



Site-Specific Nutrient Management

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Message from the Guest Editor

Dear Colleagues,

The concept known as site-specific nutrient management (SSNM) is a set of principles applied for solving two key groups of challenges for farmers. The first is to recognize a set of factors responsible for yield gap build-up on the field. The second one, directly resulting from the first, is to indicate agronomic measures that allow the existing yield gap to be covered.

The concept of site-specific nutrient management can be successful provided there is a recognition of a set of factors responsible for:

- The in-season variability in the requirement of the crop for nutrients, with special attention to stages decisive for the development of yield components;
- Temporal and spatial variability of the available N content in the soil zone rooted by the crop plant during critical stages of the development of yield components;
- Temporal and spatial variability of the nutrient contents balancing N supply in the soil zone rooted by the crop plant;
- Synchronization of the in-season requirements of the crop for nutrients with their supply from both soil and applied fertilizers.





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