

Efficacy and crop response with Express in SU tolerant sunflower (2003)

The objective of the study was to screen for efficacy and crop response to PRE products followed by applications of Express made to SU tolerant sunflower lines.

Sunflowers treated with Express were very slightly chlorotic 1 week after treatment (WAT). However, the sunflowers had recovered by 4 WAT. All treatments where a PRE or PPI herbicide was applied provided excellent control of the weeds present. However, Express applied without a PRE or PPI treatment provided slightly less redroot pigweed (Rrpw) control.

Table. Efficacy and crop response with Express in SU tolerant sunflower

Treatment	Rate	Timing	Grft		Rrpw		V Wheat		Injury	Yield TW	
			Jul 23	Aug 21	Jul 23	Aug 21	Jul 23	Aug 21	Jul 3	Oct 10	lb/A
			—————% control —————						%	lb/A	lb/bu
Prowl/ Express + Select + COC	2.4 pt/ 0.167 oz + 6 fl oz + 1% v/v	PRE/ 8- 12"	99	99	90	96	99	99	3	1693	32.9
Spartan/ Express + Select + COC	4 oz/ 0.167 oz+ 6 fl oz + 1% v/v	PRE/ 8- 12"	98	99	93	97	99	98	3	1684	33.1
Express + Select + COC	0.167 oz+ 6 fl oz + 1% v/v	8-12"	99	99	82	87	99	99	2	1644	33.0
Sonalan/ Express + Select + COC	2 pt/ 0.167 oz + 6 fl oz + 1% v/v	PPI/ 8- 12"	99	100	98	99	99	100	2	1902	32.7
Spartan/ Express + Assure II + COC	4 oz/ 0.167 oz + 8 fl oz + 1% v/v	PRE/ 8- 12"	96	97	94	97	98	98	3	1711	32.6
Spartan/	4 oz/	PRE/	99	97	98	98	99	99	3	1690	32.8

Express + NIS/ Assure II + COC	0.167 oz + 0.25% v/v/ 8 fl oz + 1% v/v	8-12"/ +3 day								
Sonalan + Spartan/ Select + COC	2 pt + 4 oz/ 6 fl oz + 1% v/v	PPI/ 8- 12"	99	100	94	97	99	100	0	1661 32.6
Spartan/ Express +. Assure II + NIS	4 oz/ 0.33 oz + 10 fl oz + 0.5% v/v	PRE/ 8- 12"	97	99	96	98	99	99	3	1846 32.5
Untreated			0	0	0	0	0	0	0	1679 33.3
LSD (0.05)			2	2	5	3	1	1	1	NS NS
CV			1	1	4	2	0	1	31	12 1