Special Issue

Increasing Resilience in Agricultural Systems

Message from the Guest Editor

Designing food production systems that are stable and resilient in the face of changing climate while promoting farmer profitability, and delivering multiple ecosystem services is the greatest challenge in Agricultural Science. Stability refers to system performance in the face of normal variability while resilience refers to system performance under significant perturbations or crises, like droughts or floods. Resilience, comprises two complementary features: the ability to withstand a crisis (resistance) and the ability to recover from it (recovery). This special issue of Agronomy seeks to explore how to increase stability and resilience at multiple agroecological levels, from crop cultivars, crop species combinations, cropping systems, and farming systems. We seek contributions that address some of the following questions: 1) Which traits or features of agricultural systems make them more stable or resilient? 2) Which management practices can increase stability or resilience? 3) What genetic, physiological, or ecological mechanisms can explain the stability or resilience performance?

Guest Editor

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