

Ohio State University
Horticulture and Crop Science

Bayer One Pass Weed Control Systems Corn

Title No. 2:
 Trial ID: 12CRNYLD3 Protocol ID: 12CRNYLD3
 Location: Western Branch Big E Study Director: Anthony F. Dobbels
 Project ID: HP12NARBLM 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 °: 39.85767 N
 State/Prov.: Ohio Longitude of LL Corner °: 83.67005 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: AMARE Amaranthus retroflexus
 Common Name: Redroot pigweed
 Pest 4 Type: W Code: AMBEL Ambrosia artemisiifolia
 Common Name: Common ragweed
 Pest 5 Type: W Code: CHEAL Chenopodium album
 Common Name: Common lambsquarters
 Pest 6 Type: W Code: ABUTH Abutilon theophrasti
 Common Name: velvetleaf

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-10-2012
Time of Day:	1:30 P.M.	9:00am
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	EPOST
Application Placement:	BROSOL	BROFOL
Air Temperature, Unit:	76 F	53 f
% Relative Humidity:	48	55
Wind Velocity, Unit:	2 MPH	7 mph
Wind Direction:	N	WNW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	60 F	51 f
Soil Moisture:	GOOD	SLIWET
% Cloud Cover:	7	0
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:	3.5	in
Height Minimum, Maximum:	2	5

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	12	100
Height, Unit:	0.25	in
Height Minimum, Maximum:	0.25	0.25
Density, Unit:	84	m2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	13	100
Height, Unit:	1.5	in
Height Minimum, Maximum:	1	2
Density, Unit:	6	m2
Pest 3 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:	10	100
Height, Unit:	0.25	in
Height Minimum, Maximum:	0.25	0.25
Density, Unit:	159.6	m2
Pest 4 Code, Type, Scale:	AMBEL W	AMBEL W
Stage Majority, Percent:	12	100
Height, Unit:	0.5	in
Height Minimum, Maximum:	0.5	0.5
Density, Unit:	1	m2
Pest 5 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	12	100
Height, Unit:	0.25	in
Height Minimum, Maximum:	0.25	0.25
Density, Unit:	2.66	m2
Pest 6 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:	10	100
Height, Unit:	0.25	in
Height Minimum, Maximum:	0.25	0.25
Density, Unit:	2.66	m2

Application Equipment

	A	B
Appl. Equipment:	10 Foot Boom	10 Foot Boom
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	Other Rate	Other Rate	Growth Stage	Appl Code	31	32	33
	1 UTC						14.7 c	22.4 a	69.7 c
	2 Corvus	0.115 lb ai/a	5.6 oz/a		PRE	A	49.4 a	25.2 a	225.2 a
	2 Atrazine	1.5 lb ai/a	1.5 qt/a		PRE				
	3 Corvus	0.115 lb ai/a	5.6 oz/a		PRE	A	47.4 ab	28.0 a	207.6 ab
	3 Clarity	0.25 lb ai/a	0.5 pt/a		PRE				
	4 Capreno	0.081 lb ai/a	3 oz/a		EPO	B	40.8 b	25.5 a	185.2 b
	4 Atrazine	1 lb ai/a	2 pt/a		EPO				
	4 Roundup PowerMax	0.77 lb ae/a	22 oz/a		EPO				
	4 N-PAK AMS	2.5 % v/v	1.5 qt/a		EPO				
	5 Capreno	0.081 lb ai/a	3 oz/a		EPO	B	46.1 ab	27.1 a	205.8 ab
	5 Atrazine	1 lb ai/a	2 pt/a		EPO				
	5 Roundup PowerMax	0.77 lb ae/a	22 oz/a		EPO				
	5 Clarity	0.5 lb ai/a	1 pt/a		EPO				
	5 N-PAK AMS	2.5 % v/v	1.5 qt/a		EPO				
	6 Lexar	2.78 lb ai/a	3 qt/a		PRE	A	40.1 b	25.4 a	181.8 b
	7 Halex GT	1.97 lb ai/a	3.6 pt/a		EPO	B	42.5 ab	23.3 a	198.4 ab
	7 Atrazine	1 lb ai/a	2 pt/a		EPO				
	7 NIS	0.25 % v/v	4.8 oz/a		EPO				
	7 N-PAK AMS	2.5 % v/v	1.5 qt/a		EPO				
	8 Surestart	1.6 lb ai/a	3 pt/a		EPO	B	50.0 a	26.3 a	224.7 a
	8 Atrazine	1.5 lb ai/a	1.5 qt/a		EPO				
	8 Roundup PowerMax	0.77 lb ae/a	22 oz/a		EPO				
	8 N-PAK AMS	2.5 % v/v	1.5 qt/a		EPO				
	LSD (P=.05)						8.25	3.58	36.41
	Standard Deviation						5.61	2.43	24.76
	CV						13.55	9.59	13.22

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

MOICON = moisture content

Rating Unit

% = percent

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.