



# VETCH IN LENTIL APPLICATION SNAPSHOT

Detect flowering vetch weeds in lentil crops using the Bilberry smart spraying system.

## BASIC INFORMATION

### Spray What You Can See

When using any Bilberry smart spraying application, the cameras must see the weeds in order to detect and spray them. Keep in mind the effects of high stubble loads, crop shading and the crop canopy when using the system.

### Target Weed

This application is trained to detect flowering vetch plants in your lentil crop. It is only usable towards the end of lentil cropping as that is when the flowers typically bloom. The greater the number of flowers, the greater the accuracy of the system.



**20** km/h  
optimal spraying speed

### Best Light Time

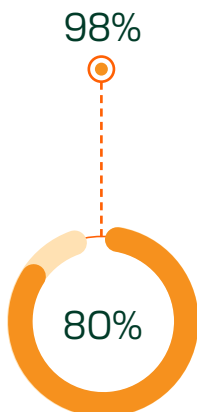
Ideal spraying time starts one hour after sunrise and ends one hour before sunset, when natural light is the strongest.



# KEY BENEFITS

## Significant Savings

Average chemical savings for Bilberry users is about 80% but has been proven to be as high as 98% in some use cases. The fewer weeds there are in a field, the higher the savings will be.



## Herbicide Resistance Management

Increasing herbicide resistance in weeds is a big issue for farms today. Utilising the Bilberry smart spraying system allows users to apply robust rates of herbicides to maximise weed control and reduce the risk of further herbicide resistance, all while increasing the profitability of the farming enterprise.

## Agronomic Data

Understand your weed pressure levels and overall savings per session using weed maps produced based on in-field detections.

# RECOMMENDATIONS

## Crop Stage

This application is only usable when vetch flowers are blooming, typically towards the end of the lentil growth period.

Using the application prior to this point will not trigger any detections as it is specifically designed to only look for the purple flower petals.

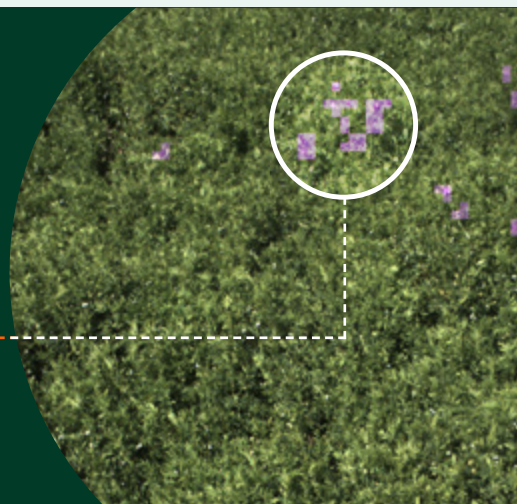
## Weed Size

does not matter. If there are purple flowers visible, there will be successful detections.

The more flowers that a vetch weed has, the higher the chance that it is detected and sprayed successfully.

Get the most out of your Bilberry system  
**Additional reading [here.](#)**

Detected weeds are shown here highlighted in purple 



© 2025, PTx Trimble LLC. All rights reserved. PTx and associated Logo are trademarks of AGCO Corporation. All other trademarks are the property of their respective owners. PN 022503-2081 (02/25)



Reach out to us to find out more:  
[www.bilberry.io](http://www.bilberry.io)  
[bilberry-sales-ug@ptxag.com](mailto:bilberry-sales-ug@ptxag.com)