

KIT 1.6

Reduce the impacts of water repellence, compaction, hard-pans and other barriers to the capture and storage of water in soils.



Impact	Growers have access to management options that optimise the capture and storage of available water to improve yield.
Summary	<ul style="list-style-type: none">• Growers and their advisers understand the impact of soil constraints on the capture and storage of water.• Growers have access to knowledge and tools to address identified constraints on the capture and storage of water in soils.• Growers have the tools to financially analyse the costs and potential returns of investment in addressing those constraints.

SCOPE

INVESTMENT OUTCOMES

Understanding of soil constraints

Improved soil constraint diagnosis options and tools are identified and developed.

The mechanisms by which soil constraints impact the capture and storage of water are better understood.



1.6.1 Growers have access to field diagnostic tools that efficiently and effectively measure the severity of soil constraints impacting water capture and storage.

1.6.2 Growers understand the causes of soil compaction, water repellence and other constraints impacting water capture and storage at farm level.

Options to overcome soil constraints

Options to overcome soil constraints that impact water capture and storage are identified and developed.



1.6.3 Growers understand the available options to overcome soil constraints impacting the capture and storage of water.

1.6.4 Researchers develop new tools for addressing identified soil constraints on farm.

Integration of solutions to soil constraints in farming systems

The enduring economic implications and risks of different options to overcome constraints on the capture and storage of water in soils are better understood.



1.6.5 Growers have access to tools to assess the enduring economic impacts (including trade-offs) and risks of different options to overcome soil constraints that impact the capture and storage of water.

1.6.6 Growers have access to crop types and farming systems to optimise yield and profitability on soils where the constraints that adversely impact the capture and storage of water have been overcome.