

Ohio State University  
Horticulture and Crop Science

POST WEED MANAGEMENT STRATEGIES FOR ROUNDUP READY SOYBEANS  
2008-01-30-17

Trial ID: 08MONGRWPOSTMARKEY Study Dir.: Anthony F. Dobbels  
Location: MARKEY Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Anthony F. Dobbels  
Investigator: Dr. Mark M. Loux

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code Common Name Scientific Name  
1. AMBEL Common ragweed Ambrosia artemisiifolia

Crop 1: GLXMA SOYBEAN Variety: SEED CONSULTANTS SC9336  
Planting Date: May/07/2008 Planting Method: JOHN DEERE 7000  
Rate: 188000 SEED/A Depth: 0.75 IN  
Row Spacing: 30 IN Seed Bed: NO-TILL

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 3  
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 24.4 % OM: 2.0 Texture: SILT LOAM  
% Silt: 62.5 pH: 7.3 Soil Name: WESTBORO-SCHAFFER  
% Clay: 13.1 CEC: 10.5 Fert. Level: GOOD

APPLICATION DESCRIPTION

	A	B
Application Date:	Jun/11/2008	Jun/24/2008
Time of Day:	9:46 AM	11:00 A.M
Application Method:	SPRAY	SPRAY
Application Timing:	POST	LPO
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	77 F	70 F
% Relative Humidity:	54	56
Wind Velocity, Unit:	4 E	3 W
Soil Temp., Unit:	69 F	69 F
Soil Moisture:	MOIST/MOI	MOIST/WET
% Cloud Cover:	0	15

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA V3	GLXMA V4
Stage Scale:	DESC	DESC
Height, Unit:	4 IN	7 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	AMBEL 4-10"	AMBEL 4-22"
Stage Scale:	8-30 LVS	8-36 LVS
Density, Unit:	36 M2	36 M2

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure:	53	53
Nozzle Type:	DG	DG
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA
Propellant:	CO2	CO2

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Weed Code		AMBEL	AMBEL
Crop Code	GLXMA		
Rating Data Type	PHYTO	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	Jun/24/2008	Jun/24/2008	Jul/08/2008
Trt-Eval Interval	13 DA-A	13 DA-A	27 DA-A
# Subsamples, Dec.	0	0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3
1	ROUNDUP POWERMAX	21.3 oz/a		LPO	B	0 d	0 d	20 c
1	AMS	4 qt/a		LPO				
2	ROUNDUP POWERMAX	21.3 oz/a		POST	A	0 d	23 bc	37 abc
2	AMS	4 qt/a		POST				
3	ROUNDUP POWERMAX	21.3 oz/a		POST	A	12 a	57 a	62 a
3	COBRA	9.7 oz/a		POST				
3	AMS	4 qt/a		POST				
4	ROUNDUP POWERMAX	21.3 oz/a		POST	A	0 d	25 bc	33 bc
4	FIRSTRATE	0.305 oz/a		POST				
4	AMS	4 qt/a		POST				
5	ROUNDUP POWERMAX	21.3 oz/a		POST	A	0 d	25 bc	43 abc
5	RAPTOR	3.97 oz/a		POST				
5	AMS	4 qt/a		POST				
6	ROUNDUP POWERMAX	21.3 oz/a		POST	A	10 abc	60 a	63 a
6	FLEXSTAR	20 oz/a		POST				
6	AMS	4 qt/a		POST				
7	ROUNDUP POWERMAX	21.3 oz/a		POST	A	11 ab	40 b	49 ab
7	ULTRA BLAZER	10 oz/a		POST				
7	AMS	4 qt/a		POST				
8	ROUNDUP POWERMAX	21.3 oz/a		POST	A	3 cd	35 bc	45 abc
8	RESOURCE	8 oz/a		POST				
8	AMS	4 qt/a		POST				
9	ROUNDUP POWERMAX	21.3 oz/a		POST	A	0 d	20 c	47 ab
9	CLASSIC	0.75 oz/a		POST				
9	AMS	4 qt/a		POST				
10	ROUNDUP POWERMAX	21.3 oz/a		POST	A	0 d	22 c	45 abc
10	HARMONY GT	0.16 oz/a		POST				
10	AMS	4 qt/a		POST				
11	ROUNDUP POWERMAX	21.3 oz/a		POST	A	0 d	25 bc	42 abc
11	BASAGRAN	32 oz/a		POST				
11	AMS	4 qt/a		POST				
12	ROUNDUP POWERMAX	21.3 oz/a		POST	A	5 bcd	38 bc	55 ab
12	2,4-DB	16.1 oz/a		POST				
12	AMS	4 qt/a		POST				
LSD (P=.05)						5.3	11.5	16.4
Standard Deviation						3.1	6.8	9.6
CV						89.43	21.98	21.4
Bartlett's X2						2.374	9.09	14.162
P(Bartlett's X2)						0.305	0.246	0.166
Replicate F						1.826	2.947	1.029
Replicate Prob(F)						0.1931	0.0745	0.3745
Treatment F						7.444	17.745	4.629
Treatment Prob(F)						0.0002	0.0001	0.0013

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.