1988

Metribuzin tolerance of Blade wheat

D Bowran

Trial title:	Metribuzin tolerance of Blade wheat			
Trial number:	88EC29			
Officers:	D. Bowran, R, Watson			
Co-operator:			Location:	E.C.R.S.
Crop(s):	Blade wheat		Date sown:	8/6/88
			Fertilizer:	100 kg/ha Agras No.1
Soil type:	Eradu yellow sand			
Ground preparation:	Nil			
Experiment design:			Seeding rate:	50 kg/ha
Plot size:	5 m x 10 m			
Harvesting:	1.4 m x 8.5 m			
Spraying details:				
Spraying date:	8/6/88	7/7/88		
Crop stage:	IBS/IAS	Z13.5-14		
Nozzle type:	80015LP	11015LP		
Volume (L/ha):	55.3	72		
Pressure (Kpa):	150	-		
Temperatures (°C):				
(a) wet/dry	16/17	14.5/19.5		
(b) previous 24 h (min/max)	12.5 to 20.5	11.0 to 20.0		
(c) next 24 h (min/max)	13.5 to 21.5	12.0 to 21.0		
Rainfall (mm):				
(a) previous 24 h	3	3		
(b) next 24 h	3	5		

May -	June -	July -	Aug -	Sept -	Oct -
138.6	72.4	121.6	68.4	23.0	10.4

Weeds: Nil.

(i) Trial No. 88EC29

Herbicide	Rate (/ha)	Timing IBS	Timing IAS	Timing Z12-13
Lexone	133 g	86*	96	94
	200 g	74**	92	92
	266 g	70**	79**	90
	400 g	58**	92	88
Lexone	200 g +			
	Stomp 1.5L	78 **		
	Treflan 1.0 L	64**		
	Glean 15 g	76**		
	Logran 36 g	98		
	Avadex 2.0 L	84**		
Lexone	200 g +			
	Hoegrass 1.0 L			90
	Ally 5 g			105
	Glean 15 g			189
	Brodal 100 mL			91
	Brominil 1.5 L			99
	Igran 850 mL			100
Untreated yield (t/ha) = 2.13				

Comments

This site was seeded with a culti-trash seeder which sowed the crop greater than 10 cm deep. Due to the inversion of metribuzin treated soil onto the seed, the deep seeding and short coleoptile of Blade, all IBS treatments were reduced in yield with the exception of Lexone + Logran. The IAS (applied immediately after seeding) and Z12-13 treatments were well tolerated by Blade.

Trial title:	Metribuzin tolerance of Blade wheat			
Trial number:	88WH69			
Officers:	D. Bowran			
Co-operator:			Location:	WHRS
Crop(s):	Blade wheat		Date sown:	15/6/88
			Fertilizer:	100 kg/ha Agras No.1
Soil type:	Wongan loamy sand			
Ground preparation:				
Experiment design:			Seeding rate:	50 kg/ha
Plot size:	5 m x 10 m			
Harvesting:	1.4 m x 8 m			
Spraying details:				
Spraying date:	15/6/88	15/7/88		
Crop stage:	IBS/IAS	Z13-14		
Nozzle type:				
Volume (L/ha):				
Pressure (Kpa):				
Temperatures (°C):				
(a) wet/dry				
(b) previous 24 h (min/max)		9.3/16.2		
(c) next 24 h (min/max)		7.8/15.0		
Rainfall (mm):				
(a) previous 24 h		0.8 mm		
(b) next 24 h		nil		

May -	June -	July -	Aug -	Sept -	Oct -
		69	65	23	18

Weeds: Few capeweed.

(ii) Trial No. 88WH69

Herbicide	Rate (/ha)	Timing IBS	Timing IAS	Timing Z12-13
Lexone	133 g	99	114	119
	200 g	103	115	98
	266 g	106	101	92
	400 g	95	82**	68**
Lexone	200 g +			
	Stomp 1.5L	112		
	Treflan 1.0 L	105		
	Glean 15 g	106		
	Logran 36 t	110		
	Avadex 2.0 L	95		
Lexone	200 g +			
	Hoegrass 1.0 L			94
	Ally 5 g			99
	Glean 15 g			104
	Brodal 100 mL			109
	Brominil 1.5 L			96
	Igran 850 mL			99
Untreated yield (t/ha) = 2.23				

Comments

Blade showed good tolerance to metribuzin at this site and it was only at the 400 g of the Lexone/ha rate that yield reductions were obtained with the IAS and Z12-13 treatments. The combinations of Lexone with other herbicides were also well tolerated though some crop effects were evident with the Hoegrass, Brominil and Igram combinations after application.

Trial title:	Metribuzin tolerance of Blade wheat			
Trial number:	88N74			
Officers:	D. Bowran			
Co-operator:			Location:	N.R.S.
Crop(s):	Blade wheat		Date sown:	21/6/88
			Fertilizer:	100 kg/ha Agras No.1
Soil type:	Sandy gravel/clay, rock			
Ground preparation:	Cultivated, 1.0 L Sprayseed prior to seeding			
Experiment design:			Seeding rate:	50 kg/ha
Plot size:	5 m x 10 m			
Harvesting:	1.4 x 8.5			
Spraying details:				
Spraying date:	21/6/88	19/7/88		
Crop stage:	IBS, IAS	Z12-13		
Nozzle type:	11015LP	11015VB		
Volume (L/ha):	51	51		
Pressure (Kpa):	240	240		
Temperatures (°C):				
(a) wet/dry	12.5/4	12./14		
(b) previous 24 h (min/max)				
(c) next 24 h (min/max)				
Rainfall (mm):				
(a) previous 24 h	nil	nil		
(b) next 24 h	nil	nil		

May -	June -	July -	Aug -	Sept -	Oct -
86.0	79.7	54.4	40.8	41.0	8.6

Weeds: Nil.

(i) Trial No. 88N74

Herbicide	Rate (/ha)	Timing IBS	Timing IAS	Timing Z12-13
Lexone	133 g	111	103	100
	200 g	104	110	87*
	266 g	113	105	77**
	400 g	110	102	62**
Lexone	200 g +			
	Stomp 1.5L	107		
	Treflan 1.0 L	104		
	Glean 15 g	104		
	Logran 36 t	106		
	Avadex 2.0 L	110		
Lexone	200 g +			
	Hoegrass 1.0 L			82**
	Ally 5 g			72**
	Glean 15 g			95
	Brodal 100 mL			91
	Brominil 1.5 L			84**
	Igran 850 mL			67**
Untreated yield (t/ha) = 1.38				

Comments

Blade wheat tolerance to metribuzin was good both IBS and IAS, but decreased with increasing rate of Lexone at the Z12-13 timing. The combinations of Lexone with other herbicides showed that Blade had adequate tolerance with IBS combinations, but with post-emergent combinations only Glean and Brodal showed adequate tolerance.