

**Influence of adjuvants on quizalofop**

Trial ID: NC05-19 Study Dir.: Sprague, Powell, Stiles  
 Conducted: Campus, B-8 Investigator: Christy Sprague

**Planting Date:** Jul-15-2019 **Row Spacing:** 7.5 IN  
**Variety:** Starburst **No. of Reps:** 4  
**Population:** 60 LB/A **% OM:** 3.5  
**Soil Type:** SL sandy loam **pH:** 7.6  
**Plot Size:** 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Spring soil finish (2X)

**Fertilizer:**

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1			
Crop	Code	Common Name	
1	TRZAW	Winter wheat	
2	AVESW	Oat, winter	
3	SETIT	foxtail millet	
4	ZEAMX	Corn	

**Application Description**

**A**

**Application Timing:** POST  
**Date Treated:** Aug-5-2019  
**Time Treated:** 12:50 PM  
**% Cloud Cover:** 5  
**Air Temp., Unit:** 84 F  
**% Relative Humidity:** 39  
**Wind Speed/Unit/Dir:** 7 MPH W  
**Soil Temp, Unit:** 80 F  
**Leaf Moist/Dew Presence (Y/N):** 4  
**Soil Moist:** 4

**Crop Stage at Each Application**

**A**

**Crop 1 Name:** TRZAW  
**Height:** 4 "  
**Stage:** 6L  
**Crop 2 Name:** AVESW  
**Height:** 6 "  
**Stage:** 6L  
**Crop 3 Name:** SETIT  
**Height:** 8 "  
**Stage:** 4L  
**Crop 4 Name:** ZEAMX  
**Height:** 10 "  
**Stage:** V5

**Weed Stage at Each Application**

**A**

**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	CUB	3.8 MPH	AIXR	11003	26 "	20 "	100 "	19 GPA	WATER	30 PSI

**Comments:**

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Location: Campus, B-8

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	TRZAW	AVESS	SETIT	ZEAMX
Crop Type, Code	Aug-19-2019	Aug-19-2019	Aug-19-2019	Aug-19-2019
Rating Date	control	control	control	control
Rating Type	percent	percent	percent	percent
Rating Unit	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Trt-Eval Interval	0	0	0	0
Number of Decimals				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code				
1	Assure II	0.88	L	4 fl oz/a		12-14" corn A		69	56	69	96
1	R-11 (NIS)		L	0.25 % v/v		12-14" corn A					
2	Assure II	0.88	L	4 fl oz/a		12-14" corn A		68	48	56	94
2	R-11 (NIS)		L	0.25 % v/v		12-14" corn A					
2	AMS		WG	17 lb/100 gal		12-14" corn A					
3	Assure II	0.88	L	4 fl oz/a		12-14" corn A		84	68	80	100
3	Prime Oil (COC)		L	1 % v/v		12-14" corn A					
4	Assure II	0.88	L	4 fl oz/a		12-14" corn A		76	64	76	100
4	Prime Oil (COC)		L	1 % v/v		12-14" corn A					
4	AMS		WG	17 lb/100 gal		12-14" corn A					
5	Assure II	0.88	L	4 fl oz/a		12-14" corn A		71	58	73	99
5	Premium MSO (MSO)		L	1 % v/v		12-14" corn A					
6	Assure II	0.88	L	4 fl oz/a		12-14" corn A		68	54	65	98
6	Premium MSO (MSO)		L	1 % v/v		12-14" corn A					
6	AMS		WG	17 lb/100 gal		12-14" corn A					
7	Assure II	0.88	L	4 fl oz/a		12-14" corn A		68	55	78	100
7	Glacier EA (HSMOC)		L	0.75 % v/v		12-14" corn A					
8	Assure II	0.88	L	4 fl oz/a		12-14" corn A		68	63	62	97
8	Glacier EA (HSMOC)		L	0.75 % v/v		12-14" corn A					
8	AMS		WG	17 lb/100 gal		12-14" corn A					
9	Assure II	0.88	L	4 fl oz/a		12-14" corn A		74	59	70	99
9	Hybrid (HSMOC)		L	0.75 % v/v		12-14" corn A					
10	Assure II	0.88	L	4 fl oz/a		12-14" corn A		75	60	73	100
10	Hybrid (HSMOC)		L	0.75 % v/v		12-14" corn A					
10	AMS		WG	17 lb/100 gal		12-14" corn A					
11	Untreated							0	0	0	0
LSD P=.05								8.3	9.3	11.0	4.8
Standard Deviation								5.8	6.4	7.6	3.3
CV								8.82	12.16	12.0	3.72

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Location: Campus, B-8

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	TRZAW	AVESS	SETIT	ZEAMX
Crop Type, Code	Sep-2-2019	Sep-2-2019	Sep-2-2019	Sep-2-2019
Rating Date	control	control	control	control
Rating Type	percent	percent	percent	percent
Rating Unit	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Trt-Eval Interval	0	0	0	0
Number of Decimals				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code				
1	Assure II	0.88	L	4 fl oz/a		12-14" corn A		96	69	85	94
1	R-11 (NIS)		L	0.25 % v/v		12-14" corn A					
2	Assure II	0.88	L	4 fl oz/a		12-14" corn A		93	69	84	99
2	R-11 (NIS)		L	0.25 % v/v		12-14" corn A					
2	AMS		WG	17 lb/100 gal		12-14" corn A					
3	Assure II	0.88	L	4 fl oz/a		12-14" corn A		100	76	96	100
3	Prime Oil (COC)		L	1 % v/v		12-14" corn A					
4	Assure II	0.88	L	4 fl oz/a		12-14" corn A		99	80	94	99
4	Prime Oil (COC)		L	1 % v/v		12-14" corn A					
4	AMS		WG	17 lb/100 gal		12-14" corn A					
5	Assure II	0.88	L	4 fl oz/a		12-14" corn A		99	80	95	100
5	Premium MSO (MSO)		L	1 % v/v		12-14" corn A					
6	Assure II	0.88	L	4 fl oz/a		12-14" corn A		97	75	86	100
6	Premium MSO (MSO)		L	1 % v/v		12-14" corn A					
6	AMS		WG	17 lb/100 gal		12-14" corn A					
7	Assure II	0.88	L	4 fl oz/a		12-14" corn A		99	78	93	100
7	Glacier EA (HSMOC)		L	0.75 % v/v		12-14" corn A					
8	Assure II	0.88	L	4 fl oz/a		12-14" corn A		96	75	88	100
8	Glacier EA (HSMOC)		L	0.75 % v/v		12-14" corn A					
8	AMS		WG	17 lb/100 gal		12-14" corn A					
9	Assure II	0.88	L	4 fl oz/a		12-14" corn A		96	75	94	100
9	Hybrid (HSMOC)		L	0.75 % v/v		12-14" corn A					
10	Assure II	0.88	L	4 fl oz/a		12-14" corn A		97	78	89	99
10	Hybrid (HSMOC)		L	0.75 % v/v		12-14" corn A					
10	AMS		WG	17 lb/100 gal		12-14" corn A					
11	Untreated							0	0	0	0
LSD P=.05								5.4	7.4	8.6	4.3
Standard Deviation								3.7	5.1	5.9	3.0
CV								4.22	7.44	7.25	3.3