

Burndown Timing for Winter Annual Grasses.

Project Code: 05-2C-MW90 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: 12-05-05

Objective:
 Determine the latest application timing to prevent winter annual grass seed production or viability.

Weed Code Common Name Scientific Name
 1. HORPU barley, little Hordeum pusillum Nutt.
 2. ALOCA foxtail, Carolina Alopecurus carolinianus Walt.

Crop 1: GLXMA soybean **Variety:** Asgrow 4403 RR
Planting Method: Seeded **Planting Date:** 6-15-05
Rate: 75 lb/A **Depth:** 1.0 IN
Row Spacing: 15 IN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 28 FT **Reps:** 3
Tillage Type: No-Till **Study Design:** Randomized complete block
Previous Crop, Year: GLXMA, 2004

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

Soil Name: Weir **% OM:** 1.6 **pH:** 6.4 **CEC:** 8
Texture: Silt loam **Fert. Level:** P1: 92 LB/A, K: 365 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E	F	G	H
Application Date:	04-11-05	04-19-05	04-26-05	05-03-05	05-10-05	05-17-05	05-24-05	05-31-05
Time of Day:	7:00	7:00	9:00	9:00	9:00	9:00	9:00	10:00
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	Apr12	Apr19	Apr26	May3	May10	May17	May24	May31
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	66 F	62 F	48 F	48 F	70 F	58 F	62 F	72 F
% Relative Humidity:	82	50	90	60	72	60	70	50
Wind Velocity, Unit:	3 MPH	3 MPH	3 MPH	0 MPH	0 MPH	0 MPH	8 MPH	5 MPH
Soil Moisture:	NORMAL	NORMAL	ABONOR	NORMAL	NORMAL	NORMAL	NORMAL	BELNOR

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G	H
Crop 1 Code, Stage:	GLXMA NA	GLXMA NA	GLXMA NA	GLXMA NA	GLXMA NA	GLXMA NA	GLXMA NA	GLXMA NA
Height, Unit:	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G	H
Weed 1 Code:	HORPU	HORPU	HORPU	HORPU	HORPU	HORPU	HORPU	HORPU
Stage (leaves):	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6
Height (inches):	3-4	4-6	4-8	4-8	6-12	6-12	6-12	6-12
Density:	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Weed 2 Code:	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA
Stage (leaves):	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6
Height (inches):	3-6	5-6	4-8	4-8	6-12	6-12	6-12	6-12
Density:	Low	Medium	Medium	Medium	Medium	Medium	Medium	Medium

APPLICATION EQUIPMENT

	A	B	C	D	E	F	G	H
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	8003	8003	8003	8003	8003	8003	8003	8003
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA

NOTES:

Burndown Timing for Winter Annual Grasses.

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Yield bu/A	HORPU Heads Mill/A	HORPU HeadRegr Mill/A	GLXMA Stage Comment6	GLXMA Stage Comment6	GLXMA STARED Percent	GLXMA STARED Percent
1	NONTREATED									55	1.68	0.00	0.7	11.0	17	7
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr12	A	46	0.00	0.00	0.3	8.8	33	25
3	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr12	A	53	0.00	0.00	0.3	8.5	47	35
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr12	A							
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr19	B	54	0.00	0.00	0.2	9.0	17	20
5	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr19	B	52	0.62	0.00	0.5	8.3	25	20
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr19	B							
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr26	C	46	0.00	0.00	0.3	8.2	33	25
7	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr26	C	43	0.00	0.00	0.0	8.2	45	38
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr26	C							
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May3	D	52	0.00	0.00	0.8	8.8	7	17
9	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May3	D	52	0.00	0.00	0.8	11.0	5	15
9	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May3	D							
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May10	E	58	0.00	0.00	1.7	12.0	0	0
11	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May10	E	56	1.66	0.41	1.7	12.0	0	0
11	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May10	E							
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May17	F	58	2.57	0.00	1.7	12.0	0	0
13	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May17	F	58	1.23	0.00	1.5	12.0	0	0
13	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May17	F							
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May24	G	59	2.21	0.00	1.2	12.0	2	0
15	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May24	G	57	1.60	0.00	1.5	12.0	0	0
15	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May24	G							
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May31	H	59	2.38	0.00	1.3	12.0	3	0
17	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May31	H	52	1.63	0.00	1.2	12.0	0	0
17	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May31	H							
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr12	A	54	0.00	0.00	1.7	12.0	0	0
18	CANOPY XL	56.3	WG			4.5	oz/a	Apr12	A							
18	->CLASSIC	25	WG	0.0264	lb ai/a			Apr12	A							
18	->AUTHORITY	75	WG	0.132	lb ai/a			Apr12	A							
LSD (P=.05)										7.4	0.761	0.139	0.46	1.44	17.7	14.5
Replicate F										0.338	0.151	1.000	4.779	0.044	0.801	3.274
Replicate Prob(F)										0.7156	0.8602	0.3784	0.0148	0.9574	0.4572	0.0501
Treatment F										3.353	13.856	4.094	13.523	11.421	7.265	7.114
Treatment Prob(F)										0.0013	0.0001	0.0002	0.0001	0.0001	0.0001	0.0001

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	HORPU											
						Injury Percent	Injury Percent	Injury Percent	Injury Percent	Injury Percent	Injury Percent	Injury Percent	Injury Percent				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	07 DAT	14 DAT	21 DAT	28 DAT	35 DAT	42 DAT	49 DAT	56 DAT
1	NONTREATED									0	0	0	0	0	0	0	0
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr12	A	50	93	100	100	100	100	100	100
3	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr12	A	90	100	100	100	93	100	100	100
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr12	A								
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr19	B	50	100	100	100	100	100	100	100
5	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr19	B	90	100	50	83	73	25	42	42
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr19	B								
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr26	C	80	100	100	100	100	100	100	100
7	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr26	C	90	100	100	100	100	100	100	100
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr26	C								
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May3	D	100	100	100	100	100	100	100	100
9	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May3	D	90	90	90	90	63	63	63	63
9	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May3	D								
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May10	E	100	100	100	100	100	100	100	100
11	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May10	E	90	100	100	97	100	100	100	100
11	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May10	E								
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May17	F	97	100	100	100	100	100	100	100
13	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May17	F	98	100	100	100	100	100	100	100
13	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May17	F								
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May24	G	100	100	100	100	100	100	100	100
15	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May24	G	100	100	100	100	100	100	100	100
15	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May24	G								
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May31	H	100	100	100	100	100	100	100	100
17	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May31	H	100	100	100	100	100	100	100	100
17	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May31	H								
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr12	A	80	100	100	100	100	100	100	100
18	CANOPY XL	56.3	WG			4.5	oz/a	Apr12	A								
18	->CLASSIC	25	WG	0.0264	lb ai/a			Apr12	A								
18	->AUTHORITY	75	WG	0.132	lb ai/a			Apr12	A								
LSD (P=.05)										2.3	1.1	0.0	3.3	13.3	9.1	10.6	10.6
Replicate F										1.000	1.000	0.000	0.000	0.262	1.000	1.489	1.489
Replicate Prob(F)										0.3784	0.3784	1.0000	1.0000	0.7714	0.3784	0.2400	0.2400
Treatment F										1092.972	3578.588	0.000	425.250	29.062	86.244	55.582	55.582
Treatment Prob(F)										0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

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Weed Code	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA
Crop Code	Injury	Injury	Injury	Injury	Injury	Injury	Injury	Injury
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	07 DAT	14 DAT	21 DAT	28 DAT	35 DAT	42 DAT	49 DAT	56 DAT
Rating Date								
Trt-Eval Interval								

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA
1	NONTREATED									0	0	0	0	0	0	0	0
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr12	A	50	93	100	100	100	100	100	100
3	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr12	A	90	100	100	100	100	100	100	100
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr12	A								
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr19	B	50	100	100	100	100	100	100	100
5	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr19	B	90	100	100	100	100	100	100	100
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr19	B								
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr26	C	80	100	100	100	100	100	100	100
7	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr26	C	90	100	100	100	100	100	100	100
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr26	C								
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May3	D	100	100	100	100	100	100	100	100
9	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May3	D	100	100	100	100	100	100	100	100
9	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May3	D								
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May10	E	100	100	100	100	100	100	100	100
11	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May10	E	100	100	100	100	100	100	100	100
11	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May10	E								
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May17	F	97	100	100	100	100	100	100	100
13	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May17	F	100	100	100	100	100	100	100	100
13	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May17	F								
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May24	G	100	100	100	100	100	100	100	100
15	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May24	G	100	100	100	100	100	100	100	100
15	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May24	G								
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May31	H	100	100	100	100	100	100	100	100
17	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May31	H	100	100	100	100	100	100	100	100
17	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May31	H								
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr12	A	80	100	100	100	100	100	100	100
18	CANOPY XL	56.3	WG			4.5	oz/a	Apr12	A								
18	->CLASSIC	25	WG	0.0264	lb ai/a			Apr12	A								
18	->AUTHORITY	75	WG	0.132	lb ai/a			Apr12	A								
LSD (P=.05)										2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F										1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.3784	0.3784	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										1139.765	3587.765	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.0001	0.0001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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		HORPU															
		Kill	Kill	Kill	Kill	Kill	Kill	Kill									
		Percent	Percent	Percent	Percent	Percent	Percent	Percent									
		07 DAT	14 DAT	21 DAT	28 DAT	35 DAT	42 DAT	49 DAT	56 DAT								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	NONTREATED									0	0	0	0	0	0	0	0
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr12	A	50	93	100	100	100	100	100	100
3	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr12	A	95	100	100	100	99	100	100	100
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr12	A								
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr19	B	50	100	100	100	100	100	100	100
5	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr19	B	93	100	90	83	83	83	85	85
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr19	B								
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr26	C	80	100	100	100	100	100	100	100
7	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr26	C	90	100	100	100	100	100	100	100
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr26	C								
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May3	D	100	100	100	100	100	100	100	100
9	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May3	D	87	87	90	90	90	90	90	90
9	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May3	D								
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May10	E	100	100	100	100	100	100	100	100
11	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May10	E	90	100	100	97	100	100	100	100
11	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May10	E								
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May17	F	97	100	100	100	100	100	100	100
13	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May17	F	98	100	100	100	100	100	100	100
13	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May17	F								
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May24	G	100	100	100	100	100	100	100	100
15	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May24	G	100	100	100	100	100	100	100	100
15	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May24	G								
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May31	H	100	100	100	100	100	100	100	100
17	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May31	H	100	100	100	100	100	100	100	100
17	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May31	H								
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr12	A	85	100	100	100	100	100	100	100
18	CANOPY XL	56.3	WG			4.5	oz/a	Apr12	A								
18	->CLASSIC	25	WG	0.0264	lb ai/a			Apr12	A								
18	->AUTHORITY	75	WG	0.132	lb ai/a			Apr12	A								
LSD (P=.05)										3.5	2.6	0.0	3.3	2.3	2.3	3.4	3.4
Replicate F										0.106	0.586	0.000	0.000	1.206	1.000	1.000	1.000
Replicate Prob(F)										0.9001	0.5620	1.0000	1.0000	0.3119	0.3784	0.3784	0.3784
Treatment F										465.444	701.793	0.000	425.250	878.346	904.000	400.529	400.529
Treatment Prob(F)										0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

Burndown Timing for Winter Annual Grasses.

Project Code: 05-2C-MW90 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA	ALOCA
Crop Code								
Rating Data Type	Kill	Kill	Kill	Kill	Kill	Kill	Kill	Kill
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date								
Trt-Eval Interval	07 DAT	14 DAT	21 DAT	28 DAT	35 DAT	42 DAT	49 DAT	56 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	07 DAT	14 DAT	21 DAT	28 DAT	35 DAT	42 DAT	49 DAT	56 DAT
1	NONTREATED									0	0	0	0	0	0	0	0
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr12	A	50	93	100	100	100	100	100	100
3	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr12	A	95	100	100	100	100	100	100	100
3	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr12	A								
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr19	B	50	100	100	100	100	100	100	100
5	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr19	B	93	100	100	100	100	100	100	100
5	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr19	B								
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr26	C	80	100	100	100	100	100	100	100
7	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	Apr26	C	90	100	100	100	100	100	100	100
7	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	Apr26	C								
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May3	D	100	100	100	100	100	100	100	100
9	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May3	D	100	100	100	100	100	100	100	100
9	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May3	D								
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May10	E	100	100	100	100	100	100	100	100
11	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May10	E	100	100	100	100	100	100	100	100
11	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May10	E								
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May17	F	100	100	100	100	100	100	100	100
13	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May17	F	100	100	100	100	100	100	100	100
13	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May17	F								
14	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May24	G	100	100	100	100	100	100	100	100
15	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May24	G	100	100	100	100	100	100	100	100
15	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May24	G								
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	May31	H	100	100	100	100	100	100	100	100
17	GRAMOXONE MAX	3	SL	1.0	lb ae/a	2.7	pt/a	May31	H	100	100	100	100	100	100	100	100
17	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	May31	H								
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	Apr12	A	85	100	100	100	100	100	100	100
18	CANOPY XL	56.3	WG			4.5	oz/a	Apr12	A								
18	->CLASSIC	25	WG	0.0264	lb ai/a			Apr12	A								
18	->AUTHORITY	75	WG	0.132	lb ai/a			Apr12	A								
LSD (P=.05)										1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F										1.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.3784	0.3784	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										4625.412	3587.765	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.0001	0.0001	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Trial Comments

1. Protocol: ISPOB.
2. Ratings: Rate WC in treated plots every week after first application.
Collect seed from 100 plants per plot on May 16, May 30 and June13; test weight of 100 seeds.
3. Make detailed notes on grass growth/reproductive stage at time of application.
For HORPU, Feekes stage at application C, D, E, F, and G was F9, F9-F10, F10.2, F10.5 and F10.5, respectively.
For ALOCA, Feekes stage at application C, D, E, F, G was F10.5, and for H was F10.9-F11.
4. Head counts: two 1.0 sqft quadrats per plot on June 14. Evaluate soybean stand at 3 and 6 WAP and soybean grain yield.
5. Keep trial weed-free (entire area) starting at planting with glyphosate applications.
6. Stage = Soybean growth stage; 0-9 = unifoliolate-V9. 10, 11 and 12 = R1, R2 and R3, respectively.
7. Heads = Little barley seed heads. HeadRegr = Little barley seed heads on plants that emerged/recovered following herbicide application.
Mil/A = Million per acre. STARED = Stand reduction. WAP = Weeks after planting. DAT = Days after treatment.
8. Harvested 10-19-05, (2) 30 inch rows by 22 ft.