



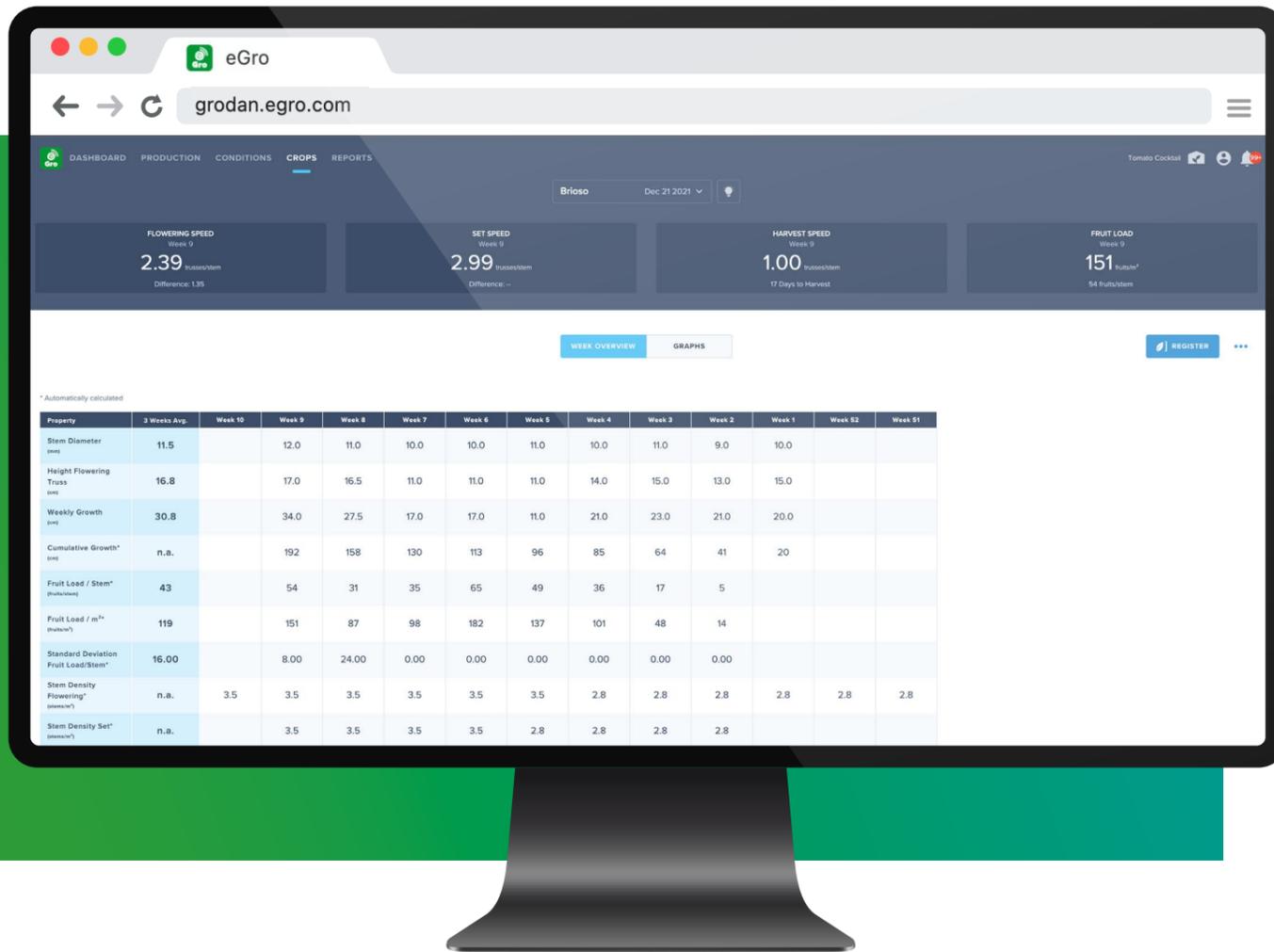
How to guide

# Crop Module

Q1 – 2022

For questions, please contact [egro.support@grodan.com](mailto:egro.support@grodan.com)

# Crop Module



## Crop Monitoring

Crop monitoring is an essential part of optimising your growing strategy. It all starts with capturing data about your plant growth. Crop registration is the process of registering data about the main parts of the crop. This requires a disciplined approach, because this crop data must be registered accurately and consistently on a weekly basis. This data gives you greater insight into the progress of crop growth and its impact on the constantly changing climate conditions.

The output generated by crop registration ultimately contributes to better decision-making in your chosen growing strategy. The Crop Module is the module that translates your crop data into useful insights on plant growth. This document gives more information about how to work with the Crop Module and where to find all the information and graphs that relate to plant growth.

## How to leverage the full potential of your Crop Module

Before we dive into the details, let's explain the essence of the Crop Module first. This module provides detailed, real-time insight into the status of a plant, helping you to set the right cultivation strategy. To truly understand how crops are growing, we need to capture various crop-related measurements and characteristics. To do so, we collect crop data via the Crop

Registration Form. This enables the system (and our users) to better understand how the crops are growing and translates that data into useful insights and predictions in other e-Gro modules. This empowers growers to make informed decisions regarding their irrigation strategy and reveals correlations between past and present plant growth.

### Example of how to work with crop data:

Let's say that it is week 21. You have noticed that dry back does not slow down during the night. This might lead you to think the plant is growing more generatively. In response you might quickly make adjustments such as night shots. e-Gro enables you not only to see the status of the plant today (week 21), but also indicates the future status of the plant. Perhaps although the plant appears to be growing generatively, it is actually steering vegetatively. In this case, no adjustments are needed. This saves you money by reducing the water consumption.



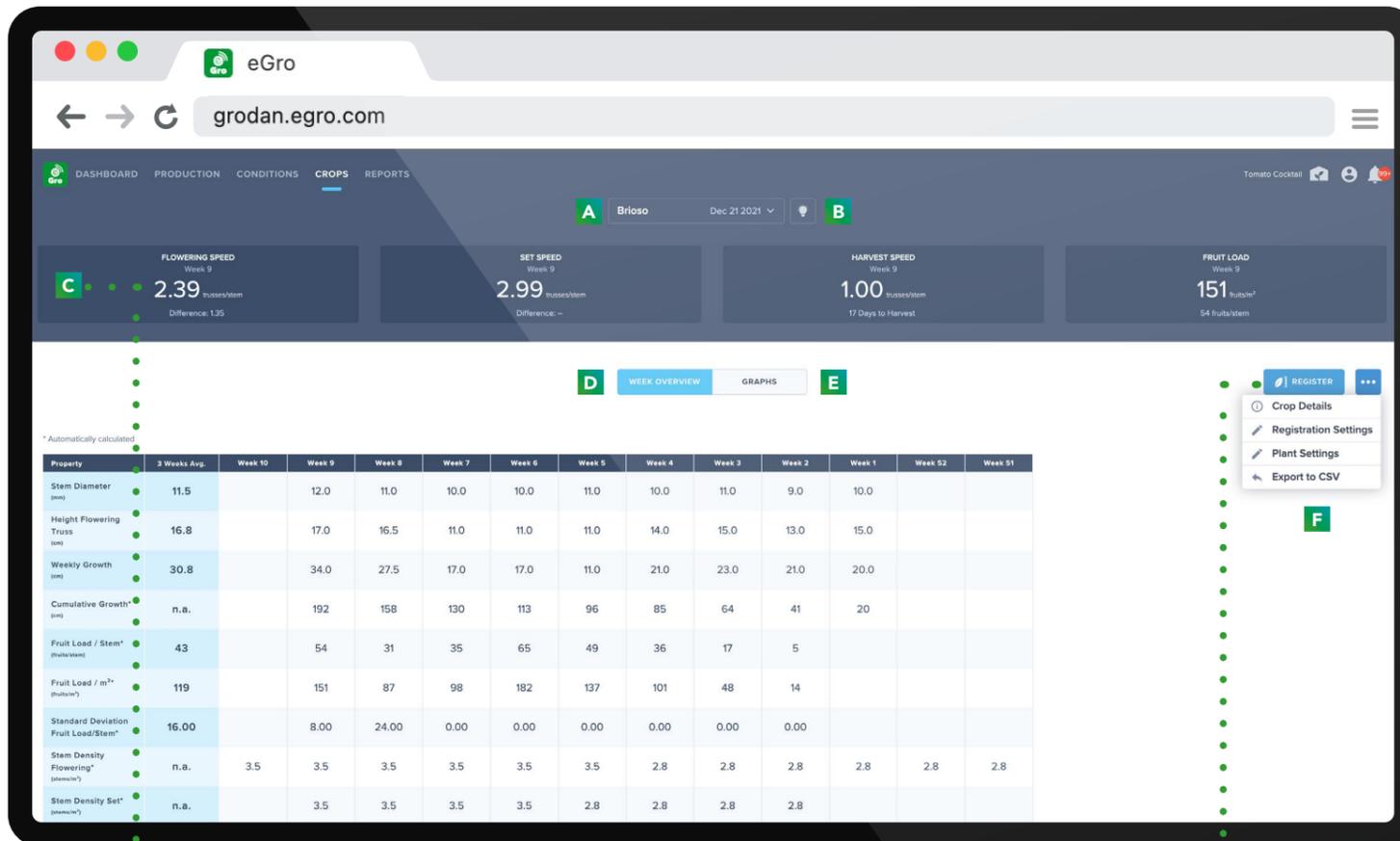
Scan QR code to view the crop module video

## Optimised growing strategies

By registering the details of crop growth and comparing this with historical crop data, you gain greater insight into the impact of your chosen growing strategy. You naturally want to avoid repeating mistakes made in the past, so it's vital to register the progress of plant growth every week. Based on this information, you have a clear overview of the development of the crop balance. This information also provides answers to questions such as: should I be steering the crop with vegetative or generative actions? How do my plants respond to the chosen irrigation strategy? You can also use crop registration output to analyse important data such as:

- Flowering speed
- Setting speed
- Harvest speed

This data helps optimise your cultivation schedule. The next step is comparing crop data with other factors such as climate and irrigation data. In practice, this data is often saved in different systems. e-Gro centralises this data thanks to the integration of various climate computer systems and the advanced crop registration overview. This offers you all the relevant data in a single system and there is no need to switch between various systems to access in-depth data analysis of your crop growth.



## Getting started

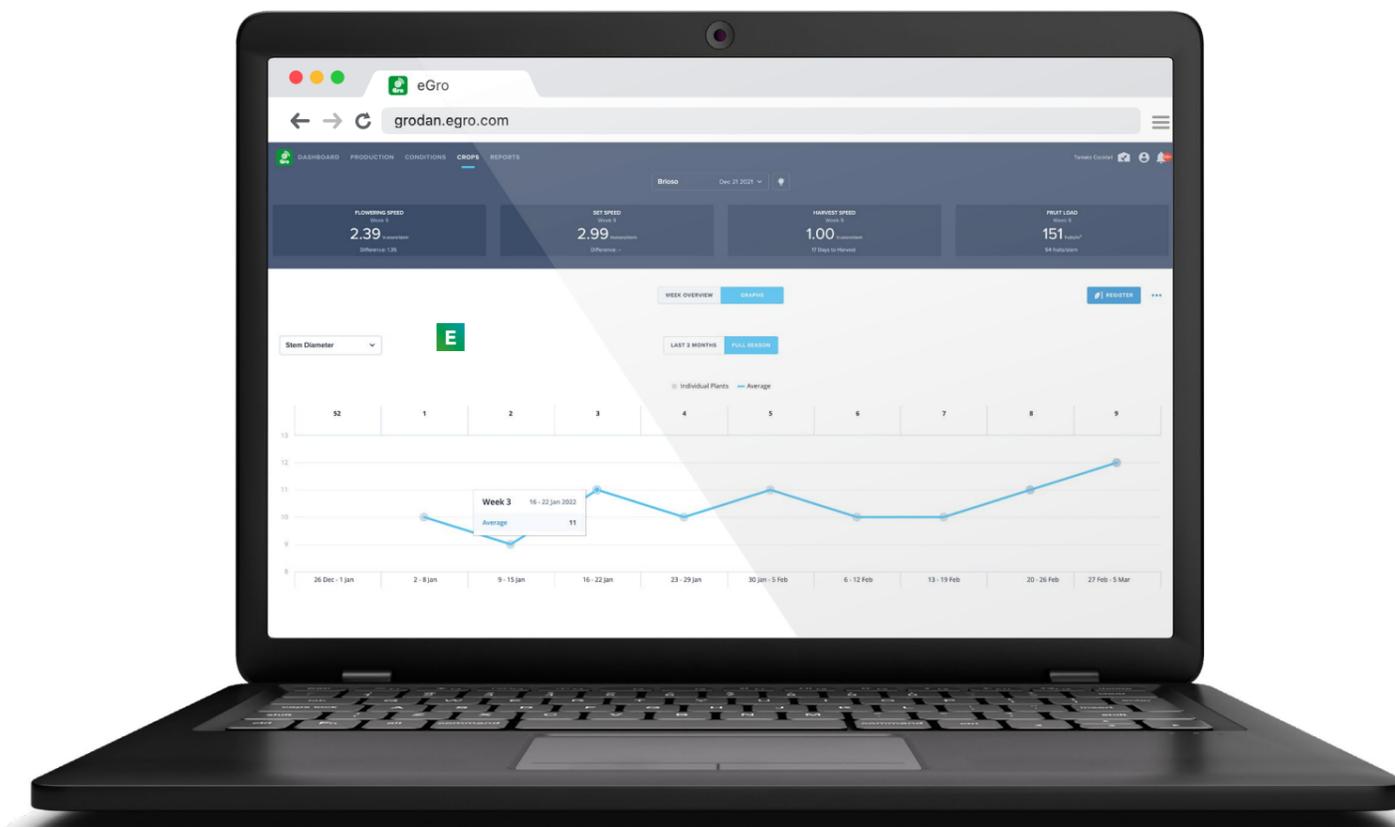
This crop module delivers data driven insights into crop growth. It saves you time by generating automatic calculations for flowering speed, harvest speed, fruit load etc. You can analyse various crop graphs to apply better crop monitoring in your greenhouse. All this data is readily available for you, accessible via your smartphone, tablet and desktop 24/7. Crop Module is optimised for tomatoes and sweet peppers. For example, you can define parameters for the main stems and side shoots of the tomato plants. Together with your Grodan green experts, we can discuss how to start using crop registration in your greenhouse or how to take your current crop registration process to a next level. Visit [www.grodan.com/e-Gro](http://www.grodan.com/e-Gro) for more information.

## How the Crop Module works

In order to start working with this module, you must add a new crop and setup your registration plants. This document only zooms in on how the Crop Module works:

- **A** - The crop selector on top allows you to switch between multiple crops or varieties.
- **B** - Next to the crop selector is the light icon. This is accessible from each module, giving you the option to set and adjust your lighting schedule.
- **C** - Below this, four main KPIs are displayed which are essential for optimal crop monitoring. The figures are automatically calculated based on the latest crop data entry.
  - Below the KPIs are multiple options to analyse your entered crop data.
  - **D** - On the left is the 'week overview' option. The week overview displays your crop data entry including automatic calculations such as days to harvest, flowering speed, harvest speed and much more!

- **E** - The graphs option displays various crop graphs. Use the selector to select different crop growth graphs based on the last two months and a full season view.
  - You can view multiple graphs, one of these is the stem diameter graph. Click the selector to analyse different crop growth parameters.
  - Next to this graph, there is also the crop balance graph. In this graph you can review week numbers and analyse into which direction your plants are growing: more vegetative or generative?
- **F** - Returning to the top, below the KPIs, is the register button and 3-bullets button.
  - Use the register button to enter your weekly crop registration.
  - The 3-bullets button gives you extra options such as exporting data to a CSV file, reviewing crop details or adjusting your crop registration settings.



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