

Crop Research



- Evaluate functionality and performance of WEED-IT Spot spraying technology

i Method

- Fields = 2(2E & 2W)
- Zones = 4 (based on historical yield maps)
- Pre-seed Spray Treatments = 4
 - Full spray mode
 - Bias spray mode
 - Spot spray mode
 - Control (no pre-seed) herbicide application)
- Crops = 2
 - Canola seeded in barley stubble/ residue (2021)
 - Barley seeded in canola stubble/ residue (2022)

Q Results

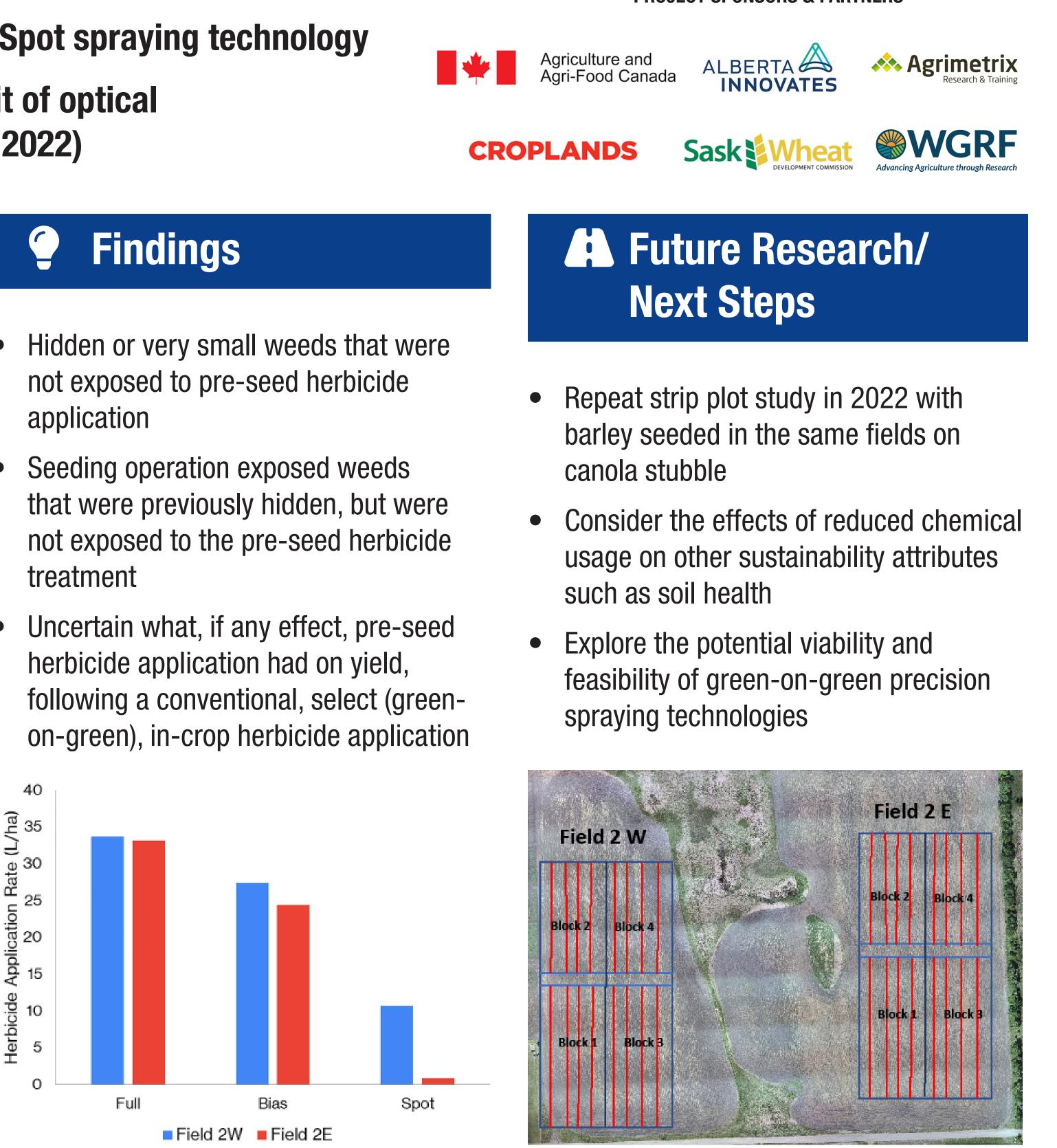
- Up to 97% chemical application reduction in Spot mode
- Up to 26% chemical application reduction in Bias mode
- Apparently, pre-seed spray treatments did not have a significant effect on yield
- Compared to the other spray mode treatments, profit-loss ratio was highest when WEED-IT was operated in Spot spray mode

Performance & Cost Benefit of Optical Spot Spraying Technologies in Conventional, Dryland Farming in Western Canada

Assess the practicality as well as the economic benefit of spot spray technology

Determine the total economic and agronomic benefit of optical spot spraying technology for Western Canada (2021 & 2022)

- Hidden or very small weeds that were not exposed to pre-seed herbicide application
- Seeding operation exposed weeds treatment
- Uncertain what, if any effect, pre-seed herbicide application had on yield,





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