

Ohio State University Horticulture and Crop Science

CONTROL OF GLYPHOSATE AND ALS RESISTANT GIANT RAGWEED

Trial ID: 08GRALSGRBLUCK
Location: CLARKSBURG, OHIO

Study Dir.: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. AMBTR	Giant ragweed	Ambrosia trifida
2. SETFA	Giant foxtail	Setaria faberi
3. HIBTR	Venice mallow	Hibiscus trionum

Crop 1: GLXMA	SOYBEAN	Variety: ASGROW AG3705
Planting Date: 05-06-08	Planting Method: JOHN DEERE 7200	
Rate: 175000 SEED/A	Depth: 1 IN	
Row Spacing: 15 IN		Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 10 FT	Plot Length, Unit: 40 FT	Reps: 4
Tillage Type: CONVENTIONAL	Study Design: RANDOMIZED COMPLETE BLOCK	

MAINTENANCE

Field Prep./Maintenance: APPLIED BURNDOWN OF GRAMOXONE INTEON AT 3 PT/A + NIS 0.25% V/V ON 5-6-08

SOIL DESCRIPTION

% Sand: 24.5	% OM: 2.9	Texture: SILTY CLAY LOAM
% Silt: 48.9	pH: 6.8	Soil Name: KOKOMO
% Clay: 26.6	CEC: 11.7	Fert. Level: GOOD

APPLICATION DESCRIPTION

	A	B	C	D	E
Application Date:	05-06-08	06-09-08	06-12-08	07-01-08	07-01-08
Time of Day:	6:00 P.M.	8:00 A.M.	8:00 A.M.	9:00 A.M.	9:00 A.M.
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	2-3" GIRW	4-6" GIRW	3 WKAB	3 WKAC
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	74 F	87 F	73 F	74 F	74 F
% Relative Humidity:	50	65	63	67	67
Wind Velocity, Unit:	5 S	8 SW	2 SE	1 SSW	1 SSW
Soil Temp., Unit:	69 F	79 F	69 F	69 F	69 F
Soil Moisture:	DRY/DRY	DRY/MOIST	DRY/MOIST	MOIST/WET	MOIST/WET
% Cloud Cover:	25	1	3	0	0

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E
Crop 1 Code, Stage:	GLXMA	GLXMA V3	GLXMA V3	GLXMA V5	GLXMA V5
Stage Scale:	DESC	DESC	DESC	BBCH	
Height, Unit:	4 IN	4.5 IN	8 IN	8 IN	IN

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WEED STAGE AT EACH APPLICATION

	A	B	C	D	E
Weed 1 Code, Stage:	AMBTR	AMBTR 3-6"	AMBTR 4-7"	AMBTR 4-6"	AMBTR 4-6"
Stage Scale:	4-6 LVS	6-8 LVS	10-20 LVS	10-20 LVS	
Density, Unit:	36 M2	36 M2	36 M2	36 M2	
Weed 2 Code, Stage:	SETFA	SETFA 4-5"	SETFA 4-5"	SETFA	SETFA
Stage Scale:	3 LVS	3 LVS			
Density, Unit:	15 M2	15 M2			
Weed 3 Code, Stage:	HIBTR	HIBTR 1"	HIBTR 1"	HIBTR	HIBTR
Stage Scale:	2 LVS	2 LVS			
Density, Unit:	3 M2	3 M2			

APPLICATION EQUIPMENT

	A	B	C	D	E
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	53	53	53	53	53
Nozzle Type:	DG	DG	DG	DG	DG
Nozzle Size:	11002	11002	11002	11002	11002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER	WATER	WATER
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA
Propellant:	CO2	CO2	CO2	CO2	CO2

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Weed Code	SETFA	AMBTR	CHEAL	HIBTR	AMBTR	CHEAL
Crop Code						
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	GLXMA	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PHYTO	PERCENT
Rating Date	06-12-08	06-12-08	06-12-08	06-12-08	06-24-08	06-24-08
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST	12 DA-C	12 DA-C
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7
1	VALOR XLT 3.5 OZ					PRE	A	75 a	50 a	75 a	43 a	3 d-g	64 g	83 a
1	VALOR SX	51	WG	2.05	oz/a	PRE	A							
1	CLASSIC	25	DF	1.45	oz/a	PRE								
1	FLEXSTAR	1.88	EC	10	oz/a	POST	1 B							
1	SELECT MAX	1	EC	4	oz/a	POST	1							
1	DESTINY HC	100	L	0.4	qt/a	POST	1							
1	AMS	100	L	4	qt/a	POST	1							
1	FLEXSTAR	1.88	EC	10	oz/a	POST	3 D							
1	SELECT MAX	1	EC	4	oz/a	POST	3							
1	DESTINY HC	100	L	0.4	qt/a	POST	3							
1	AMS	100	L	4	qt/a	POST	3							
2	VALOR XLT 3.5 OZ					PRE	A	67 a	42 a	67 a	33 a	2 efg	66 fg	93 a
2	FLEXSTAR	1.88	EC	10	oz/a	POST	1 B							
2	ROUNDUP POWERMAX	4.5	SL	10.8	oz/a	POST	1							
2	DESTINY HC	100	L	0.4	qt/a	POST	1							
2	AMS	100	L	4	qt/a	POST	1							
2	FLEXSTAR	1.88	EC	10	oz/a	POST	3 D							
2	ROUNDUP POWERMAX	4.5	SL	10.8	oz/a	POST	3							
2	DESTINY HC	100	L	0.4	qt/a	POST	3							
2	AMS	100	L	4	qt/a	POST	3							
3	FLEXSTAR	1.88	EC	10	oz/a	POST	1 B	50 a	20 a	100 a	35 a	1 fg	48 h	98 a
3	ROUNDUP POWERMAX	4.5	SL	10.8	oz/a	POST	1							
3	DESTINY HC	100	L	0.4	qt/a	POST	1							
3	AMS	100	L	4	qt/a	POST	1							
3	FLEXSTAR	1.88	EC	10	oz/a	POST	3 D							
3	ROUNDUP POWERMAX	4.5	SL	10.8	oz/a	POST	3							
3	DESTINY HC	100	L	0.4	qt/a	POST	3							
3	AMS	100	L	4	qt/a	POST	3							
4	VALOR XLT 3.5 OZ					PRE	A	100 a	50 a	100 a	63 a	0 g	65 g	100 a
4	ROUNDUP POWERMAX	4.5	SL	42.7	oz/a	POST	2 C							
4	AMS	100	L	4	qt/a	POST	2							
4	ROUNDUP POWERMAX	4.5	SL	21.3	oz/a	POST	4 E							
4	AMS	100	L	4	qt/a	POST	4							
5	VALOR XLT 3.5 OZ					PRE	A	50 a	25 a	50 a	30 a	0 g	68 fg	100 a
5	ROUNDUP POWERMAX	4.5	SL	42.7	oz/a	POST	2 C							
5	FIRSTRATE	84	WG	0.3	oz/a	POST	2							
5	AMS	100	L	4	qt/a	POST	2							
5	ROUNDUP POWERMAX	4.5	SL	21.3	oz/a	POST	4 E							
5	FIRSTRATE	84	WG	0.3	oz/a	POST	4							
5	AMS	100	L	4	qt/a	POST	4							
6	VALOR XLT 3.5 OZ					PRE	A	100 a	65 a	100 a	50 a	7 bcd	73 efg	100 a
6	FLEXSTAR	1.88	EC	1.33	pt/a	POST	2 C							
6	SELECT MAX	1	EC	9	oz/a	POST	2							
6	DESTINY HC	100	L	0.4	qt/a	POST	2							
6	AMS	100	L	4	qt/a	POST	2							
6	COBRA	2	EC	6	oz/a	POST	4 E							
6	DESTINY HC	100	L	0.4	qt/a	POST	4							
6	AMS	100	L	4	qt/a	POST	4							

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Weed Code	SETFA	AMBTR	CHEAL	HIBTR	GLXMA	AMBTR	CHEAL
Crop Code							
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYTO	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	06-12-08	06-12-08	06-12-08	06-12-08	06-24-08	06-24-08	06-24-08
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST	12 DA-C	12 DA-C	12 DA-C
# Subsamples, Dec.	0	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7
14	VALOR XLT 3.5 OZ					PRE	A	50 a	30 a	50 a	30 a	5 c-f	88 a-d	100 a
	FLEXSTAR	1.88	EC	1	pt/a	POST 2	C							
	BASAGRAN	4	SL	1	pt/a	POST 2								
	SELECT MAX	1	EC	9	oz/a	POST 2								
	DESTINY HC	100	L	0.4	qt/a	POST 2								
	AMS	100	L	4	qt/a	POST 2								
	COBRA	2	EC	6	oz/a	POST 4	E							
	DESTINY HC	100	L	0.4	qt/a	POST 4								
	AMS	100	L	4	qt/a	POST 4								
15	VALOR XLT 3.5 OZ					PRE	A	50 a	40 a	0 a	45 a	10 ab	92 ab	100 a
	FLEXSTAR	1.88	EC	1	pt/a	POST 2	C							
	BASAGRAN	4	SL	1	pt/a	POST 2								
	SELECT MAX	1	EC	9	oz/a	POST 2								
	DESTINY HC	100	L	0.4	qt/a	POST 2								
	AMS	100	L	4	qt/a	POST 2								
	COBRA	2	EC	12	oz/a	POST 4	E							
	DESTINY HC	100	L	0.4	qt/a	POST 4								
	AMS	100	L	4	qt/a	POST 4								
16	VALOR XLT 3.5 OZ					PRE	A	100 a	50 a	100 a	60 a	8 abc	88 a-d	100 a
	FLEXSTAR	1.88	EC	1	pt/a	POST 2	C							
	BASAGRAN	4	SL	1	pt/a	POST 2								
	ROUNDUP POWERMAX	4.5	SL	21.3	oz/a	POST 2								
	DESTINY HC	100	L	0.4	qt/a	POST 2								
	AMS	100	L	4	qt/a	POST 2								
	COBRA	2	EC	6	oz/a	POST 4	E							
	DESTINY HC	100	L	0.4	qt/a	POST 4								
	AMS	100	L	4	qt/a	POST 4								
17	VALOR XLT 3.5 OZ					PRE	A	100 a	70 a	100 a	85 a	11 a	93 ab	100 a
	FLEXSTAR	1.88	EC	1	pt/a	POST 2	C							
	BASAGRAN	4	SL	1	pt/a	POST 2								
	ROUNDUP POWERMAX	4.5	SL	21.3	oz/a	POST 2								
	DESTINY HC	100	L	0.4	qt/a	POST 2								
	AMS	100	L	4	qt/a	POST 2								
	COBRA	2	EC	12	oz/a	POST 4	E							
	DESTINY HC	100	L	0.4	qt/a	POST 4								
	AMS	100	L	4	qt/a	POST 4								
18	VALOR XLT 3.5 OZ					PRE	A	95 a	60 a	100 a	60 a	6 b-e	77 def	100 a
	FLEXSTAR	1.88	EC	1.67	pt/a	POST 2	C							
	SELECT MAX	1	EC	9	oz/a	POST 2								
	DESTINY HC	100	L	0.4	qt/a	POST 2								
	AMS	100	L	4	qt/a	POST 2								
LSD (P=.05)								71.2	47.8	62.4	59.8	4.3	11.2	15.5
Standard Deviation								48.1	32.3	42.2	40.4	2.5	7.9	10.9
CV								60.44	64.81	52.97	77.16	44.74	10.06	11.27

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code	AMBTR	CHEAL	HIBTR	AMBTR	CHEAL	HIBTR
Crop Code	GLXMA					
Rating Data Type	PHYTO	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	07-08-08	08-06-08	08-06-08	08-06-08	09-29-08	09-29-08
Trt-Eval Interval	7 DA-D	55 DA-C	55 DA-C	55 DA-C	90 DA-D	90 DA-D
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	8	9	10	11	12	13	14
1	VALOR XLT 3.5 OZ					PRE	A	0 a	85 abc	87 a	100 a	83 abc	73 ab	100 a
1	VALOR SX	51	WG	2.05	oz/a	PRE	A							
1	CLASSIC	25	DF	1.45	oz/a	PRE								
1	FLEXSTAR	1.88	EC	10	oz/a	POST	1 B							
1	SELECT MAX	1	EC	4	oz/a	POST	1							
1	DESTINY HC	100	L	0.4	qt/a	POST	1							
1	AMS	100	L	4	qt/a	POST	1							
1	FLEXSTAR	1.88	EC	10	oz/a	POST	3 D							
1	SELECT MAX	1	EC	4	oz/a	POST	3							
1	DESTINY HC	100	L	0.4	qt/a	POST	3							
1	AMS	100	L	4	qt/a	POST	3							
2	VALOR XLT 3.5 OZ					PRE	A	0 a	92 abc	100 a	100 a	87 ab	100 a	100 a
2	FLEXSTAR	1.88	EC	10	oz/a	POST	1 B							
2	ROUNDUP POWERMAX	4.5	SL	10.8	oz/a	POST	1							
2	DESTINY HC	100	L	0.4	qt/a	POST	1							
2	AMS	100	L	4	qt/a	POST	1							
2	FLEXSTAR	1.88	EC	10	oz/a	POST	3 D							
2	ROUNDUP POWERMAX	4.5	SL	10.8	oz/a	POST	3							
2	DESTINY HC	100	L	0.4	qt/a	POST	3							
2	AMS	100	L	4	qt/a	POST	3							
3	FLEXSTAR	1.88	EC	10	oz/a	POST	1 B	10 a	85 abc	100 a	100 a	77 a-d	100 a	100 a
3	ROUNDUP POWERMAX	4.5	SL	10.8	oz/a	POST	1							
3	DESTINY HC	100	L	0.4	qt/a	POST	1							
3	AMS	100	L	4	qt/a	POST	1							
3	FLEXSTAR	1.88	EC	10	oz/a	POST	3 D							
3	ROUNDUP POWERMAX	4.5	SL	10.8	oz/a	POST	3							
3	DESTINY HC	100	L	0.4	qt/a	POST	3							
3	AMS	100	L	4	qt/a	POST	3							
4	VALOR XLT 3.5 OZ					PRE	A	20 a	60 d	100 a	100 a	50 e	100 a	100 a
4	ROUNDUP POWERMAX	4.5	SL	42.7	oz/a	POST	2 C							
4	AMS	100	L	4	qt/a	POST	2							
4	ROUNDUP POWERMAX	4.5	SL	21.3	oz/a	POST	4 E							
4	AMS	100	L	4	qt/a	POST	4							
5	VALOR XLT 3.5 OZ					PRE	A	13 a	75 cd	100 a	100 a	58 de	100 a	100 a
5	ROUNDUP POWERMAX	4.5	SL	42.7	oz/a	POST	2 C							
5	FIRSTRATE	84	WG	0.3	oz/a	POST	2							
5	AMS	100	L	4	qt/a	POST	2							
5	ROUNDUP POWERMAX	4.5	SL	21.3	oz/a	POST	4 E							
5	FIRSTRATE	84	WG	0.3	oz/a	POST	4							
5	AMS	100	L	4	qt/a	POST	4							
6	VALOR XLT 3.5 OZ					PRE	A	0 a	88 abc	100 a	100 a	83 abc	100 a	100 a
6	FLEXSTAR	1.88	EC	1.33	pt/a	POST	2 C							
6	SELECT MAX	1	EC	9	oz/a	POST	2							
6	DESTINY HC	100	L	0.4	qt/a	POST	2							
6	AMS	100	L	4	qt/a	POST	2							
6	COBRA	2	EC	6	oz/a	POST	4 E							
6	DESTINY HC	100	L	0.4	qt/a	POST	4							
6	AMS	100	L	4	qt/a	POST	4							
7	FLEXSTAR	1.88	EC	1.33	pt/a	POST	2 C	5 a	97 ab	68 a	90 a	90 ab	37 c	90 a
7	SELECT MAX	1	EC	9	oz/a	POST	2							
7	DESTINY HC	100	L	0.4	qt/a	POST	2							
7	AMS	100	L	4	qt/a	POST	2							
7	COBRA	2	EC	6	oz/a	POST	4 E							
7	DESTINY HC	100	L	0.8	qt/a	POST	4							
7	AMS	100	L	4	qt/a	POST	4							

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Weed Code	AMBTR	CHEAL	HIBTR	AMBTR	CHEAL	HIBTR
Crop Code	GLXMA					
Rating Data Type	PHYTO	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	07-08-08	08-06-08	08-06-08	08-06-08	09-29-08	09-29-08
Trt-Eval Interval	7 DA-D	55 DA-C	55 DA-C	55 DA-C	90 DA-D	90 DA-D
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	8	9	10	11	12	13	14
8	VALOR XLT 3.5 OZ					PRE	A	13 a	95 ab	100 a	100 a	93 ab	100 a	100 a
8	FLEXSTAR	1.88	EC	1.33	pt/a	POST	2 C							
8	SELECT MAX	1	EC	9	oz/a	POST	2							
8	DESTINY HC	100	L	0.4	qt/a	POST	2							
8	AMS	100	L	4	qt/a	POST	2							
8	COBRA	2	EC	12	oz/a	POST	4 E							
8	DESTINY HC	100	L	0.4	qt/a	POST	4							
8	AMS	100	L	4	qt/a	POST	4							
9	VALOR XLT 3.5 OZ					PRE	A	0 a	100 a	100 a	100 a	92 ab	100 a	100 a
9	FLEXSTAR	1.88	EC	1.67	pt/a	POST	2 C							
9	SELECT MAX	1	EC	9	oz/a	POST	2							
9	DESTINY HC	100	L	0.4	qt/a	POST	2							
9	AMS	100	L	4	qt/a	POST	2							
9	COBRA	2	EC	6	oz/a	POST	4 E							
9	DESTINY HC	100	L	0.4	qt/a	POST	4							
9	AMS	100	L	4	qt/a	POST	4							
10	VALOR XLT 3.5 OZ					PRE	A	0 a	100 a	73 a	100 a	100 a	67 b	100 a
10	FLEXSTAR	1.88	EC	1.67	pt/a	POST	2 C							
10	SELECT MAX	1	EC	9	oz/a	POST	2							
10	DESTINY HC	100	L	0.4	qt/a	POST	2							
10	AMS	100	L	4	qt/a	POST	2							
10	COBRA	2	EC	12	oz/a	POST	4 E							
10	DESTINY HC	100	L	0.4	qt/a	POST	4							
10	AMS	100	L	4	qt/a	POST	4							
11	VALOR XLT 3.5 OZ					PRE	A	0 a	88 abc	100 a	100 a	78 a-d	90 ab	100 a
11	FLEXSTAR	1.88	EC	1.32	pt/a	POST	2 C							
11	ROUNDUP POWERMAX	4.5	SL	21.3	oz/a	POST	2							
11	DESTINY HC	100	L	0.4	qt/a	POST	2							
11	AMS	100	L	4	qt/a	POST	2							
11	COBRA	2	EC	6	oz/a	POST	4 E							
11	DESTINY HC	100	L	0.4	qt/a	POST	4							
11	AMS	100	L	4	qt/a	POST	4							
12	VALOR XLT 3.5 OZ					PRE	A	0 a	98 ab	100 a	100 a	93 ab	100 a	100 a
12	FLEXSTAR	1.88	EC	1.32	pt/a	POST	2 C							
12	ROUNDUP POWERMAX	4.5	SL	21.3	oz/a	POST	2							
12	DESTINY HC	100	L	0.4	qt/a	POST	2							
12	AMS	100	L	4	qt/a	POST	2							
12	COBRA	2	EC	12	oz/a	POST	4 E							
12	DESTINY HC	100	L	0.4	qt/a	POST	4							
12	AMS	100	L	4	qt/a	POST	4							
13	VALOR XLT 3.5 OZ					PRE	A	0 a	99 ab	100 a	100 a	97 a	100 a	100 a
13	FLEXSTAR	1.88	EC	1.32	pt/a	POST	2 C							
13	ROUNDUP POWERMAX	4.5	SL	21.3	oz/a	POST	2							
13	DESTINY HC	100	L	0.4	qt/a	POST	2							
13	AMS	100	L	4	qt/a	POST	2							
13	COBRA	2	EC	12	oz/a	POST	4 E							
13	ROUNDUP POWERMAX	4.5	SL	21.3	oz/a	POST	4							
13	DESTINY HC	100	L	0.4	qt/a	POST	4							
13	AMS	100	L	4	qt/a	POST	4							

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Weed Code													
Crop Code													
Rating Data Type													
Rating Unit													
Rating Date													
Trt-Eval Interval													
# Subsamples, Dec.													

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	8	9	10	11	12	13	14
14	VALOR XLT 3.5 OZ					PRE	A							
14	FLEXSTAR	1.88	EC	1 pt/a		POST 2	C		87 abc	100 a	100 a	72 b-e	97 a	100 a
14	BASAGRAN	4	SL	1 pt/a		POST 2								
14	SELECT MAX	1	EC	9 oz/a		POST 2								
14	DESTINY HC	100	L	0.4 qt/a		POST 2								
14	AMS	100	L	4 qt/a		POST 2								
14	COBRA	2	EC	6 oz/a		POST 4	E							
14	DESTINY HC	100	L	0.4 qt/a		POST 4								
14	AMS	100	L	4 qt/a		POST 4								
15	VALOR XLT 3.5 OZ					PRE	A		100 a	100 a	100 a	93 ab	88 ab	90 a
15	FLEXSTAR	1.88	EC	1 pt/a		POST 2	C							
15	BASAGRAN	4	SL	1 pt/a		POST 2								
15	SELECT MAX	1	EC	9 oz/a		POST 2								
15	DESTINY HC	100	L	0.4 qt/a		POST 2								
15	AMS	100	L	4 qt/a		POST 2								
15	COBRA	2	EC	12 oz/a		POST 4	E							
15	DESTINY HC	100	L	0.4 qt/a		POST 4								
15	AMS	100	L	4 qt/a		POST 4								
16	VALOR XLT 3.5 OZ					PRE	A	0 a	80 bc	100 a	100 a	63 cde	97 a	100 a
16	FLEXSTAR	1.88	EC	1 pt/a		POST 2	C							
16	BASAGRAN	4	SL	1 pt/a		POST 2								
16	ROUNDUP POWERMAX	4.5	SL	21.3 oz/a		POST 2								
16	DESTINY HC	100	L	0.4 qt/a		POST 2								
16	AMS	100	L	4 qt/a		POST 2								
16	COBRA	2	EC	6 oz/a		POST 4	E							
16	DESTINY HC	100	L	0.4 qt/a		POST 4								
16	AMS	100	L	4 qt/a		POST 4								
17	VALOR XLT 3.5 OZ					PRE	A	5 a	100 a	100 a	100 a	98 a	100 a	100 a
17	FLEXSTAR	1.88	EC	1 pt/a		POST 2	C							
17	BASAGRAN	4	SL	1 pt/a		POST 2								
17	ROUNDUP POWERMAX	4.5	SL	21.3 oz/a		POST 2								
17	DESTINY HC	100	L	0.4 qt/a		POST 2								
17	AMS	100	L	4 qt/a		POST 2								
17	COBRA	2	EC	12 oz/a		POST 4	E							
17	DESTINY HC	100	L	0.4 qt/a		POST 4								
17	AMS	100	L	4 qt/a		POST 4								
18	VALOR XLT 3.5 OZ					PRE	A	0 a	32 e	100 a	100 a	20 f	100 a	100 a
18	FLEXSTAR	1.88	EC	1.67 pt/a		POST 2	C							
18	SELECT MAX	1	EC	9 oz/a		POST 2								
18	DESTINY HC	100	L	0.4 qt/a		POST 2								
18	AMS	100	L	4 qt/a		POST 2								
LSD (P=.05)								28.1	19.4	21.0	6.8	23.1	29.5	9.8
Standard Deviation								10.9	11.6	12.6	4.1	13.9	17.7	5.9
CV								268.94	13.43	13.13	4.11	17.49	19.32	5.92

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.