

(04PREC1)

Ohio State University  
Horticulture and Crop Science

PRE CORN SAFETY TRIAL

Trial ID: 04PREC1                      Study Dir.: Anthony F. Dobbels  
Location: WESTERN BRANCH F-6        Investigator: Dr. Mark M. Loux

**GENERAL TRIAL INFORMATION**

Study Director: Anthony F. Dobbels  
Investigator: Dr. Mark M. Loux

Conducted Under GLP (Y/N): N                      Conducted Under GEP (Y/N): N

Crop 1: ZEAMX    CORN, FIELD                      Variety: DEKALKB 60-09 RR  
Planting Date: 4-20-04                      Planting Method: JOHN DEERE 7200  
Rate: 32097    SEED/A                      Depth: 1.5    IN  
Row Spacing: 30    IN                      Seed Bed: CONVENTIONAL

**SITE AND DESIGN**

Plot Width, Unit: 10    FT                      Plot Length, Unit: 40    FT                      Reps: 4  
Tillage Type: CONVENTIONAL                      Study Design: RANDOMIZED COMPLETE BLOCK

**MAINTENANCE**

Field Prep./Maintenance: APPLIED OVERLAY OF ROUNDUP WEATHERMAX AT 22 OZ/A ON 6-8-04

**SOIL DESCRIPTION**

% OM: 4.4                      Texture: silty clay loam  
pH: 6.2                      Soil Name: Kokomo  
CEC: 15

**APPLICATION DESCRIPTION**

A

Application Date: 4-20-04  
Time of Day: 3:00 P.M.  
Application Method: SPRAY  
Application Timing: PRE  
Applic. Placement: BROADCAST  
Air Temp., Unit: 60    F  
% Relative Humidity: 92  
Wind Velocity, Unit: 1    SE  
Soil Temp., Unit: 63    F  
Soil Moisture: MOIST/DRY  
% Cloud Cover: 100

**CROP STAGE AT EACH APPLICATION**

A

Crop 1 Code, Stage: ZEAMX

**APPLICATION EQUIPMENT**

A

Appl. Equipment: BACKPACK  
Operating Pressure: 50  
Nozzle Type: DG  
Nozzle Size: 11002  
Nozzle Spacing, Unit: 18    IN  
Ground Speed, Unit: 3    MPH  
Carrier: WATER  
Spray Volume, Unit: 20    GPA  
Propellant: CO2

Trt No                      Treatment Application Comment  
19                      LAST THREE REPS HAVE TWO APPLICATIONS OF 112 AND 113.

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Weed Code			
Crop Code	ZEAMX	ZEAMX	ZEAMX
Part Rated			
Rating Data Type	WEIGHT	MOISTURE	YIELD
Rating Unit	LBS	PERCENT	BU/ACRE
Rating Date	10-7-04	10-7-04	10-7-04
Crop Stage			
Trt-Eval Interval	HARVEST	HARVEST	HARVEST
ARM Action Codes			TY1
# Subsamples, Dec.	1	1	1

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	15	16	17
1	A14224	3.5 qt/a		PRE	A	51.3 a	14.9 a	201.0 a
2	A14224	7 qt/a		PRE	A	49.1 a	14.2 a	194.3 a
3	LUMAX	3 qt/a		PRE	A	52.8 a	14.4 a	207.9 a
4	LUMAX	6 qt/a		PRE	A	53.3 a	15.2 a	207.8 a
5	BICEP II MAGNUM	2.6 qt/a		PRE	A	52.1 a	15.2 a	203.3 a
6	BICEP II MAGNUM	5.2 qt/a		PRE	A	50.0 a	14.5 a	196.7 a
7	EPIC	15 oz/a		PRE	A	49.6 a	14.4 a	195.6 a
8	EPIC	30 oz/a		PRE	A	52.2 a	13.8 a	206.8 a
9	HARNESS XTRA 5.6	3 qt/a		PRE	A	48.8 a	13.5 a	194.3 a
10	HARNESS XTRA 5.6	6 qt/a		PRE	A	45.2 a	15.4 a	176.1 a
11	KEYSTONE	3.2 qt/a		PRE	A	48.8 a	14.5 a	192.2 a
12	KEYSTONE	6.4 qt/a		PRE	A	47.8 a	14.4 a	188.3 a
13	GUARDSMAN MAX	2.3 qt/a		PRE	A	48.3 a	14.9 a	189.4 a
14	GUARDSMAN MAX	4.6 qt/a		PRE	A	47.2 a	14.6 a	185.1 a
15	KEYSTONE	3.2 qt/a		PRE	A	49.1 a	14.6 a	193.0 a
15	HORNET WDG	3 oz/a		PRE				
16	KEYSTONE	6.4 qt/a		PRE	A	47.2 a	14.4 a	185.8 a
16	HORNET WDG	6 oz/a		PRE				

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Crop Stage			
Trt-Eval Interval	HARVEST	HARVEST	HARVEST
ARM Action Codes			TY1
# Subsamples, Dec.	1	1	1

Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	15	16	17
17	HARNESS XTRA 5.6	1.5	qt/a	PRE	A	50.7 a	13.7 a	201.4 a
17	BALANCE PRO	2.25	oz/a	PRE				
18	HARNESS XTRA 5.6	3	qt/a	PRE	A	45.4 a	14.3 a	178.7 a
18	BALANCE PRO	4.5	oz/a	PRE				
19	UTC					49.6 a	14.2 a	195.7 a
	LSD (P=.05)					5.52	1.42	21.37
	Standard Deviation					3.90	1.00	15.11
	CV					7.9	6.94	7.77
	Replicate F					30.809	0.990	32.939
	Replicate Prob(F)					0.0001	0.4043	0.0001
	Treatment F					1.394	0.966	1.468
	Treatment Prob(F)					0.1729	0.5100	0.1392

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Column 3: TY1 =  $3.889286 * [15] * (100 - [16]) / 84.5$