

Ohio State University Horticulture and Crop Science

2012/SOYBEAN/AUTHORITY/ANTHEM/

Title No. 2:
 Trial ID: 12 SOYYLD1 Protocol ID: 12 SOYYLD1
 Location: Western Branch Study Director: Bryan Reeb
 Project ID: SULF.SOY.12.JPR01(aab) Investigator: Dr. Mark M. Loux
 Sponsor Contact: Joe Reed, FMC

General Trial Information

Study Director: Bryan Reeb Title: Research Technician
 Investigator: Dr. Mark M. Loux Title: Professor

Trial Location

City: South Charleston Latitude of LL Corner °: 39.86016 N
 State/Prov.: Ohio Longitude of LL Corner °: 83.67151 W
 Postal Code: 45368
 Country: USA

Crop Description

Crop 1: GLXMA Glycine max Soybean
 Variety: SC 9330 RR Description: Round Up Ready
 BBCH Scale: BSOY Planting Date: May-28-2012
 Planting Method: PLNTD Rate, Unit: 155000 S/A
 Depth, Unit: 0.75 IN
 Row Spacing, Unit: 15 IN
 Seed Bed: MEDIUM medium Soil Temperature, Unit: 79 F
 Soil Moisture: DRY dry Emergence Date: Jun-11-2012

Pest Description

Pest 1 Type: W Code: SETFA *Setaria faberi*
 Common Name: Giant foxtail

Pest 2 Type: W Code: AMBTR *Ambrosia trifida*
 Common Name: Giant ragweed

Pest 3 Type: W Code: CHEAL *Chenopodium album*
 Common Name: Common lambsquarters

Pest 4 Type: W Code: IPOHE *Ipomoea hederacea*
 Common Name: Ivyleaf morningglory

Pest 5 Type: W Code: AMARE *Amaranthus retroflexus*
 Common Name: Redroot pigweed

Pest 6 Type: W Code: HIBTR *Hibiscus trionum*
 Common Name: Venice mallow

Site and Design

Plot Width, Unit: 9.5 FT Site Type: FIELD field
 Plot Length, Unit: 40 FT Experimental Unit: 1 PLOT plot
 Plot Area, Unit: 380 FT2 Tillage Type: CONTIL conventional-till
 Replications: 4 Study Design: RACOB� Randomized Complete Block (RCB)
 Untreated Arrangement: INCLUDED single control randomized in each block

No. Previous Crop Year
 1. CORN 2011

Soil Description

Description Name: F-8 East
 % OM: 2.4 Texture: SICL silty clay loam
 pH: 6.2 Soil Name: Kokomo
 CEC: 16 Fert. Level: G good
 Soil Drainage: G good

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Application Description

	A	B	C	D
Application Date:	May-28-2012	Jun-26-2012	Jul-12-2012	Jul-12-2012
Time of Day:	6:30PM	8:30 AM	8:45AM	8:45AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	ATPL	EPO	MPO	MPO
Application Placement:	BROSOL	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	84 F	63.7 F	78 F	78 F
% Relative Humidity:	70	58.4	71	71
Wind Velocity, Unit:	3 MPH	5 MPH	2 MPH	2 MPH
Wind Direction:	W	NE	E	E
Dew Presence (Y/N):	N no	N no	N no	N no
Soil Temperature, Unit:	79 F	68 F	75 F	75 F
Soil Moisture:	DRY	DRY	DRY	DRY
% Cloud Cover:	90	0	0	0
Next Rain Occurred On:	May-31-2012	Jun-29-2012	Jul-15-2012	Jul-15-2012

Crop Stage At Each Application

	A		B		C		D	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:	BBCH		BBCH		BBCH		BBCH	
Stage Majority, Percent:	14 100		26 100		25 100			
Height, Unit:	5 IN		13 IN		9 IN			
Height Minimum, Maximum:	4 6		12 14		8 10			

Pest Stage At Each Application

	A		B		C		D	
Pest 1 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:	12 100		22 100					
Height, Unit:	2 IN		20 IN					
Height Minimum, Maximum:	1 3		18 22					
Density, Unit:	95 M2		95 M2					
Pest 2 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:	14 100		19 100		16 100			
Height, Unit:	3 IN		19 IN		8 IN			
Height Minimum, Maximum:	2 4		18 20		5 10			
Density, Unit:	2 M2		3 M2		1 M2			
Pest 3 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:	14 100				16 100			
Height, Unit:	2 IN				2.5 IN			
Height Minimum, Maximum:	1 3				2 3			
Density, Unit:	2 M2				2 M2			
Pest 4 Code, Type, Scale:	IPOHE	W	IPOHE	W	IPOHE	W	IPOHE	W
Stage Majority, Percent:	12 100							
Height, Unit:	2 IN							
Height Minimum, Maximum:	1 2							
Density, Unit:	3 M2							
Pest 5 Code, Type, Scale:	AMARE	W	AMARE	W	AMARE	W	AMARE	W
Stage Majority, Percent:	14 100				14 100			
Height, Unit:	5 IN				2.5 IN			
Height Minimum, Maximum:	1 8				2 3			
Density, Unit:	65 M2				35 M2			
Pest 6 Code, Type, Scale:	HIBTR	W	HIBTR	W	HIBTR	W	HIBTR	W
Stage Majority, Percent:	12 100							
Height, Unit:	3 IN							
Height Minimum, Maximum:	2 4							
Density, Unit:	3 M2							

Application Equipment

	A	B	C	D
Appl. Equipment:	Backpack	Backpack	Backpack	Backpack
Equipment Type:	SPRBAC	SPRBAC	SPRBAC	SPRBAC
Operation Pressure, Unit:	44 PSI	44 PSI	44 PSI	44 PSI
Nozzle Type:	AIXR	AIXR	AIXR	AIXR
Nozzle Size:	110015	110015	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN	18 IN
Boom Length, Unit:	6 FT	6 FT	6 FT	6 FT
Boom Height, Unit:	18 IN	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac	15 gal/ac	15 gal/ac
Mix Size, Unit:	2 Liters	2 Liters	2 Liters	2 Liters
Propellant:	COMCO2	COMCO2	COMCO2	COMCO2

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Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	SETFA	AMBTR	AMARE	CHEAL							
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Amaranthus retrofractus	Chenopodium album							
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsquarters							
Crop Code	GLXMA										
BBCH Scale	BSOY										
Crop Scientific Name	Glycine max										
Crop Name	Soybean										
Rating Date	Jun-13-2012	Jun-13-2012	Jun-13-2012	Jun-13-2012							
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	16 16	16 16	16 16	16 16							
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A							
Plant-Eval Interval	16 DP-1	16 DP-1	16 DP-1	16 DP-1							
Days After Emergence	2 DE-1	2 DE-1	2 DE-1	2 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	1	2	3	4	5
1	AUTHORITY FIRST DF	6.4 oz/a			A		0 a	98 a	84 ab	100 a	100 a
1	ROUNDUP POWERMAX	32 oz/a			C						
1	Cadet	0.6 oz/a			C						
1	NIS	0.25 % v/v			C						
1	N-pak ams	3.75 % v/v			C						
2	AUTHORITY XL	6 oz/a			A		0 a	95 ab	88 ab	100 a	100 a
2	ROUNDUP POWERMAX	32 oz/a			C						
2	Resource	3 oz/a			C						
2	NIS	0.25 % v/v			C						
3	AUTHORITY MTZ	16 oz/a			A		0 a	92 ab	76 b	100 a	100 a
3	SELECT MAX	8 oz/a			C						
3	COC	1 % v/v			C						
4	AUTHORITY XL	4 oz/a			A		0 a	97 ab	78 b	100 a	100 a
4	ANTHEM	6 oz/a			B						
4	ROUNDUP POWERMAX	32 oz/a			B						
4	NIS	0.25 % v/v			B						
5	ROUNDUP POWERMAX	32 oz/a			B		0 a	0 c	0 c	0 c	0 c
5	ANTHEM	6 oz/a			B						
5	CLASSIC	0.75 oz/a			B						
5	NIS	0.25 % v/v			B						
5	ROUNDUP POWERMAX	32 oz/a			D						
5	NIS	0.25 % v/v			D						
6	AUTHORITY FIRST DF	4 oz/a			A		0 a	97 ab	91 a	100 a	100 a
6	ANTHEM	6 oz/a			B						
6	ROUNDUP POWERMAX	32 oz/a			B						
6	NIS	0.25 % v/v			B						
7	ROUNDUP POWERMAX	32 oz/a			B		0 a	0 c	0 c	0 c	0 c
7	ANTHEM	6 oz/a			B						
7	FIRSTRATE	0.30 oz/a			B						
7	NIS	0.25 % v/v			B						
7	ROUNDUP POWERMAX	32 oz/a			D						
7	NIS	0.25 % v/v			D						
8	ROUNDUP POWERMAX	32 oz/a			B		0 a	0 c	0 c	0 c	0 c

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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Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	SETFA	AMBTR	AMARE	CHEAL							
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Amaranthus retrofractus	Chenopodium album							
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsquarters							
Crop Code	GLXMA										
BBCH Scale	BSOY										
Crop Scientific Name	Glycine max										
Crop Name	Soybean										
Rating Date	Jun-13-2012	Jun-13-2012	Jun-13-2012	Jun-13-2012							
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	16 16	16 16	16 16	16 16							
Trt-Eval Interval	16 DA-A	16 DA-A	16 DA-A	16 DA-A							
Plant-Eval Interval	16 DP-1	16 DP-1	16 DP-1	16 DP-1							
Days After Emergence	2 DE-1	2 DE-1	2 DE-1	2 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	1	2	3	4	5
8	ANTHEM	6 oz/a				B					
8	FRONTROW @ .42 oz										
8	FIRSTRATE	0.0158 lb ai/a	0.3 oz/a			B					
8	PYTHON	0.006 lb ai/a	0.12 oz/a			B					
8	NIS	0.25 % v/v				B					
8	ROUNDUP POWERMAX	32 oz/a				D					
8	NIS	0.25 % v/v				D					
9	ANTHEM	5 oz/a				A	0 a	90 b	76 b	99 b	99 b
9	CADET	0.5 oz/a				B					
9	CLASSIC	0.75 oz/a				B					
9	NIS	0.25 % v/v				B					
10	ANTHEM	5 oz/a				A	0 a	93 ab	79 b	100 a	100 a
10	CADET	0.5 oz/a				B					
10	FIRSTRATE	0.30 oz/a				B					
10	NIS	0.25 % v/v				B					
	LSD (P=.05)						0.0	8.1	12.0	1.1	1.1
	Standard Deviation						0.0	5.6	8.2	0.8	0.8
	CV						0.0	8.41	14.42	1.13	1.13
	Bartlett's X2						0.0	17.178	13.407	0.0	0.0
	P(Bartlett's X2)						.	0.009*	0.037*	.	.
	Replicate F						0.000	0.800	0.550	1.000	1.000
	Replicate Prob(F)						1.0000	0.5047	0.6527	0.4079	0.4079
	Treatment F						0.000	269.887	93.020	14881.001	14881.001
	Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMARE	CHEAL
Pest Scientific Name	Setaria Ambrosia trifi>	faberi	Amaranthus ret>	Chenopodium al>
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsqu>
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Scientific Name	Glycine max			
Crop Name	Soybean			
Rating Date	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	22 22	22 22	22 22	22 22
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	22 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1	22 DP-1	22 DP-1
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	6	7	8	9	10
1	AUTHORITY FIRST DF	6.4 oz/a				A	1 a	81 a	84 a	100 a	100 a
1	ROUNDUP POWERMAX	32 oz/a				C					
1	Cadet	0.6 oz/a				C					
1	NIS	0.25 % v/v				C					
1	N-pak ams	3.75 % v/v				C					
2	AUTHORITY XL	6 oz/a				A	2 a	81 a	66 b	100 a	100 a
2	ROUNDUP POWERMAX	32 oz/a				C					
2	Resource	3 oz/a				C					
2	NIS	0.25 % v/v				C					
3	AUTHORITY MTZ	16 oz/a				A	2 a	63 b	63 b	100 a	100 a
3	SELECT MAX	8 oz/a				C					
3	COC	1 % v/v				C					
4	AUTHORITY XL	4 oz/a				A	2 a	81 a	58 b	100 a	100 a
4	ANTHEM	6 oz/a				B					
4	ROUNDUP POWERMAX	32 oz/a				B					
4	NIS	0.25 % v/v				B					
5	ROUNDUP POWERMAX	32 oz/a				B	0 a	0 c	0 d	0 c	0 c
5	ANTHEM	6 oz/a				B					
5	CLASSIC	0.75 oz/a				B					
5	NIS	0.25 % v/v				B					
5	ROUNDUP POWERMAX	32 oz/a				D					
5	NIS	0.25 % v/v				D					
6	AUTHORITY FIRST DF	4 oz/a				A	2 a	83 a	89 a	100 a	100 a
6	ANTHEM	6 oz/a				B					
6	ROUNDUP POWERMAX	32 oz/a				B					
6	NIS	0.25 % v/v				B					
7	ROUNDUP POWERMAX	32 oz/a				B	0 a	0 c	0 d	0 c	0 c
7	ANTHEM	6 oz/a				B					
7	FIRSTRATE	0.30 oz/a				B					
7	NIS	0.25 % v/v				B					
7	ROUNDUP POWERMAX	32 oz/a				D					
7	NIS	0.25 % v/v				D					
8	ROUNDUP POWERMAX	32 oz/a				B	0 a	0 c	0 d	0 c	0 c

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Pest Code	SETFA	AMBTR	AMARE	CHEAL							
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Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Common lambsquarters							
Crop Code	GLXMA										
BBCH Scale	BSOY										
Crop Scientific Name	Glycine max										
Crop Name	Soybean										
Rating Date	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012							
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	22 22	22 22	22 22	22 22							
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	22 DA-A							
Plant-Eval Interval	22 DP-1	22 DP-1	22 DP-1	22 DP-1							
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	6	7	8	9	10
8	ANTHEM	6 oz/a				B					
8	FRONTROW @ .42 oz										
8	FIRSTRATE	0.0158 lb ai/a	0.3 oz/a			B					
8	PYTHON	0.006 lb ai/a	0.12 oz/a			B					
8	NIS	0.25 % v/v				B					
8	ROUNDUP POWERMAX	32 oz/a				D					
8	NIS	0.25 % v/v				D					
9	ANTHEM	5 oz/a				A	1 a	66 ab	43 c	88 b	99 ab
9	CADET	0.5 oz/a				B					
9	CLASSIC	0.75 oz/a				B					
9	NIS	0.25 % v/v				B					
10	ANTHEM	5 oz/a				A	2 a	70 ab	55 bc	93 ab	98 b
10	CADET	0.5 oz/a				B					
10	FIRSTRATE	0.30 oz/a				B					
10	NIS	0.25 % v/v				B					
	LSD (P=.05)						1.7	16.8	13.8	10.5	1.7
	Standard Deviation						1.1	11.6	9.5	7.2	1.2
	CV						109.05	22.09	20.85	10.63	1.68
	Bartlett's X2						4.331	8.521	3.128	0.158	0.061
	P(Bartlett's X2)						0.632	0.202	0.793	0.691	0.805
	Replicate F						10.195	0.112	1.240	2.170	1.678
	Replicate Prob(F)						0.0001	0.9526	0.3145	0.1147	0.1952
	Treatment F						2.237	40.475	51.581	169.979	6762.763
	Treatment Prob(F)						0.0512	0.0001	0.0001	0.0001	0.0001

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Pest Code		SETFA	AMBTR	CHEAL	AMARE					
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>					
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed					
Crop Code	GLXMA									
BBCH Scale	BSOY									
Crop Scientific Name	Glycine max									
Crop Name	Soybean									
Rating Date	Jul-10-2012	Jul-10-2012	Jul-10-2012	Jul-10-2012	Jul-10-2012					
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Days After First/Last Applic.	43 14	43 14	43 14	43 14	43 14					
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B					
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1					
Days After Emergence	29 DE-1	29 DE-1	29 DE-1	29 DE-1	29 DE-1					
Number of Decimals	0	0	0	0	0					
Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate	Appl Unit Code	11	12	13	14	15
1 AUTHORITY FIRST DF	6.4 oz/a				A	0 d	55 b	33 b	99 a	100 a
1 ROUNDUP POWERMAX	32 oz/a				C					
1 Cadet	0.6 oz/a				C					
1 NIS	0.25 % v/v				C					
1 N-pak ams	3.75 % v/v				C					
2 AUTHORITY XL	6 oz/a				A	1 d	55 b	20 bc	100 a	100 a
2 ROUNDUP POWERMAX	32 oz/a				C					
2 Resource	3 oz/a				C					
2 NIS	0.25 % v/v				C					
3 AUTHORITY MTZ	16 oz/a				A	0 d	20 c	5 c	100 a	100 a
3 SELECT MAX	8 oz/a				C					
3 COC	1 % v/v				C					
4 AUTHORITY XL	4 oz/a				A	4 bc	100 a	72 a	100 a	100 a
4 ANTHEM	6 oz/a				B					
4 ROUNDUP POWERMAX	32 oz/a				B					
4 NIS	0.25 % v/v				B					
5 ROUNDUP POWERMAX	32 oz/a				B	7 a	90 a	83 a	100 a	98 ab
5 ANTHEM	6 oz/a				B					
5 CLASSIC	0.75 oz/a				B					
5 NIS	0.25 % v/v				B					
5 ROUNDUP POWERMAX	32 oz/a				D					
5 NIS	0.25 % v/v				D					
6 AUTHORITY FIRST DF	4 oz/a				A	4 bc	100 a	82 a	100 a	100 a
6 ANTHEM	6 oz/a				B					
6 ROUNDUP POWERMAX	32 oz/a				B					
6 NIS	0.25 % v/v				B					
7 ROUNDUP POWERMAX	32 oz/a				B	6 ab	100 a	68 a	83 b	85 cd
7 ANTHEM	6 oz/a				B					
7 FIRSTRATE	0.30 oz/a				B					
7 NIS	0.25 % v/v				B					
7 ROUNDUP POWERMAX	32 oz/a				D					
7 NIS	0.25 % v/v				D					
8 ROUNDUP POWERMAX	32 oz/a				B	7 a	100 a	71 a	93 ab	88 bc

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Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Scientific Name	Glycine max			
Crop Name	Soybean			
Rating Date	Jul-10-2012	Jul-10-2012	Jul-10-2012	Jul-10-2012
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	43 14	43 14	43 14	43 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1
Days After Emergence	29 DE-1	29 DE-1	29 DE-1	29 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	11	12	13	14	15
8 ANTHEM	6 oz/a				B					
8 FRONTROW @ .42 oz										
8 FIRSTRATE	0.0158 lb ai/a		0.3 oz/a		B					
8 PYTHON	0.006 lb ai/a		0.12 oz/a		B					
8 NIS	0.25 % v/v				B					
8 ROUNDUP POWERMAX	32 oz/a				D					
8 NIS	0.25 % v/v				D					
9 ANTHEM	5 oz/a				A	1 d	25 c	20 bc	83 b	98 ab
9 CADET	0.5 oz/a				B					
9 CLASSIC	0.75 oz/a				B					
9 NIS	0.25 % v/v				B					
10 ANTHEM	5 oz/a				A	2 cd	48 b	40 b	63 c	75 d
10 CADET	0.5 oz/a				B					
10 FIRSTRATE	0.30 oz/a				B					
10 NIS	0.25 % v/v				B					
LSD (P=.05)						2.6	19.6	21.9	12.5	11.2
Standard Deviation						1.8	13.5	15.1	8.6	7.7
CV						59.77	19.55	30.63	9.38	8.16
Bartlett's X2						6.134	4.968	11.041	14.328	8.128
P(Bartlett's X2)						0.524	0.42	0.273	0.006*	0.087
Replicate F						1.265	1.141	2.522	2.246	3.535
Replicate Prob(F)						0.3062	0.3501	0.0789	0.1058	0.0279
Treatment F						9.712	22.983	14.715	8.515	5.169
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0004

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Pest Type	W Weed	W Weed	W Weed	W Weed						
Pest Code	ABUTH	IPOHE	SETFA	AMBTR						
Pest Scientific Name	Abutilon theop>	Ipomoea heder>	Setaria faberi	Ambrosia trifi>						
Pest Name	velvetleaf	Ivyleaf mornin>	Giant foxtail	Giant ragweed						
Crop Code			GLXMA							
BBCH Scale			BSOY							
Crop Scientific Name			Glycine max							
Crop Name			Soybean							
Rating Date	Jul-10-2012	Jul-10-2012	Jul-25-2012	Jul-25-2012						
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO						
Rating Unit	%	%	%	%						
Number of Subsamples	1	1	1	1						
Days After First/Last Applic.	43 14	43 14	58 13	58 13						
Trt-Eval Interval	14 DA-B	14 DA-B	13 DA-C	13 DA-C						
Plant-Eval Interval	43 DP-1	43 DP-1	58 DP-1	58 DP-1						
Days After Emergence	29 DE-1	29 DE-1	44 DE-1	44 DE-1						
Number of Decimals	0	0	0	0						
Trt Treatment	Rate	Rate	Other	Other	Appl	16	17	18	19	20
No. Name	Rate	Unit	Rate	Rate	Unit Code					
1 AUTHORITY FIRST DF	6.4 oz/a				A	100 a	100 a	0 a	100 a	96 ab
1 ROUNDUP POWERMAX	32 oz/a				C					
1 Cadet	0.6 oz/a				C					
1 NIS	0.25 % v/v				C					
1 N-pak ams	3.75 % v/v				C					
2 AUTHORITY XL	6 oz/a				A	100 a	100 a	0 a	100 a	84 ab
2 ROUNDUP POWERMAX	32 oz/a				C					
2 Resource	3 oz/a				C					
2 NIS	0.25 % v/v				C					
3 AUTHORITY MTZ	16 oz/a				A	100 a	100 a	0 a	65 b	13 d
3 SELECT MAX	8 oz/a				C					
3 COC	1 % v/v				C					
4 AUTHORITY XL	4 oz/a				A	100 a	100 a	0 a	100 a	80 b
4 ANTHEM	6 oz/a				B					
4 ROUNDUP POWERMAX	32 oz/a				B					
4 NIS	0.25 % v/v				B					
5 ROUNDUP POWERMAX	32 oz/a				B	100 a	100 a	0 a	100 a	100 a
5 ANTHEM	6 oz/a				B					
5 CLASSIC	0.75 oz/a				B					
5 NIS	0.25 % v/v				B					
5 ROUNDUP POWERMAX	32 oz/a				D					
5 NIS	0.25 % v/v				D					
6 AUTHORITY FIRST DF	4 oz/a				A	100 a	100 a	0 a	100 a	89 ab
6 ANTHEM	6 oz/a				B					
6 ROUNDUP POWERMAX	32 oz/a				B					
6 NIS	0.25 % v/v				B					
7 ROUNDUP POWERMAX	32 oz/a				B	100 a	100 a	0 a	100 a	98 a
7 ANTHEM	6 oz/a				B					
7 FIRSTRATE	0.30 oz/a				B					
7 NIS	0.25 % v/v				B					
7 ROUNDUP POWERMAX	32 oz/a				D					
7 NIS	0.25 % v/v				D					
8 ROUNDUP POWERMAX	32 oz/a				B	100 a	99 a	0 a	100 a	98 a

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Pest Type	W Weed	W Weed	W Weed	W Weed						
Pest Code	ABUTH	IPOHE	SETFA	AMBTR						
Pest Scientific Name	Abutilon theop>	Ipomoea heder>	Setaria faberi	Ambrosia trifi>						
Pest Name	velvetleaf	Ivyleaf mornin>	Giant foxtail	Giant ragweed						
Crop Code			GLXMA							
BBCH Scale			BSOY							
Crop Scientific Name			Glycine max							
Crop Name			Soybean							
Rating Date	Jul-10-2012	Jul-10-2012	Jul-25-2012	Jul-25-2012						
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO						
Rating Unit	%	%	%	%						
Number of Subsamples	1	1	1	1						
Days After First/Last Applic.	43 14	43 14	58 13	58 13						
Trt-Eval Interval	14 DA-B	14 DA-B	13 DA-C	13 DA-C						
Plant-Eval Interval	43 DP-1	43 DP-1	58 DP-1	58 DP-1						
Days After Emergence	29 DE-1	29 DE-1	44 DE-1	44 DE-1						
Number of Decimals	0	0	0	0						
Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	16	17	18	19	20
8 ANTHEM	6 oz/a				B					
8 FRONTROW @ .42 oz										
8 FIRSTRATE	0.0158 lb ai/a		0.3 oz/a		B					
8 PYTHON	0.006 lb ai/a		0.12 oz/a		B					
8 NIS	0.25 % v/v				B					
8 ROUNDUP POWERMAX	32 oz/a				D					
8 NIS	0.25 % v/v				D					
9 ANTHEM	5 oz/a				A	100 a	80 b	0 a	43 d	15 d
9 CADET	0.5 oz/a				B					
9 CLASSIC	0.75 oz/a				B					
9 NIS	0.25 % v/v				B					
10 ANTHEM	5 oz/a				A	100 a	73 b	0 a	54 c	40 c
10 CADET	0.5 oz/a				B					
10 FIRSTRATE	0.30 oz/a				B					
10 NIS	0.25 % v/v				B					
LSD (P=.05)						0.0	16.8	0.0	11.2	16.4
Standard Deviation						0.0	11.6	0.0	7.8	11.3
CV						0.0	12.16	0.0	9.0	15.91
Bartlett's X2						0.0	10.026	0.0	1.648	17.578
P(Bartlett's X2)						.	0.007*	.	0.439	0.025*
Replicate F						0.000	0.702	0.000	0.676	2.008
Replicate Prob(F)						1.0000	0.5589	1.0000	0.5741	0.1365
Treatment F						0.000	3.057	0.000	35.109	38.021
Treatment Prob(F)						1.0000	0.0117	1.0000	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	CHEAL	AMARE	ABUTH	IPOHE					
Pest Scientific Name	Chenopodium al-	Amaranthus ret-	Abutilon theop>	Ipomoea hедера>					
Pest Name	Common lambsqu>	Redroot pigweed	velvetleaf	Ivyleaf mornin>					
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Jul-25-2012	Jul-25-2012	Jul-25-2012	Jul-25-2012					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1					
Days After First/Last Applic.	58 13	58 13	58 13	58 13					
Trt-Eval Interval	13 DA-C	13 DA-C	13 DA-C	13 DA-C					
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1					
Days After Emergence	44 DE-1	44 DE-1	44 DE-1	44 DE-1					
Number of Decimals	0	0	0	0					
Trt Treatment	Rate	Rate	Other	Other	Appl	21	22	23	24
No. Name	Rate	Unit	Rate	Rate	Unit Code				
1 AUTHORITY FIRST DF	6.4 oz/a				A	100 a	100 a	100 a	100 a
1 ROUNDUP POWERMAX	32 oz/a				C				
1 Cadet	0.6 oz/a				C				
1 NIS	0.25 % v/v				C				
1 N-pak ams	3.75 % v/v				C				
2 AUTHORITY XL	6 oz/a				A	100 a	100 a	100 a	100 a
2 ROUNDUP POWERMAX	32 oz/a				C				
2 Resource	3 oz/a				C				
2 NIS	0.25 % v/v				C				
3 AUTHORITY MTZ	16 oz/a				A	100 a	90 a	100 a	100 a
3 SELECT MAX	8 oz/a				C				
3 COC	1 % v/v				C				
4 AUTHORITY XL	4 oz/a				A	100 a	100 a	100 a	100 a
4 ANTHEM	6 oz/a				B				
4 ROUNDUP POWERMAX	32 oz/a				B				
4 NIS	0.25 % v/v				B				
5 ROUNDUP POWERMAX	32 oz/a				B	100 a	100 a	100 a	100 a
5 ANTHEM	6 oz/a				B				
5 CLASSIC	0.75 oz/a				B				
5 NIS	0.25 % v/v				B				
5 ROUNDUP POWERMAX	32 oz/a				D				
5 NIS	0.25 % v/v				D				
6 AUTHORITY FIRST DF	4 oz/a				A	100 a	100 a	100 a	100 a
6 ANTHEM	6 oz/a				B				
6 ROUNDUP POWERMAX	32 oz/a				B				
6 NIS	0.25 % v/v				B				
7 ROUNDUP POWERMAX	32 oz/a				B	100 a	100 a	100 a	100 a
7 ANTHEM	6 oz/a				B				
7 FIRSTRATE	0.30 oz/a				B				
7 NIS	0.25 % v/v				B				
7 ROUNDUP POWERMAX	32 oz/a				D				
7 NIS	0.25 % v/v				D				
8 ROUNDUP POWERMAX	32 oz/a				B	100 a	100 a	100 a	100 a

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Pest Type	W Weed	W Weed	W Weed	W Weed						
Pest Code	CHEAL	AMARE	ABUTH	IPOHE						
Pest Scientific Name	Chenopodium al-	Amaranthus ret-	Abutilon theop-	Ipomoea heder-						
Pest Name	Common lambsqu-	Redroot pigweed	velvetleaf	Ivyleaf mornin-						
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	Jul-25-2012	Jul-25-2012	Jul-25-2012	Jul-25-2012						
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%						
Number of Subsamples	1	1	1	1						
Days After First/Last Applic.	58 13	58 13	58 13	58 13						
Trt-Eval Interval	13 DA-C	13 DA-C	13 DA-C	13 DA-C						
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1						
Days After Emergence	44 DE-1	44 DE-1	44 DE-1	44 DE-1						
Number of Decimals	0	0	0	0						
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	21	22	23	24
8	ANTHEM	6	oz/a			B				
8	FRONTROW @ .42 oz									
8	FIRSTRATE	0.0158	lb ai/a	0.3	oz/a	B				
8	PYTHON	0.006	lb ai/a	0.12	oz/a	B				
8	NIS	0.25	% v/v			B				
8	ROUNDUP POWERMAX	32	oz/a			D				
8	NIS	0.25	% v/v			D				
9	ANTHEM	5	oz/a			A	88 a	100 a	100 a	84 a
9	CADET	0.5	oz/a			B				
9	CLASSIC	0.75	oz/a			B				
9	NIS	0.25	% v/v			B				
10	ANTHEM	5	oz/a			A	80 a	73 b	100 a	75 a
10	CADET	0.5	oz/a			B				
10	FIRSTRATE	0.30	oz/a			B				
10	NIS	0.25	% v/v			B				
LSD (P=.05)		15.4		13.2				0.0		17.4
Standard Deviation		10.6		9.1				0.0		12.0
CV		10.97		9.44				0.0		12.47
Bartlett's X2		0.019		0.031				0.0		0.0
P(Bartlett's X2)		0.892		0.859				.		.
Replicate F		1.626		1.808				0.000		1.413
Replicate Prob(F)		0.2074		0.1695				1.0000		0.2623
Treatment F		1.772		3.855				0.000		2.189
Treatment Prob(F)		0.1225		0.0031				1.0000		0.0590

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SIDSP	SETFA	AMBTR	CHEAL	AMARE
Pest Scientific Name	Sida spinosa	Setaria faberi	Ambrosia trifida	Chenopodium album	Amaranthus retrofractus
Pest Name	Prickly sida	Giant foxtail	Giant ragweed	Common lambsquarters	Redroot pigweed
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-25-2012	Aug-1-2012	Aug-1-2012	Aug-1-2012	Aug-1-2012
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	58 13	65 20	65 20	65 20	65 20
Trt-Eval Interval	13 DA-C	20 DA-D	20 DA-D	20 DA-D	20 DA-D
Plant-Eval Interval	58 DP-1	65 DP-1	65 DP-1	65 DP-1	65 DP-1
Days After Emergence	44 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Other	Other	Appl	
No. Name	Rate	Rate	Rate	Unit Code	
					25
					26
					27
					28
					29
1 AUTHORITY FIRST DF	6.4 oz/a			A	100 a
1 ROUNDUP POWERMAX	32 oz/a			C	100 a
1 Cadet	0.6 oz/a			C	100 a
1 NIS	0.25 % v/v			C	100 a
1 N-pak ams	3.75 % v/v			C	100 a
2 AUTHORITY XL	6 oz/a			A	100 a
2 ROUNDUP POWERMAX	32 oz/a			C	100 a
2 Resource	3 oz/a			C	100 a
2 NIS	0.25 % v/v			C	100 a
3 AUTHORITY MTZ	16 oz/a			A	100 a
3 SELECT MAX	8 oz/a			C	96 a
3 COC	1 % v/v			C	35 d
4 AUTHORITY XL	4 oz/a			A	100 a
4 ANTHEM	6 oz/a			B	100 a
4 ROUNDUP POWERMAX	32 oz/a			B	76 b
4 NIS	0.25 % v/v			B	100 a
5 ROUNDUP POWERMAX	32 oz/a			B	100 a
5 ANTHEM	6 oz/a			B	100 a
5 CLASSIC	0.75 oz/a			B	100 a
5 NIS	0.25 % v/v			B	100 a
5 ROUNDUP POWERMAX	32 oz/a			D	100 a
5 NIS	0.25 % v/v			D	100 a
6 AUTHORITY FIRST DF	4 oz/a			A	100 a
6 ANTHEM	6 oz/a			B	100 a
6 ROUNDUP POWERMAX	32 oz/a			B	93 a
6 NIS	0.25 % v/v			B	100 a
7 ROUNDUP POWERMAX	32 oz/a			B	100 a
7 ANTHEM	6 oz/a			B	100 a
7 FIRSTRATE	0.30 oz/a			B	100 a
7 NIS	0.25 % v/v			B	100 a
7 ROUNDUP POWERMAX	32 oz/a			D	100 a
7 NIS	0.25 % v/v			D	100 a
8 ROUNDUP POWERMAX	32 oz/a			B	100 a

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	SIDSP	SETFA	AMBTR	CHEAL	AMARE					
Pest Scientific Name	Sida spinosa	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>					
Pest Name	Prickly sida	Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed					
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	Jul-25-2012	Aug-1-2012	Aug-1-2012	Aug-1-2012	Aug-1-2012					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Days After First/Last Applic.	58 13	65 20	65 20	65 20	65 20					
Trt-Eval Interval	13 DA-C	20 DA-D	20 DA-D	20 DA-D	20 DA-D					
Plant-Eval Interval	58 DP-1	65 DP-1	65 DP-1	65 DP-1	65 DP-1					
Days After Emergence	44 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1					
Number of Decimals	0	0	0	0	0					
Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	25	26	27	28	29
8 ANTHEM		6 oz/a			B					
8 FRONTROW @ .42 oz										
8 FIRSTRATE	0.0158 lb ai/a		0.3 oz/a		B					
8 PYTHON	0.006 lb ai/a		0.12 oz/a		B					
8 NIS	0.25 % v/v				B					
8 ROUNDUP POWERMAX	32 oz/a				D					
8 NIS	0.25 % v/v				D					
9 ANTHEM		5 oz/a			A	100 a	40 b	40 cd	100 a	100 a
9 CADET		0.5 oz/a			B					
9 CLASSIC		0.75 oz/a			B					
9 NIS		0.25 % v/v			B					
10 ANTHEM		5 oz/a			A	100 a	40 b	48 c	100 a	99 a
10 CADET		0.5 oz/a			B					
10 FIRSTRATE		0.30 oz/a			B					
10 NIS		0.25 % v/v			B					
LSD (P=.05)						0.0	10.2	10.5	0.0	1.1
Standard Deviation						0.0	7.0	7.2	0.0	0.8
CV						0.0	8.0	9.14	0.0	0.79
Bartlett's X2						0.0	7.711	4.651	0.0	0.0
P(Bartlett's X2)						.	0.021*	0.325	.	.
Replicate F						0.000	0.623	2.275	0.000	1.000
Replicate Prob(F)						1.0000	0.6062	0.1026	1.0000	0.4079
Treatment F						0.000	51.393	58.169	0.000	1.000
Treatment Prob(F)						1.0000	0.0001	0.0001	1.0000	0.4635

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Pest Type	W Weed	W Weed	W Weed					
Pest Code	ABUTH	IPOHE	SIDSP					
Pest Scientific Name	Abutilon theop>	Ipomoea hederata>	Sida spinosa					
Pest Name	velvetleaf	Ivyleaf mornin>	Prickly sida					
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Aug-1-2012	Aug-1-2012	Aug-1-2012					
Rating Type	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%					
Number of Subsamples	1	1	1					
Days After First/Last Applic.	65 20	65 20	65 20					
Trt-Eval Interval	20 DA-D	20 DA-D	20 DA-D					
Plant-Eval Interval	65 DP-1	65 DP-1	65 DP-1					
Days After Emergence	51 DE-1	51 DE-1	51 DE-1					
Number of Decimals	0	0	0					
Trt Treatment	Rate	Rate	Other	Other	Appl	30	31	32
No. Name	Rate	Unit	Rate	Rate	Unit Code			
1 AUTHORITY FIRST DF	6.4 oz/a				A	100 a	100 a	100 a
1 ROUNDUP POWERMAX	32 oz/a				C			
1 Cadet	0.6 oz/a				C			
1 NIS	0.25 % v/v				C			
1 N-pak ams	3.75 % v/v				C			
2 AUTHORITY XL	6 oz/a				A	100 a	100 a	100 a
2 ROUNDUP POWERMAX	32 oz/a				C			
2 Resource	3 oz/a				C			
2 NIS	0.25 % v/v				C			
3 AUTHORITY MTZ	16 oz/a				A	100 a	100 a	100 a
3 SELECT MAX	8 oz/a				C			
3 COC	1 % v/v				C			
4 AUTHORITY XL	4 oz/a				A	100 a	100 a	100 a
4 ANTHEM	6 oz/a				B			
4 ROUNDUP POWERMAX	32 oz/a				B			
4 NIS	0.25 % v/v				B			
5 ROUNDUP POWERMAX	32 oz/a				B	100 a	100 a	100 a
5 ANTHEM	6 oz/a				B			
5 CLASSIC	0.75 oz/a				B			
5 NIS	0.25 % v/v				B			
5 ROUNDUP POWERMAX	32 oz/a				D			
5 NIS	0.25 % v/v				D			
6 AUTHORITY FIRST DF	4 oz/a				A	100 a	100 a	100 a
6 ANTHEM	6 oz/a				B			
6 ROUNDUP POWERMAX	32 oz/a				B			
6 NIS	0.25 % v/v				B			
7 ROUNDUP POWERMAX	32 oz/a				B	100 a	100 a	100 a
7 ANTHEM	6 oz/a				B			
7 FIRSTRATE	0.30 oz/a				B			
7 NIS	0.25 % v/v				B			
7 ROUNDUP POWERMAX	32 oz/a				D			
7 NIS	0.25 % v/v				D			
8 ROUNDUP POWERMAX	32 oz/a				B	100 a	100 a	100 a

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Pest Type	W Weed	W Weed	W Weed
Pest Code	ABUTH	IPOHE	SIDSP
Pest Scientific Name	Abutilon theop>	Ipomoea hederata>	Sida spinosa
Pest Name	velvetleaf	Ivyleaf mornin>	Prickly sida
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	Aug-1-2012	Aug-1-2012	Aug-1-2012
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	65 20	65 20	65 20
Trt-Eval Interval	20 DA-D	20 DA-D	20 DA-D
Plant-Eval Interval	65 DP-1	65 DP-1	65 DP-1
Days After Emergence	51 DE-1	51 DE-1	51 DE-1
Number of Decimals	0	0	0
Trt Treatment	Rate	Other Other	Appl
No. Name	Rate Unit	Rate Rate Unit	Code
8 ANTHEM	6 oz/a		B
8 FRONTROW @ .42 oz			
8 FIRSTRATE	0.0158 lb ai/a	0.3 oz/a	B
8 PYTHON	0.006 lb ai/a	0.12 oz/a	B
8 NIS	0.25 % v/v		B
8 ROUNDUP POWERMAX	32 oz/a		D
8 NIS	0.25 % v/v		D
9 ANTHEM	5 oz/a		A
9 CADET	0.5 oz/a		B
9 CLASSIC	0.75 oz/a		B
9 NIS	0.25 % v/v		B
10 ANTHEM	5 oz/a		A
10 CADET	0.5 oz/a		B
10 FIRSTRATE	0.30 oz/a		B
10 NIS	0.25 % v/v		B
LSD (P=.05)	0.0	0.0	0.0
Standard Deviation	0.0	0.0	0.0
CV	0.0	0.0	0.0
Bartlett's X2	0.0	0.0	0.0
P(Bartlett's X2)	.	.	.
Replicate F	0.000	0.000	0.000
Replicate Prob(F)	1.0000	1.0000	1.0000
Treatment F	0.000	0.000	0.000
Treatment Prob(F)	1.0000	1.0000	1.0000