

Disclaimer:

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Knockdown Control of Wild Oats in Chickpeas

Trial ID: LB1807	Location: Mt Tyson	Trial Year: 2018
Investigator:	Linda Bailey	

Objective:	To evaluate strategies for selective spray top management of wild oats in Chickpea		
Situation:	Chickpeas cv. Kyabra		
Planting Date:	8/06/2018		
Row Spacing:	32cm		
Application Code:	A	B	C
Application Date:	30/8/2018	20/9/2018	10/9/2018
Application Timing:	Early Post Emergent	Early Post Emergent	Late Post Emergent
Weed Stage at Application (Wild Oats):	GS24 - 4 Tillers	GS31 - 1 st Node	GS39 – Flag Leaf fully emerged
Weed Stage at Application (Phalaris):	GS24 - 4 Tillers	GS31 - 1 st Node	GS39 – Flag Leaf fully emerged
Crop Stage at Application:	6-10 Node	6-10 Node	Flowering
Keywords:	Wild oats, knockdown, chickpea		

NB: No useful data was obtained from this trial re: selective spray topping of wild oats

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Pest Scientific Name Pest Name Assessment Date Assessment Type Assessment Unit Treatment-Evaluation Interval ARM Action Codes				<i>Avena spp</i> Wild Oats 13/09/018 BURNDOWN % 14 DAA	<i>Phalaris paradoxa</i> Phalaris 10/11/2018 COUNT /m ² 72 DAA AA T1	<i>Avena spp</i> Wild Oats 10/11/2018 COUNT /m ² 72 DAA AA T2
Trt No.	Treatment	Product Rate	Appln. Code			
1	Status Liasé Uptake	500ml/ha 1% v/v 0.5% v/v	A	95.0a	0.06b	0.02-
2	Status Verdict 520 Liasé Uptake	500ml/ha 100ml/ha 1% v/v 0.5% v/v	A	95.0a	0.10b	0.01-
3	Oat Master Uptake	1250ml/ha 0.5% v/v	A	0.0b	1.53a	0.00-
4	Oat Master Uptake	1875ml/ha 0.5% v/v	A	0.0b	1.71a	0.04-
5	Oat Master Uptake	1250ml/ha 0.5% v/v	B		1.26a	0.02-
6	Oat Master Uptake	1875ml/ha 0.5% v/v	B		1.39a	0.05-
7	Oat Master Uptake	1250ml/ha 0.5% v/v	C		1.95a	0.06-
8	Oat Master Uptake	1875ml/ha 0.5% v/v	C		1.26a	0.02-
9	Status Liasé Uptake Oat Master Uptake	500ml/ha 1% v/v 0.5% v/v 1875ml/ha 0.5% v/v	A A A B B	95.0a	0.26b	0.00-
10	Status Verdict 520 Liasé Uptake Oat Master Uptake	500ml/ha 100ml/ha 1% v/v 0.5% v/v 1875ml/ha 0.5% v/v	A A A A B B	95.0a	0.16b	0.00-
11	Status Liasé Uptake Oat Master Uptake	500ml/ha 1% v/v 0.5% v/v 1875ml/ha 0.5% v/v	A A A C C	95.0a	0.03b	0.00-
12	Status Verdict 520 Liasé Uptake Oat Master Uptake	500ml/ha 100ml/ha 1% v/v 0.5% v/v 1875ml/ha 0.5% v/v	A A A A C C	95.0a	0.07b	0.00-
LSD P=.05				0.00	2.361t	1.606t
Treatment Prob.(F)=				1.0000	0.0001	0.7002

Means followed by same letter do not significantly differ (P=.05, LSD)

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P (F) is significant at mean comparison OSL.

Knockdown Control of Wild Oats in Chickpeas

Trial ID: LB1807 **Location:** Mt Tyson **Trial Year:** 2018

Assessment Type

BURNDOWN = % Burndown/brown out

Pest Stage Majority

65 = Full flowering: 50% of flowers open, first petals may be fallen

ARM Action Codes

AA = Automatic arcsine square root % transformation

T1 = Arcsine square root percent ([4])

T2 = Arcsine square root percent ([6])

DAA = Days after Application

Conclusions:

This trial was established to evaluate the efficacy of Oat Master, alone or following early post-emergent herbicide application. The first application timing was on a mixed phalaris and wild oats population of ~4/m² at ~GS24 (~90% at 10 cm diameter). At the second and third application timings, the grasses were at ~GS31 and ~GS39 respectively.

Burndown for the first application timing was assessed at 14 days after application. High levels of burndown (~95%) were evident from all treatments including Status or Status + Verdict with no significant differences between treatments. There was no obvious burndown from Oat Master Treatments.

Final weed counts were conducted ~5 weeks after the third application. The wild oats population was very low with no sound data generated. All treatments that included Status or Status + Verdict provided good levels of control of phalaris with no activity evident from Oat Master.

Unfortunately this trial did not provide any data on the original objective.

Knockdown Control of Wild Oats in Chickpeas

Trial ID: LB1807

Location:

Mt Tyson

Trial Year:

2018

Application Description			
	A	B	C
Application Date:	30/08/2018	20/08/2018	9/10/2018
Application Start Time:	1:30 PM	11:00 AM	11:00 AM
Application Stop Time:	1:50 PM	11:25 AM	11:24 AM
Application Method:	SPRAY		
Application Timing:	EARLY POST-EM	EARLY POST-EM	LATE POST-EM
Application Placement:	FOLIAR		
Air Temperature, Unit:	26 C	26 C	16 C
% Relative Humidity:	23	27	53
Wind Velocity, Unit:	4 km/h	10 km/h	9 km/h
Wind Direction:	NE	SW	NW
Dew Presence (Y/N):	No		
Soil Moisture:	DRY	DRY	DAMP
% Cloud Cover:	0	5	90
Next Moisture Occurred On:	1/09/2018	4/10/2018	12/10/2018

Crop Stage at Each Application			
	A	B	C
Crop:	Chickpea		
Stage Scale Used:	GRDC		
Stage Majority, %:	06 V6-10 6-10 Node	06 V6-10 6-10 Node	10 R3 Flowering
Height, Unit:	10 cm	10 cm	10 cm

Pest Stage at Each Application			
	A	B	C
Pest 1:	<i>Avena spp</i> – Wild Oats		
Stage Majority, %:	GS24 90 %	GS31 90 %	GS39 90%
Stage Minimum, %:	GS14 5 %	GS29 5 %	GS37 5 %
Stage Maximum, %:	GS26 5 %	GS32 5 %	GS43 5 %
Diameter, Unit:	10 cm	15 cm	20 cm
Pest 2:	<i>Phalaris paradoxa</i> - Phalaris		
Stage Majority, %:	GS24 90 %	GS31 90 %	GS39 90%
Stage Minimum, %:	GS14 5 %	GS29 5 %	GS37 5 %
Stage Maximum, %:	GS26 5 %	GS32 5 %	GS43 5 %
Diameter, Unit:	10 cm	15 cm	25 cm
Density, Unit:	3.8 m ²		

Application Equipment			
	A	B	C
Operation Pressure, Unit:	350 kPa		
Nozzle Type:	AIXR		
Nozzle Size:	110015		
Nozzle Spacing, Unit:	50 cm		
Boom Length, Unit:	4 m		
Boom Height, Unit:	65 cm	65 cm	70 cm
Ground Speed, Unit:	10.3 km/h		
Carrier:	Water		
Spray Volume, Unit:	70 L/ha		