

Study Name: No-till Safflower tolerance to Spartan (0709 – Field S)

Objectives: Evaluate no-till safflower tolerance to Spartan applied preemergence in a sandy loam soil.

Results:

Approximately 13 inches of rain fell in May and June causing very wet soil conditions following the preemergence herbicide applications. Soon after crop emergence, hail and heavy rain caused crop injury as well as reduced and uneven stands. No conclusive crop injury was observed in the study; however, it was difficult to separate hail and water injury from herbicide injury. There was very little injury that was consistent with plot spray patterns. Because of the reduced and uneven stands, the study was not harvested given the likelihood of unreliable data.

Treatment	Rate	Timing	SAFFLOWER		
			-----% injury-----		Height (in)
			Jul 14	Aug 8	
Spartan	1.5fl oz	PRE	0	0	19.6
Spartan	2.25fl oz	PRE	0	0	17.7
Spartan	3fl oz	PRE	0	0	19.9
Spartan	3.75fl oz	PRE	0	0	19.6
Spartan	4.5fl oz	PRE	3	0	19.8
Handweeded check ^a			0	0	20.2
Untreated			0	0	19.6
LSD (0.05)			3.9	0	1.4
CV			458.3	0	4.1

^a Prowl H2O at 2.6 pt was applied PRE to aid hand weeding.