

Study Name: Long-term milkweed control 2002-04

Study Number: 0306

Objectives: Compare Express tank mixes and split applications in-crop with and without a pre-harvest application of Roundup to determine the impact on common milkweed densities the following year.

Results:

The Express tank mixes were applied in June 2002. A visual evaluation of common milkweed control in August 2002 did not provide much useful information. Milkweed control ranged from 50-81%, but was not consistent across the four replications. Milkweed is difficult to control because it emerges at different times throughout the growing season. At the August 2002 evaluation, we observed some dead plants, some sick plants, and many healthy plants. It was not possible to determine whether these live plants were emerged or not at the June 2002 application time.

The most encouraging observations came from the density counts in June 2003. All treatments reduced milkweed densities compared to the initial densities in 2002; however, treatments that received the pre-harvest Roundup application had significantly lower milkweed densities in 2003.

Table. Long-term milkweed control 2002-04

Treatment	Rate	Timing	Common milkweed		
			Control Aug 14 02	Density Jun 7 02 Jun 4 03	
			—% —	— plants/plot —	
Express + 2,4-D	0.33 oz + 0.5 pt	POST	73	56	16
Express + 2,4-D + Banvel	0.33 oz + 0.5 pt + 3 fl oz	POST	74	60	28
Express + 2,4-D + Starane	0.33 oz + 0.5 pt + 0.67 pt	POST	59	98	34
Express + 2,4-D/ Express	0.167 oz + 0.5 pt/ 0.167 oz	POST/ POSTII	61	107	54
Express + Curtail	0.33 oz + 2 pt	POST	64	153	66
Paramount + Curtail	0.25 lb + 2 pt	POST	71	84	49
Express + 2,4-D/ Roundup	0.33 oz + 0.5 pt/ 26 fl oz	POST/ PRE-H	50	154	12
Express + 2,4-D + Banvel/ Roundup	0.33 oz + 0.5 pt + 3 fl oz/ 26 fl oz	POST/ PRE-H	53	60	4
Express + 2,4-D + Starane/ Roundup	0.33 oz + 0.5 pt + 0.67 pt/ 26 fl oz	POST/ PRE-H	79	36	5
Express + 2,4-D/ Express/ Roundup	0.167 oz + 0.5 pt/ 0.167 oz/ 26 fl oz	POST/ POSTII/ PRE-H	68	59	13
Express + Curtail/ Roundup	0.33 oz + 2 pt/ 26 fl oz	POST/ PRE-H	73	75	5
Paramount + Curtail/ Roundup	0.25 lb + 2 pt/ 26 fl oz	POST/ PRE-H	81	61	8
LSD (0.05)			NS	64	29
CV			21	53	82

^aExpress treatments were applied with Quad 7 at 1% v/v, Paramount treatments were applied with MSO at 24 fl oz, and Roundup treatments were Roundup UltraMax applied with AMS at 2.5 gal/100 gal.