

EVALUATION OF TRIO WITH GLYPHOSATE TANK MIX PARTNERS IN CORN, 2010

Trial ID: C2510 Protocol ID: C2510
 Location: Campus, Flex Study Director: Andy Chomas
 Project ID: Investigator: Wesley Everman

General Trial Information

Study Director: Andy Chomas
Investigator: Wesley Everman

Personnel

Study Director: Andy Chomas
Investigator: Wesley Everman

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 46-61
BBCH Scale: BCOR
Planting Date: Apr-30-10
Rate, Unit: 30000 S/A
Row Spacing, Unit: 30 IN
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 35 FT

Site and Design

Plot Width, Unit: 10 FT
Plot Length, Unit: 35 FT
Plot Area, Unit: 350 FT2
Replications: 4
Site Type: FIELD field
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Trial Initiation Comments:
 Fall Chisel, Spring Field Cultivate X2

Soil Description

% OM: 1.6 **Texture:** SL sandy loam
pH: 5.5
Analyzed By:
 300 lbs/A 46-0-0, 125 lbs/A 19-19-19 in Row

Application Description

A
Application Date: Jun-10-10
Time of Day: 6:45 pm
Application Method: SPRAY
Application Timing: POST
Application Placement: BROADC
Air Temperature, Unit: 80 F
% Relative Humidity: 45
Wind Velocity, Unit: 2 MPH
Wind Direction: E
Soil Temperature, Unit: 80 F
Soil Moisture: 5
% Cloud Cover: 20

Crop Stage At Each Application

A
Crop 1 Code, BBCH Scale: ZEAMX BCOR
Stage Scale Used: BBCH
Stage Majority, Percent: V5
Stage Minimum, Percent: V5
Stage Maximum, Percent: V6
Height, Unit: 15 IN
Height Minimum, Maximum: 12 17

Application Equipment

Equipment Type: CUB
Operating Pressure, Unit: 30 PSI
Nozzle Type: FF
Nozzle Size: 8003
Nozzle Spacing, Unit: 20 IN
Boom Length, Unit: 100 IN
Boom Height, Unit: 29 IN
Ground Speed, Unit: 3.5 MPH
Carrier: WATER
Spray Volume, Unit: 20 gal/ac
Mix Size, Unit: 1 gallons

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Pest Type

Pest Code

Crop Code

Rating Date

Rating Type

Rating Unit

Trt-Eval Interval

ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX
 Jun-17-10 Jun-17-10 Jun-17-10 Jun-24-10 Jul-1-10 Jul-26-10 Jul-26-10 Jul-26-10
 injury # Lft row # Rght row injury injury height height height
 % number number % % inches inches inches
 7 DAPO 7 DAPO 7 DAPO 14 DAPO 21 DAPO 46 DA-A 46 DA-A 46 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	1	2	3	4	5	6	7	8
11	Roundup PowerMAX	4.5	L	22	fl oz/a	POST	0	58	60	0	0	106	106	107
11	RESOLVE Q 1.5 OZ/A					POST								
11	Resolve	25	DF	0.3	oz ai/a	POST								
11	Harmony SG 50%	50	SG	0.06	oz ai/a	POST								
11	Isoxadifen-Ethyl	50	DF	0.138	oz ai/a	POST								
11	Prolec	100	L	32	oz/100 gal	POST								
11	TRIO	100	L	32	fl oz/a	POST								
11	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
12	Roundup PowerMAX	4.5	L	22	fl oz/a	POST	23	64	60	10	0	105	98	108
12	Resource	0.86	L	4	fl oz/a	POST								
12	Prolec	100	L	32	oz/100 gal	POST								
12	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
13	Roundup PowerMAX	4.5	L	22	fl oz/a	POST	20	61	59	13	0	104	101	104
13	Resource	0.86	L	4	fl oz/a	POST								
13	Prolec	100	L	32	oz/100 gal	POST								
13	TRIO	100	L	32	fl oz/a	POST								
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
14	Roundup PowerMAX	4.5	L	22	fl oz/a	POST	0	62	61	0	0	96	93	101
14	Prolec	100	L	32	oz/100 gal	POST								
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
15	TRIO	100	L	32	fl oz/a	POST	0	61	64	3	0	100	104	102
15	Prolec	100	L	32	oz/100 gal	POST								
15	Roundup PowerMAX	4.5	L	22	fl oz/a	POST								
15	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
16	TRIO	100	L	32	fl oz/a	POST	0	61	60	0	0	100	99	103
16	Prolec	100	L	32	oz/100 gal	POST								
16	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
	LSD (P=.05)						3.0	5.2	6.3	2.1	0.0	7.9	6.6	7.8
	Standard Deviation						2.1	3.6	4.4	1.4	0.0	5.5	4.7	5.5
	CV						57.44	6.08	7.32	89.8	0.0	5.44	4.64	5.25

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Pest Type

Pest Code

Crop Code

Rating Date

Rating Type

Rating Unit

Trt-Eval Interval

ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX
 Jul-26-10 Jul-26-10 Jul-26-10 Jul-26-10 Jul-26-10 Jul-26-10 Jul-26-10 Oct-6-10
 height height height height height height height yield
 inches inches inches inches inches inches inches bu/ac
 46 DA-A 46 DA-A 46 DA-A 46 DA-A 46 DA-A 46 DA-A 46 DA-A HARVEST

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	9	10	11	12	13	14	15	16
11	Roundup PowerMAX	4.5	L	22	fl oz/a	POST	103	105	107	103	104	102	103	196
11	RESOLVE Q 1.5 OZ/A					POST								
11	Resolve	25	DF	0.3	oz ai/a	POST								
11	Harmony SG 50%	50	SG	0.06	oz ai/a	POST								
11	Isoxadifen-Ethyl	50	DF	0.138	oz ai/a	POST								
11	Prolec	100	L	32	oz/100 gal	POST								
11	TRIO	100	L	32	fl oz/a	POST								
11	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
12	Roundup PowerMAX	4.5	L	22	fl oz/a	POST	102	106	103	102	104	96	99	189
12	Resource	0.86	L	4	fl oz/a	POST								
12	Prolec	100	L	32	oz/100 gal	POST								
12	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
13	Roundup PowerMAX	4.5	L	22	fl oz/a	POST	102	104	103	104	102	102	103	199
13	Resource	0.86	L	4	fl oz/a	POST								
13	Prolec	100	L	32	oz/100 gal	POST								
13	TRIO	100	L	32	fl oz/a	POST								
13	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
14	Roundup PowerMAX	4.5	L	22	fl oz/a	POST	96	97	96	99	101	101	101	190
14	Prolec	100	L	32	oz/100 gal	POST								
14	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
15	TRIO	100	L	32	fl oz/a	POST	103	99	98	94	100	97	100	204
15	Prolec	100	L	32	oz/100 gal	POST								
15	Roundup PowerMAX	4.5	L	22	fl oz/a	POST								
15	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
16	TRIO	100	L	32	fl oz/a	POST	100	100	98	101	95	102	100	198
16	Prolec	100	L	32	oz/100 gal	POST								
16	Ammonium Sulfate	100	DF	8.5	lb/100 gal	POST								
	LSD (P=.05)						8.3	8.3	7.2	9.3	7.7	8.5	6.7	19.9
	Standard Deviation						5.8	5.8	5.0	6.5	5.4	6.0	4.7	13.9
	CV						5.78	5.64	4.94	6.35	5.32	5.87	4.67	7.1