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Greenhouse production of high-value crops in an aquaponic system

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Greenhouse production of high-value crops in an aquaponic system

Abstract

This project evaluates the long-term practicality of the aquaponic enterprise for economic and environmental sustainability. The investigator is comparing three types of plant-growing materials (rock wool, pea gravel and floating rafts) in a recirculating aquaponic system to grow basil, lettuce and Nile tilapia. Future plans include use of native yellow perch in the system rather than the non-native tilapia.

Keywords

Aquaculture, Fruit and vegetables

Disciplines

Aquaculture and Fisheries | Horticulture



LEOPOLD CENTER
FOR SUSTAINABLE AGRICULTURE

Completed Special Project

Greenhouse production of high-value crops in an aquaponic system

Project ID: XPSP2013-01

Abstract

This project evaluates the long-term practicality of the aquaponic enterprise for economic and environmental sustainability. The investigator is comparing three types of plant-growing materials (rock wool, pea gravel and floating rafts) in a recirculating aquaponic system to grow basil, lettuce and Nile tilapia. Future plans include use of native yellow perch in the system rather than the non-native tilapia.

Lead investigator: D. Allen Pattillo, Iowa State University Natural Resource Ecology Management

Year of grant completion: 2014

This special project was part of the Leopold Center's Cross-Cutting Initiative.

Topics: Aquaculture, Fruit and vegetables

RELATED INFORMATION

This was a special project and has no final report. Contact the lead investigator at pattillo@iastate.edu for more information. Work is continuing under [this competitive grant project](#).

Patillo presented a [one-hour webinar](#) on this topic for eXtension.org [Nov. 14, 2013]. He also contributed to this national report in *Farm Journal*, [Serious about seafood](#) [Nov. 9, 2013].

[Watch this Market to Market report](#) that aired on Iowa Public Television [September 2013].

[See photo of the first crop](#) and a [photo](#) of the fish he's raising. See a [Spring 2013 newsletter article](#).

See photo gallery, [Aquaponics Grows High-Value Crops](#)

[Marketing Aquaculture Products](#) [PDF] on the North Central Regional Aquaculture Center website