

Ohio State University  
Horticulture and Crop Science

Bayer Crop Science Two Pass Programs

Title No. 2:  
 Trial ID: 12CRNYLD2 Protocol ID: 12CRNYLD2  
 Location: Western Branch Big E Study Director: Anthony F. Dobbels  
 Project ID: HP12NARBLN Investigator: Dr. Mark M. Loux  
 Sponsor Contact: Dave Lamore, Bayer CropScience

General Trial Information

Study Director: Anthony F. Dobbels Title: Research Specialist  
 Investigator: Dr. Mark M. Loux Title: Professor

Trial Location

City: South Charleston Latitude of LL Corner °: 39.85778 N  
 State/Prov.: Ohio Longitude of LL Corner °: 83.67004 W  
 Postal Code: 45368  
 Country: USA

Crop Description

Crop 1: ZEAMX Zea mays Corn  
 Variety: Dekalb DKC 61-21 Description: RR/LL  
 BBCH Scale: BCOR Planting Date: Apr-19-2012  
 Planting Method: SEEDED seeded Rate, Unit: 32097 S/A  
 Depth, Unit: 2 IN  
 Row Spacing, Unit: 30 IN  
 Seed Bed: MEDIUM medium Soil Temperature, Unit: 56 F  
 Soil Moisture: GOOD good Emergence Date: May-4-2012  
 Harvested Width, Unit: 5 FT Harvested Length, Unit: 30 FT

Pest Description

Pest 1 Type: W Code: SETFA Setaria faberi  
 Common Name: Giant foxtail  
 Pest 2 Type: W Code: AMBTR Ambrosia trifida  
 Common Name: Giant ragweed  
 Pest 3 Type: W Code: CHEAL Chenopodium album  
 Common Name: Common lambsquarters  
 Pest 4 Type: W Code: ABUTH Abutilon theophrasti  
 Common Name: velvetleaf  
 Pest 5 Type: W Code: AMARE Amaranthus retroflexus  
 Common Name: Redroot pigweed  
 Pest 6 Type: W Code: POLPY Persicaria pensylvanica  
 Common Name: Pennsylvania smartweed

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 FT2 Tillage Type: CONTIL conventional-till  
 Replications: 4 Study Design: RACOB� Randomized Complete Block (RCB)  
 Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: Big E  
 % OM: 2.2 Texture: SICL silty clay loam  
 pH: 6.1 Soil Name: Kokomo  
 CEC: 14

Application Description

	A	B
Application Date:	Apr-19-2012	May-23-2012
Time of Day:	1:30 P.M.	9:00AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	MPO
Application Placement:	BROSOL	BROFOL
Air Temperature, Unit:	76 F	69 F
% Relative Humidity:	48	67
Wind Velocity, Unit:	2 MPH	2 MPH
Wind Direction:	N	NNE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	60 F	67 F
Soil Moisture:	GOOD	DRY
% Cloud Cover:	7	85
Next Rain Occurred On:	Apr-20-2012	May-31-2012

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:	14	100
Height, Unit:	12	IN
Height Minimum, Maximum:	12	12

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	12	100
Height, Unit:	1.5	IN
Height Minimum, Maximum:	1	2
Density, Unit:	39	M2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	11	100
Height, Unit:	1.5	IN
Height Minimum, Maximum:	1	2
Density, Unit:	19	M2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	14	100
Height, Unit:	1	IN
Height Minimum, Maximum:	1	1
Density, Unit:	62	M2
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:	14	100
Height, Unit:	2	IN
Height Minimum, Maximum:	2	2
Density, Unit:	1.3	M2
Pest 5 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:	14	100
Height, Unit:	0.75	IN
Height Minimum, Maximum:	0.5	1
Density, Unit:	70	M2
Pest 6 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:	12	100
Height, Unit:	0.75	IN
Height Minimum, Maximum:	0.5	1
Density, Unit:	10	M2

Application Equipment

	A	B
Appl. Equipment:	10 Foot Boom	10' AI XR
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Mix Size, Unit:	2 Liters	2 Liters
Propellant:	CO2	CO2

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Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	22	23	24
	1 UTC							12.2 b	19.7 b	59.9 c
2	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	51.5 a	26.9 a	229.5 ab
2	Atrazine	1 lb ai/a		1 qt/a		PRE				
2	Liberty	0.402 lb ai/a		22 oz/a		MPO	B			
2	Laudis	0.082 lb ai/a		3 oz/a		MPO				
2	Clarity	0.25 lb ai/a		8 oz/a		MPO				
2	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO				
3	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	50.2 a	26.1 a	226.1 ab
3	Atrazine	1 lb ai/a		1 qt/a		PRE				
3	Liberty	0.402 lb ai/a		22 oz/a		MPO	B			
3	Laudis	0.082 lb ai/a		3 oz/a		MPO				
3	Clarity	0.5 lb ai/a		16 oz/a		MPO				
3	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO				
4	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	53.6 a	24.5 a	247.2 a
4	Atrazine	1 lb ai/a		1 qt/a		PRE				
4	Liberty	0.402 lb ai/a		22 oz/a		MPO	B			
4	Capreno	0.082 lb ai/a		3 oz/a		MPO				
4	Clarity	0.25 lb ai/a		8 oz/a		MPO				
4	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO				
5	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	51.7 a	26.9 a	230.5 ab
5	Atrazine	1 lb ai/a		1 qt/a		PRE				
5	Liberty	0.402 lb ai/a		22 oz/a		MPO	B			
5	Capreno	0.082 lb ai/a		3 oz/a		MPO				
5	Clarity	0.5 lb ai/a		16 oz/a		MPO				
5	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO				
6	Lumax	1.48 lb ai/a		1.5 qt/a		PRE	A	49.8 a	26.2 a	225.0 ab
6	Halex GT	1.97 lb ai/a		3.6 pt/a		MPO	B			
6	NIS	0.25 % v/v		4.8 oz/a		MPO				
7	Surestart	1.06 lb ai/a		2 pt/a		PRE	A	48.4 a	27.2 a	215.0 b
7	Durango DMA	0.69 lb ae/a		22 oz/a		MPO	B			
7	Status	0.175 lb ai/a		5 oz/a		MPO				
7	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO				
8	Corvus	0.0616 lb ai/a		3 oz/a		PRE	A	53.4 a	26.1 a	240.6 ab
8	Atrazine	1 lb ai/a		1 qt/a		PRE				
8	Liberty	0.402 lb ai/a		22 oz/a		MPO	B			
8	Clarity	0.25 lb ai/a		8 oz/a		MPO				
8	N-PAK AMS	2.5 % v/v		1.5 qt/a		MPO				
	LSD (P=.05)							5.37	3.68	27.08
	Standard Deviation							3.65	2.50	18.41
	CV							7.87	9.84	8.8

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Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

MOICON = moisture content

Rating Unit

% = percent

BU = bushel

PLOT = total plot

YD2 = square yard

Plant-Eval Interval

153 DP-1 = 1 ZEAMX Apr-19-2012

ARM Action CodesTY1 =  $5.185714 * [22] * (100 - [23]) / 85$