

Lentil desiccation with Sharpen

The objective of this study was to evaluate lentil desiccation with Sharpen compared to Gramoxone. Treatments were applied on August 13 when about 80% of the lentil pods had turned to a light green or yellow color. Sharpen and glyphosate treatments were applied at 10 gpa, while Gramoxone was applied at 20 gpa. Treatments were evaluated visually for percent desiccation of leaves, vines, and pods at 3, 7, 10, and 14 days after treatment (DAT).

Gramoxone provided much faster desiccation at 3 and 7 DAT. Sharpen + glyphosate tended to provide slightly faster desiccation than either herbicide alone. Desiccation with Sharpen + glyphosate was not equivalent to Gramoxone until at least 10-14 DAT. Surprisingly, desiccation with glyphosate was comparable to Sharpen alone by 10 DAT; high temperatures in the 80s and 90s likely helped glyphosate desiccation.

Table. Lentil desiccation with Sharpen. (1044)

Treatment ^{abc}	Rate	Lentil desiccation (days after treatment)												Yield	TW	
		Leaf				Stem				Pods						Aug 27
		3	7	10	14	3	7	10	14	3	7	10	14			
		-----% desiccation-----								---% green remaining---				lb/A	lb/bu	
Untreated		16	35	63	72	5	18	33	39	38	24	13	8	1734	62.4	
Sharpen	1 oz	35	53	88	94	9	28	49	57	24	4	1	0	2025	62.9	
Sharpen	2 oz	39	54	89	96	10	31	51	60	24	4	0	0	1731	62.4	
Sharpen	4 oz	40	53	89	95	10	31	51	63	24	5	0	0	1894	62.7	
Glyphosate	22 oz	20	58	95	99	5	36	60	74	35	10	0	0	1508	61.9	
Sharpen + Gly	1 oz + 22 oz	35	68	98	99	9	40	65	79	26	2	0	0	1701	62.9	
Gramoxone	1.5 pt	87	98	99	99	33	73	78	81	5	0	0	0	1767	62.6	
LSD (0.05)		7	6	6	5	3	4	7	7	11	11	7	5	NS	0.58	
CV		13	7	5	4	20	8	8	8	29	107	226	279	17	0.62	

^aAll treatments applied pre-harvest Aug 13; Sharpen and Glyphosate applied with MSO (1%) + AMS (5%); Gramoxone applied with NIS (0.25%).

^bGlyphosate=Roundup Powermax

^cGramoxone Inteon applied at 20 gpa; all other treatments applied at 10 gpa.