

Study Name: Weed control in chickpeas

Study Number: 9909

Objectives: Evaluate chickpea tolerance to registered and experimental herbicides

Results: Only Broadstrike + Treflan caused any visible crop injury to the chickpeas. Weed infestation was very erratic, therefore we did not do individual weed ratings. Comments on weed control follow the table.

It appears that chickpeas are sufficiently tolerant to Balance and Spartan that we can pursue registration for these products. In discussions with representatives from Rhone-Poulenc, it was mentioned that they have also seen excellent chickpea tolerance to Balance. The Spartan treatments were also conducted at Carrington and Williston. There was no consistent trend in the effect of the herbicides on chickpea yield. The Frontier yield was lower due to higher kochia pressure in those plots. Disease was present in portions of the plot area.

Table. Weed control in chickpeas

Treatment	Rate	Timing	June 19	August 18	Chickpea	
			% Chickpea Injury	% Chickpea Injury	Yield (lb/A)	Test Weight
Untreated			0	0	871	60.8
Balance	1.25 oz	PRE	0	0	1372	62.0
Balance	2 oz	PRE	0	0	1644	61.0
Spartan	0.125 lb ai	PPI	0	0	1640	61.3
Spartan	0.25 lb ai	PPI	0	0	1292	62.1
Spartan	0.50 lb ai	PPI	0	0	1458	61.4
Spartan	0.125 lb ai	PRE	0	0	950	61.4
Spartan	0.25 lb ai	PRE	0	0	1084	61.8
Spartan	0.50 lb ai	PRE	0	0	1290	61.0
Axiom	15 oz	PRE	0	0	1065	60.7
Valor	1.5 oz ai	PRE	0	0	1195	60.5
Frontier	32 fl oz	PRE	0	0	886	58.6
Sonalan	3 pt	PPI	0	0	1192	61.7
Sencor	0.25 lb ai	PRE	0	0	1037	60.9
Broadstrike + Treflan	2 pt	PPI	8	17	949	60.5
Treflan	1 lb ai	PPI	0	0	1007	62.0
Prowl	3.6 pt	PPI	0	0	1285	61.5
Tough	2 pt	POST 1	0	0	1071	61.8
Tough	2 pt	POST 2	0	0	1094	61.5
Treflan / Tough	0.75 lb ai / 2 pt	PPI / POST 1	0	0	1570	63.2
LSD			0	1	493	1.8
CV			0	77	25	2