

2011 Broadleaf Weed Control with Starane Flex 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 6, 3 and 2 plants per square foot, respectively. Plots were evaluated for crop injury on June 20, June 22, July 1, July 16 and August 11, and for weed control on July 1, July 16 and August 11. The trial was harvested on August 20.

Treatment	Product rate	6/22	----- July 1 -----			7/16	----- August 11 -----			Test weight	Grain yield		
		inj	inj	kocz	ruth	wibw	tamu	kocz	ruth			wibw	plet
----- Percent control -----													
1 Untreated		0	0	0	0	0	0	0	0	0	0	54.9	22.3
2 Starane Flex	13.5	0	0	88	65	88	99	88	77	94	99	57.0	27.3
3 Starane Flex + MCPA est	13.5 + 8.6	0	0	90	62	92	99	88	80	94	99	55.8	25.4
4 Starane Flex + 2,4-D est	13.5 + 8.6	1	0	89	64	90	99	94	90	94	99	56.9	26.4
5 Affinity TM + MCPA + NIS	0.6+13+0.25%	2	0	61	75	90	99	66	92	92	99	57.0	24.2
6 Huskie + AMS	11 + 0.5 lb	2	0	55	66	52	99	76	82	10	99	56.5	25.3
C.V. %		142	0	29	37	23	0	19	21	10	0	3.0	9.1
LSD .05		NS	NS	28	30	23	1	20	22	10	1	NS	NS

NS = no statistical difference between treatments

Summary

Crop injury was relatively minor and diminished quickly. All herbicide treatments provided good season long kochia control except for Affinity TM (trt 5) and Huskie (trt 6). Starane Flex + 2,4-D (trt 4) and Affinity TM were the only treatments that provided good season long control of Russian thistle. All herbicide treatments provided excellent season long control of wild buckwheat except for Huskie. All herbicide treatments provided excellent control of tansy mustard (tamu) and prickly lettuce (plet).