

Juncea tolerance to spring-applied Sonalan 2006

Juncea was seeded May 12, 2006 at approximately 600,000 seeds/A into 7.5 inch rows in standing stubble. Herbicide treatments were applied preplant on May 6 with granular herbicide spread prior to liquid mixtures. One-half of the treatments were incorporated with a heavy harrow immediately following application, while the other one-half were not mechanically incorporated. No weeds were present at application. Individual plots were 15 x 30 ft and replicated three times.

The objective of the study was to evaluate juncea tolerance to spring-applied Sonalan compared to Pendimax (pendimethalin). No rainfall was received following the May 6 herbicide applications until May 24 when 0.22 inches of precipitation was recorded. Other small rainfall events occurred over the next two weeks, but were not likely enough to fully activate the herbicides. No definitive crop injury was observed throughout the study. There were no differences in plant density, crop yield, or test weight in any of the herbicide treatments.

Treatment ^a	Rate	Juncea				Yield	Test wt.
		Jun 6	Jun 16	Jul 12	Aug 1		
		pl/ft ²	-----% injury-----			lb/A	lb/bu
Not Incorporated							
Untreated		10.4	0	0	0	1779	53.0
Sonalan	7.5 lb	12.4	0	0	0	1755	53.2
Sonalan	10 lb	11.4	0	0	0	1616	53.0
Sonalan	2 pt	12.1	0	0	0	1795	53.3
Sonalan	2.5 pt	10.7	0	0	0	1832	53.5
Pendimax	3 pt	14.2	0	0	0	1545	53.1
Incorporated (Harrow)							
Sonalan	7.5 lb	11.4	0	0	0	1644	53.7
Sonalan	10 lb	10.7	0	0	0	1450	53.4
Sonalan	2 pt	14.1	0	0	0	1706	53.2
Sonalan	2.5 pt	13.2	0	0	0	1703	53.4
Pendimax	3 pt	12.9	0	0	0	1899	53.3
Untreated		11.4	0	0	0	1829	52.9
LSD (0.05)		NS	NS	NS	NS	NS	NS
CV		20.4	0	0	0	15	0.6

^a Treatments were applied 6 days prior to planting.