

Preplant Weed Control in No-Till Winter Wheat at Scottsbluff, Nebraska During the 2008 Growing Season.

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A field study was initiated near Scottsbluff, Nebraska to examine the effect of Kixor (BAS80004H) on weeds and winter wheat. The experimental design was a randomized complete block with four replications. Plots were 11 feet wide by 50 feet long and were located on a sandy loam soil with an organic matter content of 1.2% and pH of 8.2. At the time of herbicide application the field was infested with common lambsquarters, redroot pigweed, and hairy nightshade that ranged in height from 1 to 6 inches. Herbicides were applied on September 3 with a tractor-mounted sprayer calibrated to deliver 20 gallons of water per acre at 32-psi pressure with Spraying Systems 11002 VS nozzles. At the time of spraying the air temperature was 51° F, humidity was 71%, wind was blowing at 6 mph out of the southeast, and spraying started at 8:30 a.m. winter wheat was planted on September 8 with a double disc grain drill.

Winter wheat injury was evaluated on September 15, 21, and 30 (Table 1). Kixor did not cause injury to wheat planted 5 days after application. Kixor provided excellent control of seedling common lambsquarters, redroot pigweed, and hairy nightshade. Weed injury from Kixor was apparent 5 days after application.

Table 1. Preplant Weed Control in No-Till Wheat with Kixor at Scottsbluff, Nebraska during the 2008 Growing Season.

Treatment	Rate (lb/acre)	Time of application ¹	Percent weed control			Percent weed control			Percent weed control			Winter wheat injury		
			Colq 9/8	Rrpw 9/8	Hans	Colq 9/15	Rrpw 9/15	Hans	Colq 9/21/2008	Rrpw 9/21/2008	Hans	9/15	9/21	9/30
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Nontreated			0	0	0	0	0	0	0	0	0	0	0	0
BAS80004H	0.0159	5 DBP	97	94	97	99	95	99	99	84	99	0	0	0
COC	1.00%	5 DBP												
AMS	17lb/100gal	5 DBP												
Roundup WeatherMax X77	0.75 0.25%	5 DBP 5 DBP	89	88	89	99	98	99	99	99	99	0	0	0
AMS	17lb/100gal	5 DBP												
BAS80004H	0.0159	5 DBP	99	96	99	99	98	99	98	98	99	0	0	0
Roundup WeatherMax	0.75	5 DBP												
COC	1.00%	5 DBP												
AMS	17lb/100gal	5 DBP												
BAS80004H	0.0337	5 DBP	98	98	99	99	99	99	99	99	99	0	0	0
Roundup WeatherMax	0.75	5 DBP												
COC	1.00%	5 DBP												
AMS	17lb/100gal	5 DBP												
Weedar 64 X77	0.5 0.25%	5 DBP 5 DBP	75	75	75	86	85	86	95	76	99	0	0	0
AMS	20lb/100gal	5 DBP												
LSD at 5%			4	6	4	4	5	4	3	8	0	0	0	0

¹ Time of application: 5 days before planting on September 3, winter wheat planted on September 8.