

Influence of tank-mixtures with quizalofop

Trial ID: NC06-19 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	
3	SETIT	foxtail millet	
4	ZEAMX	Corn	

Application Description

Application Timing: A
 POST
Date Treated: Aug-5-2019
Time Treated: 1:25 PM
% Cloud Cover: 5
Air Temp., Unit: 84 F
% Relative Humidity: 40
Wind Speed/Unit/Dir: 8 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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Pest Code	TRZWA	AVESW	SETIT	ZEAMX	TRZWA								
Crop Type, Code	Aug-19-2019	Aug-19-2019	Aug-19-2019	Aug-19-2019	Sep-2-2019								
Rating Date	control	control	control	control	control								
Rating Type	percent	percent	percent	percent	percent								
Rating Unit	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A								
Trt-Eval Interval	0	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	6 fl oz/a		12-14" corn A		76	66	75	100	97	
1	Premium MSO (MSO)		L	1 % v/v		12-14" corn A							
2	Callisto	4	L	3 fl oz/a		12-14" corn A		28	25	6	0	30	
2	Premium MSO (MSO)		L	1 % v/v		12-14" corn A							
3	Assure II	0.88	L	6 fl oz/a		12-14" corn A		68	59	61	100	99	
3	Callisto	4	L	3 fl oz/a		12-14" corn A							
3	Premium MSO (MSO)		L	1 % v/v		12-14" corn A							
3	AMS		WG	3 lb/a		12-14" corn A							
4	Impact	2.8	L	0.75 fl oz/a		12-14" corn A		15	51	63	0	21	
4	Premium MSO (MSO)		L	1 % v/v		12-14" corn A							
5	Assure II	0.88	L	6 fl oz/a		12-14" corn A		70	59	73	100	99	
5	Impact	2.8	L	0.75 fl oz/a		12-14" corn A							
5	Premium MSO (MSO)		L	1 % v/v		12-14" corn A							
5	AMS		WG	3 lb/a		12-14" corn A							
6	Liberty	2.34	L	22 fl oz/a		12-14" corn A		91	95	100	0	88	
6	AMS		WG	3 lb/a		12-14" corn A							
7	Assure II	0.88	L	6 fl oz/a		12-14" corn A		100	100	100	98	100	
7	Liberty	2.34	L	22 fl oz/a		12-14" corn A							
7	Premium MSO (MSO)		L	1 % v/v		12-14" corn A							
7	AMS		WG	3 lb/a		12-14" corn A							
8	2,4-D Amine	3.8	L	1.5 pt/a		12-14" corn A		10	15	18	16	8	
8	Premium MSO (MSO)		L	1 % v/v		12-14" corn A							
9	2,4-D Amine	3.8	L	1.5 pt/a		12-14" corn A		74	30	65	95	96	
9	Assure II	0.88	L	6 fl oz/a		12-14" corn A							
9	Premium MSO (MSO)		L	1 % v/v		12-14" corn A							
9	AMS		WG	3 lb/a		12-14" corn A							
10	Clarity	4	L	16 fl oz/a		12-14" corn A		10	20	8	1	16	
10	Premium MSO (MSO)		L	1 % v/v		12-14" corn A							
11	Clarity	4	L	16 fl oz/a		12-14" corn A		84	44	83	96	99	
11	Assure II	0.88	L	6 fl oz/a		12-14" corn A							
11	Premium MSO (MSO)		L	1 % v/v		12-14" corn A							
11	AMS		WG	0.57 lb/a		12-14" corn A							
12	Untreated							0	0	0	0	0	
LSD P=.05								5.5	7.7	6.0	4.4	7.4	
Standard Deviation								3.8	5.3	4.2	3.0	5.1	
CV								7.29	11.33	7.76	6.03	8.17	

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code			
1	Assure II	0.88	L	6 fl oz/a		12-14" corn A		80	97	100
1	Premium MSO (MSO)		L	1 % v/v		12-14" corn A				
2	Callisto	4	L	3 fl oz/a		12-14" corn A		25	6	0
2	Premium MSO (MSO)		L	1 % v/v		12-14" corn A				
3	Assure II	0.88	L	6 fl oz/a		12-14" corn A		79	88	100
3	Callisto	4	L	3 fl oz/a		12-14" corn A				
3	Premium MSO (MSO)		L	1 % v/v		12-14" corn A				
3	AMS		WG	3 lb/a		12-14" corn A				
4	Impact	2.8	L	0.75 fl oz/a		12-14" corn A		46	64	0
4	Premium MSO (MSO)		L	1 % v/v		12-14" corn A				
5	Assure II	0.88	L	6 fl oz/a		12-14" corn A		84	92	100
5	Impact	2.8	L	0.75 fl oz/a		12-14" corn A				
5	Premium MSO (MSO)		L	1 % v/v		12-14" corn A				
5	AMS		WG	3 lb/a		12-14" corn A				
6	Liberty	2.34	L	22 fl oz/a		12-14" corn A		93	100	0
6	AMS		WG	3 lb/a		12-14" corn A				
7	Assure II	0.88	L	6 fl oz/a		12-14" corn A		99	99	100
7	Liberty	2.34	L	22 fl oz/a		12-14" corn A				
7	Premium MSO (MSO)		L	1 % v/v		12-14" corn A				
7	AMS		WG	3 lb/a		12-14" corn A				
8	2,4-D Amine	3.8	L	1.5 pt/a		12-14" corn A		18	20	8
8	Premium MSO (MSO)		L	1 % v/v		12-14" corn A				
9	2,4-D Amine	3.8	L	1.5 pt/a		12-14" corn A		35	69	95
9	Assure II	0.88	L	6 fl oz/a		12-14" corn A				
9	Premium MSO (MSO)		L	1 % v/v		12-14" corn A				
9	AMS		WG	3 lb/a		12-14" corn A				
10	Clarity	4	L	16 fl oz/a		12-14" corn A		18	4	0
10	Premium MSO (MSO)		L	1 % v/v		12-14" corn A				
11	Clarity	4	L	16 fl oz/a		12-14" corn A		49	92	100
11	Assure II	0.88	L	6 fl oz/a		12-14" corn A				
11	Premium MSO (MSO)		L	1 % v/v		12-14" corn A				
11	AMS		WG	0.57 lb/a		12-14" corn A				
12	Untreated							0	0	0
	LSD P=.05							9.1	8.7	2.9
	Standard Deviation							6.3	6.1	2.0
	CV							12.15	9.97	4.03