

Preharvest treatments in winter wheat

Trial ID: WT05-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: H6-8 Investigator: Christy Sprague

Planting Date: Oct-26-2016 **Row Spacing:** 7.5 "
Variety: 'Sunburst' soft red **No. of Reps:** 4
Population: 1800000 seeds/A **% OM:** 2.7
Soil Type: L loam **pH:** 7.0
Plot Size: 10 X 25 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops:
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1			
Crop	Code	Common Name	
1	TRZAW	Winter wheat	

Application Description

	A	B
Application Timing:	EARLY	PRE HAR.
Date Treated:	Jul-5-2016	Jul-11-2016
Time Treated:	2:30 PM	5:00 PM
% Cloud Cover:	60	50
Air Temp., Unit:	82 F	83 F
% Relative Humidity:	48	64
Wind Speed/Unit/Dir:	4 mph W	6 mph S
Soil Temp, Unit:	78 F	82 F
Leaf Moist/Dew Presence (Y/N):	5	5
Soil Moist:	5	5

Crop Stage at Each Application

	A	B
Crop 1 Name:	TRZAW	TRZAW
Height:	34 "	34 "
Stage:	Mature	Mature

Weed Stage at Each Application

	A	B
Weed 1 Name:		
Height:		
Stage:		

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	BACKPK	3.8 MPH	AIXR	11003	54 "	20 "	100 "	19 GAL/AC	WATER	23 PSI
B	BACKPK	3.8 MPH	AIXR	11003	54 "	20 "	100 "	19 GAL/AC	WATER	23 PSI

Comments:

7/5/16 Wheat sample from Timing A trts 1-3 treated at 39% moisture 7/11/16 Wheat sample from timin B "preharvest" trts 4-12 tested at 17.6% moisture Glyphosate residue sampling in wheat grain: Background untreated: 10.6 ppb Treatment 1: 257 ppb Treatment 2: 796 ppb Treatment 8: 56 ppb Treatment 9: 103.2 ppb

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Location: H6-8

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code					AMBEL		
Crop Code		TRZAW	TRZAW	TRZAW		TRZAW	TRZAW
Rating Date		Jul-20-2016	Jul-20-2016	Jul-20-2016	Jul-20-2016		
Rating Type		moisture	yield	test weight	control	wt/100 seed	germ. test
Rating Unit		percent	bu/acre	lbs/bu	percent	gms	percent
Trt-Eval Interval		9 DA-B	at 13% M	9 DA-B	9 DA-B		
Number of Decimals		1	1	1	0	2	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
1	Roundup PowerMax	22 fl oz/a		A	15.6	86.9	58.4	97	3.12	93
1	AMS	17 lb/100 gal		A						
2	Roundup PowerMax	44 fl oz/a		A	15.3	89.2	58.6	100	3.09	94
2	AMS	17 lb/100 gal		A						
3	Untreated				15.6	89.1	58.3	0	3.17	92
4	Clarity	8 fl oz/a		B	14.8	83.0	57.7	15	3.13	90
5	2,4-D amine	1 pt/a		B	15.2	83.0	57.3	0	3.14	91
6	Aim	1.5 fl oz/a		B	15.2	79.8	57.4	3	3.22	92
6	MSO	1 % v/v		B						
7	Sharpen	2 fl oz/a		B	14.5	81.4	57.4	100	3.12	87
7	MSO	1 % v/v		B						
7	AMS	17 lb/100 gal		B						
8	Roundup PowerMax	22 fl oz/a		B	14.7	77.5	56.7	99	3.13	87
8	AMS	17 lb/100 gal		B						
9	Roundup PowerMax	44 fl oz/a		B	14.9	82.6	57.1	100	3.10	88
9	AMS	17 lb/100 gal		B						
10	Roundup PowerMax	22 fl oz/a		B	14.9	81.8	57.3	100	3.19	92
10	Sharpen	2 fl oz/a		B						
10	MSO	1 % v/v		B						
10	AMS	17 lb/100 gal		B						
11	Roundup PowerMax	22 fl oz/a		B	14.7	83.7	56.7	80	3.18	91
11	Aim	1.5 fl oz/a		B						
11	MSO	1 % v/v		B						
11	AMS	17 lb/100 gal		B						
12	Untreated				14.7	81.9	56.4	0	3.19	91
	LSD P=.05				0.74	6.89	1.79	6.1	0.224	7.7
	Standard Deviation				0.51	4.79	1.24	4.2	0.156	5.4
	CV				3.41	5.75	2.17	7.32	4.94	5.93