

Trial 18

Broadleaf weed control in Wheat

Aim: To determine the most cost effective herbicide in wheat (Meering) to control the most common weeds found in the southern Mallee/northern Wimmera (weeds: hogweed, amsinckia, capeweed, wild poppy, fumitory, turnip, mustard, medic, faba beans, field peas, vetch and lucerne). Each treatment was replicated three times.

Results:

(i) **assessment of weed control** - made during the season, results can be found on the next page

(ii) **crop yield**

	Cost \$/ha	Yield t/ha
Control		1.87
Jaguar 500 ml (no wetter)	10.90	2.04
Diurex 385g (700ml) (no wetter) (pre-em, no later than half leaf)	5.20	2.19
Tigrex 600 (no wetter)	8.85	2.48
Igran 600 ml + MCPA LVE 200 ml (no wetter)	11.80	2.49
Eclipse 5g + MCPA LVE 350 + Lontrel 75ml + wetter 0.1%	12.90	2.27
Buctril MA 1.2 L (no wetter)	14.70	2.03
Diurex 220g (400ml) + MCPA 500 200 ml (no wetter) (2leaf)	4.20	2.23
Jaguar 500 ml + MCPA LVE 350 ml (no wetter)	13.95	2.06
MCPA LVE 500 ml + Lontrel 100 ml (no wetter)	9.40	2.18
Diurex 165g (300ml) + MCPA 500 400 ml (no wetter) (4leaf)	4.70	2.42
Eclipse 5g + Bromicide MA 500 ml + wetter 0.1%	12.20	2.24
Ally 5g + MCPA 500 300 ml + Wetter 0.1%	6.30	2.20
Ally 5g + MCPA LVE 350 ml + Wetter 0.1%	7.60	2.34
Ally 5g + MCPA LVE 350 ml + Lontrel 75ml + wetter 0.1%	11.30	2.02
Eclipse 5g + MCPA LVE 350 + wetter 0.1%	9.10	1.92
Amber Post 250 g + MCPA 500 500 ml (no wetter)	9.50	1.97
Broadstrike 25g + Bromicide MA 700 ml + wetter 0.1%	23.70	2.17
Ally 5g + Tigrex 350 + wetter 0.1%	9.70	2.30
Broadstrike 25g + MCPA LVE 350ml + wetter 0.1%	17.70	2.29
Igran 600 ml + MCPA 500 300ml (no wetter)	13.00	2.03
Ally 5g + Agtryne 1L (no wetter)	14.70	2.21
Broadstrike 25g +Uptake oil 0.5%	15.50	2.54
Buctril MA 1.4 L (no wetter)	18.10	2.27
Eclipse 5g + Igran 350 ml (no wetter)	11.50	2.33
Tigrex 600 Lontrel 75 ml (no wetter)	12.60	2.05
Diurex 110g (200ml) + MCPA 500 600 ml (no wetter) (6leaf)	5.20	1.73
Eclipse 7 g + Uptake oil 0.5%	9.20	2.09
Eclipse 5g + MCPA 500 350 ml + Igran 350 ml (no wetter)	13.60	1.99
Significant difference:		NS

Interpretation: although there were no significant differences between herbicide treatments in wheat yield the control plots yielded the lowest. We found that the treatments which controlled amsinckia the best resulted in the relatively higher yields. Some of the herbicides were not applied at the optimum time, in addition frost may have influenced the efficacy of some products.

Commercial Practice:

Choice of product depends on mix, population and size of weeds, crop safety and growth of the crop.

Assessment made on September 8, 1995 (1 = no effect on weed or crop, 5 = weed or crop dead)

	Hog weed	Fumitory	Faba beans	Amsinckia	Wild turnip	Field peas	Wild poppy	Wild mustard	Vetch	Cape weed	Medic & Lucerne
Jaguar 500 ml (no wetter)	4	4	3	4	5	2	5	5	2	4	2
Diurex 385g (700ml) (no wetter) (pre-em, no later than half leaf)	2	3	2	1	5	1	2	2	1	5	2
Tigrex 600 (no wetter)	4	4	3	4	5	2	5	5	2	4	4
Igran 600 ml + MCPA LVE 200 ml (no wetter)	2	5	4	3	5	2	5	5	2	5	3
Eclipse 5g + MCPA LVE 350 + Lontrel 75ml + Wetter 0.1%	3	3	5	2	5	4	2	5	5	5	5
Buctril MA 1.2 L (no wetter)	5	4	5	3	5	1	3	5	3	4	3
Diurex 220g (400ml) + MCPA 500 200 ml (no wetter) (2leaf)	3	4	5	4	5	1	5	5	3	5	3
Jaguar 500 ml + MCPA LVE 350 ml (no wetter)	4	3	5	3	5	2	5	5	1	4	3
MCPA LVE 500 ml + Lontrel 100 ml (no wetter)	2	4	5	1	5	5	3	5	5	5	5
Diurex 165g (300ml) + MCPA 500 400 ml (no wetter) (4leaf)	3	4	5	1	5	2	5	5	2	3	2
Eclipse 5g + Bromicide MA 500 ml + wetter 0.1%	4	4	4	4	5	4	3	5	4	3	4
Ally 5g + MCPA 500 300 ml + Wetter 0.1%	5	5	4	3	5	5	3	3	2	3	5
Ally 5g + MCPA LVE 350 ml + Wetter 0.1%	5	4	5	4	5	5	4	5	2	5	5
Control	1	1	1	1	1	1	1	1	1	1	1
Ally 5g + MCPA LVE 350 ml + Lontrel 75ml Wetter 0.1%	5	4	5	4	5	5	4	5	5	5	5
Eclipse 5g + MCPA LVE 350 + Wetter 0.1%	3	4	4	3	5	4	2	5	3	5	3
Amber Post 250 g + MCPA 500 500 ml (no wetter)	3	5	4	5	5	3	3	5	3	5	4
Broadstrike 25g + Bromicide MA 700 ml + Wetter 0.1%	5	4	3	5	5	2	5	5	2	4	2
Ally 5g + Tigrex 350 Wetter 0.1%	5	5	4	4	5	5	4	5	2	4	4
Broadstrike 25g + MCPA LVE 350ml + Wetter 0.1%	3	4	3	4	5	1	3	5	2	3	1
Igran 600 ml + MCPA 500 300ml (no wetter)	2	5	4	5	5	1	5	5	2	4	2
Ally 5g + Agtryne 1L (no wetter)	5	5	5	5	5	4	4	5	2	3	4
Broadstrike 25g +Uptake oil 0.5%	3	4	3	4	5	2	2	4	2	2	2
Control	1	1	1	1	1	1	1	1	1	1	1
Buctril MA 1.4 L (no wetter)	5	4	3	4	5	2	4	4	2	2	2
Eclipse 5g + Igran 350 ml (no wetter)	4	5	3	4	5	4	4	4	4	5	3
Tigrex 600 Lontrel 75 ml (no wetter)	5	4	5	5	5	5	5	5	5	5	5
Diurex 110g (200ml) + MCPA 500 600 ml (no wetter) (6leaf)	3	4	4	1	5	1	1	3	1	4	2
Eclipse 7 g + Uptake oil 0.5%	2	3	3	3	4	4	3	3	3	4	3
Eclipse 5g + MCPA 500 350 ml + Igran 350 ml (no wetter)	3	5	4	4	5	3	3	5	3	5	3