Lentil tolerance to Sharpen applied preemergence

The objective of the study was to evaluate lentil tolerance to Sharpen applied preemergence alone or tank mixed with Prowl H2O. The last treatment in the table below represents a 2X rate for all herbicides. All treatments caused slight to moderate injury at the June and July evaluations. However, by August there was minimal visible injury. Sharpen alone caused only 10% injury or less. Including Prowl in the tank mix resulted in more injury. The 2X treatment caused moderate to severe injury throughout the season.

Table. Lentil tolerance to Sharpen applied preemergence. (1116)

		Lentil		
		Injury		
Treatment[ab]	Rate	29-Jun	16-Jul	4-Aug
		----------%----------		
Glyphosate	22 fl oz	0	0	0
Sharpen + Glyphosate	0.75 fl oz + 22 fl oz	7	2	0
Sharpen + Glyphosate	1 fl oz + 22 fl oz	10	5	0
Sharpen + Glyphosate + Prowl H2O	0.75 fl oz + 22 fl oz + 2 pt	19	13	1
Sharpen + Glyphosate + Prowl H2O	1 fl oz + 22 fl oz + 2 pt	23	16	0
Handweeded + Glyphosate + Prowl H2O	22 fl oz + 1.5 pt	12	8	2
Sharpen + Glyphosate + Prowl H2O[c]	1.5 fl oz + 44 fl oz + 4 pt	55	47	22
Untreated		0	0	0
LSD (0.05)		9	10	4
CV		31	50	74

[a] *Glyphosate applied with AMS (2.5%); Sharpen applied with MSO (1%)*

[b] *All treatments applied PRE*

[c] *All rates in this treatment are 2X*