

Ohio State University Horticulture and Crop Science

Application Description

	A	B
Application Date:	May-28-2012	Jul-12-2012
Time of Day:	6:30 P.M.	9:00 A.M.
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROSOL	BROFOL
Applied By:		Dobbels
Air Temperature, Unit:	84 F	78 F
% Relative Humidity:	70	71
Wind Velocity, Unit:	3 MPH	1.8 MPH
Wind Direction:	W	E
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	79 F	75 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	90	0
Next Rain Occurred On:	May-30-2012	Jul-15-2012

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		17 100
Height, Unit:		15 IN
Height Minimum, Maximum:		14 15

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		23 60
Stage Minimum, Percent:		22 10
Stage Maximum, Percent:		55 30
Height, Unit:		22 IN
Height Minimum, Maximum:		20 24
Density, Unit:		432 M2
Pest 2 Code, Type, Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:		23 60
Stage Minimum, Percent:		22 10
Stage Maximum, Percent:		55 30
Height, Unit:		25 IN
Height Minimum, Maximum:		24 25
Density, Unit:		86 M2
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		19 100
Height, Unit:		28 IN
Height Minimum, Maximum:		24 32
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		19 100
Height, Unit:		22 IN
Height Minimum, Maximum:		20 24
Density, Unit:		4 M2
Pest 5 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		19 100
Height, Unit:		14 IN
Height Minimum, Maximum:		12 16
Density, Unit:		5 M2
Pest 6 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:		19 100
Height, Unit:		16 IN
Height Minimum, Maximum:		15 18
Density, Unit:		16 M2
Pest 7 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:		19 100
Diameter, Unit:		12 IN
Height, Unit:		20 IN
Height Minimum, Maximum:		20 24
Density, Unit:		3 M2

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Application Equipment

	A	B
Appl. Equipment:	10' AI XR	6' 10 GPA
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI
Nozzle Type:	AI XR	VS
Nozzle Size:	110015	8001
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	10 FT	6.67 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	10 GPA
Mix Size, Unit:	2 Liters	3 Gallons
Propellant:	CO2	CO2

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MANA Soybean Concepts Pre-Program

Title No. 2:
Trial ID: CMT-PRE12 Protocol ID: CMT-PRE12
Location: Study Director: Anthony F. Dobbels
Project ID: Investigator: Dr. Mark M. Loux
Sponsor Contact: Gerald Wiley

Pest Type	W Weed	W Weed	W Weed	W Weed
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	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	22 22	22 22	22 22	22 22	22 22
Trt-Eval Interval	22 DA-A	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	22 DP-1
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
1	MANA 14204	1.35 lb ai/a		2 pt/a	A	1 bc	65 efg	50 bcd	73 b	73 d
	1 Roundup PowerMax	0.77 lb ae/a		22 oz/a	B					
	1 N-PAK AMS	2.5 % v/v		1.5 qt/a	B					
2	MANA 14204	2.02 lb ai/a		3 pt/a	A	3 a	87 ab	53 bcd	85 ab	95 ab
	2 Roundup PowerMax	0.77 lb ae/a		22 oz/a	B					
	2 N-PAK AMS	2.5 % v/v		1.5 qt/a	B					
3	PREFIX	1.32 lb ai/a		2 pt/a	A	1 bc	78 a-e	43 cd	88 ab	88 a-d
	3 Roundup PowerMax	0.77 lb ae/a		22 oz/a	B					
	3 N-PAK AMS	2.5 % v/v		1.5 qt/a	B					
4	MANA 14223	1.02 lb ai/a		20 oz/a	A	0 c	60 fg	33 d	87 ab	78 cd
	4 Roundup PowerMax	0.77 lb ae/a		22 oz/a	B					
	4 N-PAK AMS	2.5 % v/v		1.5 qt/a	B					
5	MANA 14223	2.44 lb ai/a		3 pt/a	A	2 abc	92 a	33 d	98 a	100 a
	5 Roundup PowerMax	0.77 lb ae/a		22 oz/a	B					
	5 N-PAK AMS	2.5 % v/v		1.5 qt/a	B					
6	Boundary	1.02 lb ai/a		20 oz/a	A	0 c	83 a-d	38 d	88 ab	80 bcd
	6 Roundup PowerMax	0.77 lb ae/a		22 oz/a	B					
	6 N-PAK AMS	2.5 % v/v		1.5 qt/a	B					
7	Valor SX	0.064 lb ai/a		2 oz/a	A	2 abc	35 h	85 a	92 a	92 abc
	7 Reflex	0.25 lb ai/a		1 pt/a	A					
	7 Roundup PowerMax	0.77 lb ae/a		22 oz/a	B					
	7 N-PAK AMS	2.5 % v/v		1.5 qt/a	B					
8	MANA 25311	0.98 lb ai/a		1.5 pt/a	A	2 ab	78 a-e	68 abc	100 a	100 a
	8 Roundup PowerMax	0.77 lb ae/a		22 oz/a	B					
	8 N-PAK AMS	2.5 % v/v		1.5 qt/a	B					
9	MANA 25311	1.31 lb ai/a		2 pt/a	A	2 abc	86 abc	68 abc	100 a	100 a
	9 Roundup PowerMax	0.77 lb ae/a		22 oz/a	B					
	9 N-PAK AMS	2.5 % v/v		1.5 qt/a	B					
10	Pursuit	0.047 lb ai/a		3 oz/a	A	1 bc	82 a-d	60 a-d	100 a	100 a
	10 Parallel PCS	0.94 lb ai/a	0.938	pt/a	A					
	10 Roundup PowerMax	0.77 lb ae/a		22 oz/a	B					
	10 N-PAK AMS	2.5 % v/v		1.5 qt/a	B					

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	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	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	22 22	22 22	22 22	22 22	22 22
Trt-Eval Interval	22 DA-A	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	22 DP-1
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1	2	3	4	5
11 MANA 25350	0.234 lb ai/a		0.75 pt/a		A	2 ab	75 b-f	78 ab	100 a	100 a
11 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
11 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
12 MANA 25350	0.313 lb ai/a		1 pt/a		A	2 ab	84 a-d	68 abc	100 a	100 a
12 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
12 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
13 Reflex	0.186 lb ai/a		11.88 oz/a		A	0 c	58 g	48 cd	100 a	100 a
13 Pursuit	0.047 lb ai/a		3 oz/a		A					
13 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
13 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
14 Valor SX	0.064 lb ai/a		2 oz/a		A	2 ab	69 d-g	43 cd	100 a	100 a
14 Pursuit	0.047 lb ai/a		3 oz/a		A					
14 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
14 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
15 Valor SX	0.064 lb ai/a		2 oz/a		A	0 c	5 i	0 e	40 c	23 e
15 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
15 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
16 Pursuit	0.0625 lb ai/a		4 oz/a		A	2 abc	70 c-g	68 abc	93 a	93 abc
16 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
16 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
17 Sencor 75DF	0.47 lb ai/a		10 oz/a		A	0 c	38 h	43 cd	90 ab	81 bcd
17 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
17 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
18 Valor XLT 3oz.						1 bc	28 h	70 abc	100 a	95 ab
18 Valor SX	0.056 lb ai/a		1.76 oz/a		A					
18 Classic	0.0194 lb ai/a		1.24 oz/a		A					
18 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
18 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
19 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	0 c	0 i	0 e	0 d	0 f
19 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
20 Untreated						0 c	0 i	0 e	0 d	0 f
LSD (P=.05)						2.0	16.4	29.4	18.9	16.7
Standard Deviation						1.4	11.6	20.8	13.4	11.8
CV						139.13	19.76	44.12	16.4	14.82
Bartlett's X2						3.66	21.854	23.176	19.864	7.89
P(Bartlett's X2)						0.989	0.19	0.109	0.019*	0.545
Replicate F						0.695	4.497	0.489	2.525	2.791
Replicate Prob(F)						0.5589	0.0067	0.6915	0.0666	0.0486
Treatment F						1.797	27.464	5.839	21.773	30.374
Treatment Prob(F)						0.0461	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	ABUTH	HIBTR	SIDSP	IPOHE	
Pest Scientific Name	Abutilon theop>	Hibiscus	Sida spinosa	Ipomoea hederata>	
Pest Name	velvetleaf	Venice mallow	Prickly sida	Ivyleaf mornin>	
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	Jul-2-2012
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYTO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	22 22	22 22	22 22	22 22	35 35
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	22 DA-A	35 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1	22 DP-1	22 DP-1	35 DP-1
Days After Emergence	8 DE-1	8 DE-1	8 DE-1	8 DE-1	21 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Rate	Other Other	Appl	
No. Name	Rate	Unit	Rate Rate	Unit Code	6 7 8 9 10
1 MANA 14204	1.35 lb ai/a	2 pt/a		A	50 c 70 b 75 b 33 bcd 1 a
1 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
1 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
2 MANA 14204	2.02 lb ai/a	3 pt/a		A	65 bc 89 a 98 a 33 bcd 3 a
2 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
2 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
3 PREFIX	1.32 lb ai/a	2 pt/a		A	65 bc 85 ab 98 a 33 bcd 1 a
3 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
3 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
4 MANA 14223	1.02 lb ai/a	20 oz/a		A	65 bc 88 ab 90 ab 55 abc 0 a
4 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
4 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
5 MANA 14223	2.44 lb ai/a	3 pt/a		A	93 a 100 a 95 a 48 a-d 2 a
5 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
5 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
6 Boundary	1.02 lb ai/a	20 oz/a		A	75 b 86 ab 90 ab 28 cde 1 a
6 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
6 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
7 Valor SX	0.064 lb ai/a	2 oz/a		A	63 bc 88 ab 85 ab 35 a-d 0 a
7 Reflex	0.25 lb ai/a	1 pt/a		A	
7 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
7 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
8 MANA 25311	0.98 lb ai/a	1.5 pt/a		A	100 a 100 a 100 a 50 a-d 2 a
8 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
8 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
9 MANA 25311	1.31 lb ai/a	2 pt/a		A	100 a 100 a 100 a 65 a 2 a
9 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
9 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
10 Pursuit	0.047 lb ai/a	3 oz/a		A	100 a 100 a 100 a 63 ab 2 a
10 Parallel PCS	0.94 lb ai/a	0.938 pt/a		A	
10 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
10 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	

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Pest Type	W Weed	W Weed	W Weed	W Weed						
Pest Code	ABUTH	HIBTR	SIDSP	IPOHE						
Pest Scientific Name	Abutilon theop>	Hibiscus trion>	Sida Ipomoea heder>	Sida Ipomoea heder>						
Pest Name	velvetleaf	Venice mallow	Prickly sida	Ivyleaf mornin>						
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	CONTRO	CONTRO	CONTRO	CONTRO						
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 Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	6	7	8	9	10
11 MANA 25350	0.234 lb ai/a		0.75 pt/a		A	100 a	100 a	100 a	51 a-d	1 a
11 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
11 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
12 MANA 25350	0.313 lb ai/a		1 pt/a		A	100 a	100 a	100 a	60 ab	1 a
12 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
12 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
13 Reflex	0.186 lb ai/a		11.88 oz/a		A	100 a	100 a	100 a	43 a-d	1 a
13 Pursuit	0.047 lb ai/a		3 oz/a		A					
13 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
13 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
14 Valor SX	0.064 lb ai/a		2 oz/a		A	100 a	100 a	100 a	50 a-d	2 a
14 Pursuit	0.047 lb ai/a		3 oz/a		A					
14 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
14 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
15 Valor SX	0.064 lb ai/a		2 oz/a		A	25 d	40 c	30 c	20 de	0 a
15 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
15 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
16 Pursuit	0.0625 lb ai/a		4 oz/a		A	93 a	88 ab	93 ab	51 a-d	0 a
16 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
16 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
17 Sencor 75DF	0.47 lb ai/a		10 oz/a		A	100 a	100 a	98 a	25 cde	0 a
17 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
17 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
18 Valor XLT 3oz.						100 a	100 a	98 a	63 ab	1 a
18 Valor SX	0.056 lb ai/a		1.76 oz/a		A					
18 Classic	0.0194 lb ai/a		1.24 oz/a		A					
18 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
18 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
19 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	0 e	0 d	0 d	0 e	0 a
19 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
20 Untreated						0 e	0 d	0 d	0 e	0 a
LSD (P=.05)						17.0	17.8	18.8	31.2	1.9
Standard Deviation						12.0	12.6	13.3	22.1	1.4
CV						16.11	15.38	16.12	55.09	159.77
Bartlett's X2						6.24	7.614	26.562	11.297	1.44
P(Bartlett's X2)						0.62	0.368	0.003*	0.841	1.00
Replicate F						0.654	1.324	0.423	0.393	0.452
Replicate Prob(F)						0.5836	0.2755	0.7373	0.7582	0.7168
Treatment F						30.674	25.047	23.691	2.995	1.597
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0008	0.0895

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	AMBEL
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Ambrosia artem>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Common ragweed

Crop Code	Jul-2-2012	Jul-2-2012	Jul-2-2012	Jul-2-2012
BBCH Scale	CONTRO	CONTRO	CONTRO	CONTRO
Crop Scientific Name				
Crop Name				
Rating Date				
Rating Type				
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	35 35	35 35	35 35	35 35
Trt-Eval Interval	35 DA-A	35 DA-A	35 DA-A	35 DA-A
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 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
1 MANA 14204	1.35 lb	ai/a	2 pt/a		A	55 de	48 de	18 e-h	100 a
1 Roundup PowerMax	0.77 lb	ae/a	22 oz/a		B				
1 N-PAK AMS	2.5 %	v/v	1.5 qt/a		B				
2 MANA 14204	2.02 lb	ai/a	3 pt/a		A	79 ab	79 abc	40 a-e	100 a
2 Roundup PowerMax	0.77 lb	ae/a	22 oz/a		B				
2 N-PAK AMS	2.5 %	v/v	1.5 qt/a		B				
3 PREFIX	1.32 lb	ai/a	2 pt/a		A	70 a-d	68 abc	33 b-f	100 a
3 Roundup PowerMax	0.77 lb	ae/a	22 oz/a		B				
3 N-PAK AMS	2.5 %	v/v	1.5 qt/a		B				
4 MANA 14223	1.02 lb	ai/a	20 oz/a		A	45 ef	43 e	0 h	83 a
4 Roundup PowerMax	0.77 lb	ae/a	22 oz/a		B				
4 N-PAK AMS	2.5 %	v/v	1.5 qt/a		B				
5 MANA 14223	2.44 lb	ai/a	3 pt/a		A	85 a	83 ab	5 gh	100 a
5 Roundup PowerMax	0.77 lb	ae/a	22 oz/a		B				
5 N-PAK AMS	2.5 %	v/v	1.5 qt/a		B				
6 Boundary	1.02 lb	ai/a	20 oz/a		A	73 a-d	65 bcd	0 h	93 a
6 Roundup PowerMax	0.77 lb	ae/a	22 oz/a		B				
6 N-PAK AMS	2.5 %	v/v	1.5 qt/a		B				
7 Valor SX	0.064 lb	ai/a	2 oz/a		A	28 fg	18 f	5 gh	100 a
7 Reflex	0.25 lb	ai/a	1 pt/a		A				
7 Roundup PowerMax	0.77 lb	ae/a	22 oz/a		B				
7 N-PAK AMS	2.5 %	v/v	1.5 qt/a		B				
8 MANA 25311	0.98 lb	ai/a	1.5 pt/a		A	83 a	75 abc	50 abc	99 a
8 Roundup PowerMax	0.77 lb	ae/a	22 oz/a		B				
8 N-PAK AMS	2.5 %	v/v	1.5 qt/a		B				
9 MANA 25311	1.31 lb	ai/a	2 pt/a		A	89 a	84 a	45 a-d	100 a
9 Roundup PowerMax	0.77 lb	ae/a	22 oz/a		B				
9 N-PAK AMS	2.5 %	v/v	1.5 qt/a		B				
10 Pursuit	0.047 lb	ai/a	3 oz/a		A	83 a	78 abc	30 c-g	95 a
10 Parallel PCS	0.94 lb	ai/a	0.938 pt/a		A				
10 Roundup PowerMax	0.77 lb	ae/a	22 oz/a		B				
10 N-PAK AMS	2.5 %	v/v	1.5 qt/a		B				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	AMBEL
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Ambrosia artem>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Common ragweed

Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-2-2012	Jul-2-2012	Jul-2-2012	Jul-2-2012
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	35 35	35 35	35 35	35 35
Trt-Eval Interval	35 DA-A	35 DA-A	35 DA-A	35 DA-A
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	11	12	13	14
11 MANA 25350	0.234 lb ai/a		0.75 pt/a		A	78 abc	68 abc	63 a	100 a
11 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
11 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
12 MANA 25350	0.313 lb ai/a		1 pt/a		A	85 a	80 abc	59 ab	100 a
12 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
12 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
13 Reflex	0.186 lb ai/a		11.88 oz/a		A	58 cde	48 de	33 b-f	100 a
13 Pursuit	0.047 lb ai/a		3 oz/a		A				
13 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
13 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
14 Valor SX	0.064 lb ai/a		2 oz/a		A	60 b-e	45 e	20 d-h	100 a
14 Pursuit	0.047 lb ai/a		3 oz/a		A				
14 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
14 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
15 Valor SX	0.064 lb ai/a		2 oz/a		A	0 h	0 f	0 h	50 b
15 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
15 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
16 Pursuit	0.0625 lb ai/a		4 oz/a		A	73 a-d	64 cd	56 abc	99 a
16 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
16 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
17 Sencor 75DF	0.47 lb ai/a		10 oz/a		A	10 gh	10 f	10 fgh	100 a
17 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
17 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
18 Valor XLT 3oz.						10 gh	5 f	43 a-e	100 a
18 Valor SX	0.056 lb ai/a		1.76 oz/a		A				
18 Classic	0.0194 lb ai/a		1.24 oz/a		A				
18 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
18 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
19 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	0 h	0 f	0 h	0 c
19 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
20 Untreated						0 h	0 f	0 h	0 c
LSD (P=.05)						21.1	18.4	27.5	19.3
Standard Deviation						14.9	13.0	19.4	13.6
CV						28.12	27.26	76.62	15.88
Bartlett's X2						15.045	8.931	15.011	28.937
P(Bartlett's X2)						0.521	0.916	0.377	0.001*
Replicate F						2.109	5.022	3.892	1.155
Replicate Prob(F)						0.1094	0.0037	0.0134	0.3350
Treatment F						19.246	22.955	5.259	21.405
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	IPOHE	SIDSP
Pest Scientific Name	Chenopodium al-	Amaranthus ret-	Abutilon theop>	Ipomoea heder>	Sida spinosa
Pest Name	Common lambsqu>	Redroot pigweed	velvetleaf	Ivyleaf mornin>	Prickly sida
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-2-2012	Jul-2-2012	Jul-2-2012	Jul-2-2012	Jul-2-2012
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	35 35	35 35	35 35	35 35	35 35
Trt-Eval Interval	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Rate	Other Other	Appl	
No. Name	Rate	Unit	Rate Rate	Unit Code	15
					16
					17
					18
					19
1 MANA 14204	1.35 lb ai/a	2 pt/a		A	45 ef
1 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
1 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
2 MANA 14204	2.02 lb ai/a	3 pt/a		A	70 cd
2 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
2 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
3 PREFIX	1.32 lb ai/a	2 pt/a		A	71 cd
3 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
3 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
4 MANA 14223	1.02 lb ai/a	20 oz/a		A	58 de
4 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
4 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
5 MANA 14223	2.44 lb ai/a	3 pt/a		A	90 abc
5 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
5 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
6 Boundary	1.02 lb ai/a	20 oz/a		A	63 de
6 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
6 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
7 Valor SX	0.064 lb ai/a	2 oz/a		A	75 bcd
7 Reflex	0.25 lb ai/a	1 pt/a		A	
7 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
7 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
8 MANA 25311	0.98 lb ai/a	1.5 pt/a		A	100 a
8 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
8 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
9 MANA 25311	1.31 lb ai/a	2 pt/a		A	95 ab
9 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
9 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	
10 Pursuit	0.047 lb ai/a	3 oz/a		A	100 a
10 Parallel PCS	0.94 lb ai/a	0.938 pt/a		A	
10 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B	
10 N-PAK AMS	2.5 % v/v	1.5 qt/a		B	

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	CHEAL	AMARE	ABUTH	IPOHE	SIDSP					
Pest Scientific Name	Chenopodium al-	Amaranthus ret-	Abutilon theop-	Ipomoea heder-	Sida spinosa					
Pest Name	Common lambsqu-	Redroot pigweed	velvetleaf	lvyleaf mornin-	Prickly sida					
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	Jul-2-2012	Jul-2-2012	Jul-2-2012	Jul-2-2012	Jul-2-2012					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Days After First/Last Applic.	35 35	35 35	35 35	35 35	35 35					
Trt-Eval Interval	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A					
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1					
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1					
Number of Decimals	0	0	0	0	0					
Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	15	16	17	18	19
11 MANA 25350	0.234 lb ai/a		0.75 pt/a		A	97 ab	100 a	100 a	68 ab	100 a
11 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
11 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
12 MANA 25350	0.313 lb ai/a		1 pt/a		A	95 ab	100 a	100 a	44 a-e	98 ab
12 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
12 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
13 Reflex	0.186 lb ai/a		11.88 oz/a		A	80 a-d	100 a	100 a	30 b-f	88 ab
13 Pursuit	0.047 lb ai/a		3 oz/a		A					
13 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
13 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
14 Valor SX	0.064 lb ai/a		2 oz/a		A	100 a	95 ab	100 a	25 def	100 a
14 Pursuit	0.047 lb ai/a		3 oz/a		A					
14 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
14 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
15 Valor SX	0.064 lb ai/a		2 oz/a		A	33 f	25 e	8 e	13 ef	30 e
15 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
15 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
16 Pursuit	0.0625 lb ai/a		4 oz/a		A	100 a	79 bc	100 a	67 abc	100 a
16 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
16 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
17 Sencor 75DF	0.47 lb ai/a		10 oz/a		A	79 a-d	75 c	98 a	8 ef	100 a
17 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
17 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
18 Valor XLT 3oz.						98 ab	100 a	98 a	68 ab	100 a
18 Valor SX	0.056 lb ai/a		1.76 oz/a		A					
18 Classic	0.0194 lb ai/a		1.24 oz/a		A					
18 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
18 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
19 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	0 g	0 f	0 e	0 f	0 f
19 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
20 Untreated						0 g	0 f	0 e	0 f	0 f
LSD (P=.05)						23.6	17.1	16.6	40.0	26.0
Standard Deviation						16.7	12.1	11.7	28.3	18.4
CV						23.08	16.31	17.25	85.49	24.61
Bartlett's X2						37.149	16.651	18.984	10.041	25.924
P(Bartlett's X2)						0.001*	0.216	0.025*	0.902	0.004*
Replicate F						1.023	5.114	1.313	1.049	0.596
Replicate Prob(F)						0.3894	0.0033	0.2793	0.3782	0.6204
Treatment F						14.243	28.439	42.214	2.878	13.231
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0012	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	ECHCG	AMBTR	AMBEL					
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Ambrosia artem>					
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Common ragweed					
Crop Code	GLXMA								
BBCH Scale	BSOY								
Crop Scientific Name	Glycine max								
Crop Name	Soybean								
Rating Date	Jul-12-2012	Jul-12-2012	Jul-12-2012	Jul-12-2012					
Rating Type	PHYTO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1					
Days After First/Last Applic.	45 45	45 45	45 45	45 45					
Trt-Eval Interval	45 DA-A	45 DA-A	45 DA-A	45 DA-A					
Plant-Eval Interval	45 DP-1	45 DP-1	45 DP-1	45 DP-1					
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1					
Number of Decimals	0	0	0	0					
Trt Treatment	Rate	Rate	Other Other	Appl	20	21	22	23	24
No. Name	Unit	Unit	Rate	Unit Code					
1 MANA 14204	1.35 lb ai/a	2 pt/a		A	0 c	30 ef	35 de	13 cde	100 a
1 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B					
1 N-PAK AMS	2.5 % v/v	1.5 qt/a		B					
2 MANA 14204	2.02 lb ai/a	3 pt/a		A	0 c	61 abc	59 bc	25 b-e	100 a
2 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B					
2 N-PAK AMS	2.5 % v/v	1.5 qt/a		B					
3 PREFIX	1.32 lb ai/a	2 pt/a		A	0 c	58 bcd	58 bc	28 b-e	100 a
3 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B					
3 N-PAK AMS	2.5 % v/v	1.5 qt/a		B					
4 MANA 14223	1.02 lb ai/a	20 oz/a		A	0 c	38 de	28 ef	0 e	68 b
4 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B					
4 N-PAK AMS	2.5 % v/v	1.5 qt/a		B					
5 MANA 14223	2.44 lb ai/a	3 pt/a		A	0 c	74 ab	74 ab	5 de	100 a
5 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B					
5 N-PAK AMS	2.5 % v/v	1.5 qt/a		B					
6 Boundary	1.02 lb ai/a	20 oz/a		A	0 c	58 bcd	50 cd	0 e	88 a
6 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B					
6 N-PAK AMS	2.5 % v/v	1.5 qt/a		B					
7 Valor SX	0.064 lb ai/a	2 oz/a		A	0 c	10 fg	10 fg	5 de	100 a
7 Reflex	0.25 lb ai/a	1 pt/a		A					
7 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B					
7 N-PAK AMS	2.5 % v/v	1.5 qt/a		B					
8 MANA 25311	0.98 lb ai/a	1.5 pt/a		A	1 ab	74 ab	74 ab	40 abc	100 a
8 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B					
8 N-PAK AMS	2.5 % v/v	1.5 qt/a		B					
9 MANA 25311	1.31 lb ai/a	2 pt/a		A	1 ab	83 a	83 a	40 abc	100 a
9 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B					
9 N-PAK AMS	2.5 % v/v	1.5 qt/a		B					
10 Pursuit	0.047 lb ai/a	3 oz/a		A	1 bc	76 ab	76 ab	20 b-e	88 a
10 Parallel PCS	0.94 lb ai/a	0.938 pt/a		A					
10 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B					
10 N-PAK AMS	2.5 % v/v	1.5 qt/a		B					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	AMBEL
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Ambrosia artem>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Common ragweed

Crop Code	GLXMA				
BBCH Scale	BSOY				
Crop Scientific Name	Glycine max				
Crop Name	Soybean				
Rating Date	Jul-12-2012	Jul-12-2012	Jul-12-2012	Jul-12-2012	Jul-12-2012
Rating Type	PHYTO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	45 45	45 45	45 45	45 45	45 45
Trt-Eval Interval	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A
Plant-Eval Interval	45 DP-1	45 DP-1	45 DP-1	45 DP-1	45 DP-1
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	20	21	22	23	24
11	MANA 25350	0.234 lb ai/a		0.75 pt/a		A	1 ab	71 ab	71 ab	68 a	100 a
11	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
11	N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
12	MANA 25350	0.313 lb ai/a		1 pt/a		A	1 ab	76 ab	76 ab	48 ab	100 a
12	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
12	N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
13	Reflex	0.186 lb ai/a		11.88 oz/a		A	0 c	38 de	30 e	30 bcd	100 a
13	Pursuit	0.047 lb ai/a		3 oz/a		A					
13	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
13	N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
14	Valor SX	0.064 lb ai/a		2 oz/a		A	1 abc	41 cde	41 cde	10 de	100 a
14	Pursuit	0.047 lb ai/a		3 oz/a		A					
14	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
14	N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
15	Valor SX	0.064 lb ai/a		2 oz/a		A	0 c	0 g	0 g	0 e	34 c
15	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
15	N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
16	Pursuit	0.0625 lb ai/a		4 oz/a		A	2 a	75 ab	75 ab	48 ab	100 a
16	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
16	N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
17	Sencor 75DF	0.47 lb ai/a		10 oz/a		A	0 c	5 g	5 g	20 b-e	100 a
17	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
17	N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
18	Valor XLT 3oz.						0 c	3 g	3 g	28 b-e	100 a
18	Valor SX	0.056 lb ai/a		1.76 oz/a		A					
18	Classic	0.0194 lb ai/a		1.24 oz/a		A					
18	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
18	N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
19	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	0 c	0 g	0 g	0 e	0 d
19	N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
20	Untreated						0 c	0 g	0 g	0 e	0 d
LSD (P=.05)							1.0	22.4	19.9	28.2	19.5
Standard Deviation							0.7	15.9	14.0	20.0	13.8
CV							196.64	36.59	33.25	93.9	16.45
Bartlett's X2							1.021	31.162	30.351	13.596	5.173
P(Bartlett's X2)							0.985	0.013*	0.016*	0.48	0.16
Replicate F							3.167	2.048	4.233	1.553	0.412
Replicate Prob(F)							0.0312	0.1173	0.0090	0.2108	0.7449
Treatment F							2.300	15.135	19.305	3.903	22.664
Treatment Prob(F)							0.0081	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	IPOHE	SIDSP
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Abutilon theop>	Ipomoea heder>	Sida spinosa
Pest Name	Common lambsqu>	Redroot pigweed	velvetleaf	Ivyleaf mornin>	Prickly sida

Crop Code	Jul-12-2012	Jul-12-2012	Jul-12-2012	Jul-12-2012	Jul-12-2012
BBCH Scale	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Crop Scientific Name	%	%	%	%	%
Crop Name	1	1	1	1	1
Rating Date	45 45	45 45	45 45	45 45	45 45
Rating Type	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A
Rating Unit	45 DP-1	45 DP-1	45 DP-1	45 DP-1	45 DP-1
Number of Subsamples	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1
Days After First/Last Applic.	0	0	0	0	0
Trt-Eval Interval					
Plant-Eval Interval					
Days After Emergence					
Number of Decimals					

Trt Treatment	Rate	Rate	Other	Other	Appl	25	26	27	28	29
No. Name	Unit	Unit	Rate	Rate	Unit Code					
1 MANA 14204	1.35 lb ai/a		2 pt/a		A	38 fg	55 d	0 d	0 c	20 ef
1 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
1 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
2 MANA 14204	2.02 lb ai/a		3 pt/a		A	50 def	90 abc	18 c	0 c	60 cd
2 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
2 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
3 PREFIX	1.32 lb ai/a		2 pt/a		A	55 def	73 cd	18 c	38 abc	80 abc
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
3 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
4 MANA 14223	1.02 lb ai/a		20 oz/a		A	48 efg	30 e	18 c	50 abc	68 bcd
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
4 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
5 MANA 14223	2.44 lb ai/a		3 pt/a		A	88 abc	93 abc	100 a	18 bc	85 abc
5 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
5 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
6 Boundary	1.02 lb ai/a		20 oz/a		A	65 cde	78 a-d	38 b	30 abc	83 abc
6 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
6 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
7 Valor SX	0.064 lb ai/a		2 oz/a		A	73 bcd	75 bcd	40 b	0 c	95 ab
7 Reflex	0.25 lb ai/a		1 pt/a		A					
7 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
7 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
8 MANA 25311	0.98 lb ai/a		1.5 pt/a		A	100 a	90 abc	100 a	58 ab	100 a
8 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
8 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
9 MANA 25311	1.31 lb ai/a		2 pt/a		A	93 ab	100 a	100 a	68 ab	100 a
9 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
9 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
10 Pursuit	0.047 lb ai/a		3 oz/a		A	100 a	93 abc	100 a	45 abc	100 a
10 Parallel PCS	0.94 lb ai/a	0.938 pt/a			A					
10 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
10 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	CHEAL	AMARE	ABUTH	IPOHE	SIDSP					
Pest Scientific Name	Chenopodium al-	Amaranthus ret-	Abutilon theop-	Ipomoea heder-	Sida spinosa					
Pest Name	Common lambsqu-	Redroot pigweed	velvetleaf	lvyleaf mornin-	Prickly sida					
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	Jul-12-2012	Jul-12-2012	Jul-12-2012	Jul-12-2012	Jul-12-2012					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Days After First/Last Applic.	45 45	45 45	45 45	45 45	45 45					
Trt-Eval Interval	45 DA-A	45 DA-A	45 DA-A	45 DA-A	45 DA-A					
Plant-Eval Interval	45 DP-1	45 DP-1	45 DP-1	45 DP-1	45 DP-1					
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1					
Number of Decimals	0	0	0	0	0					
Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	25	26	27	28	29
11 MANA 25350	0.234 lb ai/a		0.75 pt/a		A	83 abc	100 a	100 a	50 abc	100 a
11 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
11 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
12 MANA 25350	0.313 lb ai/a		1 pt/a		A	95 ab	100 a	100 a	63 ab	94 ab
12 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
12 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
13 Reflex	0.186 lb ai/a		11.88 oz/a		A	93 ab	98 ab	100 a	25 bc	100 a
13 Pursuit	0.047 lb ai/a		3 oz/a		A					
13 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
13 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
14 Valor SX	0.064 lb ai/a		2 oz/a		A	100 a	100 a	100 a	63 ab	100 a
14 Pursuit	0.047 lb ai/a		3 oz/a		A					
14 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
14 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
15 Valor SX	0.064 lb ai/a		2 oz/a		A	25 gh	25 e	13 cd	5 c	36 de
15 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
15 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
16 Pursuit	0.0625 lb ai/a		4 oz/a		A	100 a	78 a-d	100 a	68 ab	95 ab
16 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
16 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
17 Sencor 75DF	0.47 lb ai/a		10 oz/a		A	95 ab	85 abc	100 a	25 bc	75 abc
17 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
17 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
18 Valor XLT 3oz.						94 ab	100 a	100 a	79 a	100 a
18 Valor SX	0.056 lb ai/a		1.76 oz/a		A					
18 Classic	0.0194 lb ai/a		1.24 oz/a		A					
18 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
18 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
19 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	13 hi	18 ef	15 cd	0 c	0 f
19 N-PAK AMS	2.5 % v/v		1.5 qt/a		B					
20 Untreated						0 i	0 f	0 d	5 c	0 f
LSD (P=.05)						23.7	23.7	15.3	51.8	31.9
Standard Deviation						16.8	16.8	10.8	36.6	22.5
CV						23.9	22.7	17.21	106.74	30.26
Bartlett's X2						10.576	13.532	3.699	4.042	21.702
P(Bartlett's X2)						0.719	0.408	0.717	0.991	0.017*
Replicate F						1.567	5.326	1.720	1.592	3.164
Replicate Prob(F)						0.2073	0.0026	0.1732	0.2025	0.0316
Treatment F						14.463	13.955	63.390	2.157	9.041
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0148	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	AMBEL
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Ambrosia artem>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Common ragweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Aug-9-2012	Aug-9-2012	Aug-9-2012	Aug-9-2012
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	73 28	73 28	73 28	73 28
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	73 DP-1	73 DP-1	73 DP-1	73 DP-1
Days After Emergence	59 DE-1	59 DE-1	59 DE-1	59 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate	Other	Other	Appl	30	31	32	33
No. Name	Unit	Unit	Rate	Rate	Unit Code				
1 MANA 14204	1.35 lb ai/a		2 pt/a		A	100 a	100 a	100 a	100 a
1 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
1 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
2 MANA 14204	2.02 lb ai/a		3 pt/a		A	100 a	100 a	99 a	100 a
2 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
2 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
3 PREFIX	1.32 lb ai/a		2 pt/a		A	100 a	100 a	100 a	100 a
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
3 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
4 MANA 14223	1.02 lb ai/a		20 oz/a		A	100 a	100 a	96 a	100 a
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
4 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
5 MANA 14223	2.44 lb ai/a		3 pt/a		A	100 a	100 a	98 a	100 a
5 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
5 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
6 Boundary	1.02 lb ai/a		20 oz/a		A	100 a	100 a	95 a	100 a
6 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
6 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
7 Valor SX	0.064 lb ai/a		2 oz/a		A	100 a	100 a	91 a	100 a
7 Reflex	0.25 lb ai/a		1 pt/a		A				
7 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
7 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
8 MANA 25311	0.98 lb ai/a		1.5 pt/a		A	100 a	100 a	100 a	100 a
8 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
8 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
9 MANA 25311	1.31 lb ai/a		2 pt/a		A	100 a	100 a	99 a	100 a
9 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
9 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
10 Pursuit	0.047 lb ai/a		3 oz/a		A	100 a	100 a	99 a	100 a
10 Parallel PCS	0.94 lb ai/a	0.938	pt/a		A				
10 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
10 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				

Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	ECHCG	AMBTR	AMBEL					
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Ambrosia artem>					
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Common ragweed					
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Aug-9-2012	Aug-9-2012	Aug-9-2012	Aug-9-2012					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1					
Days After First/Last Applic.	73 28	73 28	73 28	73 28					
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B					
Plant-Eval Interval	73 DP-1	73 DP-1	73 DP-1	73 DP-1					
Days After Emergence	59 DE-1	59 DE-1	59 DE-1	59 DE-1					
Number of Decimals	0	0	0	0					
Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	30	31	32	33
11 MANA 25350	0.234 lb ai/a		0.75 pt/a		A	100 a	100 a	100 a	100 a
11 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
11 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
12 MANA 25350	0.313 lb ai/a		1 pt/a		A	100 a	100 a	100 a	100 a
12 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
12 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
13 Reflex	0.186 lb ai/a		11.88 oz/a		A	100 a	100 a	96 a	100 a
13 Pursuit	0.047 lb ai/a		3 oz/a		A				
13 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
13 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
14 Valor SX	0.064 lb ai/a		2 oz/a		A	100 a	100 a	94 a	100 a
14 Pursuit	0.047 lb ai/a		3 oz/a		A				
14 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
14 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
15 Valor SX	0.064 lb ai/a		2 oz/a		A	100 a	100 a	88 a	100 a
15 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
15 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
16 Pursuit	0.0625 lb ai/a		4 oz/a		A	100 a	100 a	96 a	100 a
16 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
16 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
17 Sencor 75DF	0.47 lb ai/a		10 oz/a		A	100 a	100 a	88 a	100 a
17 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
17 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
18 Valor XLT 3oz.						100 a	100 a	98 a	100 a
18 Valor SX	0.056 lb ai/a		1.76 oz/a		A				
18 Classic	0.0194 lb ai/a		1.24 oz/a		A				
18 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
18 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
19 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	100 a	100 a	93 a	100 a
19 N-PAK AMS	2.5 % v/v		1.5 qt/a		B				
20 Untreated						100 a	100 a	85 a	100 a
LSD (P=.05)						0.0	0.0	11.3	0.0
Standard Deviation						0.0	0.0	8.0	0.0
CV						0.0	0.0	8.33	0.0
Bartlett's X2						0.0	0.0	34.271	0.0
P(Bartlett's X2)						.	.	0.002*	.
Replicate F						0.000	0.000	0.585	0.000
Replicate Prob(F)						1.0000	1.0000	0.6274	1.0000
Treatment F						0.000	0.000	1.365	0.000
Treatment Prob(F)						1.0000	1.0000	0.1823	1.0000

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Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Abutilon theop>
Pest Name	Common lambsqu>	Redroot pigweed	velvetleaf
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	Aug-9-2012	Aug-9-2012	Aug-9-2012
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	73 28	73 28	73 28
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	73 DP-1	73 DP-1	73 DP-1
Days After Emergence	59 DE-1	59 DE-1	59 DE-1
Number of Decimals	0	0	0

Trt	Treatment	Rate	Unit	Other	Other	Appl			
No.	Name	Rate	Unit	Rate	Rate	Unit Code	34	35	36
1	MANA 14204	1.35 lb ai/a		2 pt/a		A	100 a	100 a	96 a
1	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
1	N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
2	MANA 14204	2.02 lb ai/a		3 pt/a		A	100 a	100 a	99 a
2	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
2	N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
3	PREFIX	1.32 lb ai/a		2 pt/a		A	100 a	100 a	100 a
3	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
3	N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
4	MANA 14223	1.02 lb ai/a		20 oz/a		A	100 a	100 a	98 a
4	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
4	N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
5	MANA 14223	2.44 lb ai/a		3 pt/a		A	100 a	100 a	100 a
5	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
5	N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
6	Boundary	1.02 lb ai/a		20 oz/a		A	100 a	100 a	100 a
6	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
6	N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
7	Valor SX	0.064 lb ai/a		2 oz/a		A	100 a	100 a	99 a
7	Reflex	0.25 lb ai/a		1 pt/a		A			
7	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
7	N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
8	MANA 25311	0.98 lb ai/a		1.5 pt/a		A	100 a	100 a	100 a
8	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
8	N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
9	MANA 25311	1.31 lb ai/a		2 pt/a		A	100 a	100 a	100 a
9	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
9	N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
10	Pursuit	0.047 lb ai/a		3 oz/a		A	100 a	100 a	100 a
10	Parallel PCS	0.94 lb ai/a		0.938 pt/a		A			
10	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
10	N-PAK AMS	2.5 % v/v		1.5 qt/a		B			

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Pest Type	W Weed	W Weed	W Weed					
Pest Code	CHEAL	AMARE	ABUTH					
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Abutilon theop>					
Pest Name	Common lambsqu>	Redroot pigweed	velvetleaf					
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Aug-9-2012	Aug-9-2012	Aug-9-2012					
Rating Type	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%					
Number of Subsamples	1	1	1					
Days After First/Last Applic.	73 28	73 28	73 28					
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B					
Plant-Eval Interval	73 DP-1	73 DP-1	73 DP-1					
Days After Emergence	59 DE-1	59 DE-1	59 DE-1					
Number of Decimals	0	0	0					
Trt Treatment	Rate	Rate	Other	Other	Appl	34	35	36
No. Name	Rate	Unit	Rate	Rate	Unit Code			
11 MANA 25350	0.234 lb ai/a		0.75 pt/a		A	100 a	100 a	100 a
11 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
11 N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
12 MANA 25350	0.313 lb ai/a		1 pt/a		A	100 a	100 a	100 a
12 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
12 N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
13 Reflex	0.186 lb ai/a		11.88 oz/a		A	100 a	100 a	100 a
13 Pursuit	0.047 lb ai/a		3 oz/a		A			
13 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
13 N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
14 Valor SX	0.064 lb ai/a		2 oz/a		A	100 a	100 a	100 a
14 Pursuit	0.047 lb ai/a		3 oz/a		A			
14 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
14 N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
15 Valor SX	0.064 lb ai/a		2 oz/a		A	100 a	100 a	100 a
15 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
15 N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
16 Pursuit	0.0625 lb ai/a		4 oz/a		A	100 a	100 a	100 a
16 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
16 N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
17 Sencor 75DF	0.47 lb ai/a		10 oz/a		A	100 a	100 a	100 a
17 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
17 N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
18 Valor XLT 3oz.						100 a	100 a	100 a
18 Valor SX	0.056 lb ai/a		1.76 oz/a		A			
18 Classic	0.0194 lb ai/a		1.24 oz/a		A			
18 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B			
18 N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
19 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	100 a	100 a	100 a
19 N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
20 Untreated						100 a	100 a	100 a
LSD (P=.05)						0.0	0.0	2.7
Standard Deviation						0.0	0.0	1.9
CV						0.0	0.0	1.93
Bartlett's X2						0.0	0.0	5.934
P(Bartlett's X2)						.	.	0.115
Replicate F						0.000	0.000	1.892
Replicate Prob(F)						1.0000	1.0000	0.1413
Treatment F						0.000	0.000	1.119
Treatment Prob(F)						1.0000	1.0000	0.3583