

Steadfast plus Yukon for Yellow Nutsedge Control.

Project Code: 03-2C-M30 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 9-3-03

Objective:

Evaluate efficacy of Steadfast plus Yukon on yellow nutsedge.

Weed Code	Common Name	Scientific Name
1. CYPES	nutsedge, yellow	Cyperus esculentus L.
2. SETFA	foxtail, giant	Setaria faberi Herrm.
3. AMATA	waterhemp, common	Amaranthus rudis Sauer

Crop 1: ZEAMX corn, field Variety: Pioneer 33P69LL
 Planting Method: Seeded Planting Date: 6-20-03
 Rate: 28000 S/A Depth: 1.5 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 28 FT Reps: 3
 Tillage Type: Reduced-Till Study Design: Randomized complete block
 Previous Crop, Year: GLXMA, 2002

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 150 LB/A

Soil Name: Weir % OM: 1.5 pH: 6.5 CEC: 8
 Texture: Silt loam Fert. Level: P1: 88 LB/A, K: 265 LB/A

APPLICATION DESCRIPTION

A

Application Date: 7-2-03
 Time of Day: 12:00
 Application Method: Spray
 Application Timing: 4-6"W
 Applic. Placement: BROFOL
 Air Temp., Unit: 88 F
 % Relative Humidity: 48
 Wind Velocity, Unit: 0 MPH

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: ZEAMX V2
 Height, Unit: 4 IN

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code: CYPES
 Stage(leaves): 4-8
 Height(inches): 4-8
 Density: Medium

Weed 2 Code: SETFA
 Stage(leaves): 2-5
 Height(inches): 3-7
 Density: High

Weed 3 Code: AMATA
 Stage(leaves): 3-6
 Height(inches): 3-6
 Density: High

APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 sprayer
Operating Pressure:	40 PSI
Nozzle Type:	Flat fan
Nozzle Size:	8002
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	20 GPA

NOTES:

Not harvested.

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Weed Code	CYPES	CYPES	CYPES	SETFA	SETFA	SETFA	AMATA	AMATA	AMATA
Crop Code	ZEAMX	ZEAMX	ZEAMX						
Rating Data Type	Injury	Injury	Injury	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	7-9-03	7-16-03	7-30-03	7-16-03	7-30-03	8-27-03	7-16-03	7-30-03	8-27-03
Trt-Eval Interval	7 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	56 DA-A	14 DA-A	28 DA-A	56 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code												
1	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	4-6"	W A	0	0	0	88	86	88	96	93	98	28	17	20
1	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	4-6"	W A												
1	28% UAN	100	LIQ	2	QT/A	2	QT/A	4-6"	W A												
2	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	4-6"	W A	0	0	0	88	87	88	96	93	97	33	45	48
2	YUKON	67.5	WG	0.084	LB A/A	2	OZ/A	4-6"	W A												
2	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	4-6"	W A												
2	28% UAN	100	LIQ	2	QT/A	2	QT/A	4-6"	W A												
3	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	4-6"	W A	0	0	0	89	89	92	94	94	98	47	47	47
3	YUKON	67.5	WG	0.169	LB A/A	4	OZ/A	4-6"	W A												
3	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	4-6"	W A												
3	28% UAN	100	LIQ	2	QT/A	2	QT/A	4-6"	W A												
4	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	4-6"	W A	0	0	0	86	84	83	93	92	96	25	23	17
4	PERMIT	75	WG	0.0155	LB A/A	0.33	OZ/A	4-6"	W A												
4	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	4-6"	W A												
4	28% UAN	100	LIQ	2	QT/A	2	QT/A	4-6"	W A												
5	STEADFAST	75	WG	0.035	LB A/A	0.75	OZ/A	4-6"	W A	0	0	0	83	86	83	95	93	97	25	15	7
5	PERMIT	75	WG	0.031	LB A/A	0.66	OZ/A	4-6"	W A												
5	PRIME OIL COC	100	LIQ	1	% V/V	1	% V/V	4-6"	W A												
5	28% UAN	100	LIQ	2	QT/A	2	QT/A	4-6"	W A												
6	NONTREATED									0	0	0	0	0	0	0	0	0	0	0	0
LSD (P=.05)										0.0	0.0	0.0	5.3	7.2	8.3	4.9	3.3	2.2	10.5	18.5	12.2
Replicate F										0.000	0.000	0.000	1.255	6.695	2.436	11.267	5.232	12.344	6.345	0.053	0.217
Replicate Prob(F)										1.0000	1.0000	1.0000	0.3264	0.0143	0.1374	0.0027	0.0279	0.0020	0.0166	0.9482	0.8083
Treatment F										0.000	0.000	0.000	451.633	240.833	182.372	619.221	1296.414	3326.570	21.118	9.615	27.460
Treatment Prob(F)										1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0014	0.0001

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Trial Comments

1. Protocol: DuPont.
2. Ratings: CI 7, 14 and 28 DAT; WC 14, 28 and 56 DAT.
3. Blanket application of Callisto after 28 DAT rating for control of late-season broadleaves.
4. This study was originally planned as 03-10B-E40.
5. DA-A = days after 4-6"W application.