

AMS Replacements - Agrilience.

Project Code: 04-10B-W120 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 8-30-04

Objective:

Determine the performance of various adjuvants applied with glyphosate compared with ammonium sulfate.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. CYPES	nutsedge, yellow	Cyperus esculentus L.
3. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
4. XANST	cocklebur, common	Xanthium strumarium L.
5. IPOSS	morningglory, species	Ipomoea sp.
6. ABUTH	velvetleaf	Abutilon theophrasti Medicus

Crop 1: GLXMA soybean Variety: AG 4403 RR
 Planting Method: Seeded Planting Date: 6-7-04
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 24 FT Reps: 3
 Tillage Type: Reduced-Till Study Design: Randomized complete block
 Previous Crop, Year: ZEAMX, 2003

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Weir % OM: 2 pH: 6.2 CEC: 11
 Texture: Silt loam Fert. Level: P1: 88 LB/A, K: 445 LB/A

APPLICATION DESCRIPTION

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Application Date: 7-12-04
 Time of Day: 11:00
 Application Method: Spray
 Application Timing: 8-12"W
 Applic. Placement: BROFOL
 Air Temp., Unit: 88 F
 % Relative Humidity: 60
 Wind Velocity, Unit: 4 MPH
 Soil Moisture: ABONOR

CROP STAGE AT EACH APPLICATION

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Crop 1 Code, Stage: GLXMA V4-V5
 Height, Unit: 7-9 IN

WEED STAGE AT EACH APPLICATION

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Weed 1 Code: SETFA
 Stage(leaves): 5-7
 Height(inches): 8-12
 Density: Medium

Weed 2 Code: CYPES
 Stage(leaves): 5-10
 Height(inches): 10-14
 Density: High

Weed 3 Code: AMBEL
 Stage(leaves): 10-12
 Height(inches): 6-10
 Density: High

Weed 4 Code: XANST
 Stage(leaves): 3-7
 Height(inches): 7-12
 Density: Medium

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA	GLXMA	SETFA	SETFA	CYPES	CYPES	AMBEL	AMBEL	XANST	XANST	ABUTH	ABUTH
									Injury Percent 7-26-04	Injury Percent 8-9-04	Control Percent 7-26-04	Control Percent 8-9-04	Control Percent 7-26-04	Control Percent 8-9-04	Control Percent 7-26-04	Control Percent 8-9-04	Control Percent 7-26-04	Control Percent 8-9-04	Control Percent 7-26-04	Control Percent 8-9-04
									14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A	14 DA-A	28 DA-A
1	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A	0	0	99	98	53	57	96	98	97	97	63	38
2	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A	0	0	99	99	65	77	96	98	99	99	73	52
	2 N-PAK AMS	100	LIQ	5.0 % V/V	5 % V/V		8-12"W	A												
3	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A	0	0	99	99	52	60	96	98	99	99	73	52
	3 CLASS ACT NG	100	LIQ	2.5 % V/V	2.5 % V/V		8-12"W	A												
4	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A	0	0	99	99	50	53	95	97	97	97	67	40
	4 ALLIANCE	100	LIQ	1.25 % V/V	1.25 % V/V		8-12"W	A												
5	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A	0	0	99	99	60	63	96	97	99	99	60	38
	5 ALLIANCE	100	LIQ	0.75 % V/V	0.75 % V/V		8-12"W	A												
6	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A	0	0	99	99	53	63	99	99	99	99	60	42
	6 AG 03018	100	LIQ	0.5 % V/V	0.5 % V/V		8-12"W	A												
7	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A												
	7 AG 04040	100	LIQ	4.0 OZ/A	4 OZ/A		8-12"W	A												
8	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A	0	0	99	99	60	62	98	99	99	99	62	42
	8 ARROW FOUR	100	LIQ	0.75 % V/V	0.75 % V/V		8-12"W	A												
9	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A	0	0	99	99	64	60	98	99	99	99	63	43
	9 AG 040427	100	DRY	3.0 LB/100 GAL	3 LB/100 GAL		8-12"W	A												
10	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A	0	0	99	99	67	67	98	99	99	99	65	42
	10 AG 040311	100	LIQ	0.25 % V/V	0.25 % V/V		8-12"W	A												
11	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A	0	0	99	98	60	62	97	98	99	99	64	42
	11 CHOICE	100	LIQ				8-12"W	A												
12	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A	0	0	99	99	55	62	99	99	99	99	63	43
	12 SUNQUEST	100	LIQ				8-12"W	A												
13	NONTREATED								0	0	0	0	0	0	0	0	0	0	0	0
14	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A												
	14 TBA						8-12"W	A												
15	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A												
	15 TBA						8-12"W	A												
16	ROUNDUP W-MAX	4.5	SL	0.387 LB AE/A	11 OZ/A		8-12"W	A												
	16 TBA						8-12"W	A												
LSD (P=.05)									0.0	0.0	0.0	0.7	8.0	10.0	4.3	1.7	1.0	1.5	8.5	10.8
Replicate F									0.000	0.000	0.000	3.667	5.178	1.843	0.122	0.198	0.733	0.659	0.776	2.118
Replicate Prob(F)									1.0000	1.0000	1.0000	0.0422	0.0144	0.1819	0.8854	0.8219	0.4917	0.5271	0.4724	0.1441
Treatment F									0.000	0.000	0.000	15317.904	42.068	30.405	371.254	2457.059	7126.400	3030.650	43.311	12.795
Treatment Prob(F)									1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Agrilience.
2. CI and WC 14 and 28 DAT.
3. DA-A = Days after 8-12"W application.
4. Treatments 7, and 14-16 were not applied.