



LEOPOLD CENTER
FOR SUSTAINABLE AGRICULTURE

Completed Competitive Grant

An automated mechanical intra-row weed removal system for vegetable crops

Project ID: M2009-23

Abstract

This was the original project description: The goal of this project is to develop a practical mechanical intra-row weed control solution for automatically removing weeds from vegetable crops for small and mid-scale Iowa growers. Investigators will explore an optical sensing system and a mechanism to remove weeds with minimal soil disturbance, crop damage and energy input. The project also will demonstrate the effectiveness and economic viability of the system.

Lead investigator: Lie Tang, ISU Agricultural and Biosystems Engineering

Year of grant completion: 2014

This competitive grant project was part of the Leopold Center's Marketing Initiative.

Topics: Fruit and vegetables, Weed control alternatives (not GMOs)

RELATED INFORMATION

This investigator has never turned in a final report on research conducted in 2009 and 2010 with \$54,645 of Leopold Center funds. If there are questions about the project, please contact the investigator, lietang@iastate.edu.

[Newsletter article](#) about this project

See continuing work on this project: [M2012-24](#)

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