

Weed control in no-till chickpea (Williston-2003)

B-90 chickpeas were seeded May 25. Individual plots were 10 x 30 ft and replicated three times. PRE and POST treatments were applied May 28 and June 16, respectively. The primary weeds evaluated were kochia (Kocz), Russian thistle (Ruth), green foxtail (Grft), and volunteer wheat (Vwht).

Treatment ^a	Rate	Timing	Kocz	Ruth	Grft	Vwht	Yield T. W.	
			————% control ————				Jul 9	Aug 26
Roundup + Spartan/ Select	13 fl oz + 2.67 oz/ 5 fl oz	PRE/ POST	95	100	92	91	1313	62.8
Roundup + Spartan/ Select	13 fl oz + 4 oz/ 5 fl oz	PRE/ POST	95	100	94	90	1353	62.0
Roundup + Spartan/ Select	13 fl oz + 5.33 oz/ 5 fl oz	PRE/ POST	96	100	95	92	1486	63.0
Roundup + Balance + Spartan/ Select	13 fl oz + 2 oz + 4 oz/ 5 fl oz	PRE/ POST	96	100	95	93	1414	62.1
Roundup + Spartan + Sencor/ Select	13 fl oz + 4 oz + 0.25 lb/ 5 fl oz	PRE/ POST	95	100	93	93	1270	63.2
Roundup + Spartan/ Tough + Select	13 fl oz + 4 oz/ 1.5 pt + 5 fl oz	PRE/ POST	92	96	91	94	1517	63.3
Roundup + Spartan/ Sencor + Select	13 fl oz + 4 oz/ 0.167 lb + 5 fl oz	PRE/ POST	95	100	92	92	1084	61.7
Untreated			0	0	0	0	88	54.0
LSD (0.05)			4	2	3	1	222	1.2
CV			2	1	2	3	11	1.1

^aRoundup treatments were Roundup UltraMax applied with AMS at 2.5 gal/100 gal, and Select treatments were applied with COC at 1% v/v.

Herbicide treatments included Spartan alone, Spartan tank mixed with Balance or Sencor, or Spartan followed postemergence by Tough or Sencor. All PRE treatments were tank mixed with Roundup UltraMax. None of the treatments caused visible crop injury. Previous studies have shown Sencor applied postemergence to cause slight to moderate crop injury. Sencor applied postemergence is not a labeled treatment.

All treatments provided excellent control of kochia, Russian thistle, green foxtail, and volunteer wheat.