Study Name: Lentil tolerance to preemergence herbicides

Study Number: 0612

Objectives: Evaluate lentil tolerance to preemergence herbicides

Results:
'Pennell' lentil was seeded on May 8 at 12 plants/ft² into 7.5 inch rows in a no-till system. Herbicide treatments were applied preemergence (PRE) on May 11. Individual plots were 10 x 30 ft and replicated three times. Prowl H2O was applied PRE to all treatments including the handweeded to help control weeds. Atrazine and Express are not labeled for use in lentil.

None of the herbicide treatments reduced crop density at the June 7 evaluation. Only atrazine at the 0.5 and 0.75 lb ai caused more than 10% crop injury. There was no significant difference in yield between treatments; however, there was high variability between replications (CV=20).

			Lentil					
Treatment[a]	Rate	Timing	Jun 7	Jun 10	Jul 8	Aug 3	Yield	Test Wt.
			pl/ft^2	----------% injury ----------			lb/A	lb/bu
Atrazine	0.25 lb ai	PRE	10.4	0	7	7	1679	56.7
Atrazine	0.50 lb ai	PRE	11.5	0	11	12	1743	56.7
Atrazine	0.75 lb ai	PRE	10.7	0	13	15	1830	57.0
Sencor	0.25 lb	PRE	11.9	0	3	3	2079	56.7
Express	0.167 oz	PRE	12.2	3	5	7	2015	56.6
Handweeded			10.9	0	5	5	1792	56.8
Prowl H2O			12.3	0	0	0	1979	55.8
LSD (0.05)			NS	2	4	4	NS	NS
CV			6.9	250	33	28	20	0.8

[a] Prowl H2O was applied PRE to all treatments.