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SOUTHERN ILLINOIS UNIVERSITY

PLANT AND SOIL SCIENCE DEPARTMENT

BELLEVILLE RESEARCH CENTER
Belleville, Illinois

1996 PROGRESS REPORT

SOYBEAN COMMON WATERHEMP CONTROL WITH PREPLANT

INCORPORATED, PREEMERGENCE, AND

POSTEMERGENCE HERBICIDE COMBINATIONS

George Kapusta, Susan E. Curvey, and Starr T. Autman

PLANT AND SOIL SCIENCE RESEARCH STATIONS
BELLEVILLE AND CARBONDALE

TABLE. SOYBEAN COMMON WATERHEMP CONTROL WITH PREPLANT INCORPORATED, PREEMERGENCE, AND POSTEMERGENCE HERBICIDE COMBINATIONS
 PROJECT CODE:96-6C (CONTINUED)

TREATMENT	FORM.	RATE	UNIT	PRODRATE	APPTW/CI	GLXMA INJURY, CONTROL, DAYS AFTER 2-4" W																	
						GLXMA YIELD			DA 2-4" W			SETFA			AMATA			AMARE					
						BU/A	%	%	0	14	28	56	0	14	28	56	0	14	28	56	0	14	28
1 NONTREATED	-					14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2 TWISTER	1.82	ME	0.416	LB A/A	1.8	PT	2-4" W	C															
2 SUN-IT II	8 AL	1.0	% V/V	1.0	%	2-4" W	C																
2 28% UAN	8 AL	2.5	% V/V	2.5	%	2-4" W	C																
3 TWISTER	1.82	ME	0.512	LB A/A	2.3	PT	2-4" W	C															
3 SUN-IT II	8 AL	1.0	% V/V	1.0	%	2-4" W	C																
3 28% UAN	8 AL	2.5	% V/V	2.5	%	2-4" W	C																
4 FUSION	2.66	EC	0.208	LB A/A	10.0	OZ	2-4" W	C															
4 FLEXSTAR HL	1.88	EC	0.313	LB A/A	1.3	PT	2-4" W	C															
4 SUN-IT II	8 AL	1.0	% V/V	1.0	%	2-4" W	C																
4 28% UAN	8 AL	2.5	% V/V	2.5	%	2-4" W	C																
5 FUSION	2.66	EC	0.208	LB A/A	10.0	OZ	2-4" W	C															
5 REFLEX	2	EC	0.313	LB A/A	1.3	PT	2-4" W	C															
5 SUN-IT II	8 AL	1.0	% V/V	1.0	%	2-4" W	C																
5 28% UAN	8 AL	2.5	% V/V	2.5	%	2-4" W	C																
6 PURSUIT	70	WG	0.063	LB A/A	1.44	OZ	2-4" W	C															
6 FLEXSTAR HL	1.88	EC	0.162	LB A/A	11.0	OZ	2-4" W	C															
6 SUN-IT II	8 AL	1.0	% V/V	1.0	%	2-4" W	C																
6 28% UAN	8 AL	2.5	% V/V	2.5	%	2-4" W	C																
7 PROWL	3.3	EC	1.25	LB A/A	3.0	PT	PPI	A															
7 FLEXSTAR HL	1.88	EC	0.313	LB A/A	1.3	PT	2-4" W	C															
7 SUN-IT II	8 AL	1.0	% V/V	1.0	%	2-4" W	C																
7 28% UAN	8 AL	2.5	% V/V	2.5	%	2-4" W	C																
8 TWISTER	1.82	ME	0.512	LB A/A	2.3	PT	2-4" W	C															
8 PRIME OIL COC	8 AL	0.50	% V/V	0.5	%	2-4" W	C																
8 SUN-IT II	8 AL	0.50	% V/V	0.5	%	2-4" W	C																
8 28% UAN	8 AL	2.5	% V/V	2.5	%	2-4" W	C																
9 PROWL	3.3	EC	1.25	LB A/A	3.0	PT	PPI	A															
10 SQUADRON	2.33	EC	0.875	LB A/A	3.0	PT	PPI	A															
11 PURSUIT	2	AS	0.063	LB A/A	4.0	OZ	2-4" W	C															
11 SUN-IT II	8 AL	1.0	% V/V	1.0	%	2-4" W	C																
11 28% UAN	8 AL	2.5	% V/V	2.5	%	2-4" W	C																

(CONTINUED)

TABLE. SOYBEAN COMMON WATERHEMP CONTROL WITH PREPLANT INCORPORATED, PREEMERGENCE, AND POSTEMERGENCE HERBICIDE COMBINATIONS
 PROJECT CODE:96-6C (CONTINUED)

TREATMENT	FORM.	RATE	UNIT	PRODRATE	APPTM/CI	GLXMA YIELD	GLXMA INJURY, CONTROL, DAYS AFTER 2-4" W																		
							DA 2-4" W			SETFA			AMATA			AMARE									
							0	14	28	56	0	14	28	56	0	14	28	56	0	14	28	56			
12 RAPTOR	1 AS	0.041	LB A/A	5.25	OZ	2-4" W	C	47	0	0	0	0	0	96	82	92	0	99	81	80	0	99	99	99	
12 SUN-IT 11	8 AL	1.0 % V/V		1.0 %		2-4" W	C																		
12 28% UAN	8 AL	2.5 % V/V		2.5 %		2-4" W	C																		
13 PROWL	3.3 EC	1.25	LB A/A	3.0	PT	PPI	A	41	0	0	0	0	0	96	99	99	99	76	99	99	98	76	99	99	99
13 PURSUIT	2 AS	0.063	LB A/A	4.0	OZ	2-4" W	C																		
13 SUN-IT 11	8 AL	1.0 % V/V		1.0 %		2-4" W	C																		
13 28% UAN	8 AL	2.5 % V/V		2.5 %		2-4" W	C																		
14 STEEL	2.57 EC	0.965	LB A/A	3.0	PT	PRE	B	47	0	0	0	0	0	99	99	99	98	99	99	98	99	99	99	99	
15 STEEL	2.57 EC	0.965	LB A/A	3.0	PT	PRE	B	43	0	0	0	0	0	98	99	98	98	99	99	99	99	99	99	99	
15 AUTHORITY	75 W6	0.155	LB A/A	3.3	OZ	PRE	B																		
16 SQUADRON	2.33 EC	0.874	LB A/A	3.0	PT	PRE	B	41	0	0	0	0	0	97	93	90	89	99	99	95	96	99	99	99	
17 PURSUIT PLUS	2.9 EC	0.90	LB A/A	2.5	PT	PRE	B	45	0	0	0	0	0	99	99	99	99	99	99	99	99	99	99	99	
17 AUTHORITY	75 W6	0.313	LB A/A	6.7	OZ	PRE	B																		
18 SQUADRON	2.33 EC	0.874	LB A/A	3.0	PT	PRE	B	48	0	0	0	0	0	99	99	98	98	99	99	99	99	99	99	99	
18 AUTHORITY	75 W6	0.313	LB A/A	6.7	OZ	PRE	B																		
19 PROWL	3.3 EC	0.413	LB A/A	1.0	PT	PRE	B	59	0	0	0	0	0	99	99	98	98	99	99	99	99	99	99	99	
19 SQUADRON	2.33 EC	0.874	LB A/A	3.0	PT	PRE	B																		
19 STATUS	2 EC	0.188	LB A/A	12.0	OZ	2-4" W	C																		
19 PRIME OIL COC	8 AL	1.0 OT/A		1.0 OT		2-4" W	C																		
19 28% UAN	8 AL	1.0 OT/A		1.0 OT		2-4" W	C																		
20 DETAIL (FRONT/R/SCEP)	4.1 EC	1.0	LB A/A	2.0	PT	PRE	B	55	0	0	0	0	0	99	98	95	94	99	98	98	98	99	99	99	
21 DETAIL (FRONT/R/SCEP)	4.1 EC	1.0	LB A/A	2.0	PT	PRE	B	56	0	0	0	0	0	99	98	97	97	99	99	99	99	99	99	99	
21 AUTHORITY	75 W6	0.313	LB A/A	6.7	OZ	PRE	B																		
22 DETAIL (FRONT/R/SCEP)	4.1 EC	1.0	LB A/A	2.0	PT	PRE	B	57	0	0	0	0	0	99	99	98	97	99	99	99	99	99	99	99	
22 STATUS	2 EC	0.188	LB A/A	12.0	OZ	2-4" W	C																		
22 PRIME OIL COC	8 AL	1.0 OT/A		1.0 OT		2-4" W	C																		
22 28% UAN	8 AL	1.0 OT/A		1.0 OT		2-4" W	C																		
23 PROWL	3.3 EC	1.24	LB A/A	3.0	PT	PRE	B	54	0	0	0	0	0	99	98	96	95	94	99	99	99	99	99	99	
23 PURSUIT	2 AS	0.063	LB A/A	4.0	OZ	2-4" W	C																		
23 STATUS	2 EC	0.156	LB A/A	10.0	OZ	2-4" W	C																		
23 PRIME OIL COC	8 AL	1.0 OT/A		1.0 OT		2-4" W	C																		
23 28% UAN	8 AL	1.0 OT/A		1.0 OT		2-4" W	C																		

(CONTINUED)

TABLE. SOYBEAN COMMON WATERHEMP CONTROL WITH PREPLANT INCORPORATED, PREEMERGENCE, AND POSTEMERGENCE HERBICIDE COMBINATIONS
 PROJECT CODE:96-6C (CONTINUED)

TREATMENT	FORM.	RATE	RATE/UNIT	PRODRATE	APPTM/CI	GLXMA INJURY, CONTROL, DAYS AFTER 2-4"W																			
						GLXMA YIELD			DA 2-4"W			SETFA			AMATA			AMARE							
						BU/A	%	%	0	14	28	56	0	14	28	56	0	14	28	56	0	14	28	56	
24 PROWL	3.3 EC	1.24	LB A/A	3.0	PT	PRE	B	55	0	0	0	0	99	99	99	99	99	99	99	99	99	99	99	99	
24 RAPTOR	1 AS	0.063	LB A/A	8.1	OZ	2-4"W	C																		
24 STATUS	2 EC	0.156	LB A/A	10.0	OZ	2-4"W	C																		
24 PRIME OIL COC	8 AL	1.0	QT/A	1.0	QT	2-4"W	C																		
24 28% UAN	8 AL	1.0	QT/A	1.0	QT	2-4"W	C																		
25 AUTHORITY	75 WG	0.155	LB A/A	3.3	OZ	PRE	B	55	0	0	0	0	88	99	99	97	99	99	99	99	99	99	99	99	99
25 RAPTOR	1 AS	0.039	LB A/A	5.0	OZ	2-4"W	C																		
25 PRIME OIL COC	8 AL	1.0	QT/A	1.0	QT	2-4"W	C																		
25 28% UAN	8 AL	1.0	QT/A	1.0	QT	2-4"W	C																		
26 FRONTIER 6.0	6 EC	1.17	LB A/A	1.6	PT	PRE	B	48	0	0	0	0	97	99	99	99	96	99	99	99	96	99	99	99	
26 RAPTOR	1 AS	0.039	LB A/A	5.0	OZ	2-4"W	C																		
26 PRIME OIL COC	8 AL	1.0	QT/A	1.0	QT	2-4"W	C																		
26 28% UAN	8 AL	1.0	QT/A	1.0	QT	2-4"W	C																		
27 PROWL	3.3 EC	1.24	LB A/A	3.0	PT	PPI	A	52	0	0	0	0	96	99	99	97	90	99	99	96	90	99	99	99	
27 RAPTOR	1 AS	0.039	LB A/A	5.0	OZ	2-4"W	C																		
27 PRIME OIL COC	8 AL	0.5	QT/A	0.5	QT	2-4"W	C																		
27 28% UAN	8 AL	1.0	QT/A	1.0	QT	2-4"W	C																		
28 CANOPY	75 WG	0.141	LB A/A	3.0	OZ	PRE	B	41	0	0	0	0	94	93	72	62	99	99	99	99	99	99	99	99	99
28 LOROX	50 WG	0.50	LB A/A	1.0	LB	PRE	B																		
29 BROADSTRIKE/DUAL	7.67 EC	1.93	LB A/A	2.0	PT	PRE	B	52	0	0	0	0	99	99	99	93	99	99	99	98	99	99	99	99	99
30 BROADSTRIKE/TREFLAN	3.65 EC	0.913	LB A/A	2.0	PT	PPI	A	39	0	0	0	0	95	97	91	70	99	93	98	96	99	99	99	99	99
LSD								13	0	0	0	0	4	12	13	16	12	16	18	19	12	1	17	17	
P								0.01	1.0	1.0	1.0	1.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

1. RATING DATES: 0, 14, 28, AND 56 DAYS AFTER 2-4"W APPLICATION ON 6-24-96, 7-8-96, 7-22-96, AND 8-19-96, RESPECTIVELY.