

Mustard tolerance to herbicides (2003)

Pennant mustard was seeded May 14. Individual plots were 10 x 30 ft and replicated three times. PPI treatments were applied April 29, and the 4-leaf treatments were applied June 5. Assure II was applied over the entire study to control grass weeds on June 9.

Treatment	Rate	Timing	Mustard Injury			Yield	Test Wt
			Jun 12	Jun 19	Jul 14	Aug 7	
			—————% —————			lb/A	lb/bu
Stinger	5.33 fl oz	4-leaf	0	0	0	721	55.7
Muster + NIS	0.3 oz + 0.25% v/v	4-leaf	42	42	14	854	55.1
Muster + Assure II + COC	0.3 oz + 8 fl oz + 1% v/v	4-leaf	62	68	33	690	56.4
Aim + COC	0.5 oz + 1% v/v	4-leaf	52	27	14	833	56.5
Aim + Assure II + COC	0.5 oz + 8 fl oz + 1% v/v	4-leaf	60	33	19	844	56.0
Sonalan	2 pt	PPI	8	3	1	1142	55.9
Sonalan	2.5 pt	PPI	19	12	8	953	56.2
Sonalan	3 pt	PPI	21	13	12	906	56.1
Untreated			0	0	0	898	56.3
LSD (0.05)			9	8	8	NS	NS
CV			18	21	40	20	0.9

Stinger and Sonalan at 2 pt/A were the only treatments that did not cause significant visible mustard injury at the June 12 evaluation. Although mustard treated with Stinger showed the least crop injury all season, it tended to yield low compared to the other treatments, because of the weed spectrum in the plot.