

Study Name: Evaluation of dry bean herbicide programs

Study Number: 0532

Objectives:

Results:

'Maverick' pinto beans were seeded May 23 at 120 lb/A into 30-inch rows. Herbicide treatments were applied preplant incorporated (PPI) and preemergence (PRE) on May 23, and postemergence (POST) on June 21 to 2 to 3-trifoliolate dry beans. Individual plots were 10 by 30 ft and replicated three times. At the POST application, kochia was 2-3" tall and 5-15/ft². Redroot pigweed was 1-3" tall and 5-20/ft². Foxtail was 4-8" tall and 10-30/ft².

None of the treatments caused significant crop injury. Initially, all treatments provided good to excellent foxtail control. The tank mix of Rezult + Reflex provided slightly less foxtail control compared to other treatments. In fact, by mid-August it appeared that grass control was 10-30% less in treatments containing Reflex. Treatments containing Rezult provided good to excellent kochia control. Treatments without Rezult did not control kochia. All treatments provided excellent pigweed control with the exception of Rezult applied alone. Although not included in the table below, Rezult also provided good to excellent control of biennial wormwood.

Table. Evaluation of dry bean herbicide programs.

Treatment ^a	Rate	Dry bean			Green foxtail			Kochia			Redrt pigwd		
		Jun 20	Jul 11	Jul 26	Jun 20	Jul 11	Jul 26	Jun 20	Jul 11	Jul 26	Jun 20	Jul 11	Jul 26
		- % injury -			- % control -								
<u>PPI / POST</u>													
Prowl H2O / Rezult + Raptor	3 pt / 3.2 pt + 2 fl oz	0	2	0	98	98	98	95	99	96	99	100	100
Pursuit / Rezult	2 oz / 3.2 pt	0	3	0	96	98	98	96	100	99	100	100	100
<u>PRE / POST</u>													
Pursuit / Rezult	2 oz / 3.2 pt	3	1	0	98	99	98	86	100	97	99	99	100
<u>POST</u>													
Rezult	3.2 pt	--	2	0	--	96	93	--	99	88	--	85	80
Raptor + Basagran + NIS + 28% N	4 oz + 6 oz + 0.25% + 1 qt	--	1	0	--	99	99	--	78	20	--	99	99
Reflex + NIS	12 fl oz + 0.25%	--	1	0	--	0	0	--	92	40	--	68	92
Raptor + Reflex + NIS	4 oz + 8 fl oz + 0.25%	--	2	0	--	89	92	--	73	33	--	100	100
Rezult + Raptor + Reflex	3.2 pt + 2 fl oz + 4 fl oz	--	1	0	--	94	93	--	100	96	--	96	96
Rezult + Reflex	3.2 pt + 8 fl oz	--	4	0	--	87	86	--	100	99	--	100	100
Untreated		0	0	0	0	0	0	0	0	0	0	0	0
LSD (0.05)		NS	NS	NS	2	4	5	10	24	31	2	21	13
CV		327	140	0	1	3	4	7	16	26	1	15	9

^aRezult treatments were applied with COC and 28% N at 1% v/v and 1 qt, respectively.