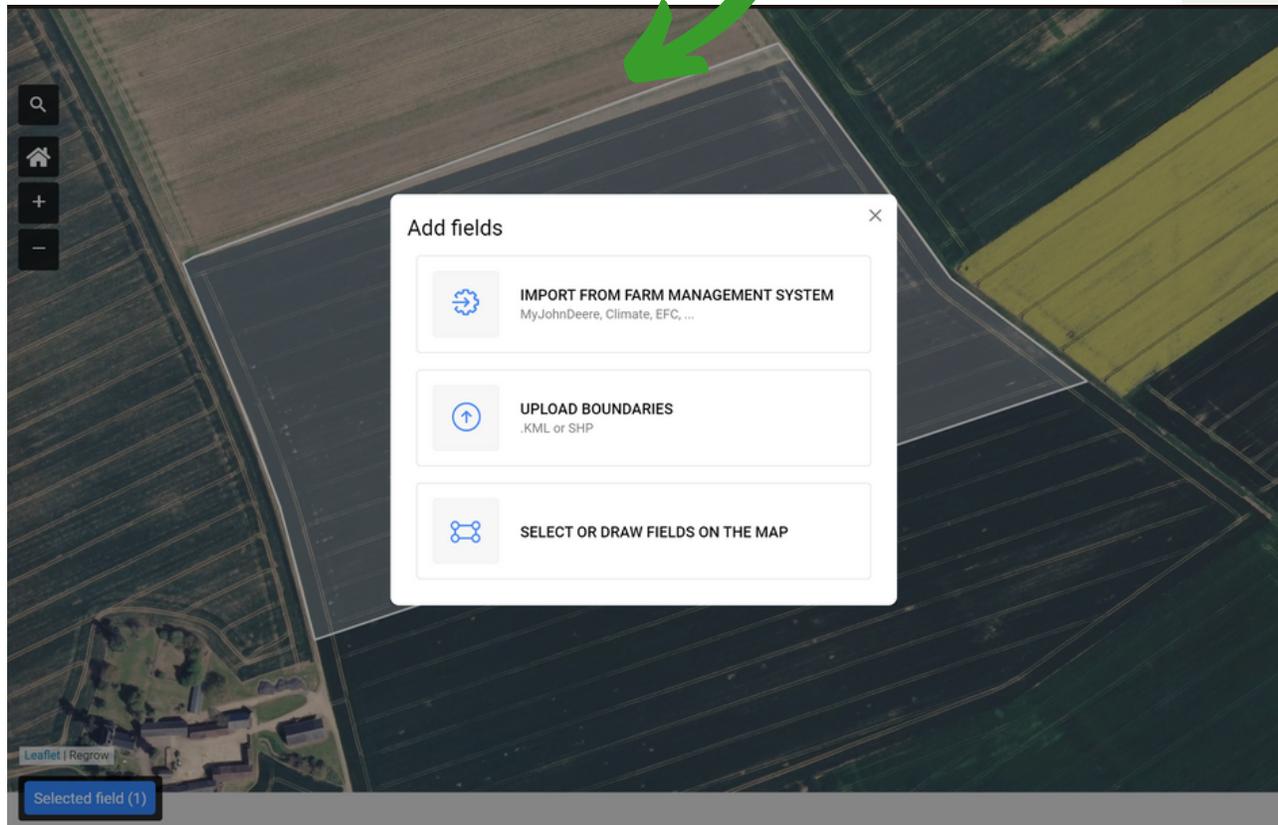
⚠️ **Field boundaries should be as close to the real planting boundary as possible and should not include non-crop areas (roads, rivers, sheds, trees, wetlands), as this will skew crop statistics and affect recommendations.**

During this stage, you are choosing fields to load onto the platform. Once fields are chosen and uploaded, they will be remembered for the next time you log in. You will have the option later to decide which ones you want to enrol in the program.

Upload from a Farm Management System (FMS)

⚠️ We can not edit farm boundaries coming from your farm management system as it will be different from the original boundary and we will lose the recorded management practices. Please edit the boundary in your farm management system and re-import your fields, or draw a new field.

Step 1

Click on 'Import from Farm Management System' in the right menu bar.

IMPORT FROM FARM MANAGEMENT SYSTEM
MyJohnDeere, Climate, EFC, ...
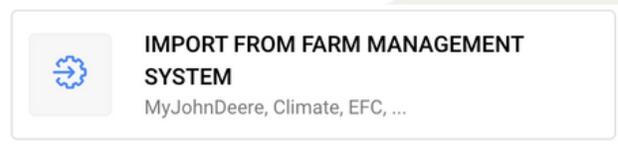
Step 2

Click on the window for the farm management system you wish to use

Connect to your farm management system

Select which system you would like to connect with so we can import your fields and management records.

Agworld
Agworld   ● Not connected ⭐

Show more   >

Don't see your FMS? Contact us.

Import fields from your farm management system

Agworld
Agworld   LOGIN
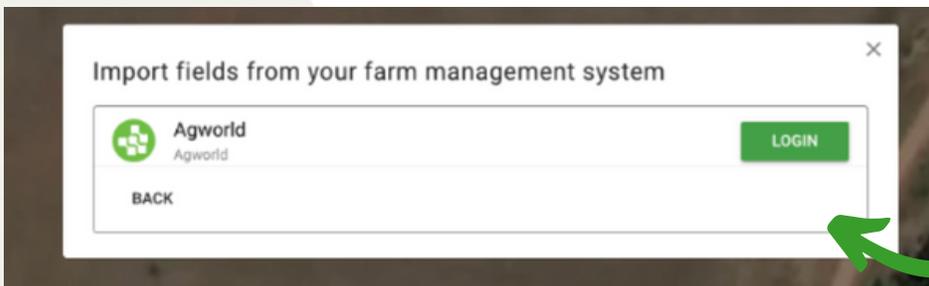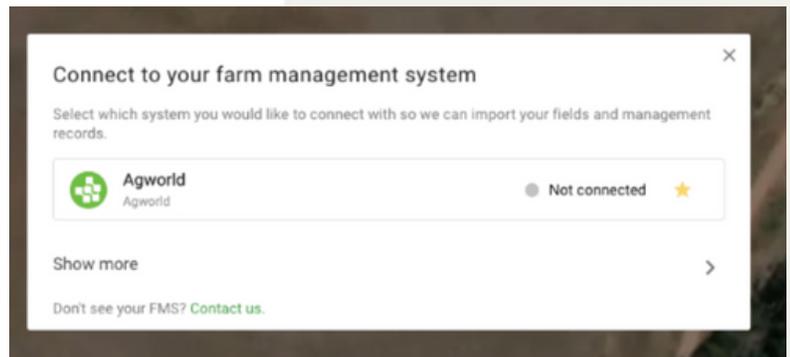
BACK

Step 3

Using your FMS username and password, login to your farm management system.

Once logged in, you will be taken back to the home screen. Select 'Fields & Boundaries', then 'Import from Farm Management System'. Select the Agworld window which now has a green light, meaning you are connected.

Connect to your farm management system

Select which system you would like to connect with so we can import your fields and management records.

Agworld
Agworld   ● Connected

Show more   ⌄

MyJohnDeere
John Deere   ● Not connected

Don't see your FMS? Contact us.
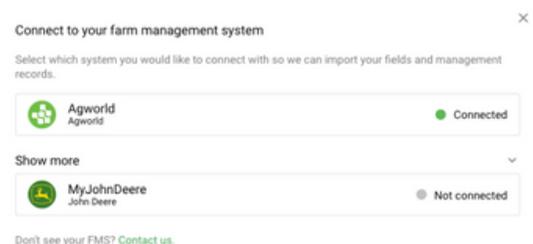
Enrol Fields from a Farm Management System

Step 1

Select the fields you want to import. Please note this does not mean these fields will be enrolled into the program - you will enrol fields into the SustainConnect program in the next steps.

- Select 'Import'

Step 2

Once fields are imported you will be taken back to the home screen.

- Select 'Fields and Boundaries'

Step 3

You can now select the field/s you would like to enrol into the SustainConnect program

- Select confirm selection to begin historic data collection

Import boundaries (.shp or .kml)

Step 1

Click on UPLOAD BOUNDARIES in the right menu bar.

UPLOAD BOUNDARIES
.KML or SHP

Upload field boundaries

⊕ **Upload files**
Drop files here or click to browse

You can upload .kml, .kmz or .shp files.
⊘ If are uploading .shp files, zip archive them before sending and make sure the archive contains the following files extensions: .shp, .shx and .dbf.

BACK
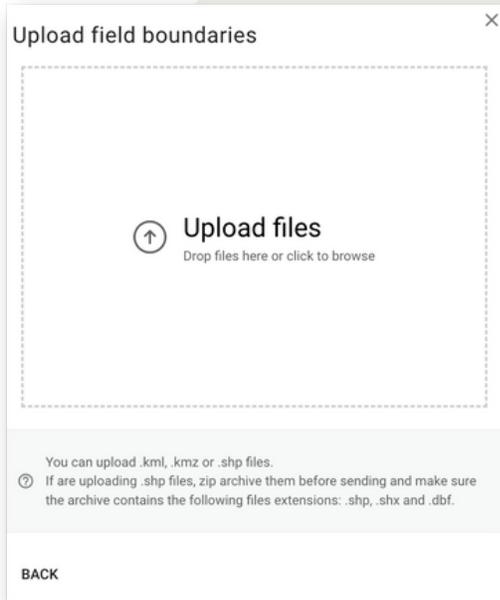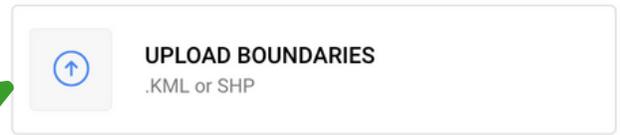
Step 2

Upload files by either dragging and dropping the files or click to browse for your files.

Review and configure import

Here is a sample of your data

GROWER	FARM	FIELD	FIELD_GUID
Bechtel Reese Farms	Alan Reese	Alans Home Place	5226d3d9-40

Select columns to import

Farm name
FARM

Field name
FIELD

BACK   NEXT

Step 3

Review and configure your import. If your files contain the names of the farms and the fields, you can upload them with the field boundary. Make sure the correct file attributes are selected to be imported as farm and field names. You can also leave these fields blank for now.
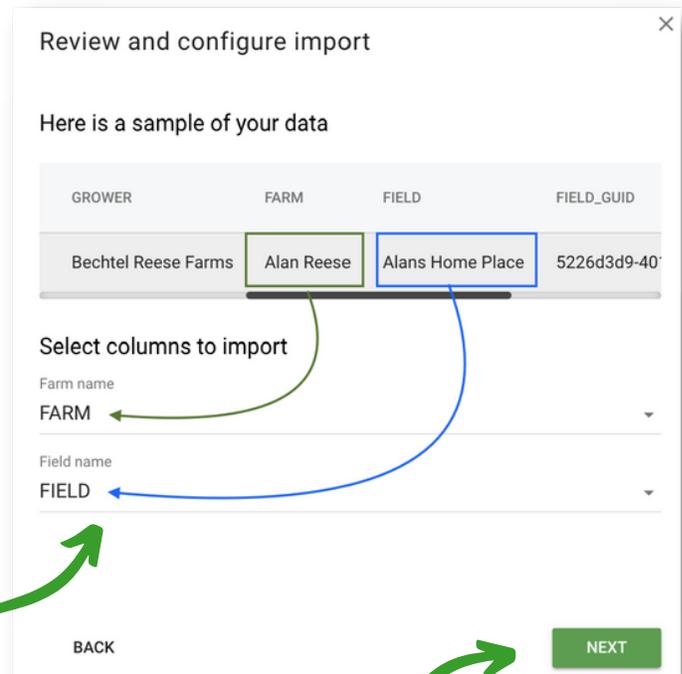
Step 4

Click NEXT when you have reviewed all the information and it is correct.

Draw Fields

Step 1

Click on SELECT OR DRAW FIELDS ON THE MAP.

[🔵 | SELECT OR DRAW FIELDS ON THE MAP]
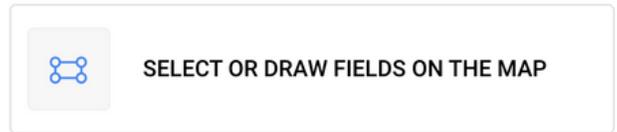
Step 2

Click Draw Fields

[DRAW FIELDS 🔵]

Step 3

Select the shape you want to draw.

[▱ POLYGON] [⊙ CIRCLE]

Click first point to close this shape.

Radius: 879 ft
Release mouse to finish drawing.
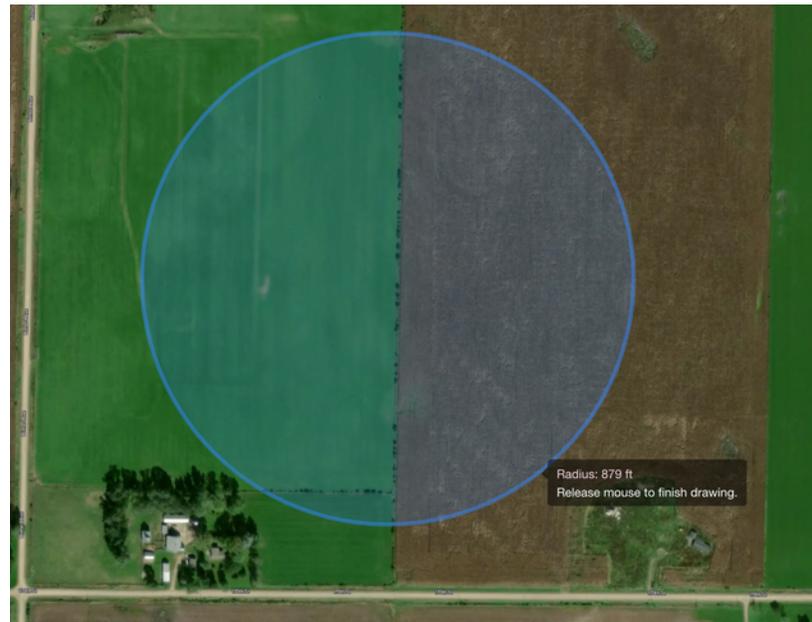
Draw a polygon

Use the mouse to click and connect vertices. Click the first point drawn to close the shape.

Draw a circle

Click and drag draw a point and circle radius around it. Release mouse to finish drawing.

⚠ **Field boundaries should be as close to the real planting boundary as possible and should not include non-crop areas (roads, rivers, sheds, trees, wetlands), as this will skew crop statistics and affect recommendations.**

TOOL TIP

If you are not able to draw a field, check that you are zoomed in enough.

When done, click: [NEXT]

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Assigning Fields to a Farm
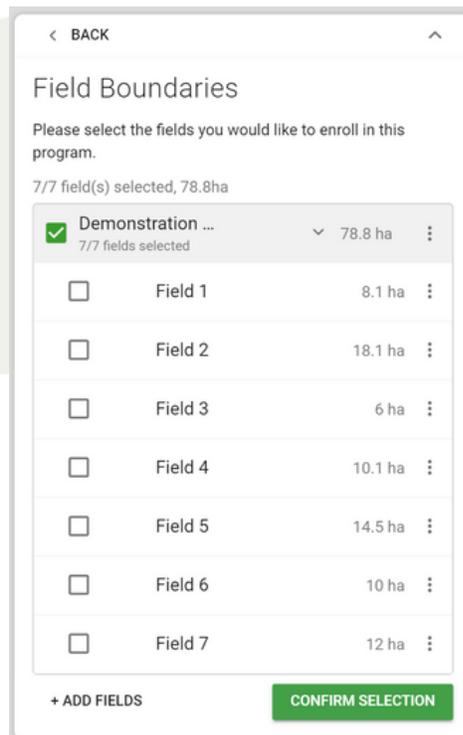
Step 1

To assign your fields to farms, click 'Assign to Farms'.

Step 2

You can assign your fields to farms individually or in bulk.

You can also add a new farm name.
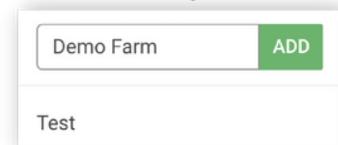
Step 3

Once you have named your farm and fields, you can upload. Any fields that have been uploaded will be remembered, so you can access them easily next time you log in.
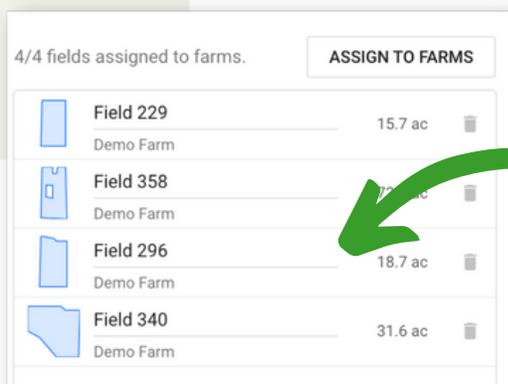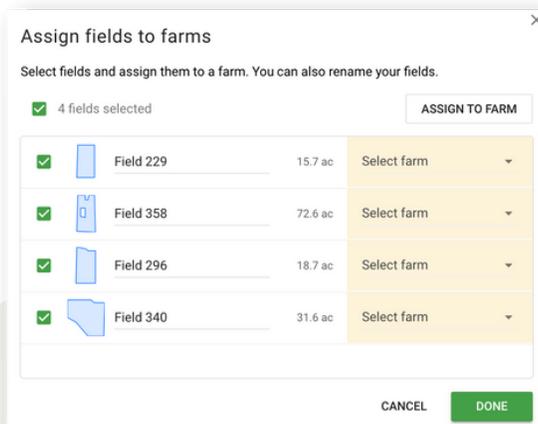
TOOL TIP:

When you have added a new farm you will notice the farm name appear under the field name.

To rename a field, simply click on the field name and start to type.

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Editing Field Boundaries

Step 1

Click on the ellipses next to a field name to open the dropdown. Select EDIT BOUNDARY.
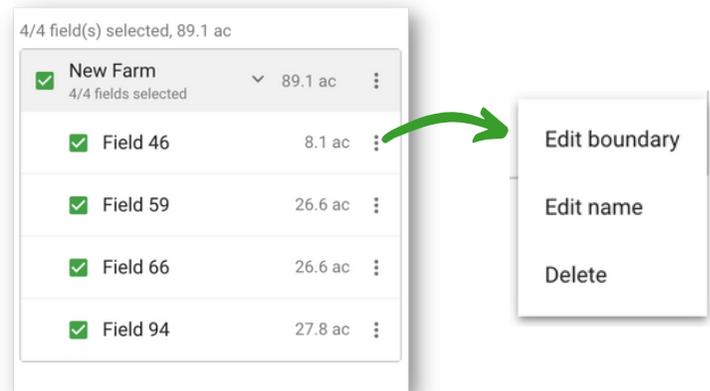
Step 2

Drag and the points to edit the boundary. You can also add or delete a point. Then click SAVE.

** Once drawn, your field boundary can be edited.

⚠ We can not edit farm boundaries coming from your farm management system as it will be different from the original boundary and we will lose the recorded management practices. Please edit the boundary in your farm management system and re-import your fields, or draw a new field.

Select Fields to Enrol

You are now ready to select the fields in which you intend to implement new or expanded practices (eg. no-till/cover crops) in the upcoming growing season. Simply check the box next to each field.

⚠️ Fields not selected will not move forward to the next step in the program though they will be saved in this list. If you wish to change field selection later, you can do so at anytime before signing your contract.

To proceed, click CONFIRM SELECTION in the bottom right of the screen.

Historic Data Collection

In the next part of this process, you will be asked to enter data for historical cropping, tillage, nutrient applications, irrigation and energy records. Data is required for the last 3 years, of which, at least one year must contain Canola. If Canola was not grown in the previous 3 years, enter data back to the year that Canola was grown. Canola must have been grown in the enrolled field in the past 5 years to be eligible for SustainConnect 2024.

This historical data will be used to set a baseline so that carbon sequestration and carbon reduction potential can be estimated. Carbon sequestration potential is determined by comparing baseline (historical practices) with carbon farming practices to be implemented in the next growing season.

Historic Data Collection

You can start with any data collection stage, however, please note all stages must be completed.

All stages require at least three years of data, of which must include one year of canola.
- If the previous three years does not include canola, then input all data back to, and including, the year for which canola was planted.

To add more "events" or rows (such as two crops being sown on the same field) click the + button, or remove an event by clicking the Bin button. These are found on the right hand side of the screen.

The following pages will highlight key notes for each data collection stage.

Crop History

Crop History requires the following data;

- Crop Type
- Crop Usage
- Planting Date
- Harvest Date
- Termination method
- Crop Yield
- % Residue Harvested
- Residue Burnt

TOOL TIPS:

- Hover over the ? for more details on each column
- If there are multiple crops planted in one year (eg. cover crop) press the + button at the end of the row
- Year - The reporting year relates to the cropping year, which is defined as the 1st April-31st March for the Cargill SustainConnect 2024 program

Tillage History

The Tillage History stage requires the following data points:

- Tillage Date
- Tillage Depth
- Soil Inversion

Please record tillage activities outside sowing events. Any nitrogen applications that were incorporated should also be captured as a tillage event (unless incorporated as part of the sowing event).

TOOL TIPS:

- Refer to the tillage guide for tillage practice
- If you completed multiple passes, select the + button to create additional records
- The Bulk Edit feature allows for quick multiple entries
- Soil Inversion - Select Yes if using a moldboard plough, square plough or modified one-way disc plough
- Record events (e.g. tillage and nutrient/manure applications) within the period they occurred even if they relate to the following year's crop. Example seedbed preparation and pre-emergent fertiliser applications that occur on 20 March 2023 should be recorded in the 2023 Year even if they relate to the 2024 Canola crop.

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Nutrient Management History

The Nutrient Management History stage requires data for;

- Product
- Application Date
- Rate Amount
- Application Method
- Water amount (if fertigation)
- Application Depth

TOOL TIPS:

- Use the bulk edit function to quickly enter your data
- If you are an AgWorld user or have nitrogen application records available in CSV format, contact your Cargill program representative for easy data upload options
- If nitrogen applications have been 'incorporated' -> select broadcast as application method. If the application was pre or post planting (not at time of sowing) also include a tillage event in the tillage stage
- If your product is not listed, select a product with a similar NPK profile
- If the NPK breakdown does not match, use the 'Rate Type' - 'Nitrogen Rate' to calculate the application
- Note: pre-planting applications of fertiliser and manure that occur between last year's harvest and before 1 April (i.e. outside of the 2024 reporting year) must be reported in the year they occur but will be attributed to the 2024 Canola crop so may impact qualifying for the nutrient management intervention(s)

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Irrigation History

The Irrigation History stage requires the following data points;

- Start Date
- End Date
- Total Amount Applied
- Irrigation Method
- Subsurface depth (if applicable)
- Flood % (if irrigation method: Furrow)
- Irrigation Energy Source
- Irrigation Energy Usage

TOOL TIPS:

- Dates - This should capture one start date (for the first water) and one end date (for the last water) for each crop planted. Do not enter every irrigation event in the year.
- Use the Bulk Edit function to add multiple years data at one single entry point.
- Flood % is only required for the Irrigation method: Furrow. Enter the % of the field that is flooded (ie. % coverage)

Farm Level Management

The Historical Fuel stage captures data for;

- % Biodiesel Used
- Number of aerial passes

TOOL TIPS:

- Use the Bulk Edit Function to quickly enter data across all fields.
- Number of aerial passes includes how many times pesticides or herbicides application were applied using aircraft.

Assigning Practices

Once all data collection phases are completed, the new sustainable interventions can be assigned to each field enroled into the program.

Adding Practices

1. To assign a new sustainable interventions select the + button
2. You can select multiple sustainable interventions for each field and click Assign Practice, complete for all fields
3. Refer to the Interventions Resource for further details
4. You can then move onto the 'Outcome Estimation' stage
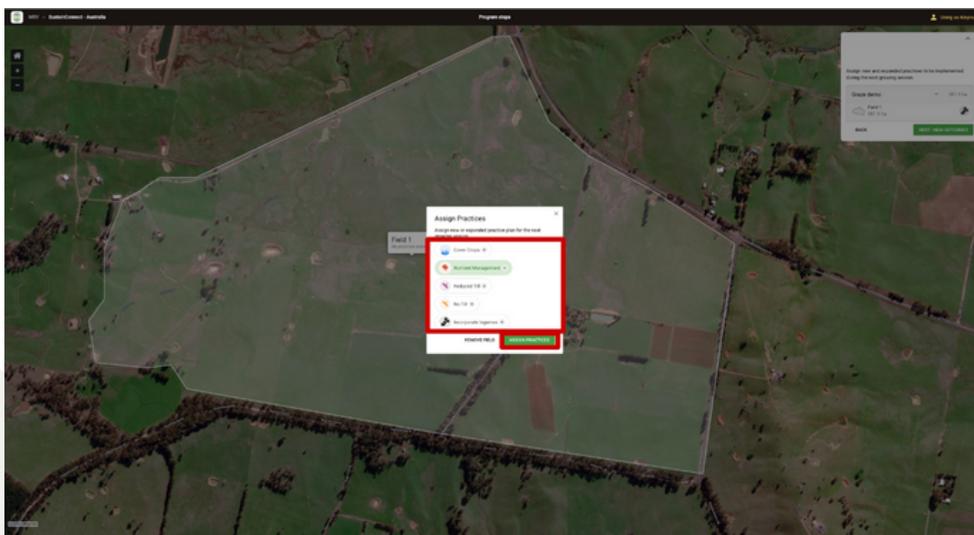
Viewing Outcomes

In this step you will be able to view your payment outcomes. As payment for this program is based on a per hectare rate, you will see the total are enroled and the estimated payment based on the $25/ha calculation.

Calculating your outcomes might take a few minutes. During this time, you will be unable to edit any other information about your fields. A progress notification will keep you informed about the progress of this process. You will also receive an email when it is complete.

Once calculations are complete, you will need to review them and then press CONFIRM in order to move on to your Producer Agreement.

View estimated outcomes

Below are the estimated sequestration and payment outcomes based on the practices assigned to your fields.

Press **Start** to run outcomes. When done, you can press **Sign Contract** to move on to your producer agreement.

Demo Farm		⌄ 31.6 ha
Field 1	14.2 ha	
Field 2	13.7 ha	
Field ABC	3.7 ha	

Total area enrolled	**31.6 ha**
Estimated outcomes payment per year	**$ 789.25**
How is this calculated?	＞

BACK   **SIGN CONTRACT**

25% of the payment outcomes will be paid after signing the Producer Agreement and eligibility has been reviewed.

The remaining 75% will be paid after interventions have been implemented, 2024 cropping data has been entered and reviewed.

⚠ If you make any changes to your fields after these calculations are run, you will have to restart this process.

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Producer Agreement

You can now sign the Producer Agreement and complete enrolment!

The new sustainable interventions selected for each enrolled field can be implemented when applicable.

Once signed, the contract will be sent by email. It can also be downloaded as a PDF. Once signed, the contract can not be edited, so please confirm all fields and practices are correct before signing.

If you need to, you can request that your contract be deleted. Your program admin will be contacted about your request and you will receive an email IF your request is confirmed.

We will notify you when to return to enter the 2024 crop data.

Confidence in the Program

How do we know our calculation of Soil Organic Carbon (SOC) sequestration works? Regrow uses the DNDC soil carbon model developed at the University of New Hampshire that incorporates your weather, soil, management, and environmental conditions to simulate the living biological system that controls carbon and nitrogen cycling in the soil. You control the management practices that make the microbes thrive in a happy and healthy environment and DNDC models the microbial response resulting in potential carbon sequestration. Initial estimates project potential future outcomes that are quantified after soil health practices are implemented.

In full transparency, model outputs are an estimate of complex biogeochemical processes, so Regrow always reports on the uncertainty around the model results. The more farm data you provide, the more accurate estimates will be. We are continually advancing our knowledge about the impact of different management practices on microbial activity and resulting carbon and nitrogen cycling, ultimately strengthening the model with ongoing research and data enhancements. The DNDC model is one of a few models approved by the carbon verification system. Previous research has demonstrated the DNDC model's ability for quantifying soil carbon sequestration.
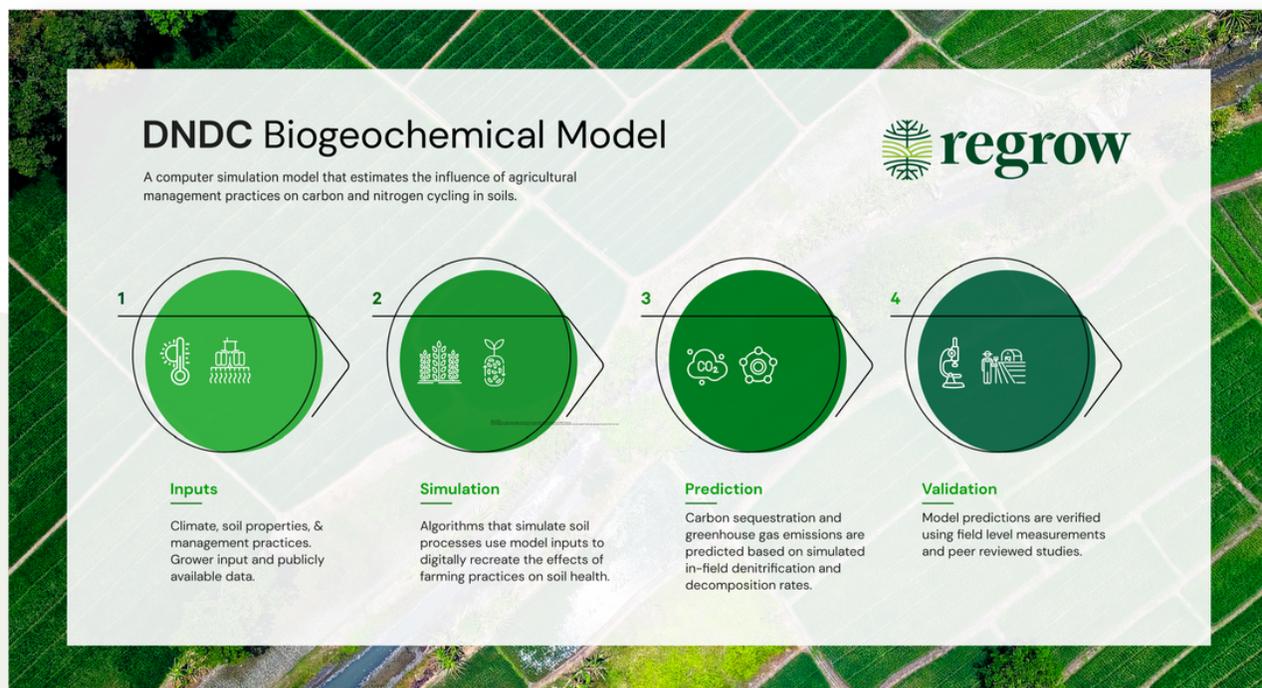
Next Steps

Below are key dates and milestones for SustainConnect 2024:

Nov 2023 - March 2024
Growers register for the program and complete data entry

31 March 2024
Enrolment Phase closes. Baseline data must be entered and Producer Agreement signed

After enrolment has been completed
MRV Measure Phase opens and program data collected from participants (same inputs as seen in enrolment phase)

April 2024 - April 2025
The program is active and the selected interventions are implemented

May 2024
The emissions GHG baseline results are released to participants via email

June 2024
25% payments made once eligibility and baseline data are verified

March 2025
Measurement Phase closes. 2024 Crop data must be entered.

May - July 2025
Program GHG footprint released via email. Program outcome payments delivered to participants following data review.

Let's explore more on your fields!

Please contact your Cargill program representative at sustainconnect@cargill.com for any program eligibility or data related questions or email support@regrow.ag if your enquiry relates to the performance of the MRV platform