

Pumpkin Weed Management Study.

Project Code: 03-Freeburg-pum Location: Freebug, IL

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 10-28-03

Objective:

Evaluate crop response and weed control from herbicides in 'Autumn King' pumpkin.

Weed Code Common Name Scientific Name
 1. TTTTTT weeds, generally

Crop 1: CUUPE pumpkin Variety: Autumn King
 Planting Method: Seeded Planting Date: 7-3-03
 Rate: 0.25 S/ROW-FT Depth: 2.0 IN
 Row Spacing: 60 IN

Plot Width, Unit: 5 FT Plot Length, Unit: 20 FT Reps: 4
 Tillage Type: Reduced-Till Study Design: Randomized complete block

Field Prep./Maintenance: N 118 LB/A, P205 118 LB/A, K20 118 LB/A applied April 15, and
 N 118 LB/A, P205 118 LB/A, K20 118 LB/A applied at planting, and
 Sidedress 900 lb/A CaNO3 when vines start to run.

APPLICATION DESCRIPTION

A

Application Date: 7-3-03
 Application Method: Spray
 Application Timing: PRE
 Applic. Placement: BROS0I

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: CUUPE NA
 Height, Unit: NA NA

APPLICATION EQUIPMENT

A

Appl. Equipment: CO2 sprayer
 Operating Pressure: 40 PSI
 Nozzle Type: Flat fan
 Nozzle Size: 8003
 Boom Length, Unit: 5 FT
 Spray Volume, Unit: 20 GPA

NOTES:

Not harvested.

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Weed Code	TTTT	TTTT	TTTT	TTTT
Crop Code				
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Date	7-17-03	7-31-03	8-28-03	9-25-03
Trt-Eval Interval	14 DA-A	28 DA-A	56 DA-A	84 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	TTTT	TTTT	TTTT	TTTT
1	STRATEGY	2.1	EC	1.313	LB A/A	2.5	QT/A	PRE	A	73	69	56	31
2	STRATEGY	2.1	EC	1.575	LB A/A	3	QT/A	PRE	A	75	70	63	33
3	STRATEGY	2.1	EC	1.313	LB A/A	2.5	QT/A	PRE	A	85	78	64	59
3	SANDEA	75	WG	0.031	LB A/A	0.66	OZ/A	PRE	A				
4	STRATEGY	2.1	EC	1.313	LB A/A	2.5	QT/A	PRE	A	88	85	80	66
4	RAPTOR	1	AS	0.036	LB A/A	4.6	OZ/A	PRE	A				
5	HANDWEED									100	100	100	100
6	NONTREATED									0	0	0	0
LSD (P=.05)										8.7	9.7	14.6	7.7
Replicate F										1.500	0.960	1.221	3.628
Replicate Prob(F)										0.2550	0.4371	0.3366	0.0378
Treatment F										152.700	115.858	47.718	181.686
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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Trial Comments

1. Protocol: SIU - SAW.
2. Ratings: Cl, Stunt and WC at 14, 28 and 56 DAP as well as at first harvest; Yield, 2 harvests, count and weigh.
3. Burndown with 2% glyphosate (June 15), direct seed (June 20), spray PRE herbicides (June 20).
4. DA-A = days after PRE application.
5. TTTTT = Weeds generally and included; horsenettle, giant foxtail, common cocklebur, crabgrass, pigweed species, and yellow nutsedge.
6. Yield was not recorded.