Topic: Wild Radish Herbicide Demonstration1

Group: *Morawa 2010*

Abstract

Over the last 3 to 5 years the level of wild radish control has declined for most growers in the Morawa Shire. Most growers are experiencing sub standard levels of wild radish control on some areas of paddocks or a number of paddocks on their farms. The release of new herbicides in the last two years to control wild radish has given growers a wider range of control options. The aim of the demonstration was to determine the level of wild radish control with older, more traditional herbicide mixes against some of the more robust and new herbicides.

The older herbicide mixes of 25g/ha Logran and 25g/ha Logran + 800ml/ha LVE MCPA provided unsatisfactory levels of control whilst the new herbicides Velocity, Precept and the more robust Jaguar mixes provided far greater levels of control. Whilst the Jaguar treatments gave slightly lower levels of control than the Precept or Velocity treatments, Jaguar has a heavier reliance on moisture and good growing conditions for better levels of control. This could explain the slightly lower levels of control with the Jaguar treatments.

Trial Details

Property	Valentine Farming Co, West Morawa.
Soil type	Gravelly loam soil
Crop & Variety	Wheat, Carnamah
Treatments:	1) 25g/ha Logran 2) 25g/ha Logran + 800ml/ha LVE MCPA 3) 800ml/ha LVE MCPA 4) 750ml/ha Tigrex 5) 750ml/ha Jaguar 6) 500ml/ha Jaguar + 400ml/ha LVE MCPA 7) 750ml/ha Precept 300 +0.5% Hasten 8) 670ml/ha Velocity + 0.5% Hasten
Replicates:	3 replicates **Sowing date:** 20/5/2010 **Seeding rate:** 60kg/ha
Fertiliser (kg/ha)	60kg/ha DAP Xtra drilled at seeding, 40kg/ha Urea banded at seeding
Application Details	Treatments applied 26/06/2010, Yellow 02 Flat Fan nozzle, 11km/hr application speed
Paddock rotation	2009 - Pasture, 2008 - Pasture **Growing Season Rain:** May to October 190 mm

Wild Radish density and sizes before application

Wild radish p/m²	24 m²			COTYLEDON	0%
8L	5%	6L	25%	5L	23%
5L	23%	4L	27%	2L	20%

Results

Wild radish control assessments 11th July

Treatment	Rep 1	Rep 2	Rep 3	Average
Untreated	0%	0%	0%	**0%**
Logran	30%	20%	0%	**17%**
Logran + LVE MCPA	40%	30%	0%	**23%**
LVE MCPA	45%	20%	0%	**22%**
Tigrex	75%	75%	70%	**73%**
Jaguar	85%	85%	85%	**85%**
Jaguar + LVE MCPA	0%	80%	80%	**53%**
Precept 300	70%	85%	85%	**80%**
Velocity	90%	90%	95%	**92%**
Velocity + LVE MCPA	90%	95%	90%	**92%**

Wild radish control assessments 28th September

Treatment	Rep 1	Rep 2	Rep 3	Average
Untreated	0%	0%	0%	**0%**
Logran	50%	45%	0%	**48%**
Logran + LVE MCPA	45%	60%	0%	**53%**
LVE MCPA	55%	40%	0%	**48%**
Tigrex	70%	85%	95%	**83%**
Jaguar	10%	40%	70%	**40%**
Jaguar + LVE MCPA	65%	75%	85%	**75%**
Precept 300	95%	95%	99%	**96%**
Velocity	99%	95%	99%	**98%**
Velocity + LVE MCPA	99%	99%	99%	**99%**

Illustrations

Photos taken 20th July, 2010

Picture 1: Control treatment. You can clearly see the density and size of the untreated wild radish plants.

Picture 2: 670ml/ha Velocity + 0.5% Hasten. Clearly demonstrates the better control. Notice the necrotic wild radish plant.

Picture 3: 25g/ha Logran + 800ml/ha LVE MCPA. Other than discoloration the wild radish size and density looks the same as the control

Technical Support

Simon Teakle – Full Flag Agronomics,

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Bayer Crop Science for the herbicides and boom to spray the trial.
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