

# Application Booklet Green on Brown

## GoB Day

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Version 1

<https://bilberry.io>

Any questions? [hello@bilberry.io](mailto:hello@bilberry.io)

# Introduction

**Green on Brown (GoB)** spot spraying technology has been around for many decades with the use of chlorophyll sensors. These sensors detect living plants in bare paddocks, spraying only where needed to reduce herbicide usage. Bilberry's solution takes **GoB Day** to the next level by utilising the advancements in Artificial Intelligence (AI) to identify weeds in bare paddocks with high accuracy and efficiency.

Bilberry's **GoB Day** application allows users to spray herbicide in the right place at the right time in the right quantity. Utilising the **GoB Day** application is a smart move toward reducing the herbicide costs and improving the sustainability of users farms.

This booklet will set out best practice guidelines to ensure users maximise the benefits of the camera system and overall integrated weed management strategies on farm. Included our use cases and testimonials from a range of users, highlighting different approaches to obtain the same goal: sustainably optimising weed control at a whole farm scale.





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# 1. Application Guidelines

## Which weeds does it detect?

All weeds with a diameter > 5 cm, including:

- Broadleaf weeds (melons, roly poly, tar vine, fleabane, skeleton weed, thistle, etc.)
- Grasses (windmill, feathertop rhodes, button, etc.)



## What is the best timing?

Our cameras need to be able to see the weeds to spray them, therefore, the lower the stubble height, the better the results will be. Research has shown that 30 cm high stubbles are a suitable size without reduction in hit rate.

The **GoB day** application works in all types of stubble: cereals, canola, corn, legumes etc.





# 1. Application Guidelines



In high stubble situations ( $> 50$  cm), weeds are more likely to be concealed and therefore, not seen by the camera.



Areas shaded by the sprayer do not impact the performance of the GoB Day application.



After harvest, slight green color of canola stubbles will be considered as a weed by the GoB Day application.





## 2. System Basics and Benefits

### Spray What You Can See

*"If you can see the weed with your eyes, the camera will see it." - Broden Holland*

Cameras can be affected by high stubble loads, crop shading, and canopy closure. If they cannot see the weeds in question, they cannot spray them, it's as simple as that.



**20**km/h  
recommended  
spraying speed

### Get Significant Chemical Savings

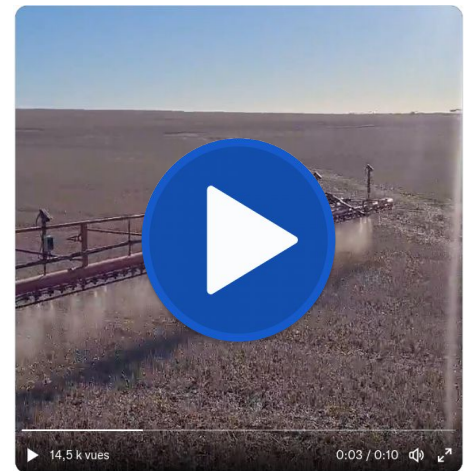
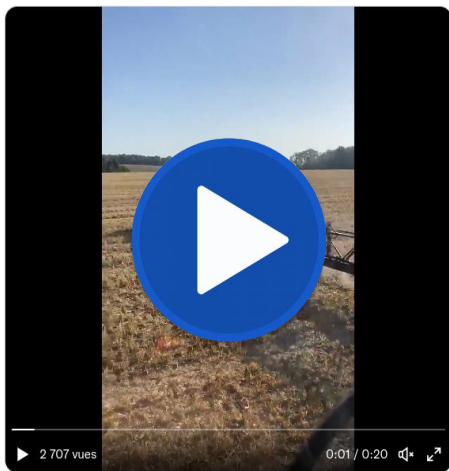
Average chemical savings are around 80% and can go up to 98% depending on the weed infestation in your paddock and the section size.

### Best Light Time

Ideal spraying timing starts 2h after sunrise and stops 2h before sunset, when the natural light is the strongest.

➔ **and many other benefits for your farm**  
check them out [here](#)

### 3. Application in Action



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### Disclaimer

The content and data presented in this document is correct at time of writing and contains some anecdotal information which may not align with the results you experience on your farm. If you are experiencing varied performance with your Bilberry system please bring it to the attention of your local sprayer representative or Bilberry support team member.