

Study Name: Wild oat control in Liberty Link canola

Study Number: 9933

Objectives: Compare combinations of soil applied herbicides and Liberty for wild oat control

Results: Due to heavy rains in early May the canola was not seeded until May 18. Flea beetle populations were high and caused significant damage to the canola. We originally planned to apply all postemergence treatments at the same time. However, wild oat pressure was heavy and the plants much larger in the Liberty alone treatments (30 plants/sq ft, 3-4 leaf wild oat) that we decided to apply them earlier than the other treatments. Other plots had about 10 plants per sq ft and wild oat was about 1-leaf on June 5. We treated the remaining plots on June 11 when wild oat were in the 2 to 3-leaf stage. Liberty was more effective on the smaller wild oat compared to the plots where the wild oat density was higher and plants were larger. Increasing the rate of Treflan above 1 pt did not improve weed control or yield. Liberty was more effective on lambsquarters than Treflan or Sonalan.

Table. Wild oat control in Liberty Link canola.

Treatment ^a	Rate	Timing ^b	June 21		July 26		Sept 8
			Wioa	Colq	Wioa	Colq	Yield
			-----Control (%)-----				lb/A
Untreated			0	0	0	0	391
Liberty	28 fl oz	B	76	83	63	75	1215
Liberty	34 fl oz	B	77	85	75	77	1296
Treflan / Liberty	1 pt / 20 fl oz	A / C	91	100	91	93	1401
Treflan / Liberty	1 pt / 28 fl oz	A / C	97	100	96	94	1592
Treflan / Liberty	1 pt / 34 fl oz	A / C	98	100	98	97	1457
Treflan / Liberty	1.5 pt / 20 fl oz	A / C	97	100	95	96	1265
Treflan / Liberty	1.5 pt / 28 fl oz	A / C	100	100	99	98	1426
Treflan / Liberty	1.5 pt / 34 fl oz	A / C	100	100	95	90	1418
Treflan / Liberty	2 pt / 28 fl oz	A / C	98	100	93	90	1325
Treflan / Poast	1.5 pt / 6 fl oz	A / C	99	83	97	67	1246
Sonalan / Liberty	2 pt / 34 fl oz	A / C	100	100	100	97	1344
Sonalan / Poast	2 pt / 6 fl oz	A / C	99	82	100	73	1460
LSD			10	9	11	14	462
CV			7	6	8	11	21

^a All Liberty treatments included AMS (3 lb/A), Poast applied with 2.5% MSO (Dash)

^b A=PPI; B=coty to 2-leaf canola; C=3-leaf canola