

2011 Broadleaf Weed Control with Supremacy in Spring Wheat

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‘Mott’ HRSW was seeded no-till on May 16. Treatments were applied on June 16 to 4 ½ leaf wheat, 1 inch kochia (kocz), 1 inch Russian thistle (ruth) and 4 inch wild buckwheat (wibw) with 54° F, 80% RH, clear sky and east wind at 6 mph. Treatments were applied with a tractor mounted CO₂ propelled plot sprayer delivering 10 gpa at 30 psi through PK-01E80 nozzles to a 5 foot wide area the length of 10 by 28 foot plots. The soil is classified as a silt-loam with a pH of 6.2 and OM of 3.2%. The trial was a randomized complete block design with four replications. Weed populations for kochia, Russian thistle and wild buckwheat were 4, 3 and 2 plants per square foot, respectively. There was also a scattered amount of prickly lettuce (plet) present. Plots were evaluated for crop injury on July 1 and July 29, and for weed control on July 29 and August 11. The trial was harvested on August 18.

Treatment	Product rate	7/1	July 29					August 11				Test weight	Grain yield	
		inj	inj	kocz	ruth	wibw	plet	kocz	ruth	wibw	plet			
----- Percent control -----												lbs/bu	bu/A	
1	Untreated	0	0	0	0	0	0	0	0	0	0	54.9	24.1	
2	Supremacy + NIS	4.0 + 0.25%	0	0	81	87	98	99	74	84	97	99	56.5	26.7
3	Supremacy + NIS	5.0 + 0.25%	0	0	94	97	93	99	93	96	98	99	56.9	26.8
4	Supremacy + NIS	6.0 + 0.25%	0	0	93	99	96	99	96	98	96	99	56.6	25.3
5	Supremacy + MCPA est	5.0 + 12	0	0	94	94	90	93	88	99	90	99	56.0	24.7
6	Supremacy + 2,4-D est	5.0 + 12	0	0	95	99	98	96	98	99	97	99	57.0	25.5
7	Supremacy + Bronate	5.0 + 16	0	0	87	99	90	65	93	99	96	88	56.5	25.8
8	Exp + NIS	5.0 + 0.25%	0	0	96	94	94	94	98	96	94	99	56.5	27.5
9	WideMatch + MCPA est	16 + 12	0	0	91	99	94	93	94	98	96	99	56.0	26.6
10	Starane Flex + NIS	13.5 + 0.25%	0	0	99	97	85	99	97	94	85	99	56.3	26.5
11	Huskie	11	0	0	82	88	20	99	91	99	62	99	55.8	26.0
C.V. %			0	0	10	9	17	7	11	8	16	1	2.2	3.9
LSD .05			NS	NS	12	12	19	9	14	11	19	1	NS	1.5

NS = no statistical difference between treatments

Summary

Crop injury was not observed. All herbicide treatments provided good season long control of kochia and Russian thistle except for the 4 oz/A rate of Supremacy (trt 2) which provided only marginal control of those weeds. All herbicide treatments provided good season long control of wild buckwheat except for Huskie (trt 11). All herbicide treatments provided excellent control of prickly lettuce.