

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: NGA0810

Location:

Gilgandra

Year

2008

Investigator:

Clare Felton-Taylor

Objective:	To evaluate the impact and control of aphids in barley
Planting Date:	24/06/2008
Harvest Date:	14/11/2008
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 Treatments:	Dimethoate 400 at 500 mL/ha, Pirimor WG 300 mL/ha
Foliar Timing:	T1
Foliar Treatment Date:	9/10/2008
Growth Stage:	GS54
Keywords:	Aphids, Barley

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Trt No.	Variety	Seed Treatment Insecticide /100 kg Seed	Foliar Insecticide /ha	Emergence 14/07/2008 20 DAP Plants/m ²
1	Fitzroy	-	-	45abc
2	Fitzroy	imidacloprid 72 g ai	-	49abc
3	Fitzroy	-	Pirimior WG 300 mL	43bc
4	Fitzroy	-	Dimethoate 500 mL	39c
5	Grout	-	-	43bc
6	Grout	imidacloprid 72 g ai	-	46abc
7	Grout	-	Pirimior WG 300 mL	41c
8	Grout	-	Dimethoate 500 mL	42bc
9	Gairdner	-	-	55a
10	Gairdner	imidacloprid 72 g ai	-	54a
11	Gairdner	-	Pirimior WG 300 mL	41c
12	Gairdner	-	Dimethoate 500 mL	52ab
P =				0.04
LSD =				10.2

Aphid Severity Levels Pre (107 DAP) and Post Foliar Spray (115 DAP)

Trt No.	Variety	Seed Treatment Insecticide /100 kg Seed	Foliar Insecticide /ha	9/10/2008 107 DAP Aphids/Tiller	17/10/2008 115 DAP/ 8 DAT1 % Plants Infested	17/10/2008 115 DAP/ 8 DAT1 Aphids/Tiller
1	Fitzroy	-	-	31	83abc	3.8cde
2	Fitzroy	imidacloprid 72 g ai	-	66	98abc	14.5a
3	Fitzroy	-	Pirimior WG 300 mL		88ab	5.8bc
4	Fitzroy	-	Dimethoate 500 mL		85abc	6.1bc
5	Grout	-	-	31	73bc	3.7cde
6	Grout	imidacloprid 72 g ai	-	40	88ab	5.2c
7	Grout	-	Pirimior WG 300 mL		50d	2.8e
8	Grout	-	Dimethoate 500 mL		65cd	1.8de
9	Gairdner	-	-	45	83abc	3.8cde
10	Gairdner	imidacloprid 72 g ai	-	69	90ab	11.3ab
11	Gairdner	-	Pirimior WG 300 mL		65cd	2.0de
12	Gairdner	-	Dimethoate 500 mL		80abc	4.1cd
P =				0.09	0.01	0.00
LSD =				nsd	22.4	Log detransf

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

nsd = no significant difference

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Trt No.	Variety	Seed Treatment Insecticide /100 kg Seed	Foliar Insecticide /ha	Yield t/ha	Screenings %	% Retention >2.5	Test Weight kg/hL	Protein %
1	Fitzroy	-	-	2.69bcde	3.6 abc	79 cd	70.5 d	12.2b
2	Fitzroy	imidacloprid 72 g ai	-	2.89bcde	4.3 abc	77 d	70.0 d	12.6b
3	Fitzroy	-	Pirimior WG 300 mL	2.50de	3.3 bc	82 bc	70.8 d	12.5b
4	Fitzroy	-	Dimethoate 500 mL	2.58cde	3.7 c	79 cd	71.3 d	12.4b
5	Grout	-	-	3.02ab	2.7 bc	82 bc	73.3 ab	12.1b
6	Grout	imidacloprid 72 g ai	-	3.34a	2.2 abc	85 a	73.0 ab	12.6b
7	Grout	-	Pirimior WG 300 mL	2.82bcd	2.6 c	81 bc	73.5 ab	12.5b
8	Grout	-	Dimethoate 500 mL	2.81bcd	2.3 bc	84 ab	72.5 abc	12.2b
9	Gairdner	-	-	2.67cde	3.7 a	69 e	73.3 ab	13.3a
10	Gairdner	imidacloprid 72 g ai	-	2.87bc	5.5 a	63 f	72.3 bc	13.3a
11	Gairdner	-	Pirimior WG 300 mL	2.42e	2.9 c	72 e	73.0 ab	13.2a
12	Gairdner	-	Dimethoate 500 mL	2.59cde	3.1 ab	70 e	73.8 a	13.4a
P =				0.00	0.00	0.00	0.00	0.00
LSD =				0.34	Log detransf	3.2	1.35	0.56

Yield cv = 8.5%