

## Faba bean tolerance to preemergence and postemergence herbicides

The objective of this study was to evaluate faba bean tolerance to preemergence and postemergence herbicides. 'Tabasco' faba bean was planted April 29 at 4.5 bu/A into 7.5-inch rows. Preemergence herbicide treatments were applied on May 4. Postemergence treatments were applied June 4 to 3- to 4-inch faba bean. For the PRE herbicides, BroadAxe (Spartan + Dual) caused slight crop injury, but no injury was observed with Spartan, which indicates that the Dual component of BroadAxe may have caused the crop injury. Valor caused slight crop injury ( $\leq 10\%$ ), while Fierce (Valor + Zidua) caused slightly more crop injury (13-18%). For the POST herbicides, Raptor applied alone caused severe crop injury; however, Raptor applied with Basagran or Basagran applied alone caused slight crop injury. Flexstar caused severe crop injury. These products are not currently labeled in the U.S.

Table. Faba bean tolerance to preemergence and postemergence herbicides. (1518)

Treatment	Rate	Timing	Faba bean										
			Density		Injury					Lodging	Yield	Test wt.	
			Jun-1	May-29	Jun-11	Jun-20	Jul-3	Aug-6	Aug-6	Sep-10	Sep-10		
Untreated			m of row	0	0	0	0	0	0	0	30	52	65.1
Sharpen	2 oz	PRE	4.6	0	0	5	5	0	0	0	13	57	64.7
Spartan	4 oz	PRE	4.4	0	0	0	0	0	0	0	43	57	64.6
Spartan + Sharpen	4 oz + 1 oz	PRE	4.2	0	0	4	4	3	28	49	17	56	64.4
Authority MTZ	12 oz	PRE	4.1	0	0	0	1	0	17	56	15	58	65.2
BroadAxe	25 oz	PRE	4.6	0	13	12	13	4	15	58	20	55	64.6
Metribuzin	0.5 lb	PRE	4.6	0	5	4	7	2	20	55	15	54	64.2
Prowl H2O	3 pt	PRE	3.9	0	0	0	0	0	15	54	10	54	65.0
Valor	2 oz	PRE	4.5	0	8	7	9	2	10	54	23	52	63.9
Fierce	3 oz	PRE	5.1	0	16	17	18	13	17	53	7	44	64.8
Prowl H2O / Basagran <sup>a</sup>	2 pt / 2 pt	PRE / POST	4.8	0	11	13	14	3	17	53	7	44	64.8
Prowl H2O / Raptor <sup>b</sup>	2 pt / 4 oz	PRE / POST	4.7	0	35	53	48	38	7	44	20	57	64.7
Prowl H2O / Basagran + Raptor <sup>c</sup>	2 pt / 1 pt + 4 oz	PRE / POST	4.3	0	13	14	13	9	20	57	7	42	64.9
Prowl H2O / Flexstar <sup>d</sup>	2 pt / 0.75 pt	PRE / POST	4.7	0	77	67	60	43	7	42	18	50	64.1
Prowl H2O	1.5 pt	PRE	4.1	0	0	0	0	0	18	50	18.0	9.8	NS
LSD (0.05)			NS	NS	3.2	4.8	6.6	4.7	18.0	9.8	18.0	9.8	NS
CV			14.4	0.0	16.5	21.9	30.9	36.5	56.9	11.1	56.9	11.1	0.78
<sup>a</sup> Applied with COC (1%)													
<sup>b</sup> Applied with 28% N + MSO (2.5 gal/100 + 1%)													
<sup>c</sup> Applied with MSO (1%)													
<sup>d</sup> Applied with AMS (2.5 gal/100 gal)													