Canola systems (2001)

Several varieties of canola (listed in the table below) were seeded May 9 into 6-inch rows at 700,000 pls/A in a conventional tillage system. Individual plots were 15 x 30 ft and replicated four times. Treatments were applied preplant incorporated (PPI) on May 2, or postemergence on May 25 (0-2 lf), June 7 (3-4 lf), or June 12 (5-6 lf). Kochia was the primary weed.

Treatment[a]	Rate	Timing	Kochia control	Yield	Tst wt.
			%	lb/A	lb/bu
HUDSON Treflan	1.5 pt	PPI	80	1891	51.7
HUDSON Treflan / Assure II	1.5 pt / 9 fl oz	PPI / 3-4 lf	75	1722	52.3
HYOLA 401 Treflan	1.5 pt	PPI	83	2154	51.5
HYOLA 401 Treflan / Assure II	1.5 pt / 9 fl oz	PPI / 3-4 lf	78	2233	51.8
LG3295 (RR) Roundup	1 pt	3-4 lf	99	2260	51.7
LG3295 (RR) Roundup / Roundup	1 pt / 1 pt	0-2 lf / 5-6 lf	99	2164	51.7
HYOLA 357 (RR) Roundup	1 pt	3-4 lf	100	2345	51.2
HYOLA 357 (RR) Roundup / Roundup	1 pt / 1 pt	0-2 lf / 5-6 lf	100	2386	51.1
PHOENIX (LL) Liberty	34 fl oz	3-4 lf	98	1838	51.3
INVIGOR 2373 (LL) Liberty	34 fl oz	3-4 lf	99	2159	53.1
45A71 (CC) Raptor	4 fl oz	3-4 lf	70	939	50.6
46A76 (CC) Raptor	4 fl oz	3-4 lf	79	1785	52.1
MINOT RR Roundup	1 pt	3-4 lf	98	2260	52.1
SW RIDER Roundup	1 pt	3-4 lf	99	2388	51.3
SW RIDER Roundup / Roundup	1 pt / 1 pt	0-2 lf / 5-6 lf	100	2238	51.2
LSD			5	291	0.6
CV			4	10	0.8

[a]*Roundup and Liberty treatments were applied with 1% AMS. Raptor was applied with 0.25% NIS and 1 qt 28% N. Assure II was applied with 1% COC.*

Roundup and Liberty effectively controlled kochia with one or two applications. Treflan and Raptor provided only fair kochia control, which contributed to lower canola yields. Hyola 401 yielded 250-500 lb/A higher than Hudson with the same herbicide treatments (Treflan/Assure II). The Clearfield variety, 46A76, yielded almost twice that of 45A71. The LibertyLink hybrid, InVigor 2373, yielded 300 lb/A higher than the open-pollinated variety, Phoenix. The Roundup Ready variety yields were statistically similar.