Aphid Monitor NORTHERN IRELAND

Department of Agriculture, Environment and Rural Affairs

afbi Agri-Food and Biosciences Institute

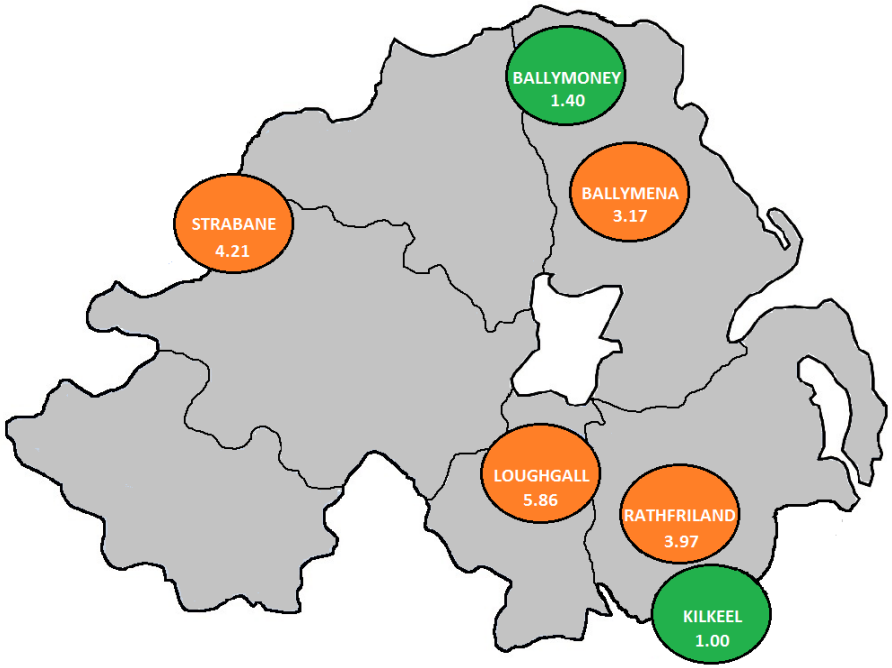
cafre College of Agriculture Food & Rural Enterprise

WEEK ENDING

12th June 2017

Site	Activity report
Ballymena	Moderate risk: 3 *Cavariella aegopodii* (Willow-carrot aphid) and 1 *Rhopalosiphum padi* (Bird-cherry oat aphid). Aphid numbers relatively low.
Ballymoney	Low risk: 4 *Macrosiphum eurphorbiae (Potato aphid) and 2 Metoplophium dirhodum (Rose-grain aphid) recorded during this period.*
Kilkeel	Low risk: 2 *Rhopalosiphum padi* (Bird-cherry oat aphid) and 1 *Macrosiphum eurphorbiae* (Potato aphid), aphid numbers very low.
Loughgall	Moderate risk: Significant numbers of *Macrosiphum eurphorbiae* (Potato aphid) and 4 *Rhopalosiphum padi* (Bird-cherry oat aphid).
Rathfriland	Moderate risk: 4 *Rhopalosiphum padi* (Bird-cherry oat aphid) and 3 *Cavariella aegopodii* (Willow-carrot aphid), aphid numbers relatively low.
Strabane	Moderate risk: 4 *Cavariella aegopodii* (Willow-carrot aphid) and 4 *Macrosiphum eurphorbiae* (Potato aphid) recorded, also 2 *Sitobion avenae* (Grain aphid) recorded during this period.

Current status:



Key		
	LOW RISK	Low virus vector activiy, no action required
	MODERATE RISK	Increased vigilance and monitoring of aphid populations required
	HIGH RISK	Severe risk of PVY transmission by aphids
	NO SAMPLE	No sampe received for this location

Ballymena		Week ending:																	
Aphid Species	**Common Name**	**PVY Index**	**29-May**		**05-Jun**		**12-Jun**		**19-Jun**		**26-Jun**		**03-Jul**		**10-Jul**		**17-Jul**	
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**					**3**	**1.50**										
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**					**1**	**0.40**										
Sitobion avenae	**Grain Aphid**	**0.60**					**1**	**0.60**										
Myzus persicae	**Peach-potato Aphid**	**1.00**																
Cavariella pastinacea		0.00																
Acyrthosiphon pisum	**Pea Aphid**	**0.70**																
Brachycaudus helichrysi	**Leaf-Curling Plum Aphid**	**0.21**																
Microlophium evansi		0.00																
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**					**1**	**0.16**										
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**					**1**	**0.20**										
Drepanosiphum platanoides	Sycamore Aphid	0.00					1	0.00										
Sitobion fragariae	Blackberry-cereal Aphid	0.00																
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**					**1**	**0.30**										
Aphis fabae	**Black-bean Aphid**	**0.10**																
Aphis rumicus		0.00					2	0.00										
Brevicoryne brassicae	**Cabbage Aphid**	**0.01**					**1**	0.01										
Capitophorus horni		0.00																
Capitophorus similis		0.00																
Phyllaphis fagi		0.00																
Chaitophorus populeti		0.00																
Rhopalosiphoninus staphyleae		0.00																
Cavariella theobaldi		0.00					1	0.00										
Euceraphis punctipennis		0.00																
Tuberculatus borealis		0.00																
Uromelan spp.		0.00																
Hyadaphis foeniculi		0.00																
Ovatus insitus		0.00																
Others		0.00					3	0.00										
Weekly Index				**0.00**		**0.00**		**3.17**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**
Cumulative Index				**0.00**		**0.00**		**3.17**		**3.17**		**3.17**		**3.17**		**3.17**		**3.17**

Ballymoney		Week ending:																		
Aphid Species	**Common Name**	**PVY Index**	**29-May**		**05-Jun**		**12-Jun**		**19-Jun**		**26-Jun**		**03-Jul**		**10-Jul**		**17-Jul**	
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**																
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**																
Sitobion avenae	**Grain Aphid**	**0.60**																
Myzus persicae	**Peach-potato Aphid**	**1.00**																
Cavariella pastinacea		0.00																
Acyrthosiphon pisum	**Pea Aphid**	**0.70**																
Brachycaudus helichrysi	**Leaf-Curling Plum Aphid**	**0.21**																
Microlophium evansi		0.00					2	0.00										
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**																
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**					**4**	**0.80**										
Drepanosiphum platanoides	Sycamore Aphid	0.00																
Sitobion fragariae	Blackberry-cereal Aphid	0.00																
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**					**2**	**0.60**										
Aphis fabae	**Black-bean Aphid**	**0.10**																
Aphis rumicus		0.00																
Brevicoryne brassicae	**Cabbage Aphid**	**0.01**																
Capitophorus horni		0.00																
Capitophorus similis		0.00					1	0.00										
Phyllaphis fagi		0.00																
Chaitophorus populeti		0.00																
Rhopalosiphoninus staphyleae		0.00																
Cavariella theobaldi		0.00																
Euceraphis punctipennis		0.00																
Tuberculatus borealis		0.00																
Uromelan spp.		0.00																
Hyadaphis foeniculi		0.00																
Ovatus insitus		0.00																
Others		0.00																
Weekly Index				**0.00**		**0.00**		**1.40**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**
Cumulative Index				**0.00**		**0.00**		**1.40**		**1.40**		**1.40**		**1.40**		**1.40**		**1.40**

Kilkeel		Week ending:																		
Aphid Species	**Common Name**	**PVY Index**	**29-May**		**05-Jun**		**12-Jun**		**19-Jun**		**26-Jun**		**03-Jul**		**10-Jul**		**17-Jul**	
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**	**2**	**1.00**	**2**	**1.00**												
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**	**1**	**0.40**			**2**	**0.80**										
Sitobion avenae	**Grain Aphid**	**0.60**																
Myzus persicae	**Peach-potato Aphid**	**1.00**	**1**	**1.00**	**2**	**2.00**												
Cavariella pastinacea		0.00			2	0.00												
Acyrthosiphon pisum	**Pea Aphid**	**0.70**																
Brachycaudus helichrysi	**Leaf-Curling Plum Aphid**	**0.21**	**2**	**0.42**														
Microlophium evansi		0.00																
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**																
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**					**1**	**0.20**										
Drepanosiphum platanoides	Sycamore Aphid	0.00																
Sitobion fragariae	Blackberry-cereal Aphid	0.00																
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**																
Aphis fabae	**Black-bean Aphid**	**0.10**																
Capitophorus similis		0.00																
Aphis rumicus		0.00																
Brevicoryne brassicae	**Cabbage Aphid**	**0.01**																
Hyadahis foeniculi		0.00																
Rhopalomyzus poae		0.00																
Uromelan spp.		0.00																
Acyrthosiphon primulae		0.00																
Rhopalosiphoninus staphyleae		0.00																
Hyalopterus pruni		0.00																
Tetraneura ulmi		0.00																
Anoecia spp.		0.00																
Others		0.00			4	0.00	4	0.00										
Weekly Index				**2.82**		**3.00**		**1.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**
Cumulative Index				**2.82**		**5.82**		**6.82**		**6.82**		**6.82**		**6.82**		**6.82**		**6.82**

Loughgall		Week ending:																		
Aphid Species	**Common Name**	**PVY Index**	**29-May**		**05-Jun**		**12-Jun**		**19-Jun**		**26-Jun**		**03-Jul**		**10-Jul**		**17-Jul**	
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**					**1**	**0.50**										
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**					**4**	**1.60**										
Sitobion avenae	**Grain Aphid**	**0.60**																
Myzus persicae	**Peach-potato Aphid**	**1.00**																
Cavariella pastinacea		0.00					3	0.00										
Acyrthosiphon pisum	**Pea Aphid**	**0.70**																
Brachycaudus helichrysi	**Leaf-Curling Plum Aphid**	**0.21**																
Microlophium evansi		0.00					1	0.00										
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**					**1**	**0.16**										
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**					**18**	**3.60**										
Drepanosiphum platanoides	Sycamore Aphid	0.00					1	0.00										
Sitobion fragariae	Blackberry-cereal Aphid	0.00																
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**																
Aphis fabae	**Black-bean Aphid**	**0.10**																
Capitophorus similis		0.00																
Aphis rumicus		0.00					5	0.00										
Brevicoryne brassicae	**Cabbage Aphid**	**0.01**																
Others		0.00					9	0.00										
Weekly Index				**0.00**		**0.00**		**5.86**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**
Cumulative Index				**0.00**		**0.00**		**5.86**		**5.86**		**5.86**		**5.86**		**5.86**		**5.86**

Rathfriland		Week ending:																		
Aphid Species	**Common Name**	**PVY Index**	**29-May**		**05-Jun**		**12-Jun**		**19-Jun**		**26-Jun**		**03-Jul**		**10-Jul**		**17-Jul**	
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**			**6**	**3.00**	**3**	**1.50**										
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**			**3**	**1.20**	**4**	**1.60**										
Sitobion avenae	**Grain Aphid**	**0.60**																
Myzus persicae	**Peach-potato Aphid**	**1.00**			**3**	**3.00**												
Cavariella pastinacea		0.00																
Acyrthosiphon pisum	**Pea Aphid**	**0.70**																
Brachycaudus helichrysi	**Leaf-Curling Plum Aphid**	**0.21**					**1**	**0.21**										
Microlophium evansi		0.00					1	0.00										
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**					**1**	**0.16**										
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**			**2**	**0.40**	**1**	**0.20**										
Drepanosiphum platanoides	Sycamore Aphid	0.00																
Sitobion fragariae	Blackberry-cereal Aphid	0.00																
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**			**9**	**2.70**	**1**	**0.30**										
Aphis fabae	**Black-bean Aphid**	**0.10**																
Aphis rumicus		0.00																
Brevicoryne brassicae	**Cabbage Aphid**	**0.01**																
Myzus ornatus		0.00																
Macrosiphum rosae		0.00																
Cavariella theobaldi		0.00																
Hyadaphis foeniculi		0.00																
Sipha glyceriae		0.00																
Pemphigus spp.																		
Others		0.00			23	0.00	4	0.00										
Weekly Index				**0.00**		**10.30**		**3.97**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**
Cumulative Index				**0.00**		**10.30**		**14.27**		**14.27**		**14.27**		**14.27**		**14.27**		**14.27**

Strabane		Week ending:																	
Aphid Species	**Common Name**	**PVY Index**	**29-May**		**05-Jun**		**12-Jun**		**19-Jun**		**26-Jun**		**03-Jul**		**10-Jul**		**17-Jul**	
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**					**4**	**2.00**										
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**																
Sitobion avenae	**Grain Aphid**	**0.60**					**2**	**1.20**										
Myzus persicae	**Peach-potato Aphid**	**1.00**																
Cavariella pastinacea		0.00					1	0.00										
Acyrthosiphon pisum	**Pea Aphid**	**0.70**																
Brachycaudus helichrysi	**Leaf-Curling Plum Aphid**	**0.21**					**1**	**0.21**										
Microlophium evansi		0.00					23	0.00										
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**																
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**					**4**	**0.80**										
Drepanosiphum platanoides	Sycamore Aphid	0.00																
Sitobion fragariae	Blackberry-cereal Aphid	0.00																
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**																
Aphis fabae	**Black-bean Aphid**	**0.10**																
Aphis rumicus		0.00																
Brevicoryne brassicae	**Cabbage Aphid**	**0.01**																
Phyllaphis fagi		0.00																
Cavariella theobaldi		0.00																
Euceraphis punctipennis		0.00																
Tuberculatus borealis		0.00																
Capitophorus similis		0.00																
Myzus ornatus		0.00																
Myzocallis castanicola		0.00																
Macrosiphum funestum		0.00																
Pemphigus spp.		0.00																
Rhopalosiphoninus staphyleae		0.00																
Utamphorophora humboldti		0.00																
Lipamyzodes matthiolae		0.00																
Sipha glyceriae		0.00																
Megoura viciae		0.00																
Ovatus insitus		0.00					7	0.00										
Others		0.00					5	0.00										
Weekly Index				**0.00**		**0.00**		**4.21**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**
Cumulative Index				**0.00**		**0.00**		**4.21**		**4.21**		**4.21**		**4.21**		**4.21**		**4.21**

Summary for the seven days up to and including 12/06/17					
Region	**Samples**	**Mean PVY Index per Sample**	**Mean Colonising Aphids per Sample**	**Mean Aphids per Sample**	**Total Aphids Species**
Northern Ireland	**6**	**3.27**	**4.83**	**24.5**	**16**
North Scotland	9	6.56	8.56	21.11	20
Grampian	7	3.38	3.29	8	15
Angus & Perthshire	1	0.7	0	3	2
Borders	1	0	0	0	0
Northern England	11	33.04	29.18	42.36	24
Midlands	4	17.36	11	69.5	33
East Anglia	5	1.89	2	8.2	15
South-West	10	1.54	1.1	7.5	21
TOTAL	**54**	**11.27**	**10.12**	**23.1**	**49**