

Horseweed management after winter wheat harvest

Trial ID: WT06-22 Study Dir.: Sprague, Stiles, Powell
 Conducted: Gratiot County Investigator:

Planting Date: **Row Spacing:** 7.5 IN
Variety: **No. of Reps:** 4
Population: **% OM:**
Soil Type: L loam **pH:**
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops:
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ERICA	horseweed (marestail)	Conyza canadensis
2	CHEAL	common lambsquarters	Chenopodium album
Crop	Code	Common Name	
1	TRZAW	Winter wheat	

Application Description

A
Application Timing: POST
Date Treated: Aug-9-2022
Time Treated: 10:20 AM
% Cloud Cover: 5
Air Temp., Unit: 66 F
% Relative Humidity: 76
Wind Speed/Unit/Dir: 2 MPH N
Soil Temp, Unit: 71 F
Leaf Moist/Dew Presence (Y/N): N
Soil Moist: 5

Crop Stage at Each Application

A
Crop 1 Name: TRZAW
Height:
Stage: Stubble

Weed Stage at Each Application

A
Weed 1 Name: ERICA
Height: 10-24 " (17)
Stage: Flower
Weed 2 Name: CHEAL
Height: 10-22 " (11)
Stage: Flower

Weed Density

	1	2
Date:	Aug-9-2022	Aug-9-2022
Weed Name:	ERICA	CHEAL
Density:	6 FT2	4 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	30.0 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments:

Michigan State University

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Location: Gratiot County

Trial Year: 2022

Protocol ID: WT06-22

Investigator (Creator): Christy Sprague

Project ID:

Study Director: Sprague, Stiles, Powell

Sponsor Contact:

Pest Code						ERICA	ERICA	ERICA	CHEAL	
Rating Date						Aug-18-2022	Aug-24-2022	Aug-31-2022	Aug-31-2022	
Rating Type						control	control	control	control	
Rating Unit/Min/Max						%, -, -	%, 0, 100	%, 0, 100	%, 0, 100	
Trt-Eval Interval						9 DA-A	15 DA-A	22 DA-A	22 DA-A	
Number of Decimals						0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code				
1	Roundup PowerMax 3 AMS	4.8	SL WG	30 fl oz/a 17 lb/100 gal	POST A	A	30	10	9	100
2	Liberty AMS	2.34	L WG	32 fl oz/a 8.5 lb/100 gal	POST A	A	99	100	100	99
3	Liberty AMS	2.34	L WG	43 fl oz/a 8.5 lb/100 gal	POST A	A	99	100	100	100
4	Gramoxone SL Surfactant	3	SL L	2.7 pt/a 0.25 % v/v	POST A	A	99	100	100	99
5	Enlist One Roundup PowerMax 3 AMS	3.3	L SL WG	16 fl oz/a 30 fl oz/a 17 lb/100 gal	POST A	A	39	36	43	100
6	Enlist One Roundup PowerMax 3 AMS	3.3	L SL WG	32 fl oz/a 30 fl oz/a 17 lb/100 gal	POST A	A	45	69	75	100
7	XtendiMax Roundup PowerMax 3 VaporGrip (MON 51817) Intact	2.9	L SL L	22 fl oz/a 30 fl oz/a 20 fl oz/a 0.5 % v/v	POST A	A	40	40	55	100
8	Sharpen Roundup PowerMax 3 MSO	2.85	L SL L	1 fl oz/a 30 fl oz/a 1 % v/v	POST A	A	99	100	100	99
9	Sharpen Roundup PowerMax 3 MSO	2.85	L SL L	2 fl oz/a 30 fl oz/a 1 % v/v	POST A	A	99	100	100	100
10	AMS Roundup PowerMax 3 2,4-D ester Atrazine Roundup PowerMax 3 AMS	4	L L SL WG	1 pt/a 1 qt/a 30 fl oz/a 17 lb/100 gal	POST A	A	85	85	95	100
11	Untreated						0	0	0	0
12	Liberty Roundup PowerMax 3 AMS	2.34	L SL WG	32 fl oz/a 30 fl oz/a 17 lb/100 gal	POST A	A	99	100	100	100
13	Enlist One Liberty AMS	3.3	L L WG	32 fl oz/a 32 fl oz/a 8.5 lb/100 gal	POST A	A	99	100	100	100
14	XtendiMax Liberty VaporGrip (MON 51817) Intact	2.9	L L L	22 fl oz/a 32 fl oz/a 20 fl oz/a 0.5 % v/v	POST A	A	99	100	100	100
15	Sharpen Liberty MSO	2.85	L L L	1 fl oz/a 32 fl oz/a 1 % v/v	POST A	A	99	100	100	99
16	AMS Roundup PowerMax 3 Liberty Roundup PowerMax 3 MSO	2.85	L L SL L	1 fl oz/a 32 fl oz/a 30 fl oz/a 1 % v/v	POST A	A	99	100	100	100
	AMS		WG	17 lb/100 gal	POST A					
	LSD P=.05						2.3	7.3	6.2	1.3
	Standard Deviation						1.6	5.1	4.3	0.9
	CV						2.08	6.59	5.39	0.98