

**Tolerance of summer planted cover crops to wheat herbicides - EL 2022**

Trial ID: WT03-22 Study Dir.: Walz, Sprague  
 Conducted: Campus, H6-8 Investigator:

**Planting Date:** Oct-18-2021 **Row Spacing:** 7.5 IN  
**Variety:** "Wharf" soft red wheat **No. of Reps:** 4  
**Population:** 1900000 seeds/A **% OM:** 2.4  
**Soil Type:** CL clay loam **pH:** 7.3  
**Plot Size:** 10 X 90 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:**  
**Fertilizer:**

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1	POAAN	annual bluegrass	Poa annua
2	STEME	common chickweed	Stellaria media
3	AMBEL	common ragweed	Ambrosia artemisiifolia
Crop	Code	Common Name	
1	TRZAW	Winter wheat	

**Application Description**

**Application Timing:** A  
**Date Treated:** POST  
 May-9-2022  
**Time Treated:** 8:45 AM  
**% Cloud Cover:** 0  
**Air Temp., Unit:** 52 F  
**% Relative Humidity:** 48  
**Wind Speed/Unit/Dir:** 7 MPH SE  
**Soil Temp, Unit:** 56 F  
**Leaf Moist/Dew Presence (Y/N):** N  
**Soil Moist:** 4

**Crop Stage at Each Application**

**A**  
**Crop 1 Name:** TRZAW  
**Height:** 10 "  
**Stage:** Feekes 5

**Weed Stage at Each Application**

**A**  
**Weed 1 Name:** POAAN  
**Height:** 1-3 " (1)  
**Stage:** 3L  
**Weed 2 Name:** STEME  
**Height:** 3 "  
**Stage:** flower  
**Weed 3 Name:** AMBEL  
**Height:** 1 "  
**Stage:** 2L-4L

**Weed Density**

	1	2	3
<b>Date:</b>	May-9-2022	May-9-2022	May-9-2022
<b>Weed Name:</b>	POAAN	STEME	AMBEL
<b>Density:</b>	3 FT2	5 FT2	7 FT2

**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	24.0 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

**Comments:** Common ragweed at this location is resistant to the ALS-inhibiting (Group 2) herbicides.

## Michigan State University

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Protocol ID: WT03-22 Location: Campus, H6-8 Trial Year: 2022

Project ID: Project ID 2: Project ID 3:

Study Director: Walz, Sprague Sponsor Contact:

Investigator (Creator): Christy Sprague

Pest Code				POAAN	STEME	AMBEL		POAAN			
Crop Type, Code				C, TRZAW			C, TRZAW				
Rating Date				May-16-2022	May-16-2022	May-16-2022	May-30-2022	May-16-2022			
Rating Type				injury	control	control	injury	control			
Rating Unit/Min/Max				%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Trt-Eval Interval				7 DA-A	7 DA-A	7 DA-A	21 DA-A	7 DA-A			
Number of Decimals				0	0	0	0	0			
Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Code						
1	Huskie	15 fl oz/a		POST	A	3	0	83	99	0	0
	Surfactant	0.5 % v/v		POST	A						
	AMS	3 lb/a		POST	A						
2	Talinor	18.2 fl oz/a		POST	A	0	0	78	93	0	0
	CoAct+	3.6 fl oz/a		POST	A						
3	Affinity BroadSpec	1 oz/a		POST	A	6	0	68	45	0	0
	Surfactant	0.25 % v/v		POST	A						
4	Quelex	0.75 oz/a		POST	A	1	0	64	90	0	0
	Crop oil concentrate	1 % v/v		POST	A						
5	Osprey	4.75 oz/a		POST	A	12	56	0	0	0	81
	Surfactant	0.5 % v/v		POST	A						
	AMS	3 lb/a		POST	A						
6	Osprey Xtra	4.75 oz/a		POST	A	12	58	31	0	0	81
	Surfactant	0.5 % v/v		POST	A						
	AMS	3 lb/a		POST	A						
7	PowerFlex HL	2 oz/a		POST	A	4	54	65	0	0	83
	Surfactant	0.5 % v/v		POST	A						
	AMS	3 lb/a		POST	A						
8	Axial Bold	15 fl oz/a		POST	A	2	13	0	0	0	20
9	Untreated					0	0	0	0	0	0
10	Stinger	0.33 pt/a		POST	A	3	0	0	93	0	0
	LSD P=.05					2.8	4.9	4.5	7.9	.	5.4
	Standard Deviation					1.9	3.3	3.1	5.4	0.0	3.7
	CV					45.98	18.6	8.06	12.93	0.0	14.02

Could not calculate LSD (% mean diff) for columns 5,9 because error mean square = 0.

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 Investigator (Creator): Christy Sprague

Pest Code	STEME	AMBEL	C, TRZAW	AMBEL
Crop Type, Code				
Rating Date	May-30-2022	May-30-2022	Jun-23-2022	Jun-23-2022
Rating Type	control	control	injury	control
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Trt-Eval Interval	21 DA-A	21 DA-A	45 DA-A	45 DA-A
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Code				
1	Huskie	15 fl oz/a		POST	A	97	99	0	98
	Surfactant	0.5 % v/v		POST	A				
	AMS	3 lb/a		POST	A				
2	Talinor	18.2 fl oz/a		POST	A	88	97	0	99
	CoAct+	3.6 fl oz/a		POST	A				
3	Affinity BroadSpec	1 oz/a		POST	A	90	26	0	0
	Surfactant	0.25 % v/v		POST	A				
4	Quelex	0.75 oz/a		POST	A	81	97	0	99
	Crop oil concentrate	1 % v/v		POST	A				
5	Osprey	4.75 oz/a		POST	A	18	0	0	0
	Surfactant	0.5 % v/v		POST	A				
	AMS	3 lb/a		POST	A				
6	Osprey Xtra	4.75 oz/a		POST	A	40	0	0	0
	Surfactant	0.5 % v/v		POST	A				
	AMS	3 lb/a		POST	A				
7	PowerFlex HL	2 oz/a		POST	A	80	0	0	0
	Surfactant	0.5 % v/v		POST	A				
	AMS	3 lb/a		POST	A				
8	Axial Bold	15 fl oz/a		POST	A	0	0	0	0
9	Untreated					0	0	0	0
10	Stinger	0.33 pt/a		POST	A	0	96	0	99
	LSD P=.05					4.2	4.4	.	2.4
	Standard Deviation					2.9	3.1	0.0	1.6
	CV					5.91	7.39	0.0	4.16

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