

KIT 1.7

Reduce the impacts of soil salinity and sodicity on plant water uptake to improve grain yield and stability.



Impact	Growers are able to correctly identify soil salinity and sodicity constraints that impact yield and have access to cost-effective options for reducing the impact of those constraints.
Summary	<ul style="list-style-type: none">• Growers understand the impact of saline and sodic soil constraints on yield and yield stability.• Growers have access to cost-effective management options for saline and sodic soil constraints.• Growers understand the whole-of-farm business implications of implementing management options to overcome those constraints.

SCOPE

INVESTMENT OUTCOMES

Understanding of saline and sodic soil constraints

Improved salinity and sodicity diagnosis options and tools are identified and developed.

The mechanisms by which salinity and sodicity impact yield and yield stability are better understood.



1.71 Growers and researchers have access to field diagnostic tools that efficiently and effectively estimate the severity of salinity and sodicity and their impacts on yield and yield stability.

1.72 Growers and researchers have knowledge of the causes of salinity and sodicity and their impact on yield and yield stability.

Management options for salinity and sodicity

Management options to raise yield in saline and sodic soils are identified and developed.



1.73 Growers understand current options to overcome salinity and sodicity.

1.74 Growers have access to new cost-effective and novel options for dealing with salinity and sodicity.

Integration of solutions to salinity and sodicity in farming systems

The enduring economic implications and risks of different options to overcome salinity and sodicity in a whole-of-farm business context are better understood.



1.75 Growers have knowledge of the enduring economic benefits and risks of different options to overcome salinity and sodicity.

1.76 Growers have access to tools to assess the whole-of-farm business impact (including on capital value) and risks of different options to overcome salinity and sodicity.

1.77 Growers have access to crop types and farming systems to optimise yield and profitability on soils where salinity and sodicity constraints have been addressed.