



# The Ohio State University

## Cadet, Marvel Round up early post trial

Trial ID: 13 SOYYLD2  
Protocol ID: 13 SOYYLD2  
Project ID: FLUT.SOY.13.JPR

Location: Western Branch Trial Year: 2013  
Investigator: Dr. Mark M. Loux  
Study Director: Bryan Reeb  
Sponsor Contact: Joe Reed, FMC

### Pest Stage At Each Application

**A**

**Pest 1 Code, Type, Scale:** SOLCA W  
**Stage Majority, Percent:** 14 100  
**Height, Unit:** 4 IN  
**Height Minimum, Maximum:** 4 4

**Pest 2 Code, Type, Scale:** AMARE W  
**Stage Majority, Percent:** 14 100  
**Height, Unit:** 1 IN  
**Height Minimum, Maximum:** 0.5 1  
**Density, Unit:** 88 M2

**Pest 3 Code, Type, Scale:** AMBTR W  
**Stage Majority, Percent:** 14 100  
**Height, Unit:** 2 IN  
**Height Minimum, Maximum:** 2 4  
**Density, Unit:** 8 M2

**Pest 4 Code, Type, Scale:** ABUTH W  
**Stage Majority, Percent:** 14 100  
**Height, Unit:** 1 IN  
**Height Minimum, Maximum:** 1 2  
**Density, Unit:** 4 M2

**Pest 5 Code, Type, Scale:** CHEAL W  
**Stage Majority, Percent:** 14 100  
**Height, Unit:** 1 IN  
**Height Minimum, Maximum:** 1 1  
**Density, Unit:** 36 M2

**Pest 6 Code, Type, Scale:** SETFA W  
**Stage Majority, Percent:** 13 100  
**Height, Unit:** 3 IN  
**Height Minimum, Maximum:** 3 4  
**Density, Unit:** 244 M2

### Application Equipment

**A**

**Appl. Equipment:** Backpack  
**Equipment Type:** SPRBAC  
**Operation Pressure, Unit:** 48 PSI  
**Nozzle Type:** AIXR  
**Nozzle Size:** 110015  
**Nozzle Spacing, Unit:** 18 IN  
**Boom Length, Unit:** 6 FT  
**Boom Height, Unit:** 18 IN  
**Ground Speed, Unit:** 3 MPH  
**Carrier:** WATER  
**Spray Volume, Unit:** 15 gal/ac  
**Mix Size, Unit:** 1 Liters  
**Propellant:** COMCO2

Date	By	Notes
Jul-2-2013		maintenance spray of 32oz Weathermax + AMS @ 10 GPA

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Pest Code											
Crop Code											
Rating Date											
Rating Type											
Rating Unit											
Days After First/Last Applic.											
Trt-Eval Interval											
Plant-Eval Interval											
Days After Emergence											
Trt Treatment	Other	Other	Growth	Appl							
No. Name	Rate	Rate	Unit	Stage	Code	1	2	3	4	5	6
1 Roundup Power Max	16 oz/a			1-3"wds	A	7	88	92	66	95	65
1 N-pak ams	2.25 qt/a			1-3"wds	A						
2 Cadet	0.6 oz/a			1-3"wds	A	21	90	87	94	88	61
2 Roundup Power Max	16 oz/a			1-3"wds	A						
2 N-pak ams	2.25 qt/a			1-3"wds	A						
3 Cadet	0.9 oz/a			1-3"wds	A	26	90	84	99	95	49
3 Roundup Power Max	16 oz/a			1-3"wds	A						
3 N-pak ams	2.25 qt/a			1-3"wds	A						
4 Cadet	0.6 oz/a			1-3"wds	A	16	81	85	98	89	58
4 Roundup Power Max	22 oz/a			1-3"wds	A						
4 N-pak ams	2.25 qt/a			1-3"wds	A						
5 Cadet	0.9 oz/a			1-3"wds	A	26	84	88	99	93	59
5 Roundup Power Max	22 oz/a			1-3"wds	A						
5 N-pak ams	2.25 qt/a			1-3"wds	A						
6 Cadet	0.9 oz/a			1-3"wds	A	35	90	83	99	96	61
6 Flexstar	11 oz/a			1-3"wds	A						
6 Roundup Power Max	22 oz/a			1-3"wds	A						
6 N-pak ams	2.25 qt/a			1-3"wds	A						
7 Ultra Blazer	16 oz/a			1-3"wds	A	26	90	93	100	93	59
7 Roundup Power Max	22 oz/a			1-3"wds	A						
7 N-pak ams	2.25 qt/a			1-3"wds	A						
8 Ultra Blazer	16 oz/a			1-3"wds	A	30	86	74	92	76	51
8 Select Max	8 oz/a			1-3"wds	A						
8 COC	0.6 qt/a			1-3"wds	A						
9 Basagran	12 oz/a			1-3"wds	A	3	69	65	33	0	64
9 Select Max	8 oz/a			1-3"wds	A						
9 COC	0.6 qt/a			1-3"wds	A						

t=Mean descriptions are reported in transformed data units, and are not de-transformed.  
 Missing data estimates are included in columns: Yates=14

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Pest Code			GLXMA	AMBTR	SETFA	CHEAL	AMARE	SETFA		
Crop Code			GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Rating Date			Jun-11-2013	Jun-11-2013	Jun-11-2013	Jun-11-2013	Jun-11-2013	Jun-19-2013		
Rating Type			PHYNEC	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit			%	%	%	%	%	%		
Days After First/Last Applic.			7 7	7 7	7 7	7 7	7 7	15 15		
Trt-Eval Interval			7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	15 DA-B		
Plant-Eval Interval			27 DP-1	27 DP-1	27 DP-1	27 DP-1	27 DP-1	35 DP-1		
Days After Emergence			19 DE-1	19 DE-1	19 DE-1	19 DE-1	19 DE-1	27 DE-1		
Trt Treatment No. Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
10 Cadet	0.9 oz/a		1-3"wds A		33	76	70	94	90	60
10 Basagran	12 oz/a		1-3"wds A							
10 Select Max	8 oz/a		1-3"wds A							
10 COC	0.6 qt/a		1-3"wds A							
LSD (P=.05)					7.8	15.6	9.5t	15.1t	13.7t	14.1
Standard Deviation					5.4	10.7	6.5t	10.4t	9.5t	9.7
CV					24.0	12.72	9.94	14.16	14.46	16.53
Bartlett's X2					16.724	2.285	7.179	3.103	10.1	6.244
P(Bartlett's X2)					0.053	0.971	0.618	0.96	0.258	0.62
Skewness					-0.2548	-0.6199	-0.4054	-1.2159*	-1.9356*	0.2576
Kurtosis					-0.8864	-0.6471	-0.6309	1.1746	3.2579*	0.418
Replicate F					5.767	0.660	2.777	3.247	2.774	1.321
Replicate Prob(F)					0.0035	0.5837	0.0604	0.0373	0.0606	0.2882
Treatment F					15.989	1.758	4.540	10.049	24.717	1.116
Treatment Prob(F)					0.0001	0.1239	0.0010	0.0001	0.0001	0.3850



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Pest Code	AMBTR	AMARE	CHEAL	SIDSP	SETFA	AMBTR	CHEAL				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
Rating Date	Jun-19-2013	Jun-19-2013	Jun-19-2013	Jun-19-2013	Jul-1-2013	Jul-1-2013	Jul-1-2013				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%	%				
Days After First/Last Applic.	15 15	15 15	15 15	15 15	27 27	27 27	27 27				
Trt-Eval Interval	15 DA-B	15 DA-B	15 DA-B	15 DA-B	27 DA-A	27 DA-A	27 DA-A				
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	47 DP-1	47 DP-1	47 DP-1				
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	39 DE-1	39 DE-1	39 DE-1				
Trt Treatment No. Name	Other Rate	Other Rate Unit	Growth Stage	Appl Code	7	8	9	10	11	12	13
10 Cadet	0.9 oz/a		1-3"wds A		55	58	61	78	43	15	28
10 Basagran	12 oz/a		1-3"wds A								
10 Select Max	8 oz/a		1-3"wds A								
10 COC	0.6 qt/a		1-3"wds A								
LSD (P=.05)					18.8	14.6t	18.8	17.4t	16.0	23.9	22.9
Standard Deviation					12.9	10.1t	13.0	12.0t	11.0	16.5	15.8
CV					17.41	18.98	17.53	18.72	21.08	30.46	36.81
Bartlett's X2					13.849	13.779	6.357	19.569	7.515	8.822	12.112
P(Bartlett's X2)					0.128	0.088	0.704	0.021*	0.584	0.454	0.207
Skewness					-1.1061*	-1.1819*	-1.4672*	-0.9888*	0.2505	-0.148	0.5222
Kurtosis					0.3086	0.8243	2.4595*	0.8992	0.1251	-1.4027	-0.474
Replicate F					1.628	2.681	3.514	0.827	2.164	4.098	0.625
Replicate Prob(F)					0.2060	0.0668	0.0285	0.4904	0.1155	0.0161	0.6053
Treatment F					11.036	18.521	5.633	4.960	1.452	8.548	3.300
Treatment Prob(F)					0.0001	0.0001	0.0002	0.0006	0.2160	0.0001	0.0077







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### Pest Code

AMBTR, Ambrosia trifida, = US  
SETFA, Setaria faberi, = US  
CHEAL, Chenopodium album, = US  
AMARE, Amaranthus retroflexus, = US  
SIDSP, Sida spinosa, = US

### Crop Code

GLXMA, BSOY, Glycine max, = US

### Rating Type

PHYNEC = phytotoxicity - necrosis /burn  
CONTRO = control / burndown or knockdown

### Rating Unit

% = percent

### Plant-Eval Interval

27 DP-1 = 1 GLXMA May-15-2013  
35 DP-1 = 1 GLXMA May-15-2013  
47 DP-1 = 1 GLXMA May-15-2013