

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

Trial ID: WT04-22 Study Dir.: Walz, Sprague  
 Conducted: KBS Investigator:

**Planting Date:** Nov-8-2021 **Row Spacing:** 7.5 "  
**Variety:** 'Branson' soft red wheat **No. of Reps:** 4  
**Population:** 2000000 S/A **% OM:** 1.9  
**Soil Type:** L loam **pH:** 6.6  
**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	LAMPU	purple deadnettle	Lamium purpureum
4	CAPBP	shepherd's-purse	Capsella bursa-pastoris
Crop	Code	Common Name	
1	TRZAW	Winter wheat	

**Application Description**

**Application Timing:** A POST  
**Date Treated:** May-5-2022  
**Time Treated:** 10:45 AM  
**% Cloud Cover:** 70  
**Air Temp., Unit:** 52 F  
**% Relative Humidity:** 74  
**Wind Speed/Unit/Dir:** 4 MPH SW  
**Soil Temp, Unit:** 52 F  
**Leaf Moist/Dew Presence (Y/N):** N  
**Soil Moist:** 3

**Crop Stage at Each Application**

**A**  
**Crop 1 Name:** TRZAW  
**Height:** 5-8 " (6)  
**Stage:** Feekes 4

**Weed Stage at Each Application**

**A**  
**Weed 1 Name:** POAAN  
**Height:** 1 "  
**Stage:** 3L  
**Weed 2 Name:** STEME  
**Height:** 2 "  
**Stage:** mat  
**Weed 3 Name:** LAMPU  
**Height:** 3 "  
**Stage:** flower  
**Weed 4 Name:** CAPBP  
**Height:** 9 "  
**Stage:** flower

**Weed Density**

	1	2	3	4
<b>Date:</b>	May-5-2022	May-5-2022	May-5-2022	May-5-2022
<b>Weed Name:</b>	POAAN	STEME	LAMPU	CAPBP
<b>Density:</b>	2 FT2	5 FT2	4 FT2	1 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 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI

**Comments:**

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 Protocol ID: WT04-22 Location: KBS 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	LAMPU	CABPB				
Crop Type, Code				C, TRZAW				C, TRZAW			
Rating Date				May-12-2022	May-12-2022	May-12-2022	May-12-2022	May-12-2022	May-26-2022		
Rating Type				injury	control	control	control	control	injury		
Rating Unit/Min/Max				%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100		
Trt-Eval Interval				7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	21 DA-A		
Number of Decimals				0	0	0	0	0	0		
Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Code						
1	Huskie	15 fl oz/a		POST	A	0	0	89	78	71	0
	Surfactant	0.5 % v/v		POST	A						
	AMS	3 lb/a		POST	A						
2	Talinor	18.2 fl oz/a		POST	A	1	0	85	76	71	0
	CoAct+	3.6 fl oz/a		POST	A						
3	Affinity BroadSpec	1 oz/a		POST	A	5	0	84	71	75	0
	Surfactant	0.25 % v/v		POST	A						
4	Quelex	0.75 oz/a		POST	A	1	0	79	72	68	0
	Crop oil concentrate	1 % v/v		POST	A						
5	Osprey	4.75 oz/a		POST	A	4	70	18	20	0	0
	Surfactant	0.5 % v/v		POST	A						
	AMS	3 lb/a		POST	A						
6	Osprey Xtra	4.75 oz/a		POST	A	6	70	45	44	62	0
	Surfactant	0.5 % v/v		POST	A						
	AMS	3 lb/a		POST	A						
7	PowerFlex HL	2 oz/a		POST	A	4	72	60	61	60	0
	Surfactant	0.5 % v/v		POST	A						
	AMS	3 lb/a		POST	A						
8	Axial Bold	15 fl oz/a		POST	A	3	0	0	0	0	0
9	Untreated					0	0	0	0	0	0
10	Stinger	0.33 pt/a		POST	A	3	0	0	18	14	0
	LSD P=.05					1.7	4.7	7.2	6.4	6.2	.
	Standard Deviation					1.2	2.7	5.0	4.4	4.3	0.0
	CV					45.59	12.94	10.85	10.04	10.25	0.0

Missing data estimates are included in columns: Average=11  
 Excluded replicate 4 in column 2  
 Could not calculate LSD (% mean diff) for columns 6 because error mean square = 0.

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Pest Code	POAAN	STEME	LAMPU	CABPB	C, TRZAW
Crop Type, Code					
Rating Date	May-26-2022	May-26-2022	May-26-2022	May-26-2022	
Rating Type	control	control	control	control	yield
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	bu/A, -, -
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	@13% mois
Number of Decimals	0	0	0	0	1

Trt No.	Treatment Name	Rate	Appl Unit	Appl Timing	Code					
1	Huskie	15 fl oz/a		POST	A	0	91	85	83	79.9
	Surfactant	0.5 % v/v		POST	A					
	AMS	3 lb/a		POST	A					
2	Talinor	18.2 fl oz/a		POST	A	0	88	81	83	84.2
	CoAct+	3.6 fl oz/a		POST	A					
3	Affinity BroadSpec	1 oz/a		POST	A	0	85	75	81	80.0
	Surfactant	0.25 % v/v		POST	A					
4	Quelex	0.75 oz/a		POST	A	0	83	75	75	84.9
	Crop oil concentrate	1 % v/v		POST	A					
5	Osprey	4.75 oz/a		POST	A	98	10	23	15	84.4
	Surfactant	0.5 % v/v		POST	A					
	AMS	3 lb/a		POST	A					
6	Osprey Xtra	4.75 oz/a		POST	A	98	49	50	74	81.6
	Surfactant	0.5 % v/v		POST	A					
	AMS	3 lb/a		POST	A					
7	PowerFlex HL	2 oz/a		POST	A	97	66	71	78	82.5
	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	78.4
9	Untreated					0	0	0	0	88.5
10	Stinger	0.33 pt/a		POST	A	0	0	20	20	77.2
	LSD P=.05					2.1	6.0	6.6	6.6	12.10
	Standard Deviation					1.5	4.1	4.5	4.6	8.31
	CV					4.99	8.75	9.47	9.02	10.11

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