

Disclaimer:

This document is based on the results from an individual trial and may contain experimental use patterns that are currently off-label. **This document does not provide any interpretation and should not be taken as an endorsement of any unregistered use pattern.**

Professional advice should be sought for specific recommendations to ensure access to the most up to date information and knowledge.

Any product referred to in this document must be used strictly as directed, and in accordance with all label or permit instructions. Always consult the label prior to use.

Aphid Management in Barley

Trial ID: NGA0808

Location:

Bullarah

Year

2008

Investigator:

Clare Felton-Taylor

Objective:	To evaluate the impact and control of aphids in barley	
Planting Date:	12/06/2008	
Harvest Date:	12/11/2008	
Fungicide Seed Treatment:	triadimenol at 22.5 g ai/100 kg seed on all treatments (using Baytan T 150 mL or Zorro 400 mL)	
Foliar Treatment:	Dimethoate 400 at 500 mL/ha	
Foliar Timing:	T1	T2
Foliar Treatment Date:	25/08/2008	17/09/2008
Crop Growth Stage:	GS32	GS39 - 49
Keywords:	Aphids, barley	

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Trt No	Variety	Seed Treatment Insecticide /100 kg Seed	Foliar Insecticide /ha	Emergence 1/07/2008 19 DAP Plants/m ²
1	Fitzroy	-	-	78
2	Fitzroy	imidacloprid 72 g ai	-	78
3	Fitzroy	-	Dimethoate 500 mL (T2)	92
4	Fitzroy	-	Dimethoate 500 mL (T1)	70
5	Grout	-	-	66
6	Grout	imidacloprid 72 g ai	-	71
7	Grout	-	Dimethoate 500 mL (T2)	66
8	Grout	-	Dimethoate 500 mL (T1)	66
9	Gairdner	-	-	67
10	Gairdner	imidacloprid 72 g ai	-	78
11	Gairdner	-	Dimethoate 500 mL (T2)	68
12	Gairdner	-	Dimethoate 500 mL (T1)	70
P =				0.46
LSD =				nsd

nsd = No significant difference

DAP = Days after Planting, DAT1 – Days after Timing 1

Aphid Incidence and Severity Levels Pre (70 DAP) and Post 1st Spray (84 DAP)

Trt No.	Variety	Seed Treatment Insecticide /100 kg Seed	Foliar Insecticide /ha	21/08/2008 70 DAP % Plants Infested	21/08/2008 70 DAP Aphids/Plant	4/09/2008 84 DAP/ 10 DAT1 % Infested	4/09/2008 84 DAP/ 10 DAT1 Aphids/Plant
1	Fitzroy	-	-	23a	4.5a	100a	35.3
2	Fitzroy	imidacloprid 72 g ai	-	5bc	0.1b	100a	22.0
3	Fitzroy	-	Dimethoate 500 mL (T2)				
4	Fitzroy	-	Dimethoate 500 mL (T1)			100a	28.9
5	Grout	-	-	20ab	3.0ab	100a	40.0
6	Grout	imidacloprid 72 g ai	-	5bc	0.4b	100a	18.2
7	Grout	-	Dimethoate 500 mL (T2)				
8	Grout	-	Dimethoate 500 mL (T1)			100a	24.8
9	Gairdner	-	-	18ab	5.4a	93ab	39.1
10	Gairdner	imidacloprid 72 g ai	-	0c	0.0b	100a	11.7
11	Gairdner	-	Dimethoate 500 mL (T2)				
12	Gairdner	-	Dimethoate 500 mL (T1)			87b	8.3
P =				0.05	0.02	0.06	0.14
LSD =				16.6	3.6	7.5 (p=10%)	nsd

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Aphid Incidence and Severity Levels Pre (97 DAP) and Post 2nd Spray (105 DAP)

Trt No.	Variety	Seed Treatment Insecticide /100 kg Seed	Foliar Insecticide /ha	17/09/2008 97 DAP % Tillers Infested	17/09/2008 97 DAP Aphids/Tiller	25/09/2008 105 DAP/ 8 DAT2 % Tillers Infested	25/09/2008 105 DAP/ 8 DAT2 Aphids/Tiller
1	Fitzroy	-	-	100	100a	100a	82a
2	Fitzroy	imidacloprid 72 g ai	-	100	31b	100a	47b
3	Fitzroy	-	Dimethoate 500 mL (T2)			98a	11c
4	Fitzroy	-	Dimethoate 500 mL (T1)			100a	66ab
5	Grout	-	-	100	76a	100a	69ab
6	Grout	imidacloprid 72 g ai	-	100	19b	100a	44b
7	Grout	-	Dimethoate 500 mL (T2)			93b	9c
8	Grout	-	Dimethoate 500 mL (T1)			100a	60ab
9	Gairdner	-	-	100	79a	100a	84a
10	Gairdner	imidacloprid 72 g ai	-	100	23b	100a	65ab
11	Gairdner	-	Dimethoate 500 mL (T2)			100a	12c
12	Gairdner	-	Dimethoate 500 mL (T1)			100a	78a
P =				NA	0.00	0.04	0.00
LSD =					Log detransf	4.3	Arcsin detransf

DAP = Days after Planting, DAT2 – Days after Timing 2

Trt No.	Variety	Seed Treatment Insecticide /100 kg Seed	Foliar Insecticide /ha	Yield t/ha	Screenings %	% Retention > 2.5 mm	Test Weight kg/hL	Protein %
1	Fitzroy	-	-	2.33 d	10.8 a	52fg	65c	12.2d
2	Fitzroy	imidacloprid 72 g ai	-	2.59 bcd	13.0 a	48g	63d	12.3d
3	Fitzroy	-	Dimethoate 500 mL (T2)	2.97 ab	4.6 d	74c	65c	12.6cd
4	Fitzroy	-	Dimethoate 500 mL (T1)	2.40 d	8.0 b	60de	65c	12.3d
5	Grout	-	-	2.92 abc	3.2 e	77bc	69a	12.6cd
6	Grout	imidacloprid 72 g ai	-	3.16 a	3.1 e	80b	69a	13.0bc
7	Grout	-	Dimethoate 500 mL (T2)	3.07 a	1.8 f	86a	70a	13.5a
8	Grout	-	Dimethoate 500 mL (T1)	3.02 a	2.9 e	80b	69a	12.6cd
9	Gairdner	-	-	2.27 d	6.7 bc	58def	69a	13.6a
10	Gairdner	imidacloprid 72 g ai	-	2.97 ab	12.1 a	40h	67b	12.9bc
11	Gairdner	-	Dimethoate 500 mL (T2)	2.98 a	5.1 cd	63d	69a	13.7a
12	Gairdner	-	Dimethoate 500 mL (T1)	2.57 cd	6.7 bc	55ef	69a	13.4ab
P =				0.00	0.00	0.00	0.00	0.00
LSD =				0.37	Log detransf	Arcsin detransf	1.2	0.5