

DANDELION CONTROL IN WHEAT

Trial ID: 09WHEAT1 Study Dir.: Anthony F. Dobbels  
Location: WESTERN BRANCH ENT W-1 Investigator: Dr. Mark M. Loux

**GENERAL TRIAL INFORMATION**

**Study Director:** Anthony F. Dobbels  
**Investigator:** Dr. Mark M. Loux

**TRIAL LOCATION**

**City:** South Charleston  
**State/Prov.:** Ohio  
**Postal Code:** 45368  
**Country:** USA

**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N

**CROP AND WEED DESCRIPTION**

Weed	Code	Common Name	Scientific Name	
1.	TAROF	Co	mmon dandelion	Taraxacum officinale
2.	LAMPU	Pu	rple deadnettel	Lamium purpureum

**Crop 1:** TRZAW WHEAT, WINTER **Variety:** PIONEER 25R78  
**Planting Date:** Oct-7-2008 **Planting Method:** GREAT PLAINS DRILL  
**Rate:** 120 LB/A **Depth:** 0.75 IN  
**Row Spacing:** 7.5 IN **Seed Bed:** NO-TILL

**SITE AND DESIGN**

**Plot Width, Unit:** 10 FT **Plot Length, Unit:** 30 FT **Reps:** 3  
**Tillage Type:** NO-TILL **Study Design:** RACOBL

**SOIL DESCRIPTION**

**% OM:** 2.9 **Texture:** SILTY CLAY LOAM  
**pH:** 6.2 **Soil Name:** CROSBY  
**CEC:** 17.5 **Fert. Level:** GOOD

**APPLICATION DESCRIPTION**

	A	B	C
<b>Application Date:</b>	Oct-9-2008	Nov-23-2008	
<b>Time of Day:</b>	3:00 P.M.	11:00 A.M	
<b>Application Method:</b>	SPRAY	SPRAY	
<b>Application Timing:</b>	PRE	FALL	
<b>Applic. Placement:</b>	BROADCAST	BROADCAST	
<b>Air Temp., Unit:</b>	72 F	33 F	
<b>% Relative Humidity:</b>	43	59	
<b>Wind Velocity, Unit:</b>	4 W	6 SSW	
<b>Soil Temp., Unit:</b>	62 F	33 F	
<b>Soil Moisture:</b>	ADEQUATE	ADEQUATE	
<b>% Cloud Cover:</b>	0	2	

**CROP STAGE AT EACH APPLICATION**

		B	C
<b>Crop 1 Code, Stage:</b>	TRZAW	TRZAW FEEKE'S 2	TRZAW
<b>Stage Scale:</b>		DESC	
<b>Height, Unit:</b>		2.5 IN	

**WEED STAGE AT EACH APPLICATION**

		B	C
<b>Weed 1 Code, Stage:</b>	TAROF 4-6"	TAROF 4-6"	TAROF
<b>Stage Scale:</b>	12 LVS	12 LVS	
<b>Weed 2 Code, Stage:</b>	LAMPU	LAMPU 1/2"	LAMPU
<b>Stage Scale:</b>		8 LVS	

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**APPLICATION EQUIPMENT**

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Appl. Equipment:</b>	BACKPACK	BACKPACK	
<b>Operating Pressure:</b>	53	53	
<b>Nozzle Type:</b>	DG	DG	
<b>Nozzle Size:</b>	11002	11002	
<b>Nozzle Spacing, Unit:</b>	18 IN	18 IN	
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH	
<b>Carrier:</b>	WATER	WATER	
<b>Spray Volume, Unit:</b>	20 GPA	20 GPA	
<b>Propellant:</b>	CO2	CO2	

Ohio State University  
Horticulture and Crop Science

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Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Plot No. Rep. 1	2	3	Notes
1	ROUNDUP POWERMAX AMS	4.5 100	SL L	0.75 5	lb ae/a % v/v	PRE PRE	A	101	224	316	
2	Widematch 1.3 pts STARANE STINGER	1.5 3	L L	0.117 0.117	lb ai/a lb ai/a	FALL FALL	B	102	212	313	
3	Widematch 1.3 pts STARANE STINGER EXPRESS NIS	1.5 3 75 100	L L WG L	0.117 0.117 0.0155 0.25	lb ai/a lb ai/a lb ai/a % v/v	FALL FALL FALL FALL	B	103	214	319	
4	Widematch 1.3 pts STARANE STINGER HARMONY EXTRA 0.5 OZ HARMONY XP EXPRESS NIS	1.5 3 75 75 100	L L SG WG L	0.117 0.117 0.0156 0.0078 0.25	lb ai/a lb ai/a lb ai/a lb ai/a % v/v	FALL FALL FALL FALL FALL	B	104	221	308	
5	Widematch 1.3 pts STARANE STINGER BANVEL	1.5 3 4	L L L	0.117 0.117 0.125	lb ai/a lb ai/a lb ai/a	FALL FALL FALL	B	105	209	321	
6	Widematch 1.3 pts STARANE STINGER EXPRESS BANVEL NIS	1.5 3 75 4 100	L L WG L L	0.117 0.117 0.0155 0.125 0.25	lb ai/a lb ai/a lb ai/a lb ai/a % v/v	FALL FALL FALL FALL FALL	B	106	215	306	
7	EXPRESS BANVEL NIS	75 4 100	WG L L	0.0155 0.125 0.25	lb ai/a lb ai/a % v/v	FALL FALL FALL	B	107	223	322	
8	EXPRESS BANVEL NIS	75 4 100	WG L L	0.0155 0.0625 0.25	lb ai/a lb ai/a % v/v	FALL FALL FALL	B	108	211	320	
9	HARMONY EXTRA 0.5 OZ HARMONY XP EXPRESS BANVEL NIS	75 75 4 100	SG WG L L	0.0156 0.0078 0.125 0.25	lb ai/a lb ai/a lb ai/a % v/v	FALL FALL FALL FALL	B	109	218	311	
10	HARMONY EXTRA 0.5 OZ HARMONY XP EXPRESS BANVEL NIS	75 75 4 100	SG WG L L	0.0156 0.0078 0.0625 0.25	lb ai/a lb ai/a lb ai/a % v/v	FALL FALL FALL FALL	B	110	220	318	
11	HARMONY EXTRA 0.3 OZ HARMONY XP EXPRESS BANVEL NIS	75 75 4 100	SG WG L L	0.0093 0.00467 0.125 0.25	lb ai/a lb ai/a lb ai/a % v/v	FALL FALL FALL FALL	B	111	217	323	
12	HARMONY EXTRA 0.3OZ HARMONY XP EXPRESS BANVEL NIS	75 75 4 100	SG WG L L	0.0093 0.00467 0.0625 0.25	lb ai/a lb ai/a lb ai/a % v/v	FALL FALL FALL FALL	B	112	222	324	
13	BRASH	3.87	L	0.643	lb ai/a	FALL	B	113	208	312	

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot No. Rep. 1	2	3	Notes
14	HARMONY EXTRA 0.3 OZ							114	202	303	
	HARMONY XP	75	SG	0.0093	lb ai/a	FALL	B				
	EXPRESS	75	WG	0.00467	lb ai/a	FALL					
	BANVEL	4	L	0.0625	lb ai/a	FALL					
	NIS	100	L	0.25	% v/v	FALL					
	HARMONY EXTRA 0.3 OZ										
	HARMONY XP	75	SG	0.0093	lb ai/a	SPRING	C				
	EXPRESS	75	WG	0.00467	lb ai/a	SPRING					
	2,4-D	4	L	0.5	lb ai/a	SPRING					
	NIS	100	L	0.25	% v/v	SPRING					
15	BRASH	3.87	L	0.484	lb ai/a	SPRING	C	115	213	309	
16	Widematch 1.3 pts							116	205	314	
	STARANE	1.5	L	0.117	lb ai/a	SPRING	C				
	STINGER	3	L	0.117	lb ai/a	SPRING					
	2,4-D	4	L	0.5	lb ai/a	SPRING					
17	Widematch 1.3 pts							117	219	317	
	STARANE	1.5	L	0.117	lb ai/a	SPRING	C				
	STINGER	3	L	0.117	lb ai/a	SPRING					
	EXPRESS	75	WG	0.0155	lb ai/a	SPRING					
	NIS	100	L	0.25	% v/v	SPRING					
18	Widematch 1.3 pts							118	204	305	
	STARANE	1.5	L	0.117	lb ai/a	SPRING	C				
	STINGER	3	L	0.117	lb ai/a	SPRING					
	EXPRESS	75	WG	0.0155	lb ai/a	SPRING					
	2,4-D	4	L	0.5	lb ai/a	SPRING					
	NIS	100	L	0.25	% v/v	SPRING					
19	Widematch 1.3 pts							119	201	310	
	STARANE	1.5	L	0.117	lb ai/a	SPRING	C				
	STINGER	3	L	0.117	lb ai/a	SPRING					
	HARMONY EXTRA 0.5 OZ										
	HARMONY XP	75	SG	0.0156	lb ai/a	SPRING					
	EXPRESS	75	WG	0.0078	lb ai/a	SPRING					
	NIS	100	L	0.25	% v/v	SPRING					
20	CURTAIL	2.38	L	0.794	lb ai/a	SPRING	C	120	207	315	
21	CURTAIL	2.38	L	0.794	lb ai/a	SPRING		121	216	307	
	EXPRESS	75	WG	0.0155	lb ai/a	SPRING					
	NIS	100	L	0.25	% v/v	SPRING					
22	EXPRESS	75	WG	0.0155	lb ai/a	SPRING	C	122	203	302	
	2,4-D	4	L	0.5	lb ai/a	SPRING					
	NIS	100	L	0.25	% v/v	SPRING					
23	Widematch 1.3 pts							123	206	304	
	STARANE	1.5	L	0.117	lb ai/a	SPRING	C				
	STINGER	3	L	0.117	lb ai/a	SPRING					
	EXPRESS	75	WG	0.0155	lb ai/a	SPRING					
	2,4-D	4	L	0.5	lb ai/a	SPRING					
	NIS	100	L	0.25	% v/v	SPRING					
24	UTC							124	210	301	

Sort Order: Replicate 1