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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 Cereals

Trial ID: AM0907

Location:

Lundavra

Trial Year: 2009

Investigator:

Anthony Mitchell

Objective:	To evaluate the impact and control of aphids in winter cereals
Planting Date:	3/06/2009
Fungicide Seed Treatment:	Equivalent fungicide treatment on all seed: Barley: triadimenol 22.5 g ai/100 kg seed, Bread and durum wheat: tebuconazole 2.5 g ai/ 100 kg seed
Insecticide Seed Treatment:	Imidacloprid at 72 or 144 g ai/100 kg seed
Foliar Insecticide Application:	Pirimor 150 g/ha on 20/08/2009 (~ GS32 crop stage)
Keywords:	Aphid, wheat, barley, durum

No yields or grain quality presented due to contract harvest issues.

Table 1: Aphid Counts 34 DAP

Trt No.	Crop & Variety	Seed Treatment Insecticide/ 100 kg Seed	20/07/2009 47 DAP	
			Oat Aphids/Plant	% of Plants with Aphids
1	Barley cv. Fitzroy	-	9.5	90
2	Barley cv. Fitzroy	Imidacloprid 72 g ai	2.6	67
3	Barley cv. Fitzroy	Imidacloprid 144 g ai		
6	Wheat cv. Livingston	-	8.4	80
7	Wheat cv. Livingston	Imidacloprid 72 g ai	3.9	77
8	Wheat cv. Livingston	Imidacloprid 144 g ai		
11	Durum cv. Bellaroi	-	7.4	67
12	Durum cv. Bellaroi	Imidacloprid 72 g ai	1.9	47
13	Durum cv. Bellaroi	Imidacloprid 144 g ai		
P =			Not analysed	Not analysed
LSD =			Not analysed	Not analysed

Comments:

Treatments 4,5,9,10,14 & 15 omitted from table. These treatments evaluated Pirimor alone or applied following insecticide seed treatment. Pirimor applications were not applied until the 20/8/2009 with no aphids found in any plots post application timing.

DAP = Days after Planting

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Location:

Lundavra

Trial Year: 2009

Table 2: Aphid Counts 62 DAP

Trt No.	Crop & Variety	Seed Treatment Insecticide/ 100 kg Seed	4/08/2009 62 DAP		
			Oat Aphids/Tiller	Corn Aphids/Tiller	% of Tillers with Aphids
1	Barley cv. Fitzroy	-	16.8a	0.7	100
2	Barley cv. Fitzroy	Imidacloprid 72 g ai	6.9b	0.4	97
3	Barley cv. Fitzroy	Imidacloprid 144 g ai	6.3b	0.2	93
6	Wheat cv. Livingston	-	19.4a	0.0	100
7	Wheat cv. Livingston	Imidacloprid 72 g ai	15.3a	0.0	100
8	Wheat cv. Livingston	Imidacloprid 144 g ai	8.2b	0.0	100
11	Durum cv. Bellaroi	-	14.7a	0.0	100
12	Durum cv. Bellaroi	Imidacloprid 72 g ai	4.9b	0.0	87
13	Durum cv. Bellaroi	Imidacloprid 144 g ai	6.9b	0.0	93
P =			0.00	Not analysed	0.42
LSD =			Arcsin detransf		nsd

Table 3: Aphid Counts 75 DAP

Trt No.	Crop & Variety	Seed Treatment Insecticide/ 100 kg Seed	17/08/2009 75 DAP		
			Oat Aphids/Tiller	Corn Aphids/Tiller	Rose Grain Aphids/Tiller
1	Barley cv. Fitzroy	-	6.2 a	17.1a	0.36
2	Barley cv. Fitzroy	Imidacloprid 72 g ai	6.8 a	0.3b	0.02
3	Barley cv. Fitzroy	Imidacloprid 144 g ai	2.7 b	0.0b	0.37
6	Wheat cv. Livingston	-	2.6 b	0.0b	0.47
7	Wheat cv. Livingston	Imidacloprid 72 g ai	7.0 a	0.0b	0.07
8	Wheat cv. Livingston	Imidacloprid 144 g ai	3.7 ab	0.0b	0.01
11	Durum cv. Bellaroi	-	4.3 ab	0.4b	0.38
12	Durum cv. Bellaroi	Imidacloprid 72 g ai	6.5 a	0.2b	0.11
13	Durum cv. Bellaroi	Imidacloprid 144 g ai	6.6 a	0.0b	0.06
P =			0.04	0.00	0.86
LSD =			Log detransf	Arcsin detransf	nsd

Comments:

Treatments 4,5,9,10,14 & 15 omitted from table. These treatments evaluated Pirimor alone or applied following insecticide seed treatment. Pirimor applications were not applied until the 20/8/2009 with no aphids found in any plots post application timing.

nsd = No significant difference

DAP = Days after Planting