

'Balance' on Chickpeas (Aventis)

Aim: To demonstrate the new chickpea herbicide Balance[®] from Aventis for broadleaf weed control.

Background

Aventis CropScience has been developing a PSPE herbicide named Balance for Chickpeas for a number of years and it is due for registration in 2001. It is active on broadleaf weeds including some legumes.

Methods

Management

Variety	Kabuli
Seed Treated	P-pickle T
Sowing	23 June 2000
Sprayed PSPE	4 July 2000 Post Sowing Pre-emergent
Fungicides	Bravo 1L

Results

Weed control, chickpea establishment and yield

Treatment	WIW Plants / m ²	Mustard Plants / m ²	Vetch Plants / m ²	Chickpeas Plants / m ²	Chickpeas Yield t/ha
Control	203	343	39	40	0.03
Balance [®] 100g	0	0	39	49	0.33
Balance [®] 100g + Simazine 1L	0	0	44	39	0.64
Lexone [®] 280g	9.5	9	40	41	0.32

WIW= White Iron Weed (Corn Gromwell)

Interpretation

There was high weed pressure at this site with high numbers of mustard, white iron weed, vetch and wild oats.

Balance[®] has done an excellent job of controlling the broadleaf weeds. Balance controlled the mustard and WIW better than Lexone[®]. The conditions at application were perfect for Lexone and Simazine with a light shower before application and over 10mm soon after application. Rain would also help Balance but it is not as reliant on rainfall at application. There were almost no chickpeas in the untreated section by the end of the year due to weed competition. Few wild oats were found in the control due to competition from other weeds. Balance also suppressed vetch so there was little vetch in the Balance treatments at harvest. Lexone did not control vetch. There was a late germination of wild oats in the plots, Simazine and Lexone had reasonable suppression of wild oats which may be why Balance plus Simazine had a higher yield than Balance on its own. Balance controlled other weeds enabling the wild oats to get established. The wild oats needed to be sprayed a month earlier.

Balance + Simazine showed the most crop damage, reducing the growth for a short period of time and Chickpea establishment was slightly less, however yield was significantly better than any other treatment. Balance turned some of the leaves yellow for a couple of weeks, this was mainly where the seed was shallow sown. Lexone had little crop effect.

For more information contact Alistair Crawford 0427 227 526

Balance[®] is currently pending registration.