

Special Issue

Integrated Weed Management Systems

Message from the Guest Editors

The sustainability of weed management in production agriculture and specialty crop systems continues to be challenged by troublesome and herbicide-resistant weeds. In cropping systems ranging from cotton, corn, pulses and peanut, specialty crops and vineyards, weed management decisions are increasingly complex, while traditional solutions are unsustainable or provide unsatisfactory weed control. Because of numerous weed control challenges in various systems around the world, the overuse of chemical weed control and conventional tillage practices increasingly negatively impact within-farm and off-farm soil and water quality. A paradigm shift integrating conservation systems, herbicidal or alternative/organic weed control, and alternative cultural weed control needs to occur in order to meet the food, fiber, and product quantity, quality, and sustainability demands of today's consumers and markets. Out-of-the-box weed management solutions are the key to protecting both crop yield and production sustainability.

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