

### Timing of weed control in Clearfield Canola (2001)

Clearfield canola (46A76) was seeded May 4 into 6-inch rows at 700,000 pls/A in a conventional tillage system. Individual plots were 10 x 30 ft and replicated three times. Treatments were applied preplant incorporated (PPI) on May 2, or postemergence on May 25 (0-2 lf), June 2 (3-4 lf), or June 8 (5-6 lf). The primary weeds were green foxtail (Grft) and wild oat (Wioa).

Treatment <sup>a</sup>	Rate	Timing	Jun 26			Aug 14	
			Injury	Grft	Wioa	Yield	Test wt.
			— % —	— % control —		lb/A	lb/bu
Treflan	1.5 pt	PPI	0			2429	50.5
Treflan / Assure II	1.5 pt / 8 fl oz	PPI / 3-4 lf	0	98	97	2173	50.5
Sonalan	2 pt	PPI	0			2281	50.6
Sonalan / Assure II	2 pt / 8 fl oz	PPI / 3-4 lf	0	98	98	2474	50.9
Treflan / Raptor	1.5 pt / 2 fl oz	PPI / 3-4 lf	0	96	93	2339	50.9
Sonalan / Raptor	2 pt / 2 fl oz	PPI / 3-4 lf	0	97	96	2373	50.9
Raptor	2 fl oz	0-2 lf	0	92	90	2425	50.8
Raptor	2 fl oz	3-4 lf	0	92	90	2428	50.7
Raptor	2 fl oz	5-6 lf	0	89	85	2340	50.4
Raptor	4 fl oz	0-2 lf	0	95	94	2366	50.7
Raptor	4 fl oz	3-4 lf	0	95	95	2247	50.8
Raptor	4 fl oz	5-6 lf	0	94	92	2149	50.6
Raptor / Raptor	2 fl oz / 2 fl oz	0-2 lf / 5-6 lf	0	98	98	2392	51.1
Raptor / Raptor	1 fl oz / 1 fl oz	0-2 lf / 5-6 lf	0	96	96	2472	51.0
Weedy check			0	0	0	1856	50.1
LSD			--	4	5	318	NS
CV			0	2	3	8	1.0

<sup>a</sup>All Raptor treatments were applied with 0.25% NIS and 1 qt 28% UAN.

The study area had a very low population of wild oat and a moderate population of green foxtail. All treatments provided good to excellent control of green foxtail and wild oat at any rate or timing. None of the treatments caused visible crop injury. The treatments increased canola yield 200-600 lb/A over the untreated check. The canola crop was very competitive with the weeds, thus allowing even the reduced herbicide rates to be effective. The labeled use rate of Raptor is 4 fl oz/A. Higher weed densities and non-ideal spraying conditions may result in unacceptable weed control from reduced herbicide rates.