

Optical Spot Spraying Technology WEED-IT Quadro: 2021 Evaluation

Evaluate different modes of the WEED-IT Quadro's performance in real pre-seed spraying field conditions.

Method:

- 4 treatments
 (untreated, spot spray, dual mode, full spray)
- 2 fields
- 4 replicates
- 0.44 acres replication size

Equipment Settings

Target rate: Spot spraying: 7.5 gallons/acre

Bias: 7.5 gallons/acre (spot) + 5 gallons/acre (cover)

Full cover: 7.5 gallons/acre

Pressure: 45 psi

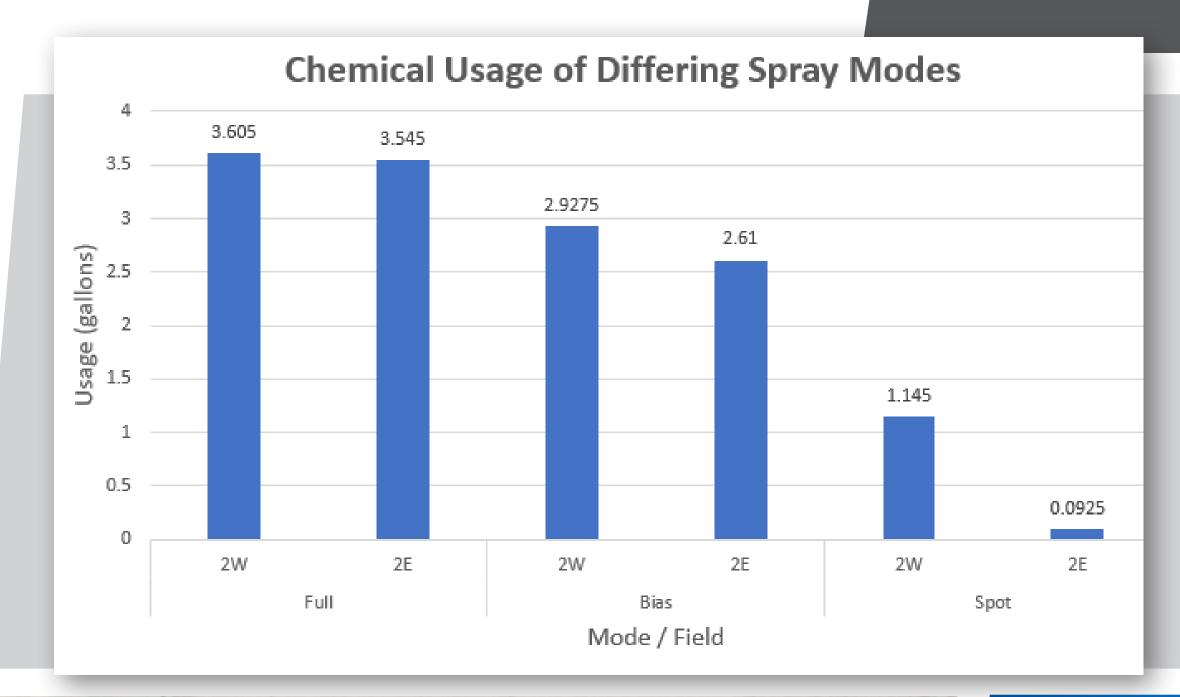
Speed: 11 km/hr

Nozzle: TeeJet TP 40-02

Margin: 100 mm

WEED-IT sensitivity: #7

Results



The remainder of the field outside the trial was treated in spot spray mode using the same settings as the trial resulting in **85.6%** chemical use reduction.





Future Research:

Canola Stubble Field Trial

Purpose: Evaluate WEED-IT Quadro's ability to distinguish weeds from canola stubble in the spring, and study the effects of the different application types on yield.