Evaluation of herbicides for in-season Canada thistle control (2003)

		Wheat		Cath			Yield	Test Wt
Treatment	Rate		Aug 13	Jul 3	Jul 15	Aug 13		g 18
		— % injury —		% control			lb/A	lb/bu
Curtail	2 pt	0	0	88	86	100	39	61.4
Curtail M	1.75 pt	0	0	86	81	96	37	61.1
Bronate ^a	0.8 pt	0	0	24	29	45	37	61.1
Express + 2,4-D Ester + NIS	0.167 oz + 0.75 pt + 0.25% v/v	0	0	71	72	94	36	60.8
Harmony Extra + 2,4-D Ester + NIS	0.3 oz + 0.75 pt + 0.25% v/v	0	0	68	65	98	43	60.7
Clarity + 2,4-D Amine	3 fl oz+ 0.5 pt	0	0	74	71	91	41	60.7
2,4-D Amine	1 pt	0	0	72	69	97	39	61.0
Bronate	1 pt	0	0	23	30	56	37	61.3
Stinger + Starane + MCPA Ester	4 fl oz + 0.5 pt + 0.75 pt	0	0	88	83	100	40	61.5
Stinger + Starane	4 fl oz + 0.5 pt	0	0	86	80	98	39	61.6
Untreated		0	0	0	0	0	37	60.9
LSD (0.05)				5	9	19	NS	NS
		0	0	5	10	16	8	1.1

Mountrail durum was seeded May 21 into 7.5-inch rows at 120 lb/A. Individual plots were 10 x 30 ft and replicated four times. Treatments were applied to 4 to 6-inch Canada thistle (Cath) on June 16.

^aBronate Advanced

None of the treatments caused visible crop injury. Canada thistle densities were quite variable throughout the plot area, but almost all individual plots had at least a few plants present.

In the June and July evaluations, Curtail, Curtail M, and Stinger treatments provided 80-88% Canada thistle control. Express, Harmony Extra, and Clarity combined with 2,4-D or 2,4-D alone provided 65-74% Canada thistle control. Bronate or Bronate Advanced provided poor Canada thistle control (23-30%). At the pre-harvest evaluation in August, all treatments except Bronate or Bronate Advanced provided excellent Canada thistle control. However, this excellent control was influenced significantly by the plants being severely drought stress. We would not typically see this level of control under more favorable growing conditions. There were no significant differences in wheat yield between treatments.