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Borer Population Dynamics and Movements; Chapter 11. Geographic Information Systems in Corn Rootworm Management
Chapter 12. Improving Surveillance for Invasive Plants: A GIS Toolbox for Surveillance Decision Support
Chapter 13. Tracking Invasive Weed Species in Rangeland Using Probability Functions to Identify Site-Specific Boundaries: A Case Study Using Yellow Starthistle; Chapter 14. Using GIS to Map and Manage Weeds in Field Crops; Chapter 15. Adapting Geostatistics to Analyze Spatial and Temporal Trends in Weed Populations; Chapter 16. Using GIS to Investigate Weed Shifts after Two Cycles of a Corn/Soybean Rotation; Chapter 17. Creating and Using Weed Maps for Site-Specific Management; Back cover

Sommario/riassunto

While many "alien" plant and animal species are purposefully introduced into new areas as ornamentals, livestock, crops, and even pets, these species can escape into other areas and threaten agricultural and native ecosystems causing economic and environmental harm, or harm to human health. Increasingly, scientists are using Geographic Information Systems (GIS) to track and manage the invaders, mitigate the potential rate of spread and level of impact, and protect the native economy and ecosystem. Beginning with an introduction to the use of GIS technology to capture, store,
