

Ohio State University
Horticulture and Crop Science

Compare Matador/Top Gun to standard soybean pre-emerge herbicides

Title No. 2:
 Trial ID: 12 NTSYLD Protocol ID: 12 NTSYLD
 Location: Western Branch Study Director: Bryan Reeb
 Project ID: 39.00 Investigator: Dr. Mark M. Loux
 Sponsor Contact: Philip Logsdon

General Trial Information

Study Director: Bryan Reeb Title: Research Technician
 Investigator: Dr. Mark M. Loux Title: Professor

Trial Location

City: South Charleston Latitude of LL Corner °: 39.8586 N
 State/Prov.: Ohio Longitude of LL Corner °: 83.67021 W
 Postal Code: 45368
 Country: USA

Crop Description

Crop 1: GLXMA Glycine max Soybean
 Variety: Pioneer 93Y51 Description: Round Up Ready
 BBCH Scale: BSOY Planting Date: Apr-30-2012
 Planting Method: PLANTD planted Rate, Unit: 225000 P/A
 Depth, Unit: 0.5 in
 Row Spacing, Unit: 15 in
 Seed Bed: MEDIUM medium Soil Temperature, Unit: 63 F
 Soil Moisture: SLIWET slightly wet Emergence Date: May-9-2012
 Harvested Width, Unit: 6.25 FT Harvested Length, Unit: 30 FT

Pest Description

Pest 1 Type: W Code: AMBTR Ambrosia trifida
 Common Name: Giant ragweed

Pest 2 Type: W Code: ERICA Conyza canadensis
 Common Name: Canada horseweed

Pest 3 Type: W Code: SETFA Setaria faberi
 Common Name: Giant foxtail

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: NOTILL no-till
 Replications: 3 Study Design: RACOB� Randomized Complete Block (RCB)
 Untreated Arrangement: INCLUDED single control randomized in each block

No. Previous Crop Year
 1. SOYBEANS 2011

Maintenance

No. Date Treatment Name
 1. Apr-25-2012 7 EPP OVERLAY

Field Prep./Maintenance:
 OVERLAY WITH -
 Roundup Powermax @ 22oz
 2,4-D @ 1pt
 Sharpen @ 1oz
 Ams @ 2.5% v/v
 Mso @ 1% v/v

Soil Description

Description Name: F-10 East
 % OM: 2.2 Texture: SICL silty clay loam
 pH: 5.9 Soil Name: Kokomo Silty Clay Loam
 CEC: 22 Fert. Level: G good
 Soil Drainage: G good

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Application Description

	A	B
Application Date:	May-2-2012	Jun-15-2012
Time of Day:	10:00 AM	9:00AM
Application Method:	SPRAY	SPRAY
Application Timing:	ATPL	POST
Application Placement:	BROFOL	BROFOL
Applied By:	REEB	REEB
Air Temperature, Unit:	71 F	76 F
% Relative Humidity:	81	65
Wind Velocity, Unit:	7 MPH	6 MPH
Wind Direction:	SSW	SE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	60 F	70 F
Soil Moisture:	WET	GOOD
% Cloud Cover:	0	0
Next Rain Occurred On:	May-4-2012	Jun-17-2012

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		14 100
Height, Unit:		8 IN
Height Minimum, Maximum:		8 8

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		19 100
Height, Unit:		10 IN
Height Minimum, Maximum:		10 10
Density, Unit:		8 M2
Pest 2 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:		15 100
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Density, Unit:		0.33 M2
Pest 3 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		17 100
Height, Unit:		7 IN
Height Minimum, Maximum:		6 8
Density, Unit:		145 M2

Application Equipment

	A	B
Appl. Equipment:	Backpack	Backpack
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	44 PSI	44 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	2 Liters	2 Liters
Propellant:	COMCO2	COMCO2

