

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

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: Gerarld Wiley

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	37	38	39
1	MANA 14204	1.35 lb ai/a		2 pt/a		A	17.4 a	13.2 a	50.6 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	15.8 a	13.4 a	45.6 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	18.7 a	13.1 a	54.3 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	14.0 a	13.3 a	40.6 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	18.8 a	12.8 a	54.7 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	14.7 a	13.4 a	42.6 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	15.5 a	13.3 a	44.9 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	17.8 a	13.2 a	51.5 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	18.2 a	13.0 a	52.8 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	17.8 a	12.9 a	51.9 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									
Pest Code									
Pest Scientific Name									
Pest Name									
Crop Code		GLXMA	GLXMA	GLXMA					
BBCH Scale		BSOY	BSOY	BSOY					
Crop Scientific Name		Glycine max	Glycine max	Glycine max					
Crop Name		Soybean	Soybean	Soybean					
Rating Date		Oct-17-201	Oct-17-201	Oct-17-201					
Rating Type		2	2	2					
Rating Unit		YIELD	MOICON	YIELD					
Sample Size, Unit		LBS	%	BU					
Number of Subsamples		1	1	1					
Days After First/Last Applic.		1	1	1					
Trt-Eval Interval		142	97	142	97	142	97		
Plant-Eval Interval		HARVEST	HARVEST	HARVEST					
Days After Emergence		142 DP-1	142 DP-1	142 DP-1					
ARM Action Codes		128 DE-1	128 DE-1	128 DE-1					
Number of Decimals								TY1	
		1	1	1				1	
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	37	38	39
11	MANA 25350	0.234 lb ai/a		0.75 pt/a		A	16.9 a	13.4 a	49.0 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	17.7 a	12.7 a	51.7 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	16.9 a	13.3 a	48.9 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	16.9 a	13.3 a	49.2 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	15.6 a	12.9 a	45.5 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	18.4 a	12.9 a	53.7 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	16.3 a	12.6 a	47.4 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.						18.7 a	12.5 a	54.5 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	13.8 a	12.6 a	40.3 a
	19 N-PAK AMS	2.5 % v/v		1.5 qt/a		B			
20	Untreated						12.2 a	12.8 a	35.4 a
LSD (P=.05)							4.78	1.01	14.13
Standard Deviation							3.38	0.72	9.99
CV							20.36	5.49	20.7

Crop Code
GLXMA, BSOY, Glycine max, = US

Rating Type
YIELD = yield
MOICON = moisture content

Rating Unit
% = percent
BU = bushel