

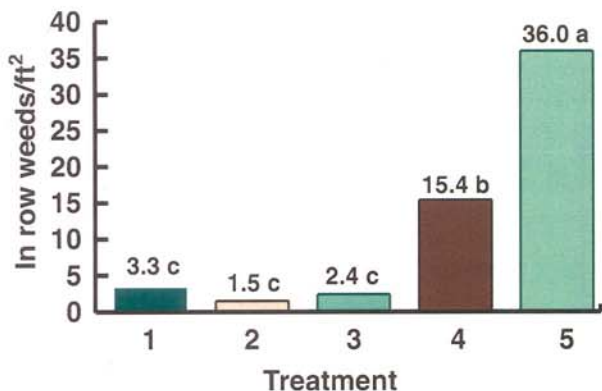
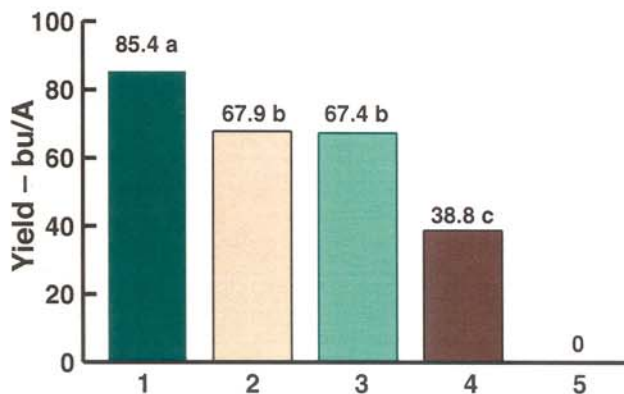


Weed control strategies in an organic corn system

County: Kalamazoo
 Cooperator: KBS
 Nearest town: Hickory Corners
 Soil type: Kalamazoo sandy loam
 Tillage: Conventional
 Previous crop: Wheat w/red clover cover crop
 Fertilizer: none
 Herbicide: none
 Row width: 30-inch
 Hybrid: NC+ Organics
 Plant pop.: 30,000
 Harvest date: 11/10/03

Purpose

Evaluate four weed control strategies for organic corn production.



Results

Corn yield was significantly higher using the rotary hoe method for weed control, as compared to other treatments. Both flaming and Lely weeder treatments resulted in significantly higher yields as compared to banding vinegar. The control, no weed control, resulted in an unharvestable treatment. All treatments reduced weed populations compared to the control. Both rotary hoeing and Lely weeder decreased corn population significantly.

Treatments	Yield bu/A	Plant population after treatment Plants/A	In row weeds after treatments Weeds/ft ²
1. Rotary hoe (3X)	85.4 a	17830 b	3.3 c
2. Lely weeder (3X)	67.9 b	12420 c	1.5 c
3. Flaming	67.4 b	21920 a	2.4 c
4. Banded vinegar (1X, 15%, 20 gal/A)	38.8 c	22500 a	15.4 b
5. Control, 1 cultivation (July 14)		21580 a	36.0 a
LSD @0.05	14.03	2004	7.5

For more information

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