

MSU Weed Science Research Program

Comparison of Water Conditioners for Use with Buccaneer Plus

Trial ID: MISC01-06  
Conducted: T-14 Campus

Study Dir.: Sprague, Powell  
Investigator: Christy Sprague

**Date Planted:** 4/18/2006                      **Row Spacing:** 7.5 IN  
**Variety:** Spring Wheat                      **No. of Reps:** 4  
**Population:** 2.21 million seed/a           **% OM:** 3.0  
**Soil Type:** Sandy Loam                      **pH:** 7.2  
**Plot Size:** 10 X 35 FT                      **Design:** RANDOMIZED COMPLETE BLOCK

**Tillage:** Fall Moldboard plow  
Spring soil finnish 4/17  
Spring soil finnish 4/18

**Fertilizer:** None at planting

Crop	Code	Common Name
1.	TRZAS	WHEAT, SPRING

**Application Description**

**A**

**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.):** 8-10  
**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	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	TRZAX control percent	TRZAX control percent			
					6/19/2006	6/26/2006			
					7 DA-A	14 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code		
1	CACL (400 PPM)	100	DC	0.147	g/100 ml	POST	A	7	9
1	Buccaneer Plus	3	L	2	fl oz/a	POST	A		
2	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	11	28
2	Buccaneer Plus	3	L	2	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	13	20
3	Buccaneer Plus	3	L	2	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	11	26
4	Buccaneer Plus	3	L	2	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	21	40
5	Buccaneer Plus	3	L	2	fl oz/a	POST	A		
5	AMS		DF	17	lb/100 gal	POST	A		
6	Untreated							0	0
7	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	4	6
7	Buccaneer Plus	3	L	2	fl oz/a	POST	A		
8	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	7	13
8	Buccaneer Plus	3	L	2	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	5	11
9	Buccaneer Plus	3	L	2	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	13	34
10	Buccaneer Plus	3	L	2	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	18	38
11	Buccaneer Plus	3	L	2	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	18	30
12	Buccaneer Plus	3	L	2	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	14	44
13	Buccaneer Plus	3	L	2	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	9	28
14	Buccaneer Plus	3	L	2	fl oz/a	POST	A		
14	Bronc Max		L	2	qt/100 gal	POST	A		
15	CACL (400 PPM)		DF	0.147	g/100 ml	POST	A	23	44
15	Buccaneer Plus	3	L	2	fl oz/a	POST	A		
15	Bronc Max		L	1	gal/100 gal	POST	A		

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Weed Code		TRZAX	TRZAX
Rating Data Type		control	control
Rating Unit		percent	percent
Rating Date		6/19/2006	6/26/2006
Trt-Eval Interval		7 DA-A	14 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
16	CACL (800 PPM)		DF	0.294	g/100 ml	POST	A	12	28
16	Buccaneer Plus	3	L	2	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	7	33
17	Buccaneer Plus	3	L	2	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	6	14
18	Buccaneer Plus	3	L	2	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	8	33
19	Buccaneer Plus	3	L	2	fl oz/a	POST	A		
19	Bronc Max		L	1	gal/100 gal	POST	A		
LSD (P=.05)								9.2	11.3
Standard Deviation								6.5	8.0
CV								60.84	31.84