

Preemergence Lumax and Camix Comparisons.

Project Code: 03-10B-ME80 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 11-19-03

Objective:

Evaluate Lumax and Camix with competitive standards in preemergence applications.

Weed Code	Common Name	Scientific Name
1.	GGGAN grasses, annual	
2.	AMATA waterhemp, common	Amaranthus rudis Sauer
3.	AMBTR ragweed, giant	Ambrosia trifida L.
4.	XANST cocklebur, common	Xanthium strumarium L.

Crop 1: ZEAMX corn, field Variety: Pioneer 33P69LL
 Planting Method: Seeded Planting Date: 6-19-03
 Rate: 28000 S/A Depth: 1.5 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 24 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: 1.6 pH: 6.3 CEC: 12
 Texture: Silt loam Fert. Level: P1: 82 LB/A, K: 274 LB/A

APPLICATION DESCRIPTION

A
 Application Date: 6-5-03
 Time of Day: 18:00
 Application Method: Spray
 Application Timing: PRE
 Applic. Placement: BROSOI
 Air Temp., Unit: 78 F
 % Relative Humidity: 34
 Wind Velocity, Unit: 0 MPH

CROP STAGE AT EACH APPLICATION

A
 Crop 1 Code, Stage: ZEAMX 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: 7.5 FT
 Spray Volume, Unit: 20 GPA

NOTES:

Harvested Nov-08-03, (2) 30 inch rows by 21 ft.

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Weed Code																	
Crop Code																	
Rating Data Type																	
Rating Unit																	
Rating Date																	
Trt-Eval Interval																	

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Yield bu/A	ZEAMX Injury Percent	ZEAMX Injury Percent	GGGAN Control Percent	GGGAN Control Percent	AMATA Control Percent	AMATA Control Percent	AMBTR Control Percent	AMBTR Control Percent	XANST Control Percent	XANST Control Percent
1	NONTREATED									30	0	0	0	0	0	0	0	0	0	0
2	LUMAX	3.94	L	2.46	LB A/A	2.5	QT/A	PRE	A	81	0	0	88	85	93	91	95	89	83	78
3	LUMAX	3.94	L	2.46	LB A/A	2.5	QT/A	PRE	A	111	0	0	89	87	91	90	95	93	93	90
3	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A											
4	LUMAX	3.94	L	2.46	LB A/A	2.5	QT/A	PRE	A	91	0	0	94	93	99	95	87	82	87	82
4	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A											
5	BICEP II MAGNUM	5.5	L	2.9	LB A/A	2.1	QT/A	PRE	A	90	0	0	97	92	97	92	95	83	89	85
6	HARNESS XTRA	5.6	L	3.4	LB A/A	2.44	QT/A	PRE	A	81	0	0	78	77	95	92	92	88	88	87
7	EPIC	58	WG	0.435	LB A/A	12	OZ/A	PRE	A	55	0	0	75	75	80	80	78	73	78	73
8	KEYSTONE	5.25	L	3.48	LB A/A	2.65	QT/A	PRE	A	70	0	0	85	83	83	83	82	78	65	58
9	KEYSTONE	5.25	L	3.48	LB A/A	2.65	QT/A	PRE	A	96	0	0	80	77	99	95	98	93	96	93
9	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	PRE	A											
10	KEYSTONE	5.25	L	1.7	LB A/A	1.3	QT/A	PRE	A	68	0	0	25	23	92	92	32	33	30	27
10	BALANCE PRO	4	SC	0.07	LB A/A	2.25	FL OZ/A	PRE	A											
11	GUARDSMAN MAX	5	L	2.5	LB A/A	2.0	QT/A	PRE	A	77	0	0	89	87	95	93	92	88	82	78
12	CAMIX	3.67	EC	1.84	LB A/A	2.0	QT/A	PRE	A	75	0	0	87	83	93	92	77	65	83	78
13	CAMIX	3.67	EC	1.84	LB A/A	2.0	QT/A	PRE	A	102	0	0	92	90	97	93	96	93	89	87
13	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A											
LSD (P=.05)										20.5	0.0	0.0	5.9	9.1	4.7	3.9	10.3	13.9	10.3	14.4
Replicate F										0.293	0.000	0.000	1.504	0.810	4.299	4.153	1.577	0.439	1.281	0.376
Replicate Prob(F)										0.7485	1.0000	1.0000	0.2425	0.4566	0.0254	0.0283	0.2274	0.6500	0.2962	0.6909
Treatment F										9.100	0.000	0.000	205.521	82.055	273.254	372.622	69.120	33.647	63.488	30.624
Treatment Prob(F)										0.0001	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Trial Comments

1. Protocol: Syngenta.
2. Ratings: ci 7 and 14 DAE, WC 28 and 56 DAE.
3. Yield.
4. DAE = days after emergence.