

MSU Weed Science Research Program

Windgrass control in winter wheat

Trial ID: WT01-12 Study Dir.: Sprague
 Conducted: Minden City Investigator: Christy Sprague

Date Planted: Oct/12/2011 Row Spacing: 7.5 IN
 Variety: Ambassador No. of Reps: 4
 Population: 2 million seeds/A % OM
 Soil Type: pH:
 Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Conventional tillage

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	APESV	WINDGRASS	APERA SPICA-VENTI (L.) BEAUV.
Crop	Code	Common Name	
1.	TRZAW	WHEAT, WINTER	

Application Description

	A	B	C	D
Application Timing:	PRE	EPOS-FALL	POST-FALL	POST-SPR
Date Treated:	Oct/12/2011	Oct/24/2011	Nov/14/2011	Apr/03/2012
Time Treated:	4:21 PM	9:30 AM	2:15 PM	5:30 PM
% Cloud Cover:	100	0	100	100
Air Temp., Unit:	61 F	51 F	60 F	58 F
% Relative Humidity:	96	88	45	56
Wind Speed/Unit/Dir:	3 mph E	10 mph W	0 mph	3 mph SE
Soil Temp., Unit:	61 F	50 F	47 F	52 F
Soil/Leaf Surface M:	3 -	1 5	1 5	5 5
Soil Moist (1=w 5=d):	4	1	2	3

Crop Stage at Each Application

	A	B	C	D
Crop Name:	TRZAW	TRZAW	TRZAW	TRZAW
Height (In.):	-	0.5"	2.5"	5"
Stage (L):	-	FEEKES 1	FEEKES 2	FEEKES 5

Weed Stage at Each Application

	A	B	C	D
Weed 1 Name:	APESV	APESV	APESV	APESV
Height (In.):	-	-	1.25"	2"
Stage (L):	-	-	2	5,3tiller

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
	Type	MPH	Type	Size	Height	Spacing	Width		
A	Backpack	3.8	AirMix	11003	18"	20"	100"	19	Water 28
B	Backpack	3.8	AirMix	11003	18"	20"	100"	19	Water 28
C	Backpack	3.8	AirMix	11003	20"	20"	100"	19	Water 28
D	Backpack	3.8	AirMix	11003	23"	20"	100"	19	Water 28

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Windgrass control in winter wheat

Trial ID: WT01-12 Study Dir.: Sprague
 Conducted: Minden City Investigator: Christy Sprague

Weed Code	TRZAW	TRZAW	APESV	TRZAW	APESV
Crop Code	injury	injury	control	injury	control
Rating Data Type	percent	percent	percent	percent	percent
Rating Unit	Nov/14/2011	Apr/03/2012	Apr/03/2012	Apr/13/2012	Apr/13/2012
Rating Date	33 DA-A	0 DA-D	0 DA-D	10 DA-D	10 DA-D
Trt-Eval Interval	0	0	0	0	0
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	0	8	58	8	59
1	Zidua	85	WG	1.5	oz/a	PRE	A	0	8	58	8	59
2	F9310-6	2.15	L	3.5	fl oz/a	PRE	A	0	13	60	12	59
3	F9310-6	2.15	L	5	fl oz/a	PRE	A	0	10	70	9	71
4	Karmex	80	WG	1	lb ai/a	PRE	A	0	44	87	44	87
5	Treflan	4	L	1	pt/a	PRE	A	0	4	55	3	50
6	Prowl H2O	3.8	L	2	pt/a	EPOS-FA	B	0	0	23	0	15
7	Untreated							0	0	0	0	0
8	PowerFlex	7.5	WG	3.5	oz/a	POST-FA	C		1	98	1	98
	Activator 90		L	0.5	% v/v	POST-FA	C					
9	PowerFlex	7.5	WG	3.5	oz/a	POST-FA	C		0	99	0	99
	Activator 90		L	0.25	% v/v	POST-FA	C					
	28% UAN		L	2	% v/v	POST-FA	C					
10	PowerFlex	7.5	WG	3.5	oz/a	POST-FA	C		0	98	0	99
	WideMatch	1.5	L	8	fl oz/a	POST-FA	C					
	Activator 90		L	0.25	% v/v	POST-FA	C					
	28% UAN		L	2	% v/v	POST-FA	C					
11	Affinity BroadSpec	50	WG	0.75	oz/a	POST-FA	C		0	33	0	34
	Activator 90		L	0.25	% v/v	POST-FA	C					
	28% UAN		L	2	% v/v	POST-FA	C					
12	Huskie	2.06	L	11	fl oz/a	POST-FA	C		3	98	3	98
	Osprey	4.5	WG	4.75	oz/a	POST-FA	C					
	Activator 90		L	0.25	% v/v	POST-FA	C					
	28% UAN		L	2	% v/v	POST-FA	C					
13	PowerFlex	7.5	WG	3.5	oz/a	POST-SP	D				11	10
	Activator 90		L	0.5	% v/v	POST-SP	D					
14	PowerFlex	7.5	WG	3.5	oz/a	POST-SP	D				14	10
	Activator 90		L	0.25	% v/v	POST-SP	D					
	28% UAN		L	2	% v/v	POST-SP	D					
15	PowerFlex	7.5	WG	3.5	oz/a	POST-SP	D				13	10
	WideMatch	1.5	L	8	fl oz/a	POST-SP	D					
	Activator 90		L	0.25	% v/v	POST-SP	D					
	28% UAN		L	2	% v/v	POST-SP	D					
16	Affinity BroadSpec	50	WG	0.75	oz/a	POST-SP	D				13	10
	Activator 90		L	0.25	% v/v	POST-SP	D					
	28% UAN		L	2	% v/v	POST-SP	D					
17	Huskie	2.06	L	11	fl oz/a	POST-SP	D				9	10
	Osprey	4.5	WG	4.75	oz/a	POST-SP	D					
	Activator 90		L	0.25	% v/v	POST-SP	D					
	28% UAN		L	2	% v/v	POST-SP	D					
18	Axial XL	0.42	L	16.4	fl oz/a	POST-SP	D				14	9
19	Axial Star	1.15	L	16.4	fl oz/a	POST-SP	D				11	10
20	Puma	1	L	10.6	fl oz/a	POST-SP	D				6	10
LSD (P=.05)								0.0	9.1	14.0	6.9	11.4
CV								0.0	92.3	15.01	58.22	19.06

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

MSU Weed Science Research Program

Weed Code								APESV		APESV			
Crop Code								TRZAW		TRZAW		TRZAW	
Rating Data Type								injury	control	injury	control	injury	
Rating Unit								percent	percent	percent	percent	percent	
Rating Date								Apr/24/2012	Apr/24/2012	May/09/2012	May/09/2012	Jun/13/2012	
Trt-Eval Interval								21 DA-D	21 DA-D	36 DA-D	36 DA-D	71 DA-D	
# Subsamples, Dec.								0	0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code						
1	Zidua	85	WG	1.5	oz/a	PRE	A	0	58	1	56	0	
2	F9310-6	2.15	L	3.5	fl oz/a	PRE	A	7	53	0	40	0	
3	F9310-6	2.15	L	5	fl oz/a	PRE	A	0	71	0	66	0	
4	Karmex	80	WG	1	lb ai/a	PRE	A	44	85	18	81	11	
5	Treflan	4	L	1	pt/a	PRE	A	0	43	0	31	0	
6	Prowl H2O	3.8	L	2	pt/a	EPOS-FA	B	0	15	0	28	0	
7	Untreated							0	0	0	0	0	
8	PowerFlex	7.5	WG	3.5	oz/a	POST-FA	C	1	98	0	99	4	
	Activator 90		L	0.5	% v/v	POST-FA	C						
9	PowerFlex	7.5	WG	3.5	oz/a	POST-FA	C	0	99	0	99	1	
	Activator 90		L	0.25	% v/v	POST-FA	C						
	28% UAN		L	2	% v/v	POST-FA	C						
10	PowerFlex	7.5	WG	3.5	oz/a	POST-FA	C	0	98	0	99	1	
	WideMatch	1.5	L	8	fl oz/a	POST-FA	C						
	Activator 90		L	0.25	% v/v	POST-FA	C						
	28% UAN		L	2	% v/v	POST-FA	C						
11	Affinity BroadSpec	50	WG	0.75	oz/a	POST-FA	C	1	16	0	23	0	
	Activator 90		L	0.25	% v/v	POST-FA	C						
	28% UAN		L	2	% v/v	POST-FA	C						
12	Huskie	2.06	L	11	fl oz/a	POST-FA	C	1	98	0	93	0	
	Osprey	4.5	WG	4.75	oz/a	POST-FA	C						
	Activator 90		L	0.25	% v/v	POST-FA	C						
	28% UAN		L	2	% v/v	POST-FA	C						
13	PowerFlex	7.5	WG	3.5	oz/a	POST-SP	D	13	78	3	95	0	
	Activator 90		L	0.5	% v/v	POST-SP	D						
14	PowerFlex	7.5	WG	3.5	oz/a	POST-SP	D	15	77	0	92	0	
	Activator 90		L	0.25	% v/v	POST-SP	D						
	28% UAN		L	2	% v/v	POST-SP	D						
15	PowerFlex	7.5	WG	3.5	oz/a	POST-SP	D	10	76	0	94	0	
	WideMatch	1.5	L	8	fl oz/a	POST-SP	D						
	Activator 90		L	0.25	% v/v	POST-SP	D						
	28% UAN		L	2	% v/v	POST-SP	D						
16	Affinity BroadSpec	50	WG	0.75	oz/a	POST-SP	D	10	33	1	35	0	
	Activator 90		L	0.25	% v/v	POST-SP	D						
	28% UAN		L	2	% v/v	POST-SP	D						
17	Huskie	2.06	L	11	fl oz/a	POST-SP	D	15	76	0	94	0	
	Osprey	4.5	WG	4.75	oz/a	POST-SP	D						
	Activator 90		L	0.25	% v/v	POST-SP	D						
	28% UAN		L	2	% v/v	POST-SP	D						
18	Axial XL	0.42	L	16.4	fl oz/a	POST-SP	D	6	63	0	84	0	
19	Axial Star	1.15	L	16.4	fl oz/a	POST-SP	D	5	69	3	85	0	
20	Puma	1	L	10.6	fl oz/a	POST-SP	D	6	63	0	80	0	
LSD (P=.05)								6.7	13.8	11.4	17.3	7.4	
CV								70.72	15.41	642.76	17.87	599.56	

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

MSU Weed Science Research Program

Weed Code APESV
 Crop Code
 Rating Data Type control
 Rating Unit percent
 Rating Date Jun/13/2012
 Trt-Eval Interval 71 DA-D
 # Subsamples, Dec. 0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	
1	Zidua	85	WG	1.5	oz/a	PRE	A	38
2	F9310-6	2.15	L	3.5	fl oz/a	PRE	A	39
3	F9310-6	2.15	L	5	fl oz/a	PRE	A	71
4	Karmex	80	WG	1	lb ai/a	PRE	A	70
5	Treflan	4	L	1	pt/a	PRE	A	20
6	Prowl H2O	3.8	L	2	pt/a	EPOS-FA	B	10
7	Untreated							0
8	PowerFlex	7.5	WG	3.5	oz/a	POST-FA	C	99
	Activator 90		L	0.5	% v/v	POST-FA	C	
9	PowerFlex	7.5	WG	3.5	oz/a	POST-FA	C	99
	Activator 90		L	0.25	% v/v	POST-FA	C	
	28% UAN		L	2	% v/v	POST-FA	C	
10	PowerFlex	7.5	WG	3.5	oz/a	POST-FA	C	99
	WideMatch	1.5	L	8	fl oz/a	POST-FA	C	
	Activator 90		L	0.25	% v/v	POST-FA	C	
	28% UAN		L	2	% v/v	POST-FA	C	
11	Affinity BroadSpec	50	WG	0.75	oz/a	POST-FA	C	15
	Activator 90		L	0.25	% v/v	POST-FA	C	
	28% UAN		L	2	% v/v	POST-FA	C	
12	Huskie	2.06	L	11	fl oz/a	POST-FA	C	92
	Osprey	4.5	WG	4.75	oz/a	POST-FA	C	
	Activator 90		L	0.25	% v/v	POST-FA	C	
	28% UAN		L	2	% v/v	POST-FA	C	
13	PowerFlex	7.5	WG	3.5	oz/a	POST-SP	D	99
	Activator 90		L	0.5	% v/v	POST-SP	D	
14	PowerFlex	7.5	WG	3.5	oz/a	POST-SP	D	98
	Activator 90		L	0.25	% v/v	POST-SP	D	
	28% UAN		L	2	% v/v	POST-SP	D	
15	PowerFlex	7.5	WG	3.5	oz/a	POST-SP	D	99
	WideMatch	1.5	L	8	fl oz/a	POST-SP	D	
	Activator 90		L	0.25	% v/v	POST-SP	D	
	28% UAN		L	2	% v/v	POST-SP	D	
16	Affinity BroadSpec	50	WG	0.75	oz/a	POST-SP	D	18
	Activator 90		L	0.25	% v/v	POST-SP	D	
	28% UAN		L	2	% v/v	POST-SP	D	
17	Huskie	2.06	L	11	fl oz/a	POST-SP	D	98
	Osprey	4.5	WG	4.75	oz/a	POST-SP	D	
	Activator 90		L	0.25	% v/v	POST-SP	D	
	28% UAN		L	2	% v/v	POST-SP	D	
18	Axial XL	0.42	L	16.4	fl oz/a	POST-SP	D	79
19	Axial Star	1.15	L	16.4	fl oz/a	POST-SP	D	94
20	Puma	1	L	10.6	fl oz/a	POST-SP	D	76
LSD (P=.05)								18.4
CV								19.83

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