





# WOSOBA FARMS HOPS

Carla Wosoba, Owner & Operator

3404 83rd Ave Baldwin, Iowa

(563) 451-7590 wosobafarmshops@gmail.com

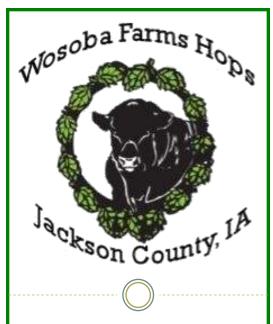
Sustainably grown quality lowa hops for quality craft beer.



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## PROJECT

Developing Effective Alternative Pest and Disease Management Strategies for Sustainable Hop Production

### GOALS

Reduce the use of chemicals in controlling insects that damage hops, as well as hop diseases Downy Mildew and Powdery Mildew

### RESULTS

- Chickens are effective in eliminating grass and weeds as well as some insects
- Lady bugs and green lacewings help to control hop pests such as hop flea beetles, aphids, and leaf hoppers
- Beneficial nematodes did not impact Japanese beetle populations as hoped
- Did not see any impact on downy mildew

### MOVING FORWARD

- Continue using chickens and beneficial insects as pest control
- Plant additional attractant plants at the ends of each row under the cables
- Use fungicides to prevent Downy Mildew and Powdery Mildew (plan to use all organic spray)
- Acquire and implement a specialized hops harvester



# RESOURCES

### **PLANTS**

Gurney's Seed & Nursery www.gurneys.com

Lowe's Home Improvement www.lowes.com

New Pioneer Food Coop www.newpi.coop

Thyme Garden Herb Co. www.thymegarden.com

#### **INSECTS**

Buglogical Control Systems www.buglogical.com

Arbico Organics www.arbico-organics.com

### **CHICKENS**

Murray Mcmurray Hatchery www.mcmurrayhatchery.com

Schlecht Hatchery www.schlechthatchery.com

### **EQUIPMENT**

Hops Harvester www.hopsharvester.com