

Dry pea tolerance and weed control with Sharpen

'Majoret' dry pea was seeded May 12 at 140 lb/A into 7.5-inch rows into wheat stubble. Herbicides treatments were applied preemergence (PRE) on May 12. Individual plots were 10 x 30 ft and replicated three times. There were very few weeds present at application time. Wild buckwheat was the only broadleaf weed present in significant densities during the season. All treatments received two applications of Select Max for grass control.

The objective of the study was to evaluate residual weed control with Sharpen + Glyphosate compared to Glyphosate alone as well as Aim + Glyphosate. None of the treatments caused visible crop injury. By 16 days after treatment (DAT), wild buckwheat control dropped below 90% for Glyphosate alone and Aim + Glyphosate. By 4 weeks after treatment (WAT), wild buckwheat control dropped below 60% for Glyphosate alone and Aim + Glyphosate, whereas control with treatments containing Sharpen still provided greater than 90% control. By 6 WAT, Sharpen at 25 g provided 83-87% wild buckwheat control compared to 95% with 50 g and 93% where 25 g was tank mixed with Prowl H2O. This study showed that Sharpen can have a residual benefit with adequate soil moisture and rainfall. However, growers should not always expect this type of residual benefit.

Table. Dry pea tolerance and weed control with Sharpen (0939).

Treatment ^a	Rate ^c	Dry pea			Wibw ^b				Dry pea	
		May 28	Jun 13	Jul 01	May 23	May 28	Jun 13	Jul 01	Yield	TW
		-----% injury-----			----- control-----				lb/A	lb/bu
Untreated		0	0	0	0	0	0	0	2742	65.2
Glyphosate + NIS	840 g + 0.25%	0	0	0	93	80	55	48	3335	66.4
Sharpen + Glyphosate + MSO	25 g + 420 g + 1%	0	0	0	99	99	94	83	3510	65.6
Sharpen + Glyphosate + MSO	25 g + 840 g + 1%	0	0	0	99	98	91	87	3745	66.1
Sharpen + Glyphosate + MSO	50 g + 840 g + 1%	0	0	0	100	100	96	95	3923	66.0
Aim EW + Glyphosate + COC	8.33 g + 840 g + 1%	0	0	0	94	89	59	42	3510	65.3
Sharpen + Prowl H2O + Glyphosate + MSO	25 g + 798 g + 840 g + 1%	0	0	0	100	99	95	93	4106	66.4
LSD (0.05)		NS	NS	NS	2.9	6.3	14.4	14.6	478	NS
CV		0	0	0	2	4	12	13	8	1

^aAll treatments were applied PRE; AMS (2%) was applied with each treatment

^bWibw =Wild Buckwheat

^cSharpen at 25 g/ha is equivalent to 1 fl oz/A; Glyphosate at 840 g is equivalent to 0.75 lb ae