

MSU Weed Science Research Program

Evaluation of Afforia for weed control in no-till soybean

Trial ID: NTS01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-18 Investigator: Christy Sprague

Date Planted: May/22/2014 **Row Spacing:** 30 IN
Variety: Asgrow 2433 **No. of Reps:** 4
Population: 150,000 seeds/A **% OM:** 4.2
Soil Type: Loam **pH:** 6.1
Plot Size: 10 x 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: No-till
Fertilizer: None

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	mainly foxtail species	SETARIA SP.
2.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.)
3.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B	C
Application Timing:	7 EPP	1 EPP	POST
Date Treated:	May/05/2014	May/21/2014	Jun/27/2014
Time Treated:	11:18 AM	6:50 PM	2:40 PM
% Cloud Cover:	100	10	50
Air Temp., Unit:	45 F	89 F	82 F
% Relative Humidity:	70	80	52
Wind Speed/Unit/Dir:	2 mph NE	5 mph W	4 mph S
Soil Temp., Unit:	40 F	70 F	70 F
Soil/Leaf Surface M:	4 3	4 3	4 5
Soil Moist (1=w 5=d):	4	4	3

Crop Stage at Each Application

	A	B	C
Crop Name:	GLXMA	GLXMA	GLXMA
Height (In.):	-	-	10"
Stage (L):	-	-	V3

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height (In.):	-	-	4-14"
Stage (L):	-	-	4-16
Weed 2 Name:	STEME	STEME	STEME
Height (In.):	0.5"	5"	4"
Stage (L):	many	flowering	flowering
Weed 3 Name:	CHEAL	CHEAL	CHEAL
Height (In.):	0.5"	2-4"	3-15"
Stage (L):	coty-2	6-10	8-many
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height (In.):	-	2"	2-8"
Stage (L):	-	4	10-many

Weed Density (plants/sq. ft.)

	1	2	3	4
Date:	Jul/17/2014	Jul/17/2014	Jul/17/2014	Jul/17/2014
Weed Name:	ANGR	CHEAL	AMBEL	STEME
Density:	3	4	1	2

Application Equipment

App	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom width	GPA	Carrier	PSI
A	Cub	3.8	AIXR	11003	26"	20"	100"	19	Water	30
B	Cub	3.8	AIXR	11003	26"	20"	100"	19	Water	30
C	Cub	3.8	AIXR	11003	30"	20"	100"	19	Water	30

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Weed Code	STEME	CHEAL	AMBEL	STEME
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	May/14/2014	May/14/2014	May/14/2014	May/28/2014
Trt-Eval Interval	9 DA-A	9 DA-A	9 DA-A	7 DA-B
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Afforia (3.75 oz/A)							99	99	99	99
1	Harmony SG (premix)	50	WG	0.37	oz/a	7	EPP A				
1	Express (premix)	50	WG	0.37	oz/a	7	EPP A				
1	Valor (premix)	51	WG	3	oz/a	7	EPP A				
1	Abundit Extra	4	SL	1	qt/a	7	EPP A				
1	AMS		WG	17	lb/100 gal	7	EPP A				
1	Abundit Extra	4	SL	1	qt/a		POST C				
1	AMS		WG	17	lb/100 gal		POST C				
2	Afforia (2.5 oz/A)										92
2	Harmony SG (premix)	50	WG	0.25	oz/a	1	EPP B				
2	Express (premix)	50	WG	0.25	oz/a	1	EPP B				
2	Valor (premix)	51	WG	2	oz/a	1	EPP B				
2	Abundit Extra	4	SL	1	qt/a	1	EPP B				
2	AMS		WG	17	lb/100 gal	1	EPP B				
2	Abundit Extra	4	SL	1	qt/a		POST C				
2	AMS		WG	17	lb/100 gal		POST C				
3	Afforia (2.5 oz/A)										99
3	Harmony SG (premix)	50	WG	0.25	oz/a	1	EPP B				
3	Express (premix)	50	WG	0.25	oz/a	1	EPP B				
3	Valor (premix)	51	WG	2	oz/a	1	EPP B				
3	Abundit Extra	4	SL	1	qt/a	1	EPP B				
3	AMS		WG	17	lb/100 gal	1	EPP B				
3	Abundit Extra	4	SL	1	qt/a		POST C				
3	Cinch	7.64	L	1	pt/a		POST C				
3	AMS		WG	17	lb/100 gal		POST C				
4	Afforia (2.5 oz/A)										93
4	Harmony SG (premix)	50	WG	0.25	oz/a	1	EPP B				
4	Express (premix)	50	WG	0.25	oz/a	1	EPP B				
4	Valor (premix)	51	WG	2	oz/a	1	EPP B				
4	Zidua	85	WG	1.5	oz/a	1	EPP B				
4	Abundit Extra	4	SL	1	qt/a	1	EPP B				
4	AMS		WG	17	lb/100 gal	1	EPP B				
4	Abundit Extra	4	SL	1	qt/a		POST C				
4	AMS		WG	17	lb/100 gal		POST C				
5	Untreated							0	0	0	0
6	Panoflex (0.6 oz/A)										94
6	Harmony SG (premix)	50	WG	0.12	oz/a	1	EPP B				
6	Express (premix)	50	WG	0.48	oz/a	1	EPP B				
6	Abundit Extra	4	SL	1	qt/a	1	EPP B				
6	AMS		WG	17	lb/100 gal	1	EPP B				
6	Abundit Extra	4	SL	1	qt/a		POST C				
6	AMS		WG	17	lb/100 gal		POST C				
7	Valor	51	WG	2	oz/a	1	EPP B				96
7	Abundit Extra	4	SL	1	qt/a	1	EPP B				
7	AMS		WG	17	lb/100 gal	1	EPP B				
7	Abundit Extra	4	SL	1	qt/a		POST C				
7	AMS		WG	17	lb/100 gal		POST C				

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Weed Code	STEME	CHEAL	AMBEL	STEME
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	May/14/2014	May/14/2014	May/14/2014	May/28/2014
Trt-Eval Interval	9 DA-A	9 DA-A	9 DA-A	7 DA-B
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	
8	Fierce	76	WG	3	oz/a	1 EPP	B	
8	Abundit Extra	4	SL	1	qt/a	1 EPP	B	99
8	AMS		WG	17	lb/100 gal	1 EPP	B	
8	Abundit Extra	4	SL	1	qt/a	POST	C	
8	AMS		WG	17	lb/100 gal	POST	C	
9	Authority First	70	WG	6.4	oz/a	1 EPP	B	
9	Abundit Extra	4	SL	1	qt/a	1 EPP	B	98
9	AMS		WG	17	lb/100 gal	1 EPP	B	
9	Abundit Extra	4	SL	1	qt/a	POST	C	
9	AMS		WG	17	lb/100 gal	POST	C	
10	Abundit Extra	4	SL	1	qt/a	1 EPP	B	99
10	AMS		WG	17	lb/100 gal	1 EPP	B	
10	Abundit Extra	4	SL	1	qt/a	POST	C	
10	AMS		WG	17	lb/100 gal	POST	C	

LSD (P=.05)	0.0	0.8	0.0	9.7
CV	0.0	0.72	0.0	7.68

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code		ANGR	CHEAL	AMBEL	
Crop Code					GLXMA
Rating Data Type		control	control	control	injury
Rating Unit		percent	percent	percent	percent
Rating Date		May/28/2014	May/28/2014	May/28/2014	Jun/26/2014
Trt-Eval Interval		7 DA-B	7 DA-B	7 DA-B	36 DA-B
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	ANGR	CHEAL	AMBEL	GLXMA injury percent
1	Afforia (3.75 oz/A)							99	99	99	0
1	Harmony SG (premix)	50	WG	0.37	oz/a	7 EPP	A				
1	Express (premix)	50	WG	0.37	oz/a	7 EPP	A				
1	Valor (premix)	51	WG	3	oz/a	7 EPP	A				
1	Abundit Extra	4	SL	1	qt/a	7 EPP	A				
1	AMS		WG	17	lb/100 gal	7 EPP	A				
1	Abundit Extra	4	SL	1	qt/a	POST	C				
1	AMS		WG	17	lb/100 gal	POST	C				
2	Afforia (2.5 oz/A)							99	98	98	0
2	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
2	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
2	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
2	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
2	AMS		WG	17	lb/100 gal	1 EPP	B				
2	Abundit Extra	4	SL	1	qt/a	POST	C				
2	AMS		WG	17	lb/100 gal	POST	C				
3	Afforia (2.5 oz/A)							99	96	98	0
3	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
3	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
3	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
3	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
3	AMS		WG	17	lb/100 gal	1 EPP	B				
3	Abundit Extra	4	SL	1	qt/a	POST	C				
3	Cinch	7.64	L	1	pt/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	Afforia (2.5 oz/A)							99	99	99	0
4	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
4	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
4	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
4	Zidua	85	WG	1.5	oz/a	1 EPP	B				
4	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
4	AMS		WG	17	lb/100 gal	1 EPP	B				
4	Abundit Extra	4	SL	1	qt/a	POST	C				
4	AMS		WG	17	lb/100 gal	POST	C				
5	Untreated							0	0	0	0
6	Panoflex (0.6 oz/A)							99	92	99	0
6	Harmony SG (premix)	50	WG	0.12	oz/a	1 EPP	B				
6	Express (premix)	50	WG	0.48	oz/a	1 EPP	B				
6	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
6	AMS		WG	17	lb/100 gal	1 EPP	B				
6	Abundit Extra	4	SL	1	qt/a	POST	C				
6	AMS		WG	17	lb/100 gal	POST	C				
7	Valor	51	WG	2	oz/a	1 EPP	B	99	97	97	0
7	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
7	AMS		WG	17	lb/100 gal	1 EPP	B				
7	Abundit Extra	4	SL	1	qt/a	POST	C				
7	AMS		WG	17	lb/100 gal	POST	C				

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Weed Code	ANGR	CHEAL	AMBEL	GLXMA
Crop Code				
Rating Data Type	control	control	control	injury
Rating Unit	percent	percent	percent	percent
Rating Date	May/28/2014	May/28/2014	May/28/2014	Jun/26/2014
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	36 DA-B
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	ANGR	CHEAL	AMBEL	GLXMA
8	Fierce	76	WG	3	oz/a	1 EPP	B	99	98	98	0
8	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
8	AMS		WG	17	lb/100 gal	1 EPP	B				
8	Abundit Extra	4	SL	1	qt/a	POST	C				
8	AMS		WG	17	lb/100 gal	POST	C				
9	Authority First	70	WG	6.4	oz/a	1 EPP	B	99	99	98	0
9	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
9	AMS		WG	17	lb/100 gal	1 EPP	B				
9	Abundit Extra	4	SL	1	qt/a	POST	C				
9	AMS		WG	17	lb/100 gal	POST	C				
10	Abundit Extra	4	SL	1	qt/a	1 EPP	B	99	89	99	0
10	AMS		WG	17	lb/100 gal	1 EPP	B				
10	Abundit Extra	4	SL	1	qt/a	POST	C				
10	AMS		WG	17	lb/100 gal	POST	C				
LSD (P=.05)								0.2	9.8	2.8	0.0
CV								0.18	7.77	2.17	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	STEME	ANGR	CHEAL	AMBEL
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/26/2014	Jun/26/2014	Jun/26/2014	Jun/26/2014
Trt-Eval Interval	36 DA-B	36 DA-B	36 DA-B	36 DA-B
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Afforia (3.75 oz/A)							99	47	89	92
1	Harmony SG (premix)	50	WG	0.37	oz/a	7 EPP	A				
1	Express (premix)	50	WG	0.37	oz/a	7 EPP	A				
1	Valor (premix)	51	WG	3	oz/a	7 EPP	A				
1	Abundit Extra	4	SL	1	qt/a	7 EPP	A				
1	AMS		WG	17	lb/100 gal	7 EPP	A				
1	Abundit Extra	4	SL	1	qt/a	POST	C				
1	AMS		WG	17	lb/100 gal	POST	C				
2	Afforia (2.5 oz/A)							99	60	83	87
2	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
2	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
2	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
2	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
2	AMS		WG	17	lb/100 gal	1 EPP	B				
2	Abundit Extra	4	SL	1	qt/a	POST	C				
2	AMS		WG	17	lb/100 gal	POST	C				
3	Afforia (2.5 oz/A)							98	40	86	81
3	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
3	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
3	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
3	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
3	AMS		WG	17	lb/100 gal	1 EPP	B				
3	Abundit Extra	4	SL	1	qt/a	POST	C				
3	Cinch	7.64	L	1	pt/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	Afforia (2.5 oz/A)							99	96	97	95
4	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
4	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
4	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
4	Zidua	85	WG	1.5	oz/a	1 EPP	B				
4	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
4	AMS		WG	17	lb/100 gal	1 EPP	B				
4	Abundit Extra	4	SL	1	qt/a	POST	C				
4	AMS		WG	17	lb/100 gal	POST	C				
5	Untreated							0	0	0	0
6	Panoflex (0.6 oz/A)							98	50	75	97
6	Harmony SG (premix)	50	WG	0.12	oz/a	1 EPP	B				
6	Express (premix)	50	WG	0.48	oz/a	1 EPP	B				
6	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
6	AMS		WG	17	lb/100 gal	1 EPP	B				
6	Abundit Extra	4	SL	1	qt/a	POST	C				
6	AMS		WG	17	lb/100 gal	POST	C				
7	Valor	51	WG	2	oz/a	1 EPP	B	98	74	86	88
7	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
7	AMS		WG	17	lb/100 gal	1 EPP	B				
7	Abundit Extra	4	SL	1	qt/a	POST	C				
7	AMS		WG	17	lb/100 gal	POST	C				

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Weed Code	STEME	ANGR	CHEAL	AMBEL
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/26/2014	Jun/26/2014	Jun/26/2014	Jun/26/2014
Trt-Eval Interval	36 DA-B	36 DA-B	36 DA-B	36 DA-B
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
8	Fierce	76	WG	3	oz/a	1 EPP	B	99	88	91	95
8	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
8	AMS		WG	17	lb/100 gal	1 EPP	B				
8	Abundit Extra	4	SL	1	qt/a	POST	C				
8	AMS		WG	17	lb/100 gal	POST	C				
9	Authority First	70	WG	6.4	oz/a	1 EPP	B	99	84	99	99
9	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
9	AMS		WG	17	lb/100 gal	1 EPP	B				
9	Abundit Extra	4	SL	1	qt/a	POST	C				
9	AMS		WG	17	lb/100 gal	POST	C				
10	Abundit Extra	4	SL	1	qt/a	1 EPP	B	97	69	74	93
10	AMS		WG	17	lb/100 gal	1 EPP	B				
10	Abundit Extra	4	SL	1	qt/a	POST	C				
10	AMS		WG	17	lb/100 gal	POST	C				

LSD (P=.05)	2.7	20.3	10.6	13.4
CV	2.08	22.95	9.38	11.14

Means followed by same letter do not significantly differ (P=.05, LSD)

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 Conducted: Campus T-18

Study Dir.: Sprague and Powell
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Weed Code	GLXMA	STEME	ANGR	CHEAL
Crop Code	injury	control	control	control
Rating Data Type	percent	percent	percent	percent
Rating Unit	Jul/03/2014	Jul/11/2014	Jul/11/2014	Jul/11/2014
Rating Date	6 DA-C	14 DA-C	14 DA-C	14 DA-C
Trt-Eval Interval				
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Afforia (3.75 oz/A)							0	99	99	99
1	Harmony SG (premix)	50	WG	0.37	oz/a	7 EPP	A				
1	Express (premix)	50	WG	0.37	oz/a	7 EPP	A				
1	Valor (premix)	51	WG	3	oz/a	7 EPP	A				
1	Abundit Extra	4	SL	1	qt/a	7 EPP	A				
1	AMS		WG	17	lb/100 gal	7 EPP	A				
1	Abundit Extra	4	SL	1	qt/a	POST	C				
1	AMS		WG	17	lb/100 gal	POST	C				
2	Afforia (2.5 oz/A)							0	99	99	99
2	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
2	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
2	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
2	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
2	AMS		WG	17	lb/100 gal	1 EPP	B				
2	Abundit Extra	4	SL	1	qt/a	POST	C				
2	AMS		WG	17	lb/100 gal	POST	C				
3	Afforia (2.5 oz/A)							5	99	99	99
3	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
3	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
3	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
3	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
3	AMS		WG	17	lb/100 gal	1 EPP	B				
3	Abundit Extra	4	SL	1	qt/a	POST	C				
3	Cinch	7.64	L	1	pt/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	Afforia (2.5 oz/A)							0	99	99	99
4	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
4	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
4	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
4	Zidua	85	WG	1.5	oz/a	1 EPP	B				
4	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
4	AMS		WG	17	lb/100 gal	1 EPP	B				
4	Abundit Extra	4	SL	1	qt/a	POST	C				
4	AMS		WG	17	lb/100 gal	POST	C				
5	Untreated							0	0	0	0
6	Panoflex (0.6 oz/A)							0	99	99	99
6	Harmony SG (premix)	50	WG	0.12	oz/a	1 EPP	B				
6	Express (premix)	50	WG	0.48	oz/a	1 EPP	B				
6	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
6	AMS		WG	17	lb/100 gal	1 EPP	B				
6	Abundit Extra	4	SL	1	qt/a	POST	C				
6	AMS		WG	17	lb/100 gal	POST	C				
7	Valor	51	WG	2	oz/a	1 EPP	B	0	99	99	99
7	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
7	AMS		WG	17	lb/100 gal	1 EPP	B				
7	Abundit Extra	4	SL	1	qt/a	POST	C				
7	AMS		WG	17	lb/100 gal	POST	C				

MSU Weed Science Research Program

Evaluation of Afforia for weed control in no-till soybean

Trial ID: NTS01-14
 Conducted: Campus T-18

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	GLXMA injury percent	STEME control percent	ANGR control percent	CHEAL control percent
8	Fierce	76	WG	3	oz/a	1 EPP	B	0	99	99	99
8	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
8	AMS		WG	17	lb/100 gal	1 EPP	B				
8	Abundit Extra	4	SL	1	qt/a	POST	C				
8	AMS		WG	17	lb/100 gal	POST	C				
9	Authority First	70	WG	6.4	oz/a	1 EPP	B	2	99	99	99
9	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
9	AMS		WG	17	lb/100 gal	1 EPP	B				
9	Abundit Extra	4	SL	1	qt/a	POST	C				
9	AMS		WG	17	lb/100 gal	POST	C				
10	Abundit Extra	4	SL	1	qt/a	1 EPP	B	0	99	99	99
10	AMS		WG	17	lb/100 gal	1 EPP	B				
10	Abundit Extra	4	SL	1	qt/a	POST	C				
10	AMS		WG	17	lb/100 gal	POST	C				
LSD (P=.05)								1.6	0.0	0.0	0.0
CV								163.97	0.0	0.0	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Evaluation of Afforia for weed control in no-till soybean

Trial ID: NTS01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-18 Investigator: Christy Sprague

Weed Code	AMBEL	STEME	ANGR	CHEAL
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jul/11/2014	Jul/25/2014	Jul/25/2014	Jul/25/2014
Trt-Eval Interval	14 DA-C	28 DA-C	28 DA-C	28 DA-C
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Afforia (3.75 oz/A)							99	99	99	99
1	Harmony SG (premix)	50	WG	0.37	oz/a	7 EPP	A				
1	Express (premix)	50	WG	0.37	oz/a	7 EPP	A				
1	Valor (premix)	51	WG	3	oz/a	7 EPP	A				
1	Abundit Extra	4	SL	1	qt/a	7 EPP	A				
1	AMS		WG	17	lb/100 gal	7 EPP	A				
1	Abundit Extra	4	SL	1	qt/a	POST	C				
1	AMS		WG	17	lb/100 gal	POST	C				
2	Afforia (2.5 oz/A)							99	99	99	99
2	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
2	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
2	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
2	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
2	AMS		WG	17	lb/100 gal	1 EPP	B				
2	Abundit Extra	4	SL	1	qt/a	POST	C				
2	AMS		WG	17	lb/100 gal	POST	C				
3	Afforia (2.5 oz/A)							99	99	99	99
3	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
3	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
3	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
3	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
3	AMS		WG	17	lb/100 gal	1 EPP	B				
3	Abundit Extra	4	SL	1	qt/a	POST	C				
3	Cinch	7.64	L	1	pt/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	Afforia (2.5 oz/A)							99	99	99	99
4	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B				
4	Express (premix)	50	WG	0.25	oz/a	1 EPP	B				
4	Valor (premix)	51	WG	2	oz/a	1 EPP	B				
4	Zidua	85	WG	1.5	oz/a	1 EPP	B				
4	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
4	AMS		WG	17	lb/100 gal	1 EPP	B				
4	Abundit Extra	4	SL	1	qt/a	POST	C				
4	AMS		WG	17	lb/100 gal	POST	C				
5	Untreated							0	0	0	0
6	Panoflex (0.6 oz/A)							99	99	99	99
6	Harmony SG (premix)	50	WG	0.12	oz/a	1 EPP	B				
6	Express (premix)	50	WG	0.48	oz/a	1 EPP	B				
6	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
6	AMS		WG	17	lb/100 gal	1 EPP	B				
6	Abundit Extra	4	SL	1	qt/a	POST	C				
6	AMS		WG	17	lb/100 gal	POST	C				
7	Valor	51	WG	2	oz/a	1 EPP	B	99	99	99	99
7	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
7	AMS		WG	17	lb/100 gal	1 EPP	B				
7	Abundit Extra	4	SL	1	qt/a	POST	C				
7	AMS		WG	17	lb/100 gal	POST	C				

MSU Weed Science Research Program

Evaluation of Afforia for weed control in no-till soybean

Trial ID: NTS01-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-18 Investigator: Christy Sprague

Weed Code	AMBEL	STEME	ANGR	CHEAL
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jul/11/2014	Jul/25/2014	Jul/25/2014	Jul/25/2014
Trt-Eval Interval	14 DA-C	28 DA-C	28 DA-C	28 DA-C
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
8	Fierce	76	WG	3	oz/a	1 EPP	B	99	99	99	99
8	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
8	AMS		WG	17	lb/100 gal	1 EPP	B				
8	Abundit Extra	4	SL	1	qt/a	POST	C				
8	AMS		WG	17	lb/100 gal	POST	C				
9	Authority First	70	WG	6.4	oz/a	1 EPP	B	99	99	99	99
9	Abundit Extra	4	SL	1	qt/a	1 EPP	B				
9	AMS		WG	17	lb/100 gal	1 EPP	B				
9	Abundit Extra	4	SL	1	qt/a	POST	C				
9	AMS		WG	17	lb/100 gal	POST	C				
10	Abundit Extra	4	SL	1	qt/a	1 EPP	B	99	99	99	99
10	AMS		WG	17	lb/100 gal	1 EPP	B				
10	Abundit Extra	4	SL	1	qt/a	POST	C				
10	AMS		WG	17	lb/100 gal	POST	C				
LSD (P=.05)								0.0	0.0	0.0	0.0
CV								0.0	0.0	0.0	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Evaluation of Afforia for weed control in no-till soybean

Trial ID: NTS01-14
 Conducted: Campus T-18

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Weed Code AMBEL
 Crop Code
 Rating Data Type control
 Rating Unit percent
 Rating Date Jul/25/2014
 Trt-Eval Interval 28 DA-C
 # Subsamples, Dec.

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	
1	Afforia (3.75 oz/A)							99
1	Harmony SG (premix)	50	WG	0.37	oz/a	7 EPP	A	
1	Express (premix)	50	WG	0.37	oz/a	7 EPP	A	
1	Valor (premix)	51	WG	3	oz/a	7 EPP	A	
1	Abundit Extra	4	SL	1	qt/a	7 EPP	A	
1	AMS		WG	17	lb/100 gal	7 EPP	A	
1	Abundit Extra	4	SL	1	qt/a	POST	C	
1	AMS		WG	17	lb/100 gal	POST	C	
2	Afforia (2.5 oz/A)							99
2	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B	
2	Express (premix)	50	WG	0.25	oz/a	1 EPP	B	
2	Valor (premix)	51	WG	2	oz/a	1 EPP	B	
2	Abundit Extra	4	SL	1	qt/a	1 EPP	B	
2	AMS		WG	17	lb/100 gal	1 EPP	B	
2	Abundit Extra	4	SL	1	qt/a	POST	C	
2	AMS		WG	17	lb/100 gal	POST	C	
3	Afforia (2.5 oz/A)							99
3	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B	
3	Express (premix)	50	WG	0.25	oz/a	1 EPP	B	
3	Valor (premix)	51	WG	2	oz/a	1 EPP	B	
3	Abundit Extra	4	SL	1	qt/a	1 EPP	B	
3	AMS		WG	17	lb/100 gal	1 EPP	B	
3	Abundit Extra	4	SL	1	qt/a	POST	C	
3	Cinch	7.64	L	1	pt/a	POST	C	
3	AMS		WG	17	lb/100 gal	POST	C	
4	Afforia (2.5 oz/A)							99
4	Harmony SG (premix)	50	WG	0.25	oz/a	1 EPP	B	
4	Express (premix)	50	WG	0.25	oz/a	1 EPP	B	
4	Valor (premix)	51	WG	2	oz/a	1 EPP	B	
4	Zidua	85	WG	1.5	oz/a	1 EPP	B	
4	Abundit Extra	4	SL	1	qt/a	1 EPP	B	
4	AMS		WG	17	lb/100 gal	1 EPP	B	
4	Abundit Extra	4	SL	1	qt/a	POST	C	
4	AMS		WG	17	lb/100 gal	POST	C	
5	Untreated							0
6	Panoflex (0.6 oz/A)							99
6	Harmony SG (premix)	50	WG	0.12	oz/a	1 EPP	B	
6	Express (premix)	50	WG	0.48	oz/a	1 EPP	B	
6	Abundit Extra	4	SL	1	qt/a	1 EPP	B	
6	AMS		WG	17	lb/100 gal	1 EPP	B	
6	Abundit Extra	4	SL	1	qt/a	POST	C	
6	AMS		WG	17	lb/100 gal	POST	C	
7	Valor	51	WG	2	oz/a	1 EPP	B	99
7	Abundit Extra	4	SL	1	qt/a	1 EPP	B	
7	AMS		WG	17	lb/100 gal	1 EPP	B	
7	Abundit Extra	4	SL	1	qt/a	POST	C	
7	AMS		WG	17	lb/100 gal	POST	C	

MSU Weed Science Research Program

Evaluation of Afforia for weed control in no-till soybean

Trial ID: NTS01-14
 Conducted: Campus T-18

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

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

AMBEL
 control
 percent
 Jul/25/2014
 28 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
8	Fierce	76	WG	3	oz/a	1 EPP	B	99
8	Abundit Extra	4	SL	1	qt/a	1 EPP	B	
8	AMS		WG	17	lb/100 gal	1 EPP	B	
8	Abundit Extra	4	SL	1	qt/a	POST	C	
8	AMS		WG	17	lb/100 gal	POST	C	
9	Authority First	70	WG	6.4	oz/a	1 EPP	B	99
9	Abundit Extra	4	SL	1	qt/a	1 EPP	B	
9	AMS		WG	17	lb/100 gal	1 EPP	B	
9	Abundit Extra	4	SL	1	qt/a	POST	C	
9	AMS		WG	17	lb/100 gal	POST	C	
10	Abundit Extra	4	SL	1	qt/a	1 EPP	B	99
10	AMS		WG	17	lb/100 gal	1 EPP	B	
10	Abundit Extra	4	SL	1	qt/a	POST	C	
10	AMS		WG	17	lb/100 gal	POST	C	

LSD (P=.05) 0.0
 CV 0.0

Means followed by same letter do not significantly differ (P=.05, LSD)