

**Project No.:** YP1/05

**Project Title:** Agronomic benefits of inter-row sowing with 2 cm autosteer systems

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### **Executive Summary**

Farmers in SA and interstate have rapidly adopted Global Positioning System (GPS) technology for guidance and autosteer with varying levels of accuracy (2 to 30cm). The major aim of this project was to determine the potential gains in production and profit from inter row sowing with high accuracy 2cm RTK autosteer systems. It was found that farmers may profit from inter row sowing via,

- Increased production (wheat, lentils, canola) of 0.2 to 0.4 t/ha in stubble retained systems
- Reduced costs with less stubble management (\$10-25/ha)
- Increased herbicide efficacy of soil applied products in stubble retained systems
- Reduced sowing problems and improved crop establishment with inter row sowing in retained stubbles when compared to random sowing in retained stubble.

Project outcomes have been extensively communicated to industry and adoption of inter row sowing by farmers will significantly increase over the next 10 years. Inter row sowing is a technique that is likely to be adopted by no-till farmers. It is estimated that 10% of no-till farmers are currently inter row sowing which represents 5% of the cropped area in South Australia.