

Long-term effects of conservation tillage on canola productivity and soil nutrient stratification

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Biography

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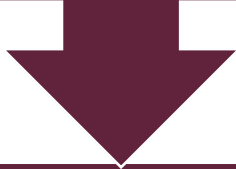
Agronomy Department

Research focus

Conservation Agriculture Systems



Long-term conservation tillage promotes nutrient stratification, which limits phosphorus availability and impacts crop productivity



This research determines how long it takes for stratification to be evident under conservation tillage systems and how it affect scanola productivity



Through evaluation of historical data and greenhouse experiments

Key Findings and Current Progress

Key findings

- Greater phosphorus stratification occurs under **no-tillage and zero-tillage practices**



Current research focus

- How long does it take for P stratification to be evident in conservation systems?
- Is canola affected by P stratification?

Research Relevance

Provides evidence on whether canola is sensitive to phosphorus stratification or not



Provides practical strategies to mitigate stratification



Contributes to sustainable grain and protein crop production in South Africa