

MSU Weed Science Research Program

Comparison of Water Conditioners for Use with Buccaneer Plus II

Trial ID: MISC03-06
Conducted: C18 Campus

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Date Planted: 6/14/2006 **Row Spacing:** 7.5 IN
Variety: Spring Wheat **No. of Reps:** 3
Population: 2.21 million seed/a **% OM:** 1.6
Soil Type: Sandy Clay Loam **pH:** 6.9
Plot Size: 10 X 25 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Spring chisel w/ liquid manure application.

Fertilizer: None at planting

Crop	Code	Common Name
1.	TRZAS	WHEAT, SPRING

Application Description

A

Application Timing: POST
Date Treated: 6/12/2006
Time Treated: 10:00 am
% Cloud Cover: 5
Air Temp., Unit: 64 F
% Relative Humidity: 41
Wind Speed/Unit/Dir: 5 mph NE
Soil Temp., Unit: 60 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

A

Crop Name: TRZAS
Height (In.): 6"
Stage (L): many

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11015	22"	20"	100"	10	DI H20	30

Comments: Planted w/ JD 1590 Drill-Setting #35

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Weed Code	wheat	ABUTH	wheat	ABUTH	wheat
Crop Code	TRZAW		TRZAW		TRZAW
Rating Data Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	7/22/2006	7/22/2006	7/27/2006	7/27/2006	8/4/2006
Trt-Eval Interval	40 DA-A	40 DA-A	45 DA-A	45 DA-A	53 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	CACL (400 PPM)	100	DC	0.147	g/100 ml	POST	A	82	18	92	38	99
1	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
2	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	75	22	98	35	99
2	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
2	Cut Rate		DF	3	lb/100 gal	POST	A					
3	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	84	35	98	38	99
3	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
3	Cut Rate		DF	4	lb/100 gal	POST	A					
4	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	89	60	98	70	99
4	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
4	AMS		DF	8.5	lb/100 gal	POST	A					
5	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	93	65	97	68	99
5	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
5	AMS		DF	17	lb/100 gal	POST	A					
6	Untreated							0	0	0	0	0
7	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	75	18	95	28	99
7	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
8	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	80	28	96	37	99
8	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
8	Cut Rate		DF	3	lb/100 gal	POST	A					
9	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	77	28	96	25	99
9	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
9	Cut Rate		DF	4	lb/100 gal	POST	A					
10	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	87	48	98	50	99
10	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
10	AMS		DF	8.5	lb/100 gal	POST	A					
11	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	98	73	99	82	99
11	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
11	AMS		DF	17	lb/100 gal	POST	A					
12	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	92	67	96	75	99
12	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
12	Bronc		L	2.5	gal/100 gal	POST	A					
13	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	93	68	99	73	99
13	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
13	Bronc		L	5	gal/100 gal	POST	A					
14	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	67	22	96	43	99
14	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
14	Bronc Max		L	2	qt/100 gal	POST	A					

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Weed Code	wheat	ABUTH	wheat	ABUTH	wheat
Crop Code	TRZAW		TRZAW		TRZAW
Rating Data Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	7/22/2006	7/22/2006	7/27/2006	7/27/2006	8/4/2006
Trt-Eval Interval	40 DA-A	40 DA-A	45 DA-A	45 DA-A	53 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
15	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	81	30	95	50	99
15	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
15	Bronc Max		L	1	gal/100 gal	POST	A					
16	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	96	62	99	70	99
16	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
16	Bronc		L	2.5	gal/100 gal	POST	A					
17	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	91	68	97	71	99
17	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
17	Bronc		L	5	gal/100 gal	POST	A					
18	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	62	10	93	47	99
18	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
18	Bronc Max		L	2	qt/100 gal	POST	A					
19	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	82	35	98	57	99
19	Buccaneer Plus	3	L	8	fl oz/a	POST	A					
19	Bronc Max		L	1	gal/100 gal	POST	A					
LSD (P=.05)								11.0	17.1	4.8	21.4	0.0
Standard Deviation								6.7	10.4	2.9	12.9	0.0
CV								8.45	25.95	3.2	25.5	0.0

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Trial ID: MISC03-06
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Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code ABUTH
 Crop Code
 Rating Data Type control
 Rating Unit percent
 Rating Date 8/4/2006
 Trt-Eval Interval 53 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
1	CACL (400 PPM)	100	DC	0.147	g/100 ml	POST	A	35
1	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
2	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	23
2	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
2	Cut Rate		DF	3	lb/100 gal	POST	A	
3	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	30
3	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
3	Cut Rate		DF	4	lb/100 gal	POST	A	
4	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	70
4	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
4	AMS		DF	8.5	lb/100 gal	POST	A	
5	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	57
5	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
5	AMS		DF	17	lb/100 gal	POST	A	
6	Untreated							0
7	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	22
7	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
8	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	23
8	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
8	Cut Rate		DF	3	lb/100 gal	POST	A	
9	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	20
9	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
9	Cut Rate		DF	4	lb/100 gal	POST	A	
10	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	45
10	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
10	AMS		DF	8.5	lb/100 gal	POST	A	
11	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	80
11	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
11	AMS		DF	17	lb/100 gal	POST	A	
12	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	76
12	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
12	Bronc		L	2.5	gal/100 gal	POST	A	
13	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	75
13	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
13	Bronc		L	5	gal/100 gal	POST	A	
14	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	27
14	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
14	Bronc Max		L	2	qt/100 gal	POST	A	

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Weed Code ABUTH
 Crop Code
 Rating Data Type control
 Rating Unit percent
 Rating Date 8/4/2006
 Trt-Eval Interval 53 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
15	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	38
15	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
15	Bronc Max		L	1	gal/100 gal	POST	A	
16	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	50
16	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
16	Bronc		L	2.5	gal/100 gal	POST	A	
17	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	74
17	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
17	Bronc		L	5	gal/100 gal	POST	A	
18	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	22
18	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
18	Bronc Max		L	2	qt/100 gal	POST	A	
19	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	32
19	Buccaneer Plus	3	L	8	fl oz/a	POST	A	
19	Bronc Max		L	1	gal/100 gal	POST	A	
LSD (P=.05)								21.8
Standard Deviation								13.2
CV								31.44