

Study Name: Juncea tolerance to herbicides (0702)

Objectives: Evaluate Juncea tolerance to soil-applied and postemergence herbicides

Results:

This study was intended to evaluate Juncea tolerance to several soil-applied and postemergence herbicides. The Juncea was planted May 1. Prowl H2O was applied across the entire study area to help control weeds. This was done to help ensure that weed competition would not affect yield data and that we could determine the impact of herbicides only on Juncea yield. However, heavy rain and cold temperatures in May resulted in excessive crop injury and severe stand loss due to Prowl. We determined that the stand loss was too great to still obtain reliable yield data.

However, there was a small area of Juncea that had not been sprayed with Prowl. Unfortunately, there was only enough area for three treatments. We chose to evaluate the effect of Stinger applied at 4-leaf vs. bolting on Juncea yield. There were no conclusive crop injury symptoms visible at any evaluation date. Stinger treatments produced yields that were not statistically different from the untreated; however, we had relatively high plot variability (CV=18.7).

Treatment	Rate	Timing	Juncea				
			-----% injury-----			Yield lb/A	Test wt. lb/bu
			Jun 18	Jul 2	Jul 16		
Untreated			0	0	0	1147	53.3
Stinger	0.25 pt	4-leaf	0	0	0	1033	53.8
Stinger	0.25 pt	Bolting	0	0	0	905	52.0
LSD			NS	NS	NS	NS	NS
CV			0	0	0	18.7	3.9