

Ohio State University Horticulture and Crop Science

Glyphosate Resistant Giant Ragweed Control in Corn

Trial ID: 09PRPOCCLK Protocol ID: 09PRPOCCLK
 Location: CLARKSBURG Study Director: Anthony F. Dobbels
 Project ID: 09PRPOCCLK Investigator: Dr. Mark M. Loux
 Sponsor Contact: BAYER,SYNGENTA,BASF,AMVAC

General Trial Information

Study Director: Anthony F. Dobbels **Title:** Research Associate
Investigator: Dr. Mark M. Loux

Trial Location

City: Clarksburg
State/Prov.: Ohio
Country: USA United States

Personnel

Study Director: Anthony F. Dobbels **Title:** Research Associate
Affiliation: The Ohio State University
Address: 7721 South Charleston Pike
Location: South Charleston OH
Postal Code: 45368 **E-mail:** dobbels.1@osu.edu
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 33W84 **Description:** RR/LL
BBCH Scale: BCOR **Planting Date:** 5/5/2009
Planting Method: SEEDED seeded **Rate, Unit:** 32000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: COARSE coarse
Soil Moisture: GOOD good

Site and Design

Plot Width, Unit: 10 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 300 FT²
Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)

Maintenance

No.	Date	Maintenance Treatment Name	Rate	Unit
1.	5/5/2009	Gramoxone Inteon	3.5	pt/a

Application Description

	A	B	C
Application Date:	5/5/2009		
Time of Day:	2:00 P.M.		
Application Method:	SPRAY		
Application Timing:	PRE		
Application Placement:	BROFOL		
Air Temperature, Unit:	71 F		
% Relative Humidity:	56		
Wind Velocity, Unit:	2 MPH		
Wind Direction:	N		
Dew Presence (Y/N):	N no		
Soil Temperature, Unit:	63 F		
Soil Moisture:	GOOD		
% Cloud Cover:	30		

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR

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Application Equipment

	A	B	C
Appl. Equipment:	BACKPACK		
Operating Pressure, Unit:	53	PSI	
Nozzle Type:	TEEJET DG		
Nozzle Size:	11002		
Nozzle Spacing, Unit:	18	IN	
Boom Length, Unit:	10	FT	
Boom Height, Unit:	20	IN	
Ground Speed, Unit:	3	MPH	
Carrier:	WATER		
Spray Volume, Unit:	20	GPA	
Mix Size, Unit:	3	L	
Propellant:	CO2		

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Trt No.	Treatment Type	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot No. Rep. 1	2	3	Notes
1	HERB	Integrity	5.6	SC	1.09	lb ai/a	25	oz/a	PRE	A	101	210	313	
	HERB	Atrazine	4	F	1.5	lb ai/a	1.5	qt/a	PRE					
2	HERB	Corvus	2.63	EC	0.115	lb ai/a	5.6	oz/a	PRE	A	102	207	304	
	HERB	Atrazine	4	F	1.5	lb ai/a	1.5	qt/a	PRE					
3	HERB	Balance Flexx	2	EC	0.094	lb ai/a	6	oz/a	PRE	A	103	205	307	
	HERB	Atrazine	4	F	1.5	lb ai/a	1.5	qt/a	PRE					
4	HERB	Dual II Magnum	7.64	EC	0.8	lb ai/a	0.84	pt/a	PRE	A	104	214	315	
5	HERB	Dual II Magnum	7.64	EC	0.8	lb ai/a	0.84	pt/a	PRE	A	105	213	309	
	HERB	Impact	2.8	SC	0.011	lb ai/a	0.503	oz/a	POST	C				
	HERB	Atrazine	4	F	0.5	lb ai/a	1	pt/a	POST					
	ADJ	MISO	100	L	1	% v/v	0.8	qt/a	POST					
	ADJ	28% UAN	100	L	2.5	% v/v	2	qt/a	POST					
6	HERB	Dual II Magnum	7.64	EC	0.8	lb ai/a	0.84	pt/a	PRE	A	106	208	311	
	HERB	Impact	2.8	SC	0.011	lb ai/a	0.503	oz/a	POST	C				
	HERB	Atrazine	4	F	0.5	lb ai/a	1	pt/a	POST					
	ADJ	MISO	100	L	1	% v/v	0.8	qt/a	POST					
	ADJ	28% UAN	100	L	2.5	% v/v	2	qt/a	POST					
7	HERB	Dual II Magnum	7.64	EC	0.8	lb ai/a	0.84	pt/a	PRE	A	107	202	310	
	HERB	Impact	2.8	SC	0.011	lb ai/a	0.503	oz/a	POST	C				
	HERB	Roundup WeatherMax	4.5	SL	0.77	lb ae/a	22	oz/a	POST					
	ADJ	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST					
8	HERB	Dual II Magnum	7.64	EC	0.8	lb ai/a	0.84	pt/a	PRE	A	108	211	314	
	HERB	Roundup WeatherMax	4.5	SL	0.77	lb ae/a	22	oz/a	POST	C				
	ADJ	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST					
9	HERB	Dual II Magnum	7.64	EC	0.8	lb ai/a	0.84	pt/a	PRE	A	109	215	308	
	HERB	Impact	2.8	SC	0.011	lb ai/a	0.503	oz/a	POST	C				
	HERB	Roundup WeatherMax	4.5	SL	0.387	lb ae/a	11	oz/a	POST					
	HERB	Atrazine	4	F	0.5	lb ai/a	1	pt/a	POST					
	ADJ	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST					
10	HERB	Integrity	5.6	SC	0.744	lb ai/a	17	oz/a	PRE	A	110	216	306	
	HERB	Roundup PowerMax	4.5	SL	0.77	lb ae/a	22	oz/a	POST	C				
	HERB	Status	56	WG	0.0875	lb ai/a	2.5	oz/a	POST					
	ADJ	NIS	100	SL	0.25	% v/v	6.4	oz/a	POST					
	ADJ	N-PAK AMS	100	L	5	% v/v	4	qt/a	POST					
11	HERB	A16907	3.7	SC	0.694	lb ai/a	24	oz/a	POST	B	111	203	305	
	HERB	Touchdown Total	4.17	SL	0.78	lb ae/a	24	oz/a	POST					
	ADJ	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST					
12	HERB	Laudis	3.5	SC	0.082	lb ai/a	3	oz/a	POST	B	112	204	301	
	HERB	Atrazine	4	F	0.5	lb ai/a	1	pt/a	POST					
	HERB	Touchdown Total	4.17	SL	0.78	lb ae/a	24	oz/a	POST					
	ADJ	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST					
13	HERB	Impact	2.8	SC	0.0164	lb ai/a	0.75	oz/a	POST	B	113	206	303	
	HERB	Atrazine	4	F	0.5	lb ai/a	1	pt/a	POST					

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Trt No.	Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot No. Rep. 1	2	3	Notes
	HERB	Touchdown Total	4.17	SL	0.78	lb ae/a	24	oz/a	POST					
	ADJ	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST					
14	HERB	Status	56	WG	0.175	lb ai/a	5	oz/a	POST	B	114	201	312	
	HERB	Atrazine	4	F	0.5	lb ai/a	1	pt/a	POST					
	HERB	Touchdown Total	4.17	SL	0.78	lb ae/a	24	oz/a	POST					
	ADJ	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST					
15	HERB	Capreno	3.46	SC	0.081	lb ai/a	3	oz/a	POST	B	115	212	316	
	HERB	Atrazine	4	F	0.5	lb ai/a	1	pt/a	POST					
	HERB	Touchdown Total	4.17	SL	0.78	lb ae/a	24	oz/a	POST					
	ADJ	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST					
16	CHK	Untreated Check									116	209	302	

Sort Order: Replicate 1