

Purdue University

2012/CORN/FAILED/STANDS/AUTHORITY MTZ DF/

Trial ID: 12S-THP-CTC-14	Protocol ID: 12S-THP-CTC-14
Location: Throckmorton	Study Director: White/Marquardt
Project ID: SULF.MULT.12.JPR.01	Investigator: Dr. Bill Johnson
	Sponsor Contact: FMC - Joe Reed

General Trial Information

Study Director: White/Marquardt
Investigator: Dr. Bill Johnson

Discipline: H herbicide

Personnel

Study Director: White/Marquardt
Investigator: Dr. Bill Johnson

Crop Description

Crop 1: ZEAMD Zea mays indentata	Dent corn
Variety: Pioneer P1018AM1	Description: HXX, LL, RR2
BBCH Scale: BCOR	

Site and Design

Plot Width, Unit: 10 FT	Site Type: FIELD field
Plot Length, Unit: 30 FT	Experimental Unit: 1 PLOT plot
Plot Area, Unit: 300 FT ²	Tillage Type: CONTIL conventional-till
Replications: 4	Study Design: RACOB� Randomized Complete Block (RCB)
	Untreated Arrangement: INCLUDED single control randomized in each block

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMD BCOR

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				ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR
				Zea mays inden>	Zea mays inden>	Zea mays inden>	Zea mays inden>	Zea mays inden>
Crop Code				Dent corn	Dent corn	Dent corn	Dent corn	Dent corn
BBCH Scale				5-30-2012	8-6-2012	6-21-2012	10-22-2012	10-22-2012
Crop Scientific Name							MOICON	YIELD
Crop Name							%	bu/ac
Rating Date								
Rating Type								
Rating Unit								
Number of Subsamples				1	1	1	1	1
Crop Stage Majority				v5	v6	v9		
Crop Stage Scale				BBCH	BBCH	BBCH		
Trt No.	Treatment Name	Rate	Appl Code	1	2	3	4	5
		Rate Unit						
1	Lexar (3.7 SC)	3.24 lb ai/a	A	0.0 c	0.0 b	0.0 b	20.488 a	54.63 c
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	C					
	AMS - Liquid	17 lb ai/100 gal	C					
2	Lexar (3.7 SC)	3.24 lb ai/a	A	17.5 bc	11.3 b	16.3 ab	19.795 a	75.50 bc
	AUTHORITY MTZ	5.5 oz/a	B					
	COC	1 % v/v	B					
	AMS - Liquid	2.5 lb ai/a	B					
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	C					
	AMS - Liquid	17 lb ai/100 gal	C					
3	Lexar (3.7 SC)	3.24 lb ai/a	A	25.0 b	15.0 b	3.3 b	20.780 a	111.18 ab
	AUTHORITY MTZ	12 oz/a	B					
	COC	1 % v/v	B					
	AMS - Liquid	2.5 lb ai/a	B					
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	C					
	AMS - Liquid	17 lb ai/100 gal	C					
4	Lexar (3.7 SC)	3.24 lb ai/a	A	0.0 c	0.0 b	0.0 b	19.633 a	108.68 ab
	ROUNDUP POWERMAX	22 oz/a	B					
	AMS - Liquid	2.5 lb ai/a	B					
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	C					
	AMS - Liquid	17 lb ai/100 gal	C					
5	Lexar (3.7 SC)	3.24 lb ai/a	A	20.0 bc	16.3 b	12.5 ab	19.548 a	96.85 ab
	LIBERTY	22 oz/a	B					
	AMS - Liquid	2.5 lb ai/a	B					
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	C					
	AMS - Liquid	17 lb ai/100 gal	C					
6	Lexar (3.7 SC)	3.24 lb ai/a	A	72.5 a	47.5 a	31.3 a	19.443 a	124.93 a
	GRAMOXONE INTEON	32 oz/a	B					
	COC	1 % v/v	B					
	AMS - Liquid	2.5 lb ai/a	B					
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	C					
	AMS - Liquid	17 lb ai/100 gal	C					
7	Lexar (3.7 SC)	3.24 lb ai/a	A	67.5 a	56.3 a	27.5 ab	21.553 a	122.03 ab
	AUTHORITY MTZ	5.5 oz/a	B					
	GRAMOXONE INTEON	32 oz/a	B					
	COC	1 % v/v	B					
	AMS - Liquid	2.5 lb ai/a	B					
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	C					
	AMS - Liquid	17 lb ai/100 gal	C					

Means followed by same letter do not significantly differ (P= .05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Crop Code BBCH Scale Crop Scientific Name	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR		
	Zea mays inden>	Zea mays inden>	Zea mays inden>	Zea mays inden>	Zea mays inden>		
Crop Name	Dent corn	Dent corn	Dent corn	Dent corn	Dent corn		
Rating Date	5-30-2012	8-6-2012	6-21-2012	10-22-2012	10-22-2012		
Rating Type				MOICON	YIELD		
Rating Unit				%	bu/ac		
Number of Subsamples	1	1	1	1	1		
Crop Stage Majority	v5	v6	v9				
Crop Stage Scale	BBCH	BBCH	BBCH				
Trt Treatment No. Name	Rate Rate Unit	Appl Code	1	2	3	4	5
8 Lexar (3.7 SC) AUTHORITY MTZ GRAMOXONE INTEON COC AMS - Liquid Roundup PowerMax 4.5 SL AMS - Liquid	3.24 lb ai/a 12 oz/a 32 oz/a 1 % v/v 2.5 lb ai/a 0.77 lb ae/a 17 lb ai/100 gal	A B B B B C C	62.5 a	66.3 a	37.5 a	21.495 a	113.00 ab
9 Lexar (3.7 SC) POAST PLUS AUTHORITY XL COC Roundup PowerMax 4.5 SL AMS - Liquid	3.24 lb ai/a 24 oz/a 5 oz/a 1 % v/v 0.77 lb ae/a 17 lb ai/100 gal	A B B B C C	72.5 a	67.5 a	36.3 a	20.218 a	82.28 abc
10 Lexar (3.7 SC) SELECT MAX AUTHORITY XL COC Roundup PowerMax 4.5 SL AMS - Liquid	3.24 lb ai/a 6 oz/a 5 oz/a 1 % v/v 0.77 lb ae/a 17 lb ai/100 gal	A B B B C C	63.8 a	61.3 a	36.3 a	19.935 a	82.75 abc
LSD (P=.05)			15.58	15.25	19.20	2.3033	29.536
Standard Deviation			10.74	10.51	13.23	1.5874	20.356
CV			26.76	30.8	65.91	7.82	20.95
Bartlett's X2			7.493	15.816	6.681	5.994	6.836
P(Bartlett's X2)			0.379	0.027*	0.463	0.741	0.654
Replicate F			1.827	0.338	0.456	0.369	2.306
Replicate Prob(F)			0.1660	0.7982	0.7150	0.7760	0.0993
Treatment F			31.891	28.523	5.504	0.953	5.016
Treatment Prob(F)			0.0001	0.0001	0.0003	0.4980	0.0005

Crop Code
ZEAMD, BCOR, Zea mays indentata, = US

Rating Type
MOICON = moisture content
YIELD = yield

Rating Unit
% = percent
bu/ac = bushels per acre

Crop Stage Scale
BBCH = BBCH uniform plant stages