

LSU AgCenter

Glyphosate Programs for Perennial Barnyardgrass Control

Experiment number : **C03-50**
 Location : Brian Leonard Farm
 Experimental design..... : RCB
 Number of reps : 4
 Plot size : 5' x 17'
 Row width/# per plot..... : Broadcast
 Soil type : Crowley silt loam (3% sand, 69% silt, 28% clay)
 % OM : 1.4
 pH : 6.4
 CEC : 19.1
 Planting date : 05/19/03
 Harvest date..... : N/A
 Crop/Variety : Rice/CL 161
 Emergence date..... : 05/30/03
 Uniform std. treatment..... : 1 oz. Permit + 0.25% Ag-98 – 07/08/03

Application type.....	PRE	EPOT	MPOT	LPOT
Date applied [mm/dd/yy]	05/20/03	06/04/03	06/17/03	06/23/03
Time [hh:mm-hh:mm]	9:05-10:05a	9:00-9:15a	10:00-11:00a	10:00-10:30a
Incorporation equip./Depth.....	N/A	N/A	N/A	N/A
Air/Soil temperature [F]	85/83	74/75	83/81	87/82
Relative humidity [%].....	40	83	42	52
Wind [mph, direction]	5,N	2,E	2,E	2,E
Weather [sunny, etc]	sunny	overcast	sunny	pc
Soil/Leaf surface moist.....	dry/N/A	wet/wet	wet/dry	wet/wet
Crop stage/Height	N/A	3-4lf/6-9"	4lf-1tiller/12-14"	2-3tiller/16-18"
Sprayer type/MPH.....	CO ₂ BkPk/3.0	CO ₂ BkPk/3.0	CO ₂ BkPk/3.0	CO ₂ BkPk/3.0
Nozzle type/Size	FF/110015 TD	FF/110015 TD	FF/110015 TD	FF/110015 TD
Boom ht/# Noz/Spacing	13"/5/15"	22"/5/15"	26"/5/15"	32"/5/15"
GPA/PSI.....	15/28	15/28	15/30	15/28
Applied by	Griffin	Griffin	Griffin	Griffin

Weed Species (population)	------(height/#leaves)-----			
ECHCG (100-150 m ²)	2-6"/2-4lf	8-12"/1-2-tiller	10-14"/2-4tiller	
Perennial ECHCG (2-5 m ²)	6-10"/3-6lf	6-14"/6-10lf	12-18"/3-5runners	
CYPIR (20-50 m ²)	4-8"/3-4lf	10-14"/5-6lf	10-14"/5-6lf	
ORYSA (5-15 m ²).....	4-8"/3-4lf	8-10"/1-2-tiller	9-12"/1-3tillerslf	

Flush Dates..... : 05/23/03
 Permanent Flood..... : 07/10/03

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Location: Brian Leonards Farm

Investigator: Eric P. Webster

Weed Code	ECHCG	PERBYG	RED RICE	RICE
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	%	%	%	%
Rating Date	07/09/03	07/09/03	07/09/03	07/09/03
Trt-Eval Interval	16DALPOT	16DALPOT	16DALPOT	16DALPOT

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	ECHCG	PERBYG	RED RICE	RICE
1	Roundup WeatherMax	5	AS	19.2	oz/a	EPOT	70	74	83	84
2	Roundup WeatherMax	5	AS	28.8	oz/a	EPOT	73	69	84	89
3	Roundup WeatherMax	5	AS	38.4	oz/a	EPOT	60	81	86	91
4	Command	3	ME	17	oz/a	PRE	91	93	93	91
4	Roundup WeatherMax	5	AS	28.8	oz/a	MPOT				
5	Facet	75	DF	10.7	oz/a	PRE	89	89	90	88
5	Roundup WeatherMax	5	AS	28.8	oz/a	MPOT				
6	Roundup WeatherMax	5	AS	28.8	oz/a	EPOT	91	91	91	91
6	Roundup WeatherMax	5	AS	19.2	oz/a	LPOT				
7	Roundup WeatherMax	5	AS	38.4	oz/a	EPOT	95	95	95	94
7	Roundup WeatherMax	5	AS	28.8	oz/a	LPOT				
8	Nontreated						0	0	0	0

LSD (P=.05)	19.8	8.6	4.9	5.0
Standard Deviation	13.5	5.9	3.3	3.4
CV	18.95	7.94	4.25	4.37
Replicate F	1.101	0.446	2.365	1.152
Replicate Prob(F)	0.3706	0.7223	0.1000	0.3514
Treatment F	21.666	113.822	368.181	344.924
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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Weed Code	ECHCG	PERBYG	ORYSA	RICE
Rating Data Type	CONTROL	CONTROL	CONTROL	INJURY
Rating Unit	%	%	%	%
Rating Date	08/07/03	08/07/03	08/07/03	08/07/03
Trt-Eval Interval	45DALPOT	45DALPOT	45DALPOT	45DALPOT

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	ECHCG	PERBYG	ORYSA	RICE
1	Roundup WeatherMax	5	AS	19.2	oz/a	EPOT	35	35	43	80
2	Roundup WeatherMax	5	AS	28.8	oz/a	EPOT	53	53	55	80
3	Roundup WeatherMax	5	AS	38.4	oz/a	EPOT	53	53	55	83
4	Command	3	ME	17	oz/a	PRE	79	79	78	89
4	Roundup WeatherMax	5	AS	28.8	oz/a	MPOT				
5	Facet	75	DF	10.7	oz/a	PRE	80	80	78	84
5	Roundup WeatherMax	5	AS	28.8	oz/a	MPOT				
6	Roundup WeatherMax	5	AS	28.8	oz/a	EPOT	90	90	89	89
6	Roundup WeatherMax	5	AS	19.2	oz/a	LPOT				
7	Roundup WeatherMax	5	AS	38.4	oz/a	EPOT	90	90	90	90
7	Roundup WeatherMax	5	AS	28.8	oz/a	LPOT				
8	Nontreated						0	0	0	0

LSD (P=.05)	8.7	8.7	15.1	6.7
Standard Deviation	5.9	5.9	10.3	4.6
CV	9.93	9.93	16.88	6.18
Replicate F	0.258	0.258	0.740	2.218
Replicate Prob(F)	0.8547	0.8547	0.5401	0.1160
Treatment F	111.499	111.499	34.154	174.154
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001