

# Enhancing the knockdown effects of weeds: A Study on the Effectiveness of Transit Fast Blast® Application

## 1. Introduction

Improving the knockdown effects of weed is crucial in the agriculture industry. Weeds can cause a significant impact on crop productivity by competing with crop for moisture, space, nutrients etc. Therefore, effective weedicide application is important to improve the crop productivity as well as economic gain. In this study, Transit Fast Blast® was used with the grower's practice to improve the knockdown effects of weeds.

## 2. Project objectives

To assess the effectiveness of adding Transit Fast Blast® to grower's practice on improving the knockdown effect of weeds.

## 3. Material and Methods

### Site Selection and Trial Design

The trial was conducted in Underbool, Victoria. Treatment application was done once before the start of the season. One side of the paddock was treated with the grower's normal weed control practice and the other side was treated by adding Transit Fast Blast® with the rate of 1.5ml/L to the grower's weed control practice. After six weeks of the treatment application, drone photos were taken to check the effectiveness of Transit Fast Blast® in improving the knockdown effects of weeds.

**Table 1:** Treatments and application rates of each Calcium product.

Treatment	Rate (L/ha)
Grower's Practice	<ul style="list-style-type: none"><li>Glyphosate 450 @ 1.5 L/ha</li><li>Surpass 450 @ 1.5 L/ha</li><li>Hasten @ 0.5%</li><li>70 L Water/ha</li></ul>
Treated	Grower's practice + 1.5ml/L Transit Fast Blast® <ul style="list-style-type: none"><li>Glyphosate 450 @ 1.5 L/ha</li><li>Surpass 450 @ 1.5 L/ha</li><li>Hasten @ 0.5%</li><li><b>Fast Blast @ 1.5 ml/L (0.15%)</b></li><li>70 L Water/ha</li></ul>

#### 4. Results

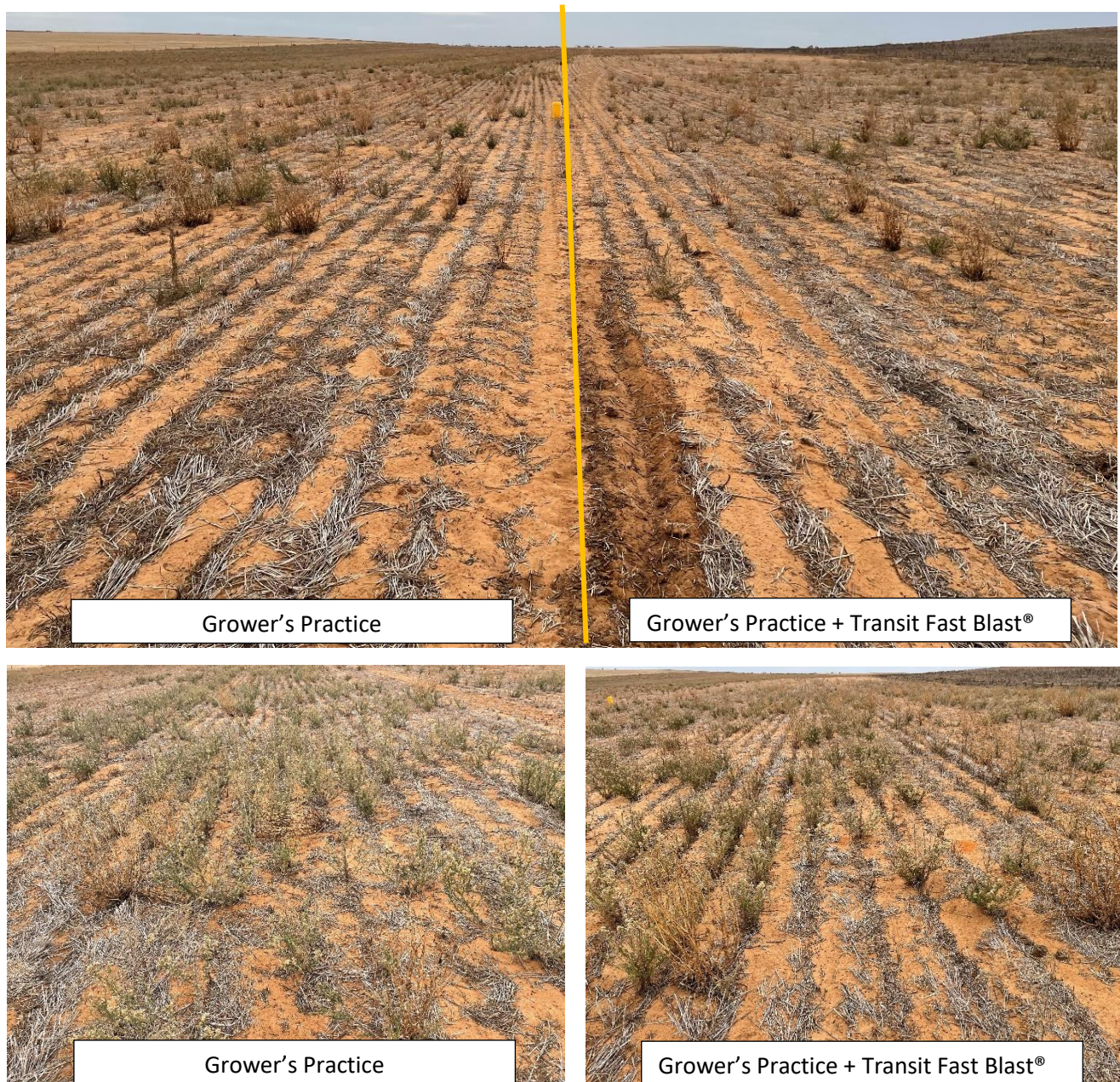


Figure 1: Comparison images of the field treated with grower's practice and growers' practice + Transit Fast Blast®.

After six weeks of the products application, comparison photos and aerial drone photos were taken to compare the effectiveness of Transit Fast Blast® on improving the knock down effects of weeds. The comparison images showed that the area treated with Transit Fast Blast® had less weeds and most of the weeds were less green in colour compared to the area treated with grower's practice.

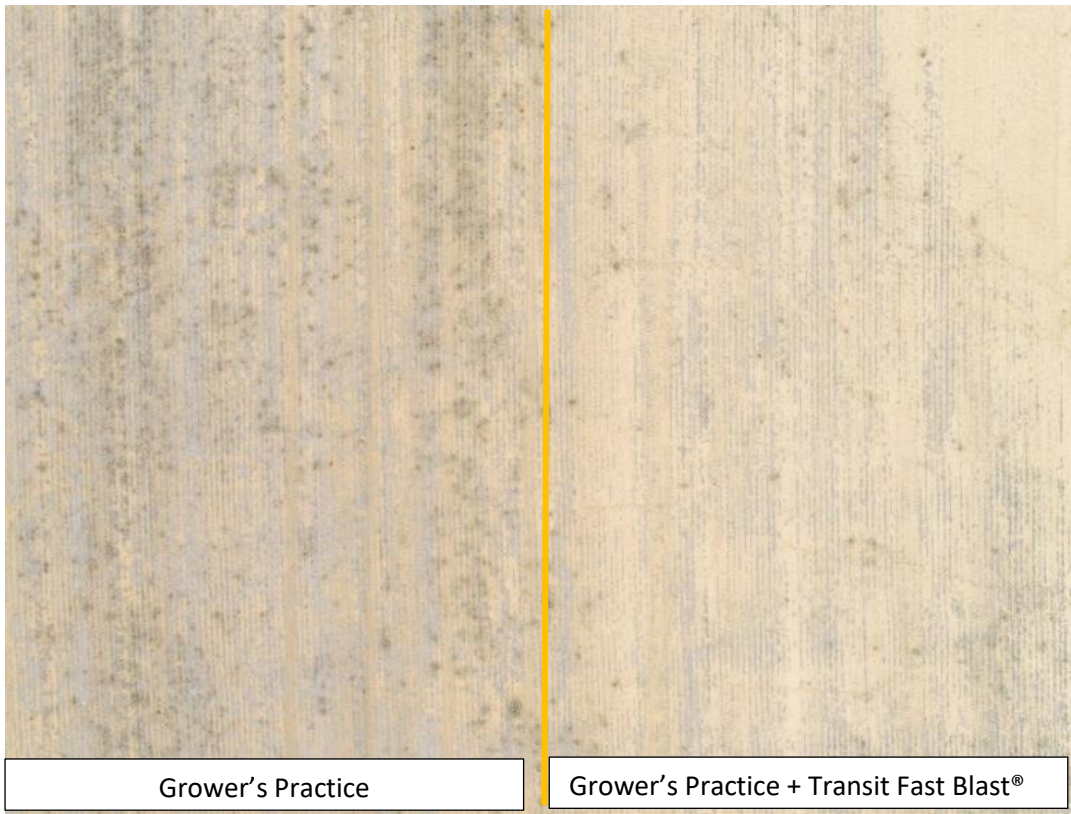


Figure 2: Aerial drone images of the field treated with grower's practice and growers' practice + Transit Fast Blast®.

## **5. Conclusion**

Based on the results, it can be concluded that adding Transit Fast Blast® is advantageous in improving knock down effects of weeds and therefore it is beneficial in controlling weeds.