

Influence of Glyphosate Rate and GPA on Herbicide Drift.

Project Code: 03-WT-Glyph-rate Location: Carbondale, IL

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final **Updated:** 1-15-04

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Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

Drift
 Percent

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Spray Volume	Volume Unit	Drift Percent
1	WATER									49
2	ROUNDUP W-MAX	4.5	SL	0.375	LB AE/A	10.7	FL OZ/A	6	GAL/AC	59
3	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	6	GAL/AC	67
4	ROUNDUP W-MAX	4.5	SL	1.125	LB AE/A	32	FL OZ/A	6	GAL/AC	70
5	ROUNDUP W-MAX	4.5	SL	1.5	LB AE/A	42.7	FL OZ/A	6	GAL/AC	70
6	ROUNDUP ORIGINAL	3	SL	0.75	LB AE/A	32	OZ/A	6	GAL/AC	63
7	ROUNDUP ORIGINAL	3	SL	0.75	LB AE/A	32	OZ/A	6	GAL/AC	59
7	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	6	GAL/AC	
8	ROUNDUP ORIGINAL	3	SL	0.75	LB AE/A	32	OZ/A	6	GAL/AC	56
8	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	%V/V	6	GAL/AC	
9	ROUNDUP W-MAX	4.5	SL	0.375	LB AE/A	10.7	FL OZ/A	12	GAL/AC	53
10	ROUNDUP W-MAX	4.5	SL	1.125	LB AE/A	32	FL OZ/A	12	GAL/AC	61
11	ROUNDUP ORIGINAL	3	SL	0.75	LB AE/A	32	OZ/A	12	GAL/AC	56
12	ROUNDUP ORIGINAL	3	SL	0.75	LB AE/A	32	OZ/A	12	GAL/AC	52
12	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	12	GAL/AC	
13	ROUNDUP ORIGINAL	3	SL	0.75	LB AE/A	32	OZ/A	12	GAL/AC	46
13	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	%V/V	12	GAL/AC	
14	ROUNDUP W-MAX	4.5	SL	0.375	LB AE/A	10.7	FL OZ/A	18	GAL/AC	51
15	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	18	GAL/AC	57
16	ROUNDUP W-MAX	4.5	SL	1.5	LB AE/A	42.7	FL OZ/A	18	GAL/AC	61
17	ROUNDUP ORIGINAL	3	SL	0.75	LB AE/A	32	OZ/A	18	GAL/AC	54
18	ROUNDUP ORIGINAL	3	SL	0.75	LB AE/A	32	OZ/A	18	GAL/AC	46
18	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	%V/V	18	GAL/AC	
19	ROUNDUP ORIGINAL	3	SL	0.75	LB AE/A	32	OZ/A	18	GAL/AC	45
19	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	%V/V	18	GAL/AC	

LSD (P=.05) 3.2

Weed Code
Crop Code
Rating Data Type
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Drift
Percent

Trt	Treatment	Form	Form	Rate	Prod	Prod	Spray	Volume
No.	Name	Conc	Type	Rate	Unit	Rate	Unit	Volume

Treatment F								43.868
Treatment Prob(F)								0.0001

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Trial Comments

1. Protocol: SIU-BGY.
2. This study was conducted in a wind tunnel;
Wind speed = 10 MPH
Nozzle = XR110015
Spray volume was 6, 12 or 18 GPA, see treatment list.
3. Drift = total particle drift, percent of applied.