

Ohio State University  
Horticulture and Crop Science

PRE fb POST Weed Control in Corn II

Title No. 2: Dow Sales, Syngenta Sales HRDL02A4, Gowan YUK-RR-CORN-OH

Trial ID: 09PRPOC2

Protocol ID: 09PRPOC2

Location: WESTERN BRANCH Big E

Study Director: Anthony F. Dobbels

Project ID: 09PRPOC2

Investigator: Dr. Mark M. Loux

Sponsor Contact:

**General Trial Information**

**Study Director:** Anthony F. Dobbels **Title:** Research Associate

**Investigator:** Dr. Mark M. Loux

**Trial Location**

**City:** South Charleston

**State/Prov.:** Ohio

**Postal Code:** 45368

**Country:** USA

**Crop Description**

**Crop 1:** ZEAMX Zea mays

Corn

**Variety:** Seed Consultants 11HQ38

**Description:** RR/LL

**BBCH Scale:** BCOR

**Planting Date:** Apr-26-2009

**Planting Method:** SEEDED seeded

**Rate, Unit:** 32097 S/A

**Depth, Unit:** 1.5 IN

**Row Spacing, Unit:** 30 IN

**Seed Bed:** SMOOTH smooth

**Soil Moisture:** NORMAL normal

**Pest Description**

**Pest 1 Type:** W **Code:** SETFA *Setaria faberi*

**Common Name:** Giant foxtail

**Pest 2 Type:** W **Code:** AMARE *Amaranthus retroflexus*

**Common Name:** Redroot pigweed

**Pest 3 Type:** W **Code:** CHEAL *Chenopodium album*

**Common Name:** Common lambsquarters

**Pest 4 Type:** W **Code:** POLPY *Polygonum pensylvanicum*

**Common Name:** Pennsylvania smartweed

**Pest 5 Type:** W **Code:** SOLPT *Solanum ptycanthum*

**Common Name:** Eastern black nightshade

**Pest 6 Type:** W **Code:** AMBTR *Ambrosia trifida*

**Common Name:** Giant ragweed

**Site and Design**

**Plot Width, Unit:** 10 FT

**Plot Length, Unit:** 30 FT

**Plot Area, Unit:** 300 FT2 **Tillage Type:** CONTIL conventional-till

**Replications:** 4

**Study Design:** RACOB� Randomized Complete Block (RCB)

**Application Description**

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	A	B	C
<b>Application Date:</b>	Apr-27-2009	May-20-2009	Jun-5-2009
<b>Time of Day:</b>	7:30 AM	8:30 AM	8:00 AM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	PRE	EPO	POST
<b>Application Placement:</b>	BROFOL	BROFOL	BROFOL
<b>Air Temperature, Unit:</b>	67 F	74 F	62 F
<b>% Relative Humidity:</b>	59	34	84
<b>Wind Velocity, Unit:</b>	7.1 MPH	7 MPH	5 MPH
<b>Wind Direction:</b>	SW	S	S
<b>Dew Presence (Y/N):</b>	N no	N no	N no
<b>Soil Temperature, Unit:</b>	56 F	59 F	58 F
<b>Soil Moisture:</b>	Normal	NORMAL	MOIST
<b>% Cloud Cover:</b>	5	0	0

**Crop Stage At Each Application**

	A	B	C
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
<b>Stage Scale Used:</b>		BBCH	BBCH
<b>Stage Majority, Percent:</b>		13 100	15 100
<b>Height, Unit:</b>		5 IN	13 IN

**Pest Stage At Each Application**

	A	B	C
<b>Pest 1 Code, Type, Scale:</b>	SETFA W	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>		13 100	15 100
<b>Height, Unit:</b>		3 IN	6 IN
<b>Height Minimum, Maximum:</b>		1 3	5 7
<b>Pest 2 Code, Type, Scale:</b>	AMARE W	AMARE W	AMARE W
<b>Stage Majority, Percent:</b>		12 100	
<b>Height, Unit:</b>		0.25 IN	
<b>Height Minimum, Maximum:</b>		0.25 0.5	
<b>Pest 3 Code, Type, Scale:</b>	CHEAL W	CHEAL W	CHEAL W
<b>Stage Majority, Percent:</b>		12 100	
<b>Height, Unit:</b>		0.5 IN	
<b>Height Minimum, Maximum:</b>		0.25 0.5	
<b>Pest 4 Code, Type, Scale:</b>	POLPY W	POLPY W	POLPY W
<b>Stage Majority, Percent:</b>		14 100	14 100
<b>Height, Unit:</b>		3 IN	5 IN
<b>Height Minimum, Maximum:</b>		2 3	2 5
<b>Pest 5 Code, Type, Scale:</b>	SOLPT W	SOLPT W	SOLPT W
<b>Stage Majority, Percent:</b>		12 100	
<b>Height, Unit:</b>		0.5 IN	
<b>Height Minimum, Maximum:</b>		0.25 0.5	
<b>Pest 6 Code, Type, Scale:</b>	AMBTR W	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>		14 100	18 100
<b>Height, Unit:</b>		4 IN	7 IN
<b>Height Minimum, Maximum:</b>		2 4	5 7

**Application Equipment**

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

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Trt No.	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	4	Notes
1	UNTREATED CHECK									101	214	309	401	
2	Lumax	3.94	SE	1.97	lb ai/a	2	qt/a	PRE	A	102	205	308	402	
	Touchdown Total	4.17	SL	0.78	lb ae/a	24	oz/a	POST	C					
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST						
3	Lexar	3.7	SE	2.08	lb ai/a	2.25	qt/a	PRE	A	103	211	307	403	
	Touchdown Total	4.17	SL	0.78	lb ae/a	24	oz/a	POST	C					
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST						
4	Corvus	2.63	EC	0.0616	lb ai/a	3	oz/a	PRE	A	104	213	303	404	
	Touchdown Total	4.17	SL	0.78	lb ae/a	24	oz/a	POST	C					
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST						
5	Balance Flexx	2	EC	0.047	lb ai/a	3	oz/a	PRE	A	105	208	302	405	
	Touchdown Total	4.17	SL	0.78	lb ae/a	24	oz/a	POST	C					
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST						
6	Integrity	5.6	SC	0.57	lb ai/a	13	oz/a	PRE	A	106	203	306	406	
	Touchdown Total	4.17	SL	0.78	lb ae/a	24	oz/a	POST	C					
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST						
7	Surestart	4.25	SE	0.93	lb ai/a	1.75	pt/a	PRE	A	107	210	305	407	
	Durango DMA	4	SL	0.75	lb ae/a	24	oz/a	POST	C					
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST						
8	Harness Extra 5.6	5.6	EC	1.57	lb ai/a	1.125	qt/a	PRE	A	108	209	304	408	
	Yukon	67.5	DF	0.169	lb ai/a	4	oz/a	POST	C					
	Roundup WeatherMax	4.5	SL	0.77	lb ae/a	22	oz/a	POST						
	NIS	100	SL	0.125	% v/v	3.2	oz/a	POST						
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST						
9	Harness Extra 5.6	5.6	EC	1.57	lb ai/a	1.125	qt/a	PRE	A	109	212	313	409	
	Yukon	67.5	DF	0.127	lb ai/a	3	oz/a	POST	C					
	Roundup WeatherMax	4.5	SL	0.77	lb ae/a	22	oz/a	POST						
	NIS	100	SL	0.125	% v/v	3.2	oz/a	POST						
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST						
10	Harness Extra 5.6	5.6	EC	1.57	lb ai/a	1.125	qt/a	PRE	A	110	202	310	410	
	Yukon	67.5	DF	0.084	lb ai/a	2	oz/a	POST	C					
	Roundup WeatherMax	4.5	SL	0.77	lb ae/a	22	oz/a	POST						
	NIS	100	SL	0.125	% v/v	3.2	oz/a	POST						
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST						
11	Guardzman Max	5	SL	1.56	lb ai/a	2.5	pt/a	PRE	A	111	204	312	411	
	Status	56	WG	0.0875	lb ai/a	2.5	oz/a	POST	C					
	Roundup WeatherMax	4.5	SL	0.77	lb ae/a	22	oz/a	POST						
	NIS	100	SL	0.125	% v/v	3.2	oz/a	POST						
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	POST						
12	Surestart	4.25	SE	0.93	lb ai/a	1.75	pt/a	EPO	B	112	201	314	412	
	Durango DMA	4	SL	0.75	lb ae/a	24	oz/a	EPO						
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	EPO						
13	Capreno	3.46	SC	0.081	lb ai/a	3	oz/a	EPO	B	113	207	311	413	

(09PRPOC2)

Tour Report

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot No.				Notes
										Rep.	1	2	3	
	Atrazine	4	F	1	lb ai/a	1	qt/a	EPO						
	COC	100	SL	1	% v/v	0.8	qt/a	EPO						
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	EPO						
14	Halex GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	EPO	B	114	206	301	414	
	AAtrex	4	F	0.25	lb ai/a	0.5	pt/a	EPO						
	NIS	100	SL	0.25	% v/v	6.4	oz/a	EPO						
	N-PAK AMS	100	L	2.5	% v/v	2	qt/a	EPO						

Sort Order: Replicate 1