

2014

Field evaluation and system improvement of a semi-automated mechanical intra-row weeder for vegetable crops

Lie Tang

Iowa State University, lietang@iastate.edu

Kathleen Delate

Iowa State University, kdelate@iastate.edu

Follow this and additional works at: http://lib.dr.iastate.edu/leopold_grantreports



Part of the [Agronomy and Crop Sciences Commons](#), [Bioresource and Agricultural Engineering Commons](#), [Horticulture Commons](#), and the [Weed Science Commons](#)

Recommended Citation

Tang, Lie and Delate, Kathleen, "Field evaluation and system improvement of a semi-automated mechanical intra-row weeder for vegetable crops" (2014). *Leopold Center Completed Grant Reports*. 459.

http://lib.dr.iastate.edu/leopold_grantreports/459

This Article is brought to you for free and open access by the Leopold Center for Sustainable Agriculture at Iowa State University Digital Repository. It has been accepted for inclusion in Leopold Center Completed Grant Reports by an authorized administrator of Iowa State University Digital Repository. For more information, please contact digirep@iastate.edu.

Field evaluation and system improvement of a semi-automated mechanical intra-row weeder for vegetable crops

Abstract

This was the original project description: This is an expansion of a previous Leopold Center competitive grant (M2009-23), which supported the development of a basic semi-automated mechanical intra-row weed removal system for vegetable crops. The investigators will conduct field trials to evaluate and improve the prototype.

Keywords

Agricultural and Biosystems Engineering, Agronomy, Horticulture, Weed control alternatives

Disciplines

Agronomy and Crop Sciences | Bioresource and Agricultural Engineering | Horticulture | Weed Science



LEOPOLD CENTER
FOR SUSTAINABLE AGRICULTURE

Completed Competitive Grant

Field evaluation and system improvement of a semi-automated mechanical intra-row weeder for vegetable crops

Project ID: M2012-24

Abstract

This was the original project description: This is an expansion of a previous Leopold Center competitive grant (M2009-23), which supported the development of a basic semi-automated mechanical intra-row weed removal system for vegetable crops. The investigators will conduct field trials to evaluate and improve the prototype.

Lead investigator: Lie Tang, ISU Agricultural and Biosystems Engineering

Co-Investigator(s):

Kathleen Delate, ISU Horticulture and Agronomy

Year of grant completion: 2014

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

Topics: Weed control alternatives (not GMOs)

RELATED INFORMATION

This investigator has never turned in a final report on research conducted in 2012 with \$7,008 of Leopold Center funds. If there are questions about the project, please contact the investigator, lietang@iastate.edu.

[Newsletter article](#) about Tang's [2009 grant](#)

Leopold Center for Sustainable Agriculture | Ames, Iowa 50011 | (515) 294-3711 | leocenter@iastate.edu

College of Agriculture and Life Sciences | [Sitemap](#)

The Leopold Center was established by the 1987 Iowa Groundwater Protection Act as a research and education center at Iowa State University to develop sustainable agricultural practices that are both profitable and conserve natural resources. Iowa State does not discriminate on the basis of race, color, age, religion, national origin, sexual orientation, sex, marital status, disability, or status as a U.S. Vietnam Era Veteran. Any persons having inquiries concerning this may contact the Director of Affirmative Action, 3210 Beardshear Hall, (515) 294-7612.

This page was found at <http://www.leopold.iastate.edu/grants/m2012-24> on 02/09/2016