

Tank-mixtures with Amicide Advance for weed control in no-till soybean

Trial ID: NTS02-22 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, T-18 Investigator:

Planting Date: May-23-2022 **Row Spacing:** 30 IN
Variety: AG24XF1 **No. of Reps:** 4
Population: 150000 seeds/A **% OM:** 2.8
Soil Type: L loam **pH:** 5.7
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: No-tilled into standing corn stalks.

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	STEME	common chickweed	Stellaria media
2	TAROF	dandelion	Taraxacum officinale
3	LAMPU	purple deadnettle	Lamium purpureum
4	ERICA	horseweed (marestail)	Conyza canadensis
5	POAAN	annual bluegrass	Poa annua
6	ANGR	annual grass	mainly foxtail species
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B	C
Application Timing:	14-EPP	PRE	POST
Date Treated:	May-10-2022	May-23-2022	Jun-27-2022
Time Treated:	10:40 AM	2:00 PM	8:30 AM
% Cloud Cover:		80	0
Air Temp., Unit:	56 F	57 F	65 F
% Relative Humidity:	54	54	48
Wind Speed/Unit/Dir:	5.7 MPH NNE	1 MPH E	11 MPH E
Soil Temp, Unit:	54 F	61 F	72 F
Leaf Moist/Dew Presence (Y/N):	N	N	N
Soil Moist:	5	3	5

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	GLXMA	GLXMA	GLXMA
Height:			5 "
Stage:			V3

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	STEME	STEME	STEME
Height:	8-10 " (9)	10-14 " (12)	6-12 " (9)
Stage:	flower	flower	flower
Weed 2 Name:	TAROF	TAROF	TAROF
Height:	3-7 " (5)	3-7 " (5)	4-9 " (6.5)
Stage:	flower	flower	flower
Weed 3 Name:	LAMPU	LAMPU	LAMPU
Height:	4-7 " (5.5)	4-8 " (6)	
Stage:	flower	flower	
Weed 4 Name:	ERICA	ERICA	ERICA
Height:	2-3 " (2)	1-10 " (3)	3-12 " (4)
Stage:	10 L-20 L (15 L)	4 L-24 L (14 L)	9 L-32 L (20 L)
Weed 5 Name:	POAAN	POAAN	POAAN
Height:	2-3 " (2.5)	2-4 " (3)	3-4 " (3)
Stage:	flower	flower	flower
Weed 6 Name:	ANGR	ANGR	ANGR
Height:			4 "
Stage:			3L

Weed Density

	1	2	3	4	5	6
Date:	Jun-27-2022	Jun-27-2022	Jun-27-2022	Jun-27-2022	Jun-27-2022	Jun-27-2022
Weed Name:	STEME	TAROF	LAMPU	ERICA	POAAN	ANGR
Density:	4 FT2	2 FT2	3 FT2	4 FT2	3 FT2	2 FT2

Application Equipment

Tank-mixtures with Amicide Advance for weed control in no-till soybean

Trial ID: NTS02-22

Study Dir.: Sprague, Stiles, Powell

Conducted: Campus, T-18

Investigator:

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 MPH	AIXR	11003	20.0 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	18.0 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
C	CUB	3.8 MPH	AIXR	11003	28.0 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments: Horseweed is resistant to glyphosate (Group 9) and ALS-inhibiting herbicides (Group 2).

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 Protocol ID: NTS02-22 Location: Campus, T-18 Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	POAAN	STEME	ERICA	LAMPU	TAROF	POAAN
Crop Type, Code						
Rating Date	May-17-2022	May-17-2022	May-17-2022	May-17-2022	May-17-2022	May-23-2022
Rating Type	control	control	control	control	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	13 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Appl Code					
1	Untreated					0	0	0	0	0
2	Amicide Advance	10.7 fl oz/a		14 EPP	A	0	23	64	64	50
	Surfactant	0.25 % v/v		14 EPP	A					
	Panther MTZ	12 fl oz/a		PRE	B					
	Credit Xtreme	22 fl oz/a		PRE	B					
	MSO	1 pt/a		PRE	B					
	AMS	17 lb/100 gal		PRE	B					
	Warrant	3 pt/a		POST	C					
	Credit Xtreme	22 fl oz/a		POST	C					
	AMS	17 lb/100 gal		POST	C					
3	Weedone LV4	16.7 fl oz/a		14 EPP	A	0	23	66	63	50
	Surfactant	0.25 % v/v		14 EPP	A					
	Panther MTZ	12 fl oz/a		PRE	B					
	Credit Xtreme	22 fl oz/a		PRE	B					
	MSO	1 pt/a		PRE	B					
	AMS	17 lb/100 gal		PRE	B					
	Warrant	3 pt/a		POST	C					
	Credit Xtreme	22 fl oz/a		POST	C					
	AMS	17 lb/100 gal		POST	C					
4	Amicide Advance	10.7 fl oz/a		14 EPP	A	0	23	66	65	50
	Surfactant	0.25 % v/v		14 EPP	A					
	Panther MTZ	15 fl oz/a		PRE	B					
	Credit Xtreme	22 fl oz/a		PRE	B					
	MSO	1 pt/a		PRE	B					
	AMS	17 lb/100 gal		PRE	B					
	Warrant	3 pt/a		POST	C					
	Credit Xtreme	22 fl oz/a		POST	C					
	AMS	17 lb/100 gal		POST	C					
5	Amicide Advance	10.7 fl oz/a		14 EPP	A	0	25	68	63	50
	Surfactant	0.25 % v/v		14 EPP	A					
	Panther PRO	15 fl oz/a		PRE	B					
	Credit Xtreme	22 fl oz/a		PRE	B					
	MSO	1 pt/a		PRE	B					
	AMS	17 lb/100 gal		PRE	B					
	Warrant	3 pt/a		POST	C					
	Credit Xtreme	22 fl oz/a		POST	C					
	AMS	17 lb/100 gal		POST	C					
6	Amicide Advance	10.7 fl oz/a		14 EPP	A	0	23	64	65	50
	Surfactant	0.25 % v/v		14 EPP	A					
	Zidua PRO	4.5 fl oz/a		PRE	B					
	Credit Xtreme	22 fl oz/a		PRE	B					
	MSO	1 pt/a		PRE	B					
	AMS	17 lb/100 gal		PRE	B					
	Warrant	3 pt/a		POST	C					
	Credit Xtreme	22 fl oz/a		POST	C					
	AMS	17 lb/100 gal		POST	C					
	LSD P=.05					.	4.2	2.9	2.7	.
	Standard Deviation					0.0	2.8	1.9	1.8	0.0
	CV					0.0	14.55	3.48	3.4	0.0

Could not calculate LSD (% mean diff) for columns 1,5,6,11,12,15,23,27,28 because error mean square = 0.

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 Study Director: Sprague, Stiles, Powell Sponsor Contact:
 Investigator (Creator): Christy Sprague

Pest Code	STEME	ERICA	LAMPU	TAROF	C, GLXMA	STEME	ERICA
Crop Type, Code							
Rating Date	May-23-2022	May-23-2022	May-23-2022	May-23-2022	Jun-6-2022	Jun-6-2022	Jun-6-2022
Rating Type	control	control	control	control	injury	control	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A	14 DA-B	14 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Timing	Appl Code						
1	Untreated					0	0	0	0	0	0
2	Amicide Advance	10.7 fl oz/a		14 EPP	A	13	71	70	40	0	100
	Surfactant	0.25 % v/v		14 EPP	A						99
	Panther MTZ	12 fl oz/a		PRE	B						
	Credit Xtreme	22 fl oz/a		PRE	B						
	MSO	1 pt/a		PRE	B						
	AMS	17 lb/100 gal		PRE	B						
	Warrant	3 pt/a		POST	C						
	Credit Xtreme	22 fl oz/a		POST	C						
	AMS	17 lb/100 gal		POST	C						
3	Weedone LV4	16.7 fl oz/a		14 EPP	A	13	73	71	41	0	100
	Surfactant	0.25 % v/v		14 EPP	A						98
	Panther MTZ	12 fl oz/a		PRE	B						
	Credit Xtreme	22 fl oz/a		PRE	B						
	MSO	1 pt/a		PRE	B						
	AMS	17 lb/100 gal		PRE	B						
	Warrant	3 pt/a		POST	C						
	Credit Xtreme	22 fl oz/a		POST	C						
	AMS	17 lb/100 gal		POST	C						
4	Amicide Advance	10.7 fl oz/a		14 EPP	A	13	74	73	40	0	100
	Surfactant	0.25 % v/v		14 EPP	A						99
	Panther MTZ	15 fl oz/a		PRE	B						
	Credit Xtreme	22 fl oz/a		PRE	B						
	MSO	1 pt/a		PRE	B						
	AMS	17 lb/100 gal		PRE	B						
	Warrant	3 pt/a		POST	C						
	Credit Xtreme	22 fl oz/a		POST	C						
	AMS	17 lb/100 gal		POST	C						
5	Amicide Advance	10.7 fl oz/a		14 EPP	A	10	75	71	39	0	100
	Surfactant	0.25 % v/v		14 EPP	A						99
	Panther PRO	15 fl oz/a		PRE	B						
	Credit Xtreme	22 fl oz/a		PRE	B						
	MSO	1 pt/a		PRE	B						
	AMS	17 lb/100 gal		PRE	B						
	Warrant	3 pt/a		POST	C						
	Credit Xtreme	22 fl oz/a		POST	C						
	AMS	17 lb/100 gal		POST	C						
6	Amicide Advance	10.7 fl oz/a		14 EPP	A	10	73	73	39	0	100
	Surfactant	0.25 % v/v		14 EPP	A						100
	Zidua PRO	4.5 fl oz/a		PRE	B						
	Credit Xtreme	22 fl oz/a		PRE	B						
	MSO	1 pt/a		PRE	B						
	AMS	17 lb/100 gal		PRE	B						
	Warrant	3 pt/a		POST	C						
	Credit Xtreme	22 fl oz/a		POST	C						
	AMS	17 lb/100 gal		POST	C						
	LSD P=.05					4.1	3.1	2.8	2.3	.	2.8
	Standard Deviation					2.7	2.0	1.8	1.6	0.0	1.9
	CV					28.58	3.36	3.06	4.71	0.0	2.26

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Pest Code	TAROF	ERICA	TAROF	ANGR	ERICA
Crop Type, Code	C, GLXMA				C, GLXMA
Rating Date	Jun-6-2022	Jun-27-2022	Jun-27-2022	Jun-27-2022	Jul-11-2022
Rating Type	control	injury	control	control	injury
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	14 DA-B	35 DA-B	35 DA-B	35 DA-B	14 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl	Appl						
		Rate Unit	Timing	Code						
1	Untreated				0	0	0	0	0	0
2	Amicide Advance	10.7 fl oz/a	14 EPP	A	100	0	97	96	81	4
	Surfactant	0.25 % v/v	14 EPP	A						
	Panther MTZ	12 fl oz/a	PRE	B						
	Credit Xtreme	22 fl oz/a	PRE	B						
	MSO	1 pt/a	PRE	B						
	AMS	17 lb/100 gal	PRE	B						
	Warrant	3 pt/a	POST	C						
	Credit Xtreme	22 fl oz/a	POST	C						
	AMS	17 lb/100 gal	POST	C						
3	Weedone LV4	16.7 fl oz/a	14 EPP	A	100	0	93	94	88	3
	Surfactant	0.25 % v/v	14 EPP	A						
	Panther MTZ	12 fl oz/a	PRE	B						
	Credit Xtreme	22 fl oz/a	PRE	B						
	MSO	1 pt/a	PRE	B						
	AMS	17 lb/100 gal	PRE	B						
	Warrant	3 pt/a	POST	C						
	Credit Xtreme	22 fl oz/a	POST	C						
	AMS	17 lb/100 gal	POST	C						
4	Amicide Advance	10.7 fl oz/a	14 EPP	A	100	0	94	90	93	4
	Surfactant	0.25 % v/v	14 EPP	A						
	Panther MTZ	15 fl oz/a	PRE	B						
	Credit Xtreme	22 fl oz/a	PRE	B						
	MSO	1 pt/a	PRE	B						
	AMS	17 lb/100 gal	PRE	B						
	Warrant	3 pt/a	POST	C						
	Credit Xtreme	22 fl oz/a	POST	C						
	AMS	17 lb/100 gal	POST	C						
5	Amicide Advance	10.7 fl oz/a	14 EPP	A	99	0	96	90	91	4
	Surfactant	0.25 % v/v	14 EPP	A						
	Panther PRO	15 fl oz/a	PRE	B						
	Credit Xtreme	22 fl oz/a	PRE	B						
	MSO	1 pt/a	PRE	B						
	AMS	17 lb/100 gal	PRE	B						
	Warrant	3 pt/a	POST	C						
	Credit Xtreme	22 fl oz/a	POST	C						
	AMS	17 lb/100 gal	POST	C						
6	Amicide Advance	10.7 fl oz/a	14 EPP	A	100	0	97	93	93	7
	Surfactant	0.25 % v/v	14 EPP	A						
	Zidua PRO	4.5 fl oz/a	PRE	B						
	Credit Xtreme	22 fl oz/a	PRE	B						
	MSO	1 pt/a	PRE	B						
	AMS	17 lb/100 gal	PRE	B						
	Warrant	3 pt/a	POST	C						
	Credit Xtreme	22 fl oz/a	POST	C						
	AMS	17 lb/100 gal	POST	C						
	LSD P=.05				0.9	.	7.4	10.5	14.1	2.7
	Standard Deviation				0.6	0.0	4.9	6.9	9.3	1.8
	CV				0.74	0.0	6.17	9.0	12.57	51.64

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Pest Code	TAROF	ANGR	C, GLXMA	ERICA	TAROF	ANGR	
Crop Type, Code	Jul-11-2022	Jul-11-2022	Aug-1-2022	Aug-1-2022	Aug-1-2022	Aug-1-2022	
Rating Date	control	control	injury	control	control	control	
Rating Type	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	
Rating Unit/Min/Max	14 DA-C	14 DA-C	35 DA-C	35 DA-C	35 DA-C	35 DA-C	
Trt-Eval Interval	0	0	0	0	0	0	
Number of Decimals							
Trt No.	Treatment Name	Rate	Appl Timing	Appl Code			
1	Untreated				0	0	
2	Amicide Advance	10.7 fl oz/a	14 EPP A		94	98	
	Surfactant	0.25 % v/v	14 EPP A		0	0	
	Panther MTZ	12 fl oz/a	PRE B		95	96	
	Credit Xtreme	22 fl oz/a	PRE B		96	96	
	MSO	1 pt/a	PRE B				
	AMS	17 lb/100 gal	PRE B				
	Warrant	3 pt/a	POST C				
	Credit Xtreme	22 fl oz/a	POST C				
	AMS	17 lb/100 gal	POST C				
3	Weedone LV4	16.7 fl oz/a	14 EPP A		97	100	
	Surfactant	0.25 % v/v	14 EPP A		0	0	
	Panther MTZ	12 fl oz/a	PRE B		93	96	
	Credit Xtreme	22 fl oz/a	PRE B		96	99	
	MSO	1 pt/a	PRE B				
	AMS	17 lb/100 gal	PRE B				
	Warrant	3 pt/a	POST C				
	Credit Xtreme	22 fl oz/a	POST C				
	AMS	17 lb/100 gal	POST C				
4	Amicide Advance	10.7 fl oz/a	14 EPP A		94	97	
	Surfactant	0.25 % v/v	14 EPP A		0	0	
	Panther MTZ	15 fl oz/a	PRE B		93	94	
	Credit Xtreme	22 fl oz/a	PRE B		94	99	
	MSO	1 pt/a	PRE B				
	AMS	17 lb/100 gal	PRE B				
	Warrant	3 pt/a	POST C				
	Credit Xtreme	22 fl oz/a	POST C				
	AMS	17 lb/100 gal	POST C				
5	Amicide Advance	10.7 fl oz/a	14 EPP A		96	100	
	Surfactant	0.25 % v/v	14 EPP A		0	0	
	Panther PRO	15 fl oz/a	PRE B		95	94	
	Credit Xtreme	22 fl oz/a	PRE B		94	100	
	MSO	1 pt/a	PRE B				
	AMS	17 lb/100 gal	PRE B				
	Warrant	3 pt/a	POST C				
	Credit Xtreme	22 fl oz/a	POST C				
	AMS	17 lb/100 gal	POST C				
6	Amicide Advance	10.7 fl oz/a	14 EPP A		95	99	
	Surfactant	0.25 % v/v	14 EPP A		0	0	
	Zidua PRO	4.5 fl oz/a	PRE B		96	95	
	Credit Xtreme	22 fl oz/a	PRE B		95	96	
	MSO	1 pt/a	PRE B				
	AMS	17 lb/100 gal	PRE B				
	Warrant	3 pt/a	POST C				
	Credit Xtreme	22 fl oz/a	POST C				
	AMS	17 lb/100 gal	POST C				
LSD P=.05		4.8	4.5	.	7.3	3.8	5.8 . .
Standard Deviation		3.2	3.0	0.0	4.8	2.5	3.8 . .
CV		4.02	3.66	0.0	6.15	3.16	4.72 . .

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