Aphid Monitor NORTHERN IRELAND

Department of Agriculture, Environment and Rural Affairs

afbi Agri-Food and Biosciences Institute

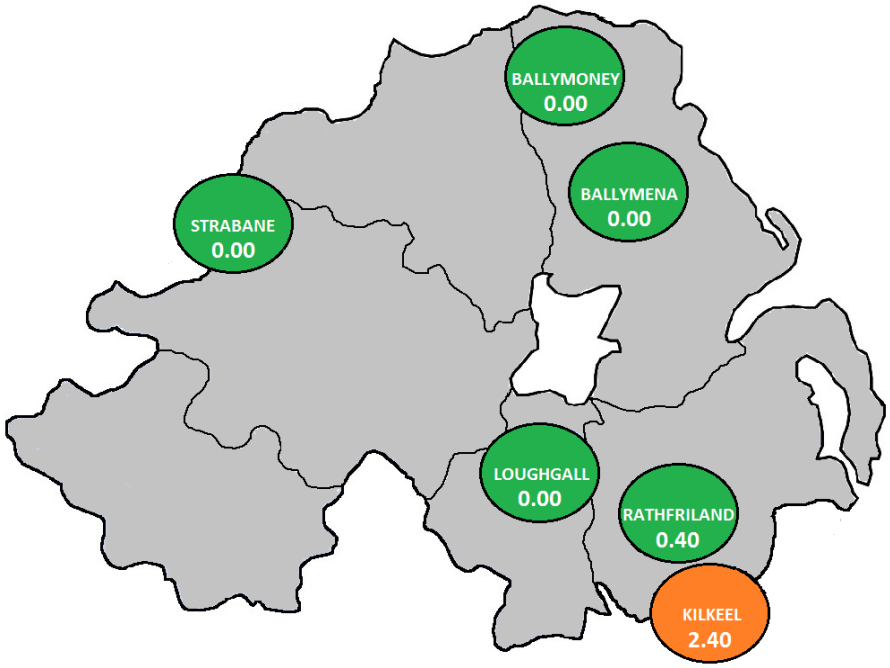
cafre College of Agriculture Food & Rural Enterprise

WEEK ENDING

31st July 2017

Site	Activity report
Ballymena	Low risk: No aphids recorded duing this period
Ballymoney	Low risk: No aphids recorded duing this period
Kilkeel	Medium risk: 2 *Myzus persicae* (Peach-potato aphid) and 1 *Rhoplaosiphum padi* (Bird-cherry oat aphid) recorded at this site.
Loughgall	Low risk: No aphids of significance recorded during this period
Rathfriland	Low risk: 1 *Rhoplaosiphum padi* (Bird-cherry oat aphid) recorded at this site.
Strabane	Low risk: No aphids recorded duing 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		24-Jul		31-Jul		07-Aug		14-Aug	
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**					**3**	**1.50**			**2**	**1.00**														
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**									**1**	**1.00**														
Cavariella pastinacea		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**					**1**	**0.20**	**2**	**0.40**																
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**			**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													**3**	**0.00**										
Others		0.00					3	0.00			2	**0.00**							2	**0.00**						
Weekly Index				**0.00**		**0.00**		**3.17**		**0.40**		**2.30**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**
Cumulative Index				**0.00**		**0.00**		**3.17**		**3.57**		**5.87**		**5.87**		**5.87**		**5.87**		**5.87**		**5.87**		**5.87**		**5.87**

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		24-Jul		31-Jul		07-Aug		14-Aug	
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											2	**0.00**					2	**0.00**						
Weekly Index				**0.00**		**0.00**		**1.40**		**0.00**		**0.00**		**0.00**		**0.00**		**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**		**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		24-Jul		31-Jul		07-Aug		14-Aug	
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**													**1**	**0.40**				
Sitobion avenae	**Grain Aphid**	**0.60**																								
Myzus persicae	**Peach-potato Aphid**	**1.00**	**1**	**1.00**	**2**	**2.00**			**7**	**7.00**							**1**	**1.00**			**2**	**2.00**				
Cavariella pastinacea		0.00			2	0.00																				
Acyrthosiphon pisum	**Pea Aphid**	**0.70**							**1**	**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							3	0.00																
Brevicoryne brassicae	**Cabbage Aphid**	**0.01**							**4**	**0.04**																
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			1	**0.00**	2	**0.00**												
Weekly Index				**2.82**		**3.00**		**1.00**		**7.74**		**0.00**		**0.00**		**0.00**		**1.00**		**0.00**		**2.40**		**0.00**		**0.00**
Cumulative Index				**2.82**		**5.82**		**6.82**		**14.56**		**14.56**		**14.56**		**14.56**		**15.56**		**15.56**		**17.96**		**17.96**		**17.96**

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		24-Jul		31-Jul		07-Aug		14-Aug	
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**					**1**	**0.50**	**11**	**5.50**	**67**	**33.50**	**5**	**2.50**	**10**	**5.00**										
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**													**4**	**1.20**										
Aphis fabae	**Black-bean Aphid**	**0.10**																								
Capitophorus similis		0.00							1	0.00																
Aphis rumicus		0.00					5	0.00	30	0.00			12	**0.00**	2	**0.00**			2	**0.00**						
Brevicoryne brassicae	**Cabbage Aphid**	**0.01**									**1**	**0.01**														
Cavariella theobaldi		0.00							4	0.00																
Tuberculatus annulatus	Common-Oak Aphid	0.00							29	0.00	**13**	0.00														
Amphorophora rubi	Large Blackberry Aphid	0.00							14	0.00																
Dactynotus spp.		0.00																			1	0.00				
Others		0.00					9	0.00	2	0.00	35	0.00			2	**0.00**										
Weekly Index				**0.00**		**0.00**		**5.86**		**5.50**		**33.51**		**2.50**		**6.20**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**
Cumulative Index				**0.00**		**0.00**		**5.86**		**11.36**		**44.87**		**47.37**		**53.57**		**53.57**		**53.57**		**53.57**		**53.57**		**53.57**

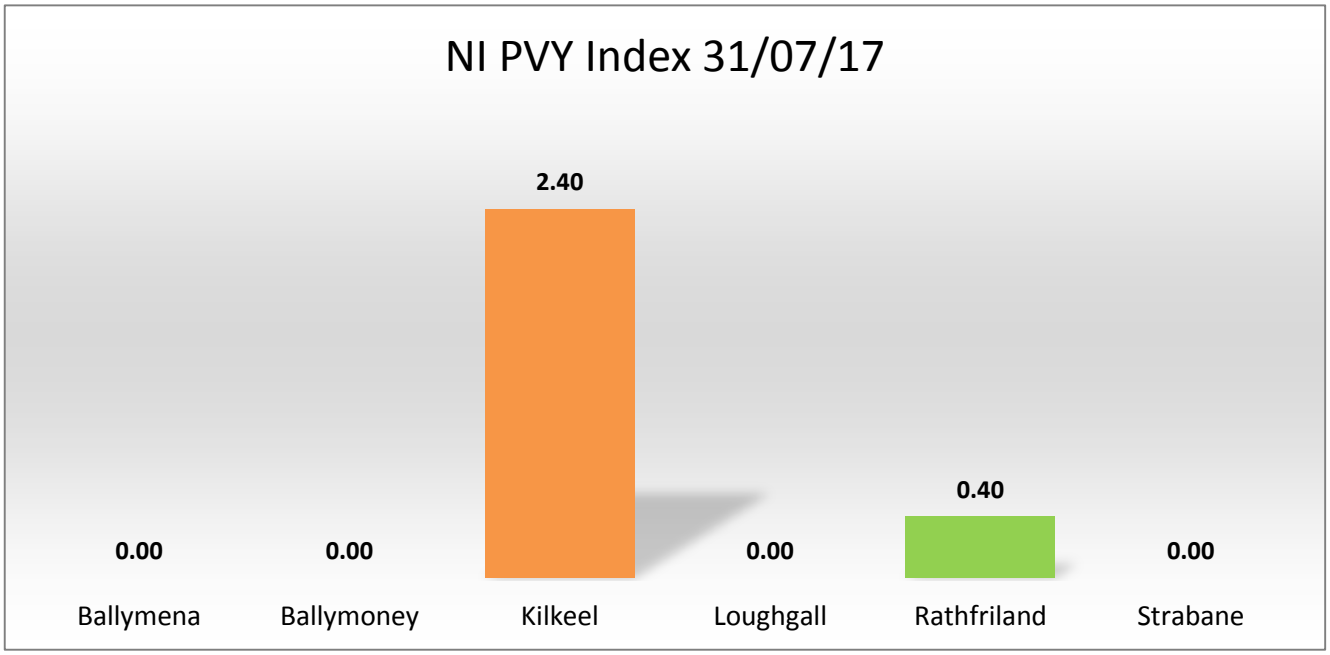
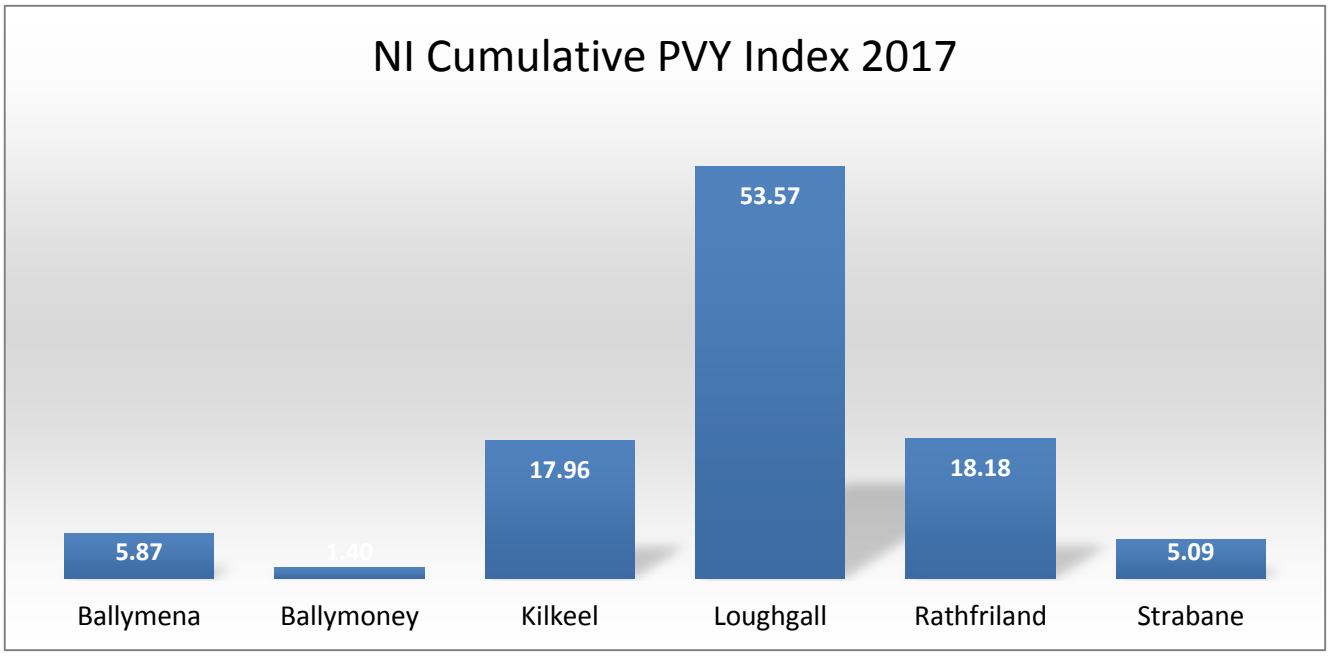
Rathfriland

Week ending:

Aphid Species	Common Name	PVY Index	29-May		05-Jun		12-Jun		19-Jun		26-Jun		03-Jul		10-Jul		17-Jul		24-Jul		31-Jul		07-Aug		14-Aug	
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**			**6**	**3.00**	**3**	**1.50**			**1**	**0.50**			**1**	**0.50**			**1**	**0.50**						
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**			**3**	**1.20**	**4**	**1.60**													**1**	**0.40**				
Sitobion avenae	**Grain Aphid**	**0.60**																								
Myzus persicae	**Peach-potato Aphid**	**1.00**			**3**	**3.00**			**1**	**1.00**																
Cavariella pastinacea		0.00																								
Acyrthosiphon pisum	**Pea Aphid**	**0.70**									**1**	**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							1	0.00																
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**			**9**	**2.70**	**1**	**0.30**	**1**	**0.30**																
Aphis fabae	**Black-bean Aphid**	**0.10**																								
Aphis rumicus		0.00							1	0.00																
Brevicoryne brassicae	**Cabbage Aphid**	**0.01**							**1**	**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					2	0.00	1	0.00	4	0.00								
Weekly Index				**0.00**		**10.30**		**3.97**		**1.31**		**1.20**		**0.00**		**0.50**		**0.00**		**0.50**		**0.40**		**0.00**		**0.00**
Cumulative Index				**0.00**		**10.30**		**14.27**		**15.58**		**16.78**		**16.78**		**17.28**		**17.28**		**17.78**		**18.18**		**18.18**		**18.18**

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		24-Jul		31-Jul		07-Aug		14-Aug	
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**									**6**	**0.42**														
Brachycaudus helichrysi	**Leaf-Curling Plum Aphid**	**0.21**					**1**	**0.21**																		
Microlophium evansi		0.00					23	0.00	15	0.00																
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**									**1**	**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**									1	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																								
Megoura viciae		0.00																								
Ovatus insitus		0.00					7	0.00																		
Amphorophora rubi	Large Blackberry Aphid	0.00							25	0.00																
Uromelan spp.		0.00							1	0.00																
Acyrthosiphon primulae		0.00							1	0.00																
Others		0.00					5	0.00	3	0.00	28	0.00	3	0.00												
Weekly Index				**0.00**		**0.00**		**4.21**		**0.00**		**0.88**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**
Cumulative Index				**0.00**		**0.00**		**4.21**		**4.21**		**5.09**		**5.09**		**5.09**		**5.09**		**5.09**		**5.09**		**5.09**		**5.09**

Summary for the seven days up to and including 31/07/17					
Region	**Samples**	**Mean PVY Index per Sample**	**Mean Colonising Aphids per Sample**	**Mean Aphids per Sample**	**Total Aphids Species**
Northern Ireland	**6**	**0.41**	**0.33**	**0.66**	**3**
North Scotland	5	0.54	0.4	1.4	5
Grampian	12	0.67	0.33	2.5	13
Angus & Perthshire	4	0.8	0.75	3	6
Borders	4	0.45	0.5	2.25	8
Northern England	4	0.18	0	0.5	2
Midlands					
East Anglia	1	0	0	0	0
South-West	1	0	0	0	0
Total	**37**	**0.53**	**0.35**	**1.94**	**20**