

INSECT RESISTANCE MANAGEMENT FOR CORN

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Corn insects have the capability to evolve resistance to insecticides, transgenic insecticidal corn, and crop rotation. The western corn rootworm is the poster pest for resistance evolution. I will present general arguments for resistance management, explain the likely reasons for resistance evolution by the rootworm in the past, and discuss future insect-resistance management (IRM) strategies for rootworm and corn borer. Effective IRM depends upon good IPM, adequate coordination and compliance amongst corn growers, consultants, and extension specialists, and a preventative/proactive approach. In essence, good IRM is IPM that is successful over a large region and remains effective for a decade or more.

Reference

Onstad, D.W. 2008. Insect resistance management: Biology, economics and prediction. Academic Press. 305 p.

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