

Broadleaf weed control with Weld herbicide in fallow, Carrington, 2011. Greg Endres and Michael Schaefer. The experiment was conducted at the NDSU Carrington Research Extension Center in cooperation with Winfield Solutions. Experimental design was a randomized complete block with three replicates. Herbicide treatments were applied with a CO₂-hand-boom plot sprayer delivering 11.5 gal/A at 40 psi through 80015VS XR flat fan nozzles to the center 5 ft of 8- by 30-ft plots on June 24 with 67 F, 78% RH and 5 mph wind to 2- to 10-inch tall horseweed and 1- to 14-inch tall kochia.

Broadleaf weeds were large and were partially shielded by dense foxtail during application of herbicides. Horseweed control was good (80 to 83%) with Weld at 24 fl oz/A and WideMatch plus MCPA on July 9 (Table). On July 28 (5 weeks after treatment) horseweed control was good to excellent (88 to 99%) with all treatments. Weld at the high rate or Weld plus Interlock provided good (81 to 84%) control of kochia, and control similar to WideMatch plus MCPA on July 28.

Table.

Herbicide		Weed control ¹			
		7/9		7/28	
Treatment ²	Rate/A	horseweed	kochia	horseweed	kochia
fl oz product		%			
Weld	16	75	76	94	69
Weld	16	75	77	88	81
Interlock	4				
Weld	21.3	77	75	94	73
Weld	21.3	78	73	99	83
Interlock	4				
Weld	24	80	78	97	84
WideMatch	21.3	83	83	98	88
MCPA	8				
CV (%)		2.3	6.2	4.1	12.1
LSD (0.05)		4	NS	NS	NS