

Dry pea tolerance to experimental herbicides

'Majoret' dry pea was seeded May at 140 lb/A into 7.5-inch rows into wheat stubble. Herbicides treatments were applied preemergence (PRE) on May 12. Glyphosate and AMS (0.75 lb ae + 1%) were included with each treatment. Individual plots were 10 x 30 ft and replicated three times.

The objective of the study was to evaluate dry pea response to experimental herbicides applied PRE. As of December 2009, Express, KIH-485, and Valor are not labeled for PRE use in dry pea. Less than 10% crop injury was observed in all treatments 4 weeks after treatment (WAT) and no injury observed at 8 WAT. All treatments provided good to excellent wild buckwheat control except for KIH-485 and Valor (2 oz). Wild buckwheat density was generally low throughout the study area. Dry pea yield and test weight were similar across all herbicide treatments. Yield and test weight in the untreated check were significantly lower than all herbicide treatments.

Table. Dry pea tolerance to experimental herbicides (0917).

Treatment ^a	Rate	Dry pea			Wibw ^b		Dry pea	
		Jun 12	Jul 05	Jul 25	Jun 12	Jul 05	Yield	TW
		-----% injury-----			--% control--		lb/A	lb/bu
Untreated		0	0	0	0	0	2099	62.5
Express + Spartan	0.25 oz + 4.5 fl oz	1	0	0	91	90	3014	65.2
Spartan + Sharpen + MSO + AMS	4.5 fl oz + 1 fl oz + 1% + 2.5%	2	0	0	97	97	2748	65.2
Sharpen + MSO + AMS	4 fl oz + 1% + 2.5%	9	0	0	97	98	2921	65.3
KIH-485	0.15 lb ai	2	0	0	47	43	2829	64.1
KIH-485	0.3 lb ai	4	0	0	70	67	3067	64.9
Valor	2 oz	2	0	0	89	74	2939	64.9
Valor	3 oz	8	0	0	95	83	2988	64.9
Spartan	4.5 fl oz	2	0	0	95	95	2802	65.0
Handweeded ^c		0	0	0	100	100	2725	65.1
LSD (0.05)		3.3	NS	NS	23.8	18.5	476	1.0
CV		2	0	0	14	11	10	1

^a All treatments applied PRE

^b Wibw = Wild buckwheat

^c Prowl H2O was applied PRE to aid handweeding