

Application Booklet Green on Brown



GoB Night

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Version 1

<https://bilberry.io>

Any questions? hello@bilberry.io

Introduction

Green on Brown (GoB) spot spraying technology has been around for a couple of decades now in the form of chlorophyll sensors which detect any living plants in bare paddocks and sprays only them to reduce herbicide usage. Bilberry's solution takes **GoB Night** 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 Night** application allows users to spray herbicide in the right place at the right time in the right quantity. Utilising the **GoB Night** 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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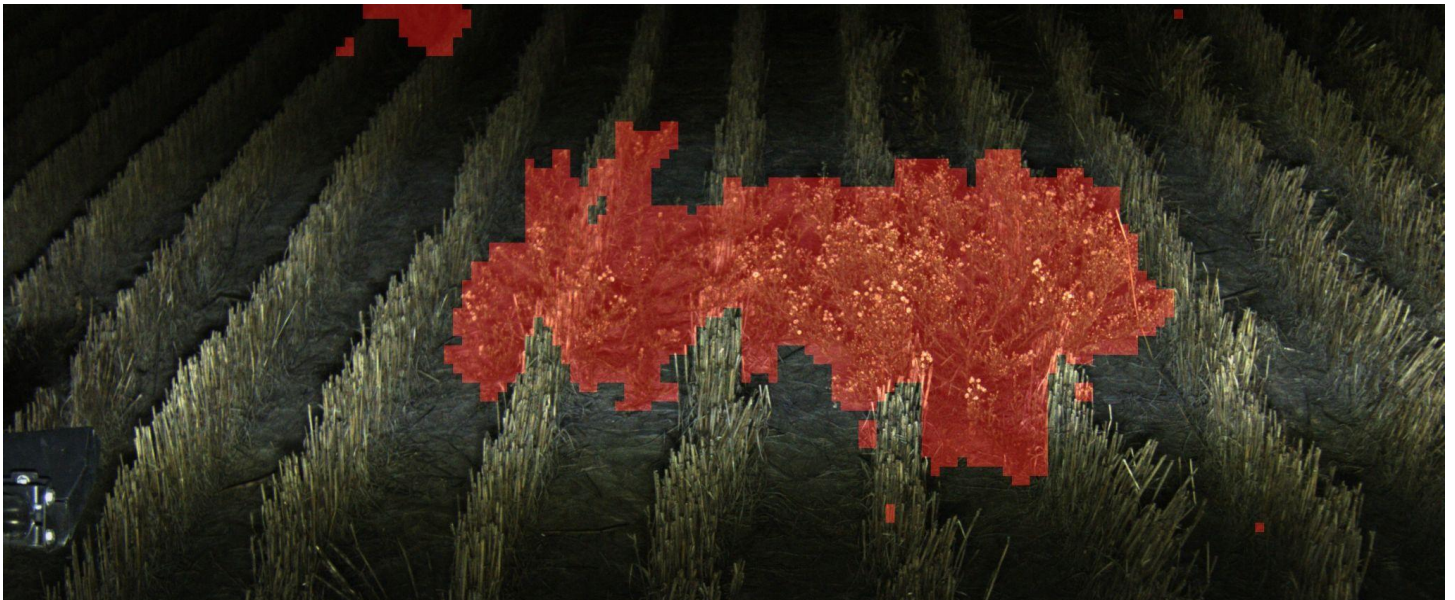


1. Application Guidelines

Which weeds does it detect?

All weeds with a diameter > 5 cm, including:

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



What is the best timing?

Our cameras can detect what you can see when you're sitting on the boom: the lower the stubbles are, the better the results will be. 30 cm high stubbles is a reasonable size.



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. If they cannot see the weeds in question, they cannot spray them, it's as simple as that.

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.

Check Lights Are Clean

Even a light coating of dust on the lights can greatly affect the lighting. Before each night spraying, **make sure the lights are sufficiently clean.**

20km/h
recommended
spraying speed

Best Light Time

We recommend to turn on the lights **1h before sunset** and turn then off **1h after sunrise.**

➔ **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.