

Postemergence Broadleaf Comparison in Soybean.

00-2B-MW90

OBJECTIVE: Evaluate various postemergence broadleaf herbicides for control of common ragweed and waterhemp.

SUMMARY: Soybean injury was 13 to 23, 15, and 13 to 30% from Flexstar, Ultra Blazer, and Cobra treatments, respectively. Replacing Prime Oil with Pro-X in combination with Cobra at 8 oz/A reduced soybean injury by 7 to 10%. All treatments except Prowl followed by Pursuit controlled at least 90% of common cocklebur at 28 days after treatment (DAT). Only Flexstar at 20 or 24 oz/A and Cobra controlled at least 90% of common ragweed. Common waterhemp control was greatest with Flexstar at 20 or 24 oz/A and treatments that included a preemergence herbicide. No treatment in this study controlled greater than 86% of morningglory species. Soybean yield ranged from 15 bu/A in nontreated plots to 32 bu/A. The highest soybean yield was observed in plots treated with Sencor followed by Flexstar plus Fusion.

HERBICIDES

COBRA 2 EC
 FIRSTRATE 84 WG
 FLEXSTAR 1.88 EC
 FUSION 2.66 EC
 PROWL 3.3 EC
 PURSUIT 70 WG
 RAPTOR 1 AS
 SELECT 2 EC
 SENCOR 75 WG
 ULTRA BLAZER 2 SL
 PRO-X 100 LIQ

WEEDS

COCKLEBUR, COMMON
 FOXTAIL, GIANT
 MORNINGGLORY, IVYLEAF
 MORNINGGLORY, PITTED
 MORNINGGLORY, SPECIES
 NUTSEDGE, YELLOW
 RAGWEED, COMMON
 SMARTWEED, PENNSYLVANIA
 VELVETLEAF
 WATERHEMP, COMMON

CROP

SOYBEAN

Bryan Young and Brad Johnson

PLANT, SOIL AND GENERAL AGRICULTURE DEPARTMENT

SOUTHERN ILLINOIS UNIVERSITY

Postemergence Broadleaf Comparison in Soybean.

Project Code: 00-2B-MW90 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

Weed Code	Common Name	Scientific Name
1. SETFA	FOXTAIL, GIANT	SETARIA FABERI HERRM.
2. CYPES	NUTSEDGE, YELLOW	CYPERUS ESCULENTUS L.
3. AMATA	WATERHEMP, COMMON	AMARANTHUS RUDIS SAUER
4. AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
5. POLPY	SMARTWEED, PENNSYLVANIA	POLYGONUM PENNSYLVANICUM L.
6. XANST	COCKLEBUR, COMMON	XANTHIUM STRUMARIUM L. SSP. STRUMARIUM
7. ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
8. IPOHE	MORNINGGLORY, IVYLEAF	IPOMOEA HEDERACEA (L.) JACQ.
9. IPOLA	MORNINGGLORY, PITTED	IPOMOEA LACUNOSA L.
10. IPOSS	MORNINGGLORY, SPECIES	IPOMOEA SP.

Crop 1:	GLXMA SOYBEAN	Variety:	B-T 369CR
Planting Method:	SEEDED	Planting Date:	May-11-00
Rate:	75 LB/A	Depth:	1.0 IN
Row Spacing:	30 IN		

Plot Width, Unit:	10 FT	Plot Length, Unit:	28 FT	Reps:	3
Tillage Type:	REDUCED-TILL	Study Design:	RCB		
Previous Crop, Year:	ZEAMX, 1999	Fertilizer applied:	N 0 LB/A,	P ₂ O ₅ 50 LB/A,	K ₂ O 150 LB/A

Soil Name:	WEIR	% OM:	1.8	pH:	6.5	CEC:	9
Texture:	SILT LOAM	P ₁ :	79 LB/A,	K:	436 LB/A		

APPLICATION DESCRIPTION

	A	B	C	D	E
Application Date:	May-12-00	Jun-5-00	Jun-12-00	Jun-12-00	Jun-19-00
Time of Day:	6:00	10:00	13:00	13:00	9:00
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	3"GR	3-4"W-1	3-4"W-2	4-6"W
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	80 F	70 F	82 F	82 F	75 F
% Relative Humidity:	96	88	70	70	95
Wind Velocity, Unit:	0 MPH	4-6 MPH	5-7 MPH	5-7 MPH	0-3 MPH
Soil Moisture:	DRY	NORMAL	NORMAL	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E
Crop 1 Code, Stage:	NA	GLXMA V1	GLXMA V2	GLXMA V2	GLXMA V3-V4
Height, Unit:	NA	3-5 IN	4-6 IN	4-6 IN	6-7 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E
Weed 1 Code:	SETFA	SETFA	SETFA	SETFA	SETFA
Stage(leaves):	2-3	4-6	4-6	4-6	4-6
Height(inches):	2-3	3-5	2-4	2-4	2-4
Density:	HIGH	HIGH	HIGH	HIGH	MEDIUM
Weed 2 Code:	CYPES	CYPES	CYPES	CYPES	CYPES
Stage(leaves):	4-5	5-7	4-6	4-6	4-8
Height(inches):	3-4	4-6	4-6	4-6	3-6
Density:	MEDIUM	HIGH	HIGH	HIGH	HIGH
Weed 3 Code:	AMATA	AMATA	AMATA	AMATA	AMATA
Stage(leaves):	2-5	4	4	4-6	4-6
Height(inches):	0-3	2	2	0-2	0-2
Density:	MEDIUM	LOW	LOW	LOW	LOW
Weed 4 Code:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Stage(leaves):	3-4	4-8	4-8	4-8	5-10+
Height(inches):	1-2	2-4	1-4	1-4	2-6
Density:	HIGH	HIGH	HIGH	HIGH	HIGH
Weed 5 Code:	POLPY	POLPY	POLPY	POLPY	POLPY
Stage(leaves):	3-4	6-8	5-8	4-8	4-8
Height(inches):	2-3	4-5	4-8	3-5	3-5
Density:	LOW	MEDIUM	MEDIUM	HIGH	HIGH
Weed 6 Code:	XANST	XANST	XANST	XANST	XANST
Stage(leaves):	4-6	2-4	2-4	4-5	4-5
Height(inches):	2-5	2-4	2-4	3-4	3-4
Density:	MEDIUM	MEDIUM	MEDIUM	LOW	LOW

(continued)

Postemergence Broadleaf Comparison in Soybean.

Project Code: 00-2B-MW90 Location: Belleville Research Center

(continued)

Weed 7 Code:	ABUTH	ABUTH	ABUTH	ABUTH
Stage(leaves):	1-2	2-4	1-3	2-4
Height(inches):	1-2	1-2.5	0-1	2-4
Density:	LOW	MEDIUM	MEDIUM	LOW

Weed 8 Code:	IPOHE	IPOHE		IPOHE
Stage(leaves):	3-5	3-5		4-6
Height(inches):	1-3	2-3		2
Density:	LOW	LOW		LOW

Weed 9 Code:		IPOLA	IPOLA	IPOLA
Stage(leaves):		2-4	2-4	4-6
Height(inches):		2-3	1-2	2-4
Density:		MEDIUM	MEDIUM	MEDIUM

APPLICATION EQUIPMENT

	A	B	C	D	E
Appl. Equipment:	CO ₂ SPRAY	CO ₂ SPRAY	CO ₂ SPRAY	CO ₂ SPRAY	CO ₂ SPRAY
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	8003	8002	8002	8002	8002
Boom Length, Unit:	7.33 FT	7.33 FT	7.33 FT	7.33 FT	7.33 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA

NOTES:

Harvested Oct-23-00, (2) 30 inch rows by 25 ft.

TABLE. POSTEMERGENCE BROADLEAF COMPARISON IN SOYBEAN. PROJECT CODE:00-2B-MW90

TREATMENT	FORM.	RATE	UNIT	PROD RATE	APPL TIME	APPL CODE	YIELD	GLXMA				CONTROL, DAYS AFTER TREATMENT																						
								INJURY, DAT				SETFA			CYPES			AMBEL			XANST													
								3	7	14	28	7	14	28	7	14	28	7	14	28	7	14	28											
BU/A	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%																		
1 NONTREATED							15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2 PROWL	3.3 EC	1.05	LB A/A	2.55	PT/A	PRE	A	23	15	17	12	7	90	91	85	57	50	40	89	90	85	95	99	93										
2 PURSUIT	70 WG	0.063	LB A/A	1.44	OZ/A	3-4"W-2	D																											
2 FLEXSTAR	1.88 EC	0.176	LB A/A	12.0	OZ/A	3-4"W-2	D																											
2 ACTIVATOR 90	100 LIQ	0.25	% V/V	0.25	%V/V	3-4"W-2	D																											
2 28% UAN	100 LIQ	1.0	QT/A	1.0	QT/A	3-4"W-2	D																											
3 PROWL	3.3 EC	1.05	LB A/A	2.55	PT/A	PRE	A	22	20	18	12	6	90	92	82	57	53	23	89	87	80	95	95	92										
3 RAPTOR	1 AS	0.039	LB A/A	5.0	OZ/A	3-4"W-2	D																											
3 FLEXSTAR	1.88 EC	0.176	LB A/A	12.0	OZ/A	3-4"W-2	D																											
3 ACTIVATOR 90	100 LIQ	0.25	% V/V	0.25	%V/V	3-4"W-2	D																											
3 28% UAN	100 LIQ	1.0	QT/A	1.0	QT/A	3-4"W-2	D																											
4 PURSUIT	70 WG	0.063	LB A/A	1.44	OZ/A	3-4"W-1	C	26	13	13	10	2	85	77	40	50	47	37	88	88	81	96	96	93										
4 FLEXSTAR	1.88 EC	0.176	LB A/A	12.0	OZ/A	3-4"W-1	C																											
4 ACTIVATOR 90	100 LIQ	0.25	% V/V	0.25	%V/V	3-4"W-1	C																											
4 28% UAN	100 LIQ	1.0	QT/A	1.0	QT/A	3-4"W-1	C																											
5 RAPTOR	1 AS	0.039	LB A/A	5.0	OZ/A	3-4"W-1	C	24	15	17	12	3	83	82	37	55	50	37	90	88	83	95	95	91										
5 FLEXSTAR	1.88 EC	0.176	LB A/A	12.0	OZ/A	3-4"W-1	C																											
5 ACTIVATOR 90	100 LIQ	0.25	% V/V	0.25	%V/V	3-4"W-1	C																											
5 28% UAN	100 LIQ	1.0	QT/A	1.0	QT/A	3-4"W-1	C																											
6 SENCOR	75 WG	0.125	LB A/A	2.67	OZ/A	PRE	A	32	25	20	8	0	93	95	88	57	40	27	96	95	92	95	93	92										
6 FLEXSTAR	1.88 EC	0.294	LB A/A	20.0	OZ/A	4-6"W	E																											
6 FUSION	2.66 EC	0.208	LB A/A	10.0	OZ/A	4-6"W	E																											
6 DESTINY MSO	100 LIQ	1.0	% V/V	1.0	%V/V	4-6"W	E																											
6 28% UAN	100 LIQ	2.5	% V/V	2.5	%V/V	4-6"W	E																											
7 PROWL	3.3 EC	1.25	LB A/A	3.0	PT/A	PRE	A	24	7	7	3	2	85	92	86	52	63	58	70	75	55	86	87	88										
7 PURSUIT	70 WG	0.063	LB A/A	1.44	OZ/A	4-6"W	E																											
7 DESTINY MSO	100 LIQ	1.0	% V/V	1.0	%V/V	4-6"W	E																											
7 28% UAN	100 LIQ	2.5	% V/V	2.5	%V/V	4-6"W	E																											
8 FUSION	2.66 EC	0.208	LB A/A	10.0	OZ/A	3"GR	B	29	23	20	5	0	99	95	90	68	53	40	98	96	95	98	98	96										
8 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B																											
8 FLEXSTAR	1.88 EC	0.294	LB A/A	20.0	OZ/A	4-6"W	E																											
8 DESTINY MSO	100 LIQ	1.0	% V/V	1.0	%V/V	4-6"W	E																											
8 28% UAN	100 LIQ	2.5	% V/V	2.5	%V/V	4-6"W	E																											

(CONTINUED)

TABLE. POSTEMERGENCE BROADLEAF COMPARISON IN SOYBEAN. PROJECT CODE:00-2B-MW90 (CONTINUED)

TREATMENT	FORM.	RATE	UNIT	PROD RATE	APPL TIME	APPL CODE	YIELD	GLXMA				CONTROL, DAYS AFTER TREATMENT												
								INJURY, DAT				SETFA			CYPES			AMBEL			XANST			
								3	7	14	28	7	14	28	7	14	28	7	14	28	7	14	28	
BU/A	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%								
9 FUSION	2.66 EC	0.208	LB A/A	10.0	OZ/A	3"GR	B	30	25	23	8	0	99	95	90	70	48	33	98	95	93	99	95	92
9 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B																	
9 FLEXSTAR	1.88 EC	0.353	LB A/A	24.0	OZ/A	4-6"W	E																	
9 DESTINY MSO	100 LIQ	1.0	% V/V	1.0	%V/V	4-6"W	E																	
9 28% UAN	100 LIQ	2.5	% V/V	2.5	%V/V	4-6"W	E																	
10 FUSION	2.66 EC	0.208	LB A/A	10.0	OZ/A	3"GR	B	30	15	15	8	0	98	92	87	78	53	33	90	85	75	95	95	92
10 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B																	
10 ULTRA BLAZER	2 SL	0.375	LB A/A	24.0	OZ/A	4-6"W	E																	
11 FUSION	2.66 EC	0.208	LB A/A	10.0	OZ/A	3"GR	B	24	30	25	12	2	96	92	89	57	37	30	98	95	95	98	95	95
11 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B																	
11 COBRA	2 EC	0.125	LB A/A	8.0	OZ/A	4-6"W	E																	
11 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	4-6"W	E																	
12 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	3"GR	B	23	28	25	13	0	90	89	87	57	37	30	99	93	93	99	96	95
12 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B																	
12 COBRA	2 EC	0.125	LB A/A	8.0	OZ/A	4-6"W	E																	
12 PRIME OIL COC	100 LIQ	1.0	PT/A	1.0	PT/A	4-6"W	E																	
12 AMS	100 DRY	2.0	LB/A	2.0	LB/A	4-6"W	E																	
13 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	3"GR	B	25	25	23	10	2	93	90	87	77	85	80	95	95	95	95	96	96
13 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B																	
13 COBRA	2 EC	0.125	LB A/A	8.0	OZ/A	4-6"W	E																	
13 FIRSTRATE	84 WG	0.01575	LB A/A	0.3	OZ/A	4-6"W	E																	
13 PRIME OIL COC	100 LIQ	1.0	PT/A	1.0	PT/A	4-6"W	E																	
13 AMS	100 DRY	2.0	LB/A	2.0	LB/A	4-6"W	E																	
14 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	3"GR	B	25	5	3	2	0	92	84	83	50	77	75	75	83	83	87	90	90
14 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B																	
14 FIRSTRATE	84 WG	0.01575	LB A/A	0.3	OZ/A	4-6"W	E																	
14 PRIME OIL COC	100 LIQ	1.0	PT/A	1.0	PT/A	4-6"W	E																	
14 AMS	100 DRY	2.0	LB/A	2.0	LB/A	4-6"W	E																	
15 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	3"GR	B	23	22	18	10	0	95	91	88	60	27	27	93	92	92	99	96	96
15 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B																	
15 COBRA	2 EC	0.125	LB A/A	8.0	OZ/A	4-6"W	E																	
15 PRO-X	100 LIQ	1.0	PT/A	1.0	PT/A	4-6"W	E																	
15 AMS	100 DRY	2.0	LB/A	2.0	LB/A	4-6"W	E																	

(CONTINUED)

TABLE. POSTEMERGENCE BROADLEAF COMPARISON IN SOYBEAN. PROJECT CODE:00-2B-MW90 (CONTINUED)

TREATMENT	FORM.	RATE	UNIT	PROD RATE	APPL TIME	APPL CODE	YIELD	GLXMA				CONTROL, DAYS AFTER TREATMENT											
								INJURY, DAT				SETFA			CYPES			AMBEL			XANST		
								3	7	14	28	7	14	28	7	14	28	7	14	28	7	14	28
BU/A	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%							
16 SELECT	2 EC	0.094	LB A/A	6.0 OZ/A	3"GR	B	29	17	13	3	0	90	88	83	73	85	77	92	92	92	96	96	96
16 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0 %V/V	3"GR	B																	
16 COBRA	2 EC	0.125	LB A/A	8.0 OZ/A	4-6"W	E																	
16 FIRSTRATE	84 WG	0.01575	LB A/A	0.3 OZ/A	4-6"W	E																	
16 PRO-X	100 LIQ	1.0	PT/A	1.0 PT/A	4-6"W	E																	
16 AMS	100 DRY	2.0	LB/A	2.0 LB/A	4-6"W	E																	
17 SELECT	2 EC	0.094	LB A/A	6.0 OZ/A	3"GR	B	23	32	30	15	10	90	88	84	70	40	37	95	93	93	95	96	95
17 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0 %V/V	3"GR	B																	
17 COBRA	2 EC	0.1875	LB A/A	12.0 OZ/A	4-6"W	E																	
17 PRIME OIL COC	100 LIQ	1.0	PT/A	1.0 PT/A	4-6"W	E																	
17 AMS	100 DRY	2.0	LB/A	2.0 LB/A	4-6"W	E																	
18 SELECT	2 EC	0.094	LB A/A	6.0 OZ/A	3"GR	B	28	27	27	12	0	90	87	84	75	47	40	95	93	92	98	98	96
18 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0 %V/V	3"GR	B																	
18 COBRA	2 EC	0.1875	LB A/A	12.0 OZ/A	4-6"W	E																	
18 PRO-X	100 LIQ	1.0	PT/A	1.0 PT/A	4-6"W	E																	
18 AMS	100 DRY	2.0	LB/A	2.0 LB/A	4-6"W	E																	
LSD							7	4	4	5	3	4	5	8	12	11	12	4	5	12	4	4	5
P							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	0.01	0.01	0.01	0.01

(CONTINUED)

TABLE. POSTEMERGENCE BROADLEAF COMPARISON IN SOYBEAN. PROJECT CODE:00-2B-MW90 (CONTINUED)

TREATMENT	FORM.	RATE	UNIT	PROD RATE	APPL TIME	APPL CODE	CONTROL, DAYS AFTER TREATMENT											
							IPOSS			AMATA			ABUTH			POLPY		
							7	14	28	7	14	28	7	14	28	7	14	28
% % %			% % %			% % %			% % %									
1 NONTREATED							0	0	0	0	0	0	0	0	0	0	0	0
2 PROWL	3.3 EC	1.05	LB A/A	2.55	PT/A	PRE A	87	82	77	99	99	93	98	96	93	95	96	92
2 PURSUIT	70 WG	0.063	LB A/A	1.44	OZ/A	3-4"W-2 D												
2 FLEXSTAR	1.88 EC	0.176	LB A/A	12.0	OZ/A	3-4"W-2 D												
2 ACTIVATOR 90	100 LIQ	0.25	% V/V	0.25	%V/V	3-4"W-2 D												
2 28% UAN	100 LIQ	1.0	QT/A	1.0	QT/A	3-4"W-2 D												
3 PROWL	3.3 EC	1.05	LB A/A	2.55	PT/A	PRE A	88	85	75	99	98	92	96	96	92	95	96	90
3 RAPTOR	1 AS	0.039	LB A/A	5.0	OZ/A	3-4"W-2 D												
3 FLEXSTAR	1.88 EC	0.176	LB A/A	12.0	OZ/A	3-4"W-2 D												
3 ACTIVATOR 90	100 LIQ	0.25	% V/V	0.25	%V/V	3-4"W-2 D												
3 28% UAN	100 LIQ	1.0	QT/A	1.0	QT/A	3-4"W-2 D												
4 PURSUIT	70 WG	0.063	LB A/A	1.44	OZ/A	3-4"W-1 C	89	83	73	99	98	86	93	91	89	92	90	82
4 FLEXSTAR	1.88 EC	0.176	LB A/A	12.0	OZ/A	3-4"W-1 C												
4 ACTIVATOR 90	100 LIQ	0.25	% V/V	0.25	%V/V	3-4"W-1 C												
4 28% UAN	100 LIQ	1.0	QT/A	1.0	QT/A	3-4"W-1 C												
5 RAPTOR	1 AS	0.039	LB A/A	5.0	OZ/A	3-4"W-1 C	87	84	77	99	96	87	93	93	90	92	91	85
5 FLEXSTAR	1.88 EC	0.176	LB A/A	12.0	OZ/A	3-4"W-1 C												
5 ACTIVATOR 90	100 LIQ	0.25	% V/V	0.25	%V/V	3-4"W-1 C												
5 28% UAN	100 LIQ	1.0	QT/A	1.0	QT/A	3-4"W-1 C												
6 SENCOR	75 WG	0.125	LB A/A	2.67	OZ/A	PRE A	92	89	83	99	95	92	96	92	91	93	91	90
6 FLEXSTAR	1.88 EC	0.294	LB A/A	20.0	OZ/A	4-6"W E												
6 FUSION	2.66 EC	0.208	LB A/A	10.0	OZ/A	4-6"W E												
6 DESTINY MSO	100 LIQ	1.0	% V/V	1.0	%V/V	4-6"W E												
6 28% UAN	100 LIQ	2.5	% V/V	2.5	%V/V	4-6"W E												
7 PROWL	3.3 EC	1.25	LB A/A	3.0	PT/A	PRE A	77	82	78	93	93	89	89	89	87	91	91	89
7 PURSUIT	70 WG	0.063	LB A/A	1.44	OZ/A	4-6"W E												
7 DESTINY MSO	100 LIQ	1.0	% V/V	1.0	%V/V	4-6"W E												
7 28% UAN	100 LIQ	2.5	% V/V	2.5	%V/V	4-6"W E												
8 FUSION	2.66 EC	0.208	LB A/A	10.0	OZ/A	3"GR B	92	89	85	98	96	93	93	93	89	93	85	80
8 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR B												
8 FLEXSTAR	1.88 EC	0.294	LB A/A	20.0	OZ/A	4-6"W E												
8 DESTINY MSO	100 LIQ	1.0	% V/V	1.0	%V/V	4-6"W E												
8 28% UAN	100 LIQ	2.5	% V/V	2.5	%V/V	4-6"W E												

(CONTINUED)

TABLE. POSTEMERGENCE BROADLEAF COMPARISON IN SOYBEAN. PROJECT CODE:00-2B-MW90 (CONTINUED)

TREATMENT	FORM.	RATE	UNIT	PROD RATE	APPL TIME	APPL CODE	CONTROL, DAYS AFTER TREATMENT												
							IPOSS			AMATA			ABUTH			POLPY			
							7	14	28	7	14	28	7	14	28	7	14	28	
% % %			% % %			% % %			% % %										
9 FUSION	2.66 EC	0.208	LB A/A	10.0	OZ/A	3"GR	B	93	89	85	99	96	93	93	91	88	95	92	90
9 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B												
9 FLEXSTAR	1.88 EC	0.353	LB A/A	24.0	OZ/A	4-6"W	E												
9 DESTINY MSO	100 LIQ	1.0	% V/V	1.0	%V/V	4-6"W	E												
9 28% UAN	100 LIQ	2.5	% V/V	2.5	%V/V	4-6"W	E												
10 FUSION	2.66 EC	0.208	LB A/A	10.0	OZ/A	3"GR	B	90	89	86	99	88	84	87	81	73	93	85	80
10 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B												
10 ULTRA BLAZER	2 SL	0.375	LB A/A	24.0	OZ/A	4-6"W	E												
11 FUSION	2.66 EC	0.208	LB A/A	10.0	OZ/A	3"GR	B	85	84	78	99	93	89	90	88	87	73	43	20
11 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B												
11 COBRA	2 EC	0.125	LB A/A	8.0	OZ/A	4-6"W	E												
11 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	4-6"W	E												
12 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	3"GR	B	89	87	80	96	92	89	87	83	83	72	43	23
12 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B												
12 COBRA	2 EC	0.125	LB A/A	8.0	OZ/A	4-6"W	E												
12 PRIME OIL COC	100 LIQ	1.0	PT/A	1.0	PT/A	4-6"W	E												
12 AMS	100 DRY	2.0	LB/A	2.0	LB/A	4-6"W	E												
13 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	3"GR	B	90	89	86	98	90	88	90	90	89	87	78	57
13 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B												
13 COBRA	2 EC	0.125	LB A/A	8.0	OZ/A	4-6"W	E												
13 FIRSTRATE	84 WG	0.01575	LB A/A	0.3	OZ/A	4-6"W	E												
13 PRIME OIL COC	100 LIQ	1.0	PT/A	1.0	PT/A	4-6"W	E												
13 AMS	100 DRY	2.0	LB/A	2.0	LB/A	4-6"W	E												
14 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	3"GR	B	72	80	78	70	50	30	78	86	86	70	58	45
14 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B												
14 FIRSTRATE	84 WG	0.01575	LB A/A	0.3	OZ/A	4-6"W	E												
14 PRIME OIL COC	100 LIQ	1.0	PT/A	1.0	PT/A	4-6"W	E												
14 AMS	100 DRY	2.0	LB/A	2.0	LB/A	4-6"W	E												
15 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	3"GR	B	83	72	67	99	90	88	89	84	83	73	43	23
15 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B												
15 COBRA	2 EC	0.125	LB A/A	8.0	OZ/A	4-6"W	E												
15 PRO-X	100 LIQ	1.0	PT/A	1.0	PT/A	4-6"W	E												
15 AMS	100 DRY	2.0	LB/A	2.0	LB/A	4-6"W	E												

(CONTINUED)

TABLE. POSTEMERGENCE BROADLEAF COMPARISON IN SOYBEAN. PROJECT CODE:00-2B-MW90 (CONTINUED)

TREATMENT	FORM.	RATE	UNIT	PROD RATE	APPL TIME	APPL CODE	CONTROL, DAYS AFTER TREATMENT												
							IPOSS			AMATA			ABUTH			POLPY			
							7	14	28	7	14	28	7	14	28	7	14	28	
% % %			% % %			% % %			% % %										
16 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	3"GR	B	86	87	84	99	92	89	92	91	89	87	85	80
16 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B												
16 COBRA	2 EC	0.125	LB A/A	8.0	OZ/A	4-6"W	E												
16 FIRSTRATE	84 WG	0.01575	LB A/A	0.3	OZ/A	4-6"W	E												
16 PRO-X	100 LIQ	1.0	PT/A	1.0	PT/A	4-6"W	E												
16 AMS	100 DRY	2.0	LB/A	2.0	LB/A	4-6"W	E												
17 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	3"GR	B	89	89	83	99	95	90	88	86	86	80	60	35
17 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B												
17 COBRA	2 EC	0.1875	LB A/A	12.0	OZ/A	4-6"W	E												
17 PRIME OIL COC	100 LIQ	1.0	PT/A	1.0	PT/A	4-6"W	E												
17 AMS	100 DRY	2.0	LB/A	2.0	LB/A	4-6"W	E												
18 SELECT	2 EC	0.094	LB A/A	6.0	OZ/A	3"GR	B	88	88	82	99	88	87	92	92	90	82	60	40
18 PRIME OIL COC	100 LIQ	1.0	% V/V	1.0	%V/V	3"GR	B												
18 COBRA	2 EC	0.1875	LB A/A	12.0	OZ/A	4-6"W	E												
18 PRO-X	100 LIQ	1.0	PT/A	1.0	PT/A	4-6"W	E												
18 AMS	100 DRY	2.0	LB/A	2.0	LB/A	4-6"W	E												
LSD								4	5	6	3	6	5	5	6	6	7	13	15
P								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. PROTOCOL: AMCY TRTS 2-5; ZENECA TRTS 6-11; VALENT TRTS 12-16 (MD01.10).
2. DAT = DAYS AFTER THE FINAL APPLICATION FOR EACH TREATMENT.
3. RATING DATES:
 3 DAYS AFTER 3-4"W-1, 3-4"W-2 AND 4-6"W APPLICATIONS ON JUN-15-00, JUN-15-00 AND JUN-22-00, RESPECTIVELY.
 7 DAYS AFTER 3-4"W-1, 3-4"W-2 AND 4-6"W APPLICATIONS ON JUN-16-00, JUN-16-00 AND JUN-26-00, RESPECTIVELY.
 14 DAYS AFTER 3-4"W-1, 3-4"W-2 AND 4-6"W APPLICATIONS ON JUN-26-00, JUN-26-00 AND JUL-3-00, RESPECTIVELY.
 28 DAYS AFTER 3-4"W-1, 3-4"W-2 AND 4-6"W APPLICATIONS ON JUL-10-00, JUL-10-00 AND JUL-17-00, RESPECTIVELY