



Soil Tillage Systems and Wheat Yield under Climate Change

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Message from the Guest Editor

Nowadays, the adoption of sustainable agricultural practices has become necessary. The processes of land conversion and agricultural intensification are a significant cause of soil quality loss.

With the aim of determining the capacity of different soil tillage system in soil conservation, productivity, and energy efficiency as a positive action toward climate changing adaptation, the scope of this section is to assess which tillage techniques could be considered as an adaptation to field management in global climate change scenarios (CCSs). For this, the effects of different main preparatory tillage can be assessed in terms of their influence on the function of soil water content and clay content: these techniques include ploughing and harrowing to different depths as well as different conservation tillage practices (minimum and no-tillage). The effect of the adopted tillage system would be quantified in terms of wheat/crop yield together with certain soil properties (texture, SOC, porosity, soil water infiltration, structural stability, cone index, shear strength, etc.) and machine performance.





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