

Ohio State University Horticulture and Crop Science

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	ZEAMX .	ZEAMX 15-30"	ZEAMX .
Stage Scale:	.	4-7 COLLR	.
Density, Unit:	4 M2	4 M2	.
Weed 2 Code, Stage:	SETFA .	SETFA 2-24"	SETFA .
Stage Scale:	.	6 LVS	.
Density, Unit:	45 M2	45 M2	.
Weed 3 Code, Stage:	AMBTR .	AMBTR 12-35"	AMBTR .
Stage Scale:	.	>12 LVS	.
Density, Unit:	6 M2	6 M2	.
Weed 4 Code, Stage:	CHEAL .	CHEAL 1-13"	CHEAL 1-2"
Stage Scale:	.	>12 LVS	6 LVS
Density, Unit:	12.3 M2	12.3 M2	12.3 M2
Weed 5 Code, Stage:	POLPY .	POLPY 1-10"	POLPY .
Stage Scale:	.	>12 LVS	.
Density, Unit:	1.6 M2	1.6 M2	.
Weed 6 Code, Stage:	AMBEL .	AMBEL 2-8"	AMBEL 1-4"
Stage Scale:	.	>12 LVS	4 LVS
Density, Unit:	0.6 M2	0.6 M2	0.6 M2
Weed 7 Code, Stage:	AMARE .	AMARE .	AMARE 4"
Stage Scale:	.	.	8 LVS
Density, Unit:	6 M2	6 M2	6 M2
Weed 8 Code, Stage:	IPOHE .	IPOHE .	IPOHE 1-3"
Stage Scale:	.	.	3 LVS
Density, Unit:	0.33 M2	0.33 M2	0.33 M2

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	50	50	50
Nozzle Type:	DG	DG	DG
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA
Propellant:	CO2	CO2	CO2

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RESIDUAL WEED CONTROL IN ROUNDUP READY SOYBEAN

USA-07-120, MD64.03, 2007-01-30-13

Trial ID: 07RRS1

Study Dir.: Anthony F. Dobbels

Location: WESTERN BRANCH F-7

Investigator: Dr. Mark M. Loux

Weed Code	GLXMA	GLXMA	GLXMA
Crop Code	YIELD	MOISTURE	YIELD
Rating Data Type	LBS	PERCENT	BU
Rating Unit	Oct/04/2007	Oct/04/2007	Oct/04/2007
Rating Date	HARVEST	HARVEST	HARVEST
Trt-Eval Interval			TY1
ARM Action Codes			
# Subsamples, Dec.	1	1	1

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Appl Code	23	24	25
1	CLASSIC	0.23	oz ai/a	0.92	oz/a	A	15.9 a	14.1 a	60.8 a
1	HARMONY GT	0.0738	oz ai/a	0.148	oz/a				
1	VALOR SX	0.72	oz ai/a	1.41	oz/a				
1	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
1	AMS	5	% v/v	4	qt/a				
2	CLASSIC	0.32	oz ai/a	1.28	oz/a	A	16.3 a	13.3 a	63.1 a
2	HARMONY GT	0.104	oz ai/a	0.208	oz/a				
2	VALOR SX	1	oz ai/a	1.96	oz/a				
2	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
2	AMS	5	% v/v	4	qt/a				
3	CLASSIC	0.42	oz ai/a	1.68	oz/a	A	15.6 a	13.5 a	60.2 a
3	HARMONY GT	0.133	oz ai/a	0.266	oz/a				
3	VALOR SX	1.31	oz ai/a	2.57	oz/a				
3	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
3	AMS	5	% v/v	4	qt/a				
4	CANOPY	1.69	oz ai/a	2.25	oz/a	A	15.7 a	13.5 a	60.6 a
4	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
4	AMS	5	% v/v	4	qt/a				
5	CANOPY	2.25	oz ai/a	3	oz/a	A	16.1 a	14.3 a	61.6 a
5	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
5	AMS	5	% v/v	4	qt/a				
6	CANOPY	3	oz ai/a	4	oz/a	A	17.5 a	13.0 a	67.7 a
6	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
6	AMS	5	% v/v	4	qt/a				
7	VALOR SX	1.02	oz ai/a	2	oz/a	A	17.5 a	14.5 a	66.6 a
7	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
7	AMS	5	% v/v	4	qt/a				
8	VALOR XLT 3 OZ						16.1 a	13.3 a	62.0 a
8	VALOR SX	0.056	lb ai/a	1.76	oz/a	A			
8	CLASSIC	0.0194	lb ai/a	1.24	oz/a				
8	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
8	AMS	5	% v/v	4	qt/a				
9	VALOR XLT 3.5 OZ						16.3 a	14.2 a	62.3 a
9	VALOR SX	0.0653	lb ai/a	2.05	oz/a	A			
9	CLASSIC	0.0227	lb ai/a	1.45	oz/a				
9	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
9	AMS	5	% v/v	4	qt/a				
10	VALOR XLT 4 OZ						15.8 a	13.5 a	60.8 a
10	VALOR SX	0.075	lb ai/a	2.35	oz/a	A			
10	CLASSIC	0.0258	lb ai/a	1.65	oz/a				
10	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
10	AMS	5	% v/v	4	qt/a				

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Rating Date	Oct/04/2007	Oct/04/2007	Oct/04/2007
Trt-Eval Interval	HARVEST	HARVEST	HARVEST
ARM Action Codes			TY1
# Subsamples, Dec.	1	1	1

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Appl Code	23	24	25
11	GANGSTER 1.8 OZ						17.2 a	15.3 a	64.8 a
11	GANGSTER FR	0.0158	lb ai/a	0.3	oz/a	A			
11	GANGSTER V	0.048	lb ai/a	1.5	oz/a				
11	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
11	AMS	5	% v/v	4	qt/a				
12	SONIC	0.14	lb ai/a	3.2	oz/a	A	16.8 a	13.5 a	64.8 a
12	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
12	AMS	5	% v/v	4	qt/a				
13	FIRSTRATE	0.0158	lb ai/a	0.3	oz/a	A	17.1 a	14.0 a	65.5 a
13	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
13	AMS	5	% v/v	4	qt/a				
14	PYTHON	0.04	lb ai/a	0.8	oz/a	A	16.1 a	13.6 a	61.8 a
14	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
14	AMS	5	% v/v	4	qt/a				
15	PREFIX	1.31	lb ai/a	2	pt/a	A	16.8 a	13.4 a	64.6 a
15	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
15	AMS	5	% v/v	4	qt/a				
16	REFLEX	0.25	lb ai/a	1	pt/a	A	17.2 a	14.7 a	65.4 a
16	METRIBUZIN	0.28	lb ai/a	6	oz/a				
16	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
16	AMS	5	% v/v	4	qt/a				
17	SCEPTER	0.123	lb ai/a	2.8	oz/a	A	16.6 a	13.2 a	64.1 a
17	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
17	AMS	5	% v/v	4	qt/a				
18	INTRRO	2	lb ai/a	4	pt/a	A	14.2 a	15.0 a	53.7 a
18	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
18	AMS	5	% v/v	4	qt/a				
19	PROWL H20	1.19	lb ai/a	2.5	pt/a	A	15.2 a	13.4 a	58.6 a
19	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
19	AMS	5	% v/v	4	qt/a				
20	KIH-485	0.148	lb ai/a	2.79	oz/a	A	17.0 a	17.5 a	62.5 a
20	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
20	AMS	5	% v/v	4	qt/a				
21	COMMAND	0.56	lb ai/a	1.5	pt/a	A	17.6 a	14.8 a	66.6 a
21	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B			
21	AMS	5	% v/v	4	qt/a				
22	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B	14.6 a	14.2 a	55.8 a
22	AMS	5	% v/v	4	qt/a				
23	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	B	16.4 a	12.8 a	63.8 a
23	AMS	5	% v/v	4	qt/a				
23	ROUNDUP WEATHERMAX	0.77	lb ae/a	22	oz/a	C			
23	AMS	5	% v/v	4	qt/a				
24	UTC						1.0 b	13.0 a	3.9 b

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Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Appl Code	23	24	25
	LSD (P=.05)						2.88	2.87	11.74
	Standard Deviation						1.74	1.74	7.12
	CV						11.11	12.44	11.85
	Bartlett's X2						23.131	62.282	25.311
	P(Bartlett's X2)						0.394	0.001*	0.282
	Replicate F						6.822	0.043	5.854
	Replicate Prob(F)						0.0025	0.9583	0.0054
	Treatment F						10.433	0.993	9.138
	Treatment Prob(F)						0.0001	0.4911	0.0001

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.

ARM Action Codes

TY1 = $3.872 * [C23] * (100 - [C24]) / 87$