Faba bean tolerance to PRE and POST herbicides

The objective of the study was to evaluate faba bean tolerance to preemergence (PRE) and postemergence (POST) herbicides. Faba beans were planted May 2. PRE and POST treatments were applied May 4 and June 7, respectively. Faba beans were 4-5 inches tall at the POST application.

Basagran caused only slight crop injury soon after application. Raptor applied alone caused moderate to severe stunting, although plants recovered somewhat over time. In contrast, only slight injury was observed where Raptor was tank mixed with Basagran. Raptor applied alone resulted in reduced crop yield.

Table. Faba bean tolerance to PRE and POST herbicides. (1618)

			Faba bean					
			Injury				Yield	Test wt.
Treatment	Rate	Timing	May-24	Jun-16	Jul-2	Jul-29	Sep-16	Sep-16
			----------%----------				bu/A	lb/bu
Untreated			0	0	0	0	52	65.7
Sharpen	2 oz	PRE	0	5	3	1	51	66.0
Spartan	4 oz	PRE	0	2	2	0	57	65.2
Spartan + Sharpen	4 oz + 1 oz	PRE	0	5	3	1	61	66.2
Authority MTZ	12 oz	PRE	0	3	1	0	58	65.8
BroadAxe	25 oz	PRE	0	9	4	1	48	66.3
Metribuzin	0.5 lb	PRE	0	8	3	1	54	65.8
Prowl H2O	3 pt	PRE	0	0	0	0	54	65.4
Valor	2 oz	PRE	0	3	3	2	60	65.8
Fierce	3 oz	PRE	0	5	2	1	68	66.2
Prowl H2O / Basagran[a]	2 pt / 2 pt	PRE/POST	0	12	8	3	58	65.8
Prowl H2O / Raptor[b]	2 pt / 4 oz	PRE/POST	0	38	60	28	45	66.3
Prowl H2O / Basagran + Raptor[c]	2 pt / 1 pt + 4 oz	PRE/POST	0	12	10	4	58	65.9
Prowl H2O	1.5 pt	PRE	0	0	0	0	58	66.0
LSD (0.05)			NS	5.5	4.7	4.9	11.2	NS
CV			0	44.9	39.7	100	12	0.74

[a] *Applied with COC (1.5 pt)*

[b] *Applied with MSO + 28% N (1.5 pt + 2.5 gal/100 gal)*

[c] *Applied with MSO (1.5 pt)*