Weed control in flax (2002)

Cathay flax was seeded May 15 into 7.5-inch rows at 50 lb/A. Individual plots were 10 x 30 ft and replicated three times. Treatments were applied preemergence (PRE) on May 17 and postemergence (POST) on June 20. The entire plot was treated with Assure II one day prior to the POST broadleaf herbicide application.

			Flax injury			Sep 16		
Treatment	Rate	Timing	Jun 24	Jul 19	Aug 19	Yield	Test Wt	Oil
			——————% ——————			bu/A	lb/bu	%
Untreated			0	0	0	6	51.5	42.6
Bronate Advanced	11.4 pt	POST	9	13	11	8	52.0	43.3
Bronate Advanced + Harmony GT + NIS	11.4 fl oz + 0.25 oz + 0.25% v/v	POST	15	35	21	6	51.7	42.6
Harmony GT + Clarity + NIS	0.25 oz + 2 fl oz + 0.25% v/v	POST	19	50	45	4		42.2
Spartan	2.67 oz	PRE	3	0	0	8	52.0	42.9
Spartan	5.33 oz	PRE	5	1	2	7	52.1	42.9
Spartan	10.67 oz	PRE	12	2	3	7	52.1	43.2
Spartan / Bronate Advanced	2.67 oz / 11.4 fl oz	PRE/ POST	11	8	9	7	52.0	42.8
Aim + NIS	0.33 oz + 0.25% v/v	POST	55	42	37	5	51.6	42.7
Aim + Harmony GT + NIS	0.33 oz + 0.25 oz + 0.25% v/v	POST	60	55	43	4		42.4
Aim + MCPA ester + NIS	0.33 oz + 0.5 pt + 0.25% v/v	POST	72	67	60	4		43.0
LSD (0.05)			5	16	18	2	0.3	0.6
CV			13	37	51	17	0.3	0.8

We evaluated flax tolerance to several registered and non-registered herbicides. Harmony GT, Clarity, and Aim are not registered for use in flax. Spartan was granted a specific exemption (Section 18) for the 2002 growing season. Tank mixes containing Harmony GT, Clarity, or Aim caused moderate to severe flax injury. Bronate Advanced caused slight flax injury. Low or high rates of Spartan caused minimal flax injury. Dry conditions led to low and variable flax yields. Weed pressure was low in this study.