

Weed control with AMV5233D in XtendFlex soybean

Trial ID: SOY18-23 Study Dir.: Sprague, Stiles
 Conducted: Campus, B-9 Investigator: Christy Sprague

Planting Date: May-10-2023 **Row Spacing:** 30 IN
Variety: AG26XF3 **No. of Reps:** 4
Population: 150000 S/A **% OM:** 2
Soil Type: SL sandy loam **pH:** 6.9
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops:
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	annual grass	mainly foxtail sp. and barnyardgrass
2	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	common ragweed	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B	C	D
Application Timing:	PRE	EPOS	POST	LPOS
Date Treated:	May-10-2023	Jun-16-2023	Jun-23-2023	Jul-7-2023
Time Treated:	5:45 PM	8:20 AM	11:00 AM	12:10 AM
% Cloud Cover:	0	100	100	20
Air Temp., Unit:	77 F	59 F	71 F	76 F
% Relative Humidity:	33	81	65	43
Wind Speed/Unit/Dir:	6 MPH W	10 MPH N	8 MPH NE	4 MPH NW
Soil Temp, Unit:	67 F	64 F	70 F	76 F
Leaf Moist/Dew Presence (Y/N):	N	N	N	N
Soil Moist:	5	5	5	3

Crop Stage at Each Application

	A	B	C	D
Crop 1 Name:	GLXMA	GLXMA	GLXMA	GLXMA
Height:		6 "	8 "	13 "
Stage:		V3	V3-V4	V5

Weed Stage at Each Application

	A	B	C	D
Weed 1 Name:	ANGR	ANGR	ANGR	ANGR
Height:		2-3 " (3)	5-13 " (6)	1 "
Stage:		3L-5L	6-8	1L
Weed 2 Name:	CHEAL	CHEAL	CHEAL	CHEAL
Height:		1 "	2-7 "	5-8 " (6)
Stage:		3L-5L	6-12	10-18
Weed 3 Name:	AMAPO	AMAPO	AMAPO	AMAPO
Height:				
Stage:				
Weed 4 Name:	AMBEL	AMBEL	AMBEL	AMBEL
Height:		2-4 "	2-14 " (6)	2-11 " (5)
Stage:		4L-6L	6-many	6L-12L
Weed 5 Name:	ABUTH	ABUTH	ABUTH	ABUTH
Height:		2 "	3-5 "	6-8 "
Stage:		6L	2L-6L	6L

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 MPH	AIXR	11003	18.0 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	TTI	11003	22.0 "	20 "	100 "	19 GAL/AC	WATER	25 PSI
C	CUB	3.8 MPH	TTI	11003	24.0 "	20 "	100 "	19 GAL/AC	WATER	25 PSI
D	CUB	3.8 MPH	TT	11003	30.0 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments: Turbo Teejet (TT) nozzles were also used with certain treatments for EPOS (B) and POST (C) applications at 30 PSI.

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Trial ID: SOY18-23

Protocol ID: SOY18-23 Location: Campus, B-9 Trial Year: 2023

Study Director: Sprague, Stiles Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jun-26-2023	Jun-26-2023	Jun-26-2023	Jun-26-2023	Jun-26-2023	Jun-26-2023	Jun-26-2023	Jul-7-2023	Jul-7-2023	
Rating Type	injury		control		control		control		injury	
Rating Unit/Min/Max	%, 0, 100		%, 0, 100		%, 0, 100		%, 0, 100		%, 0, 100	
Crop Type, Code	C, GLXMA								C, GLXMA	
Pest Code			ANGR		CHEAL		AMBEL		ABUTH	
Trt-Eval Interval	10 DA-B		10 DA-B		10 DA-B		10 DA-B		14 DA-C	
Number of Decimals	0		0		0		0		0	

Trt No.	Treatment Name	Rate	Appl Unit	Appl Code	Appl Timing	Jun-26-2023 injury	Jun-26-2023 control	Jun-26-2023 control	Jun-26-2023 control	Jun-26-2023 control	Jul-7-2023 injury	Jul-7-2023 control
1	Untreated					0	0	0	0	0	0	0
2	Turbo Teejet nozzle		B		EPOS	1	100	98	100	98	0	100
	Liberty	32 fl oz/a	B		EPOS							
	AMS	3 lb/a	B		EPOS							
3	Turbo Teejet nozzle		B		EPOS	2	100	93	98	100	0	100
	AMV5233D	32 fl oz/a	B		EPOS							
	Crop oil concentrate	1 % v/v	B		EPOS							
	AMS	3 lb/a	B		EPOS							
4	Turbo Teejet nozzle		B		EPOS	2	100	96	100	95	0	100
	AMV5233D	43 fl oz/a	B		EPOS							
	Crop oil concentrate	1 % v/v	B		EPOS							
	AMS	3 lb/a	B		EPOS							
5	Turbo Teejet nozzle		B		EPOS	0	100	90	98	90	0	100
	AMV5233D	32 fl oz/a	B		EPOS							
	Crop oil concentrate	1 % v/v	B		EPOS							
	AMS	3 lb/a	B		EPOS							
	Turbo Teejet nozzle		D		LPOS							
	AMV5233D	32 fl oz/a	D		LPOS							
	Crop oil concentrate	1 % v/v	D		LPOS							
	AMS	3 lb/a	D		LPOS							
6	Turbo Teejet nozzle		B		EPOS	0	100	94	100	79	0	100
	AMV5233D	32 fl oz/a	B		EPOS							
	Warrant	48 fl oz/a	B		EPOS							
	Crop oil concentrate	1 % v/v	B		EPOS							
	AMS	3 lb/a	B		EPOS							
	Turbo Teejet nozzle		D		LPOS							
	AMV5233D	32 fl oz/a	D		LPOS							
	Crop oil concentrate	1 % v/v	D		LPOS							
	AMS	3 lb/a	D		LPOS							
7	TTI nozzle		B		EPOS	1	100	99	98	77	0	100
	AMV5233D	32 fl oz/a	B		EPOS							
	XtendiMax	22 fl oz/a	B		EPOS							
	Crop oil concentrate	1 % v/v	B		EPOS							
	Vapor Grip	20 fl oz/a	B		EPOS							
	Intact	0.5 % v/v	B		EPOS							
8	TTI nozzle		B		EPOS	0	100	100	83	78	0	100
	XtendiMax	22 fl oz/a	B		EPOS							
	Roundup PowerMax 3	30 fl oz/a	B		EPOS							
	Vapor Grip	20 fl oz/a	B		EPOS							
	Intact	0.5 % v/v	B		EPOS							
	Turbo Teejet nozzle		D		LPOS							
	AMV5233D	32 fl oz/a	D		LPOS							
	Crop oil concentrate	1 % v/v	D		LPOS							
	AMS	3 lb/a	D		LPOS							
9	TTI nozzle		B		EPOS	0	100	99	82	86	0	100
	XtendiMax	22 fl oz/a	B		EPOS							
	Roundup PowerMax 3	30 fl oz/a	B		EPOS							
	Vapor Grip	20 fl oz/a	B		EPOS							
	Intact	0.5 % v/v	B		EPOS							
	Turbo Teejet nozzle		D		LPOS							
	AMV5233D	32 fl oz/a	D		LPOS							
	Warrant	48 fl oz/a	D		LPOS							
	Crop oil concentrate	1 % v/v	D		LPOS							
	AMS	3 lb/a	D		LPOS							

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Trial ID: SOY18-23

Protocol ID: SOY18-23 Location: Campus, B-9 Trial Year: 2023

Study Director: Sprague, Stiles Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jun-26-2023	Jun-26-2023	Jun-26-2023	Jun-26-2023	Jun-26-2023	Jun-7-2023	Jun-7-2023
Rating Type	injury	control	control	control	control	injury	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Crop Type, Code	C, GLXMA					C, GLXMA	
Pest Code		ANGR	CHEAL	AMBEL	ABUTH		ANGR
Trt-Eval Interval	10 DA-B	10 DA-B	10 DA-B	10 DA-B	10 DA-B	14 DA-C	14 DA-C
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Timing	Jun-26-2023 injury	Jun-26-2023 control	Jun-26-2023 control	Jun-26-2023 control	Jun-26-2023 control	Jun-7-2023 injury	Jun-7-2023 control
10	Dual II Magnum	1.33	pt/a	A	PRE	9	75	69	45	48	0	100
	TTI nozzle			C	POST							
	AMV5233D	32	fl oz/a	C	POST							
	XtendiMax	22	fl oz/a	C	POST							
	Roundup PowerMax 3	30	fl oz/a	C	POST							
	Crop oil concentrate	1	% v/v	C	POST							
	Vapor Grip	20	fl oz/a	C	POST							
	Intact	0.5	% v/v	C	POST							
11	Dual II Magnum	1.33	pt/a	A	PRE	4	75	66	45	49	0	99
	TTI nozzle			C	POST							
	AMV5233D	32	fl oz/a	C	POST							
	XtendiMax	22	fl oz/a	C	POST							
	Warrant	48	fl oz/a	C	POST							
	Crop oil concentrate	1	% v/v	C	POST							
	Vapor Grip	20	fl oz/a	C	POST							
	Intact	0.5	% v/v	C	POST							
12	Turbo Teejet nozzle			C	POST	6	71	60	50	48	0	100
	AMV5233D	32	fl oz/a	C	POST							
	Roundup PowerMax 3	30	fl oz/a	C	POST							
	Crop oil concentrate	1	% v/v	C	POST							
	AMS	3	lb/a	C	POST							
13	Turbo Teejet nozzle			C	POST	6	75	61	48	43	0	100
	AMV5233D	32	fl oz/a	C	POST							
	Warrant	48	fl oz/a	C	POST							
	Crop oil concentrate	1	% v/v	C	POST							
	AMS	3	lb/a	C	POST							
	LSD P=.05					1.7	7.3	7.0	6.0	9.6	.	1.1
	Standard Deviation					1.2	5.1	4.8	4.2	6.7	0.0	0.8
	CV					54.19	6.05	6.15	5.71	9.79	0.0	0.82

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Weed control with AMV5233D in XtendFlex soybean

Trial ID: SOY18-23
 Protocol ID: SOY18-23 Location: Campus, B-9 Trial Year: 2023
 Study Director: Sprague, Stiles Sponsor Contact:
 Investigator: Christy Sprague

Rating Date	Jul-7-2023	Jul-7-2023	Jul-7-2023	Jul-21-2023	Jul-21-2023	Jul-21-2023	Jul-21-2023
Rating Type	control	control	control	injury	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	control	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Crop Type, Code				C, GLXMA			
Pest Code	CHEAL	AMBEL	ABUTH		ANGR	CHEAL	AMAPO
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Code	Appl Timing	Jul-7-2023 control	Jul-7-2023 control	Jul-7-2023 control	Jul-21-2023 injury	Jul-21-2023 control	Jul-21-2023 control	Jul-21-2023 control
1	Untreated					0	0	0	0	0	0	0
2	Turbo Teejet nozzle Liberty	32 fl oz/a	B	EPOS		99	100	96	0	90	88	94
	AMS	3 lb/a	B	EPOS								
3	Turbo Teejet nozzle AMV5233D	32 fl oz/a	B	EPOS		92	100	100	0	95	87	98
	Crop oil concentrate AMS	1 % v/v	B	EPOS								
	AMS	3 lb/a	B	EPOS								
4	Turbo Teejet nozzle AMV5233D	43 fl oz/a	B	EPOS		99	99	96	0	94	92	92
	Crop oil concentrate AMS	1 % v/v	B	EPOS								
	AMS	3 lb/a	B	EPOS								
5	Turbo Teejet nozzle AMV5233D	32 fl oz/a	B	EPOS		93	95	95	4	100	97	100
	Crop oil concentrate AMS	1 % v/v	B	EPOS								
	AMS	3 lb/a	B	EPOS								
	Turbo Teejet nozzle AMV5233D	32 fl oz/a	D	LPOS								
	Crop oil concentrate AMS	1 % v/v	D	LPOS								
	AMS	3 lb/a	D	LPOS								
6	Turbo Teejet nozzle AMV5233D	32 fl oz/a	B	EPOS		92	96	96	0	100	100	100
	Warrant	48 fl oz/a	B	EPOS								
	Crop oil concentrate AMS	1 % v/v	B	EPOS								
	AMS	3 lb/a	B	EPOS								
	Turbo Teejet nozzle AMV5233D	32 fl oz/a	D	LPOS								
	Crop oil concentrate AMS	1 % v/v	D	LPOS								
	AMS	3 lb/a	D	LPOS								
7	TTI nozzle AMV5233D	32 fl oz/a	B	EPOS		100	94	90	0	98	100	100
	XtendiMax	22 fl oz/a	B	EPOS								
	Crop oil concentrate	1 % v/v	B	EPOS								
	Vapor Grip	20 fl oz/a	B	EPOS								
	Intact	0.5 % v/v	B	EPOS								
8	TTI nozzle XtendiMax	22 fl oz/a	B	EPOS		100	99	100	0	99	100	100
	Roundup PowerMax 3	30 fl oz/a	B	EPOS								
	Vapor Grip	20 fl oz/a	B	EPOS								
	Intact	0.5 % v/v	B	EPOS								
	Turbo Teejet nozzle AMV5233D	32 fl oz/a	D	LPOS								
	Crop oil concentrate AMS	1 % v/v	D	LPOS								
	AMS	3 lb/a	D	LPOS								
9	TTI nozzle XtendiMax	22 fl oz/a	B	EPOS		100	100	100	0	100	100	100
	Roundup PowerMax 3	30 fl oz/a	B	EPOS								
	Vapor Grip	20 fl oz/a	B	EPOS								
	Intact	0.5 % v/v	B	EPOS								
	Turbo Teejet nozzle AMV5233D	32 fl oz/a	D	LPOS								
	Warrant	48 fl oz/a	D	LPOS								
	Crop oil concentrate AMS	1 % v/v	D	LPOS								
	AMS	3 lb/a	D	LPOS								

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Weed control with AMV5233D in XtendFlex soybean

Trial ID: SOY18-23

Protocol ID: SOY18-23 Location: Campus, B-9 Trial Year: 2023

Study Director: Sprague, Stiles Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jul-7-2023	Jul-7-2023	Jul-7-2023	Jul-21-2023	Jul-21-2023	Jul-21-2023	Jul-21-2023
Rating Type	control	control	control	injury	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Crop Type, Code				C, GLXMA			
Pest Code	CHEAL	AMBEL	ABUTH		ANGR	CHEAL	AMAPO
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	Appl Timing	Jul-7-2023	Jul-7-2023	Jul-7-2023	Jul-21-2023	Jul-21-2023	Jul-21-2023	Jul-21-2023
10	Dual II Magnum	1.33 pt/a	A	PRE	100	100	78	0	97	100	99
	TTI nozzle		C	POST							
	AMV5233D	32 fl oz/a	C	POST							
	XtendiMax	22 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	Crop oil concentrate	1 % v/v	C	POST							
	Vapor Grip	20 fl oz/a	C	POST							
	Intact	0.5 % v/v	C	POST							
11	Dual II Magnum	1.33 pt/a	A	PRE	98	99	95	0	95	100	100
	TTI nozzle		C	POST							
	AMV5233D	32 fl oz/a	C	POST							
	XtendiMax	22 fl oz/a	C	POST							
	Warrant	48 fl oz/a	C	POST							
	Crop oil concentrate	1 % v/v	C	POST							
	Vapor Grip	20 fl oz/a	C	POST							
	Intact	0.5 % v/v	C	POST							
12	Turbo Teejet nozzle		C	POST	96	90	95	0	96	93	96
	AMV5233D	32 fl oz/a	C	POST							
	Roundup PowerMax 3	30 fl oz/a	C	POST							
	Crop oil concentrate	1 % v/v	C	POST							
	AMS	3 lb/a	C	POST							
13	Turbo Teejet nozzle		C	POST	85	81	70	0	99	82	98
	AMV5233D	32 fl oz/a	C	POST							
	Warrant	48 fl oz/a	C	POST							
	Crop oil concentrate	1 % v/v	C	POST							
	AMS	3 lb/a	C	POST							
	LSD P=.05				6.7	7.4	12.7	0.5	4.5	5.4	4.1
	Standard Deviation				4.7	5.2	8.9	0.3	3.1	3.8	2.9
	CV				5.27	5.84	10.38	104.08	3.51	4.3	3.2

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Weed control with AMV5233D in XtendFlex soybean

Trial ID: SOY18-23

Protocol ID: SOY18-23 Location: Campus, B-9 Trial Year: 2023

Study Director: Sprague, Stiles Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jul-21-2023	Jul-21-2023
Rating Type	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100
Crop Type, Code		
Pest Code	AMBEL	ABUTH
Trt-Eval Interval	28 DA-C	28 DA-C
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Timing		
1	Untreated					0	0
2	Turbo Teejet nozzle			B	EPOS	86	89
	Liberty	32 fl oz/a		B	EPOS		
	AMS	3 lb/a		B	EPOS		
3	Turbo Teejet nozzle			B	EPOS	85	98
	AMV5233D	32 fl oz/a		B	EPOS		
	Crop oil concentrate	1 % v/v		B	EPOS		
	AMS	3 lb/a		B	EPOS		
4	Turbo Teejet nozzle			B	EPOS	88	90
	AMV5233D	43 fl oz/a		B	EPOS		
	Crop oil concentrate	1 % v/v		B	EPOS		
	AMS	3 lb/a		B	EPOS		
5	Turbo Teejet nozzle			B	EPOS	100	100
	AMV5233D	32 fl oz/a		B	EPOS		
	Crop oil concentrate	1 % v/v		B	EPOS		
	AMS	3 lb/a		B	EPOS		
	Turbo Teejet nozzle			D	LPOS		
	AMV5233D	32 fl oz/a		D	LPOS		
	Crop oil concentrate	1 % v/v		D	LPOS		
	AMS	3 lb/a		D	LPOS		
6	Turbo Teejet nozzle			B	EPOS	100	100
	AMV5233D	32 fl oz/a		B	EPOS		
	Warrant	48 fl oz/a		B	EPOS		
	Crop oil concentrate	1 % v/v		B	EPOS		
	AMS	3 lb/a		B	EPOS		
	Turbo Teejet nozzle			D	LPOS		
	AMV5233D	32 fl oz/a		D	LPOS		
	Crop oil concentrate	1 % v/v		D	LPOS		
	AMS	3 lb/a		D	LPOS		
7	TTI nozzle			B	EPOS	96	92
	AMV5233D	32 fl oz/a		B	EPOS		
	XtendiMax	22 fl oz/a		B	EPOS		
	Crop oil concentrate	1 % v/v		B	EPOS		
	Vapor Grip	20 fl oz/a		B	EPOS		
	Intact	0.5 % v/v		B	EPOS		
8	TTI nozzle			B	EPOS	100	100
	XtendiMax	22 fl oz/a		B	EPOS		
	Roundup PowerMax 3	30 fl oz/a		B	EPOS		
	Vapor Grip	20 fl oz/a		B	EPOS		
	Intact	0.5 % v/v		B	EPOS		
	Turbo Teejet nozzle			D	LPOS		
	AMV5233D	32 fl oz/a		D	LPOS		
	Crop oil concentrate	1 % v/v		D	LPOS		
	AMS	3 lb/a		D	LPOS		
9	TTI nozzle			B	EPOS	100	100
	XtendiMax	22 fl oz/a		B	EPOS		
	Roundup PowerMax 3	30 fl oz/a		B	EPOS		
	Vapor Grip	20 fl oz/a		B	EPOS		
	Intact	0.5 % v/v		B	EPOS		
	Turbo Teejet nozzle			D	LPOS		
	AMV5233D	32 fl oz/a		D	LPOS		
	Warrant	48 fl oz/a		D	LPOS		
	Crop oil concentrate	1 % v/v		D	LPOS		
	AMS	3 lb/a		D	LPOS		

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Trial ID: SOY18-23

Protocol ID: SOY18-23 Location: Campus, B-9 Trial Year: 2023

Study Director: Sprague, Stiles Sponsor Contact:

Investigator: Christy Sprague

Rating Date	Jul-21-2023	Jul-21-2023				
Rating Type	control	control				
Rating Unit/Min/Max	%, 0, 100	%, 0, 100				
Crop Type, Code						
Pest Code	AMBEL	ABUTH				
Trt-Eval Interval	28 DA-C	28 DA-C				
Number of Decimals	0	0				
Trt No.	Treatment	Rate	Appl Code	Appl Timing		
10	Dual II Magnum	1.33 pt/a	A	PRE	96	75
	TTI nozzle		C	POST		
	AMV5233D	32 fl oz/a	C	POST		
	XtendiMax	22 fl oz/a	C	POST		
	Roundup PowerMax 3	30 fl oz/a	C	POST		
	Crop oil concentrate	1 % v/v	C	POST		
	Vapor Grip	20 fl oz/a	C	POST		
	Intact	0.5 % v/v	C	POST		
11	Dual II Magnum	1.33 pt/a	A	PRE	91	91
	TTI nozzle		C	POST		
	AMV5233D	32 fl oz/a	C	POST		
	XtendiMax	22 fl oz/a	C	POST		
	Warrant	48 fl oz/a	C	POST		
	Crop oil concentrate	1 % v/v	C	POST		
	Vapor Grip	20 fl oz/a	C	POST		
	Intact	0.5 % v/v	C	POST		
12	Turbo Teejet nozzle		C	POST	82	86
	AMV5233D	32 fl oz/a	C	POST		
	Roundup PowerMax 3	30 fl oz/a	C	POST		
	Crop oil concentrate	1 % v/v	C	POST		
	AMS	3 lb/a	C	POST		
13	Turbo Teejet nozzle		C	POST	77	68
	AMV5233D	32 fl oz/a	C	POST		
	Warrant	48 fl oz/a	C	POST		
	Crop oil concentrate	1 % v/v	C	POST		
	AMS	3 lb/a	C	POST		
	LSD P=.05				4.6	11.8 .
	Standard Deviation				3.2	8.2 .
	CV				3.82	9.82 .