Aphid Monitor NORTHERN IRELAND

Department of Agriculture, Environment and Rural Affairs

afbi AGRI-FOOD & BIOSCIENCES INSTITUTE

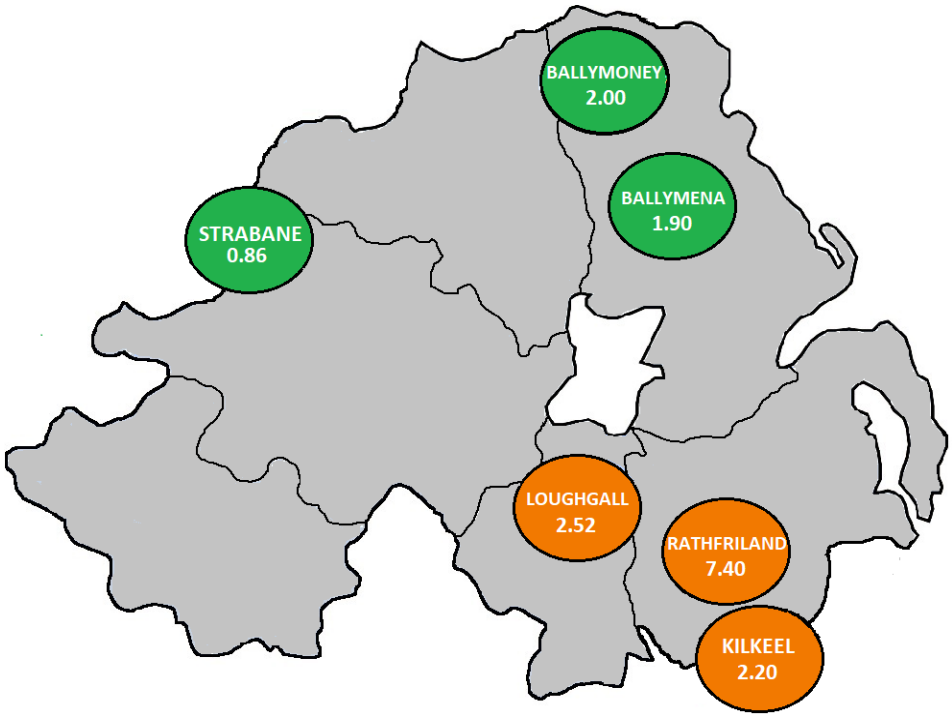
cafre College of Agriculture Food & Rural Enterprise

WEEK ENDING

28th June 2019 - Week 6

Site	Activity report
Ballymena	**Low risk**: Known vector species in trap this week are the following; *Cavariella aegopodii* (Carrot-willow aphid), *Rhopalosiphum padi* (Grain aphid), *Hyperomyzus lactucae* (Currant-sowthistle aphid), *Microlophium dirhodum* (Rose-grain aphid) and *Aphis fabae* (Black-bean aphid). No colonisers seen.
Ballymoney	**Low risk**: Known vector species in trap this week; 1 *Myzus persicae* (Peach-potato aphid). This is a colonising aphid species.
Kilkeel	**Moderate risk**: Known vector species in trap this week are the following; *Cavariella aegopodii* (Carrot-willow aphid), *Rhopalosiphum padi* (Grain aphid), *Macrosiphum euphorbiae* (Potato aphid) and *Aphis fabae* (Black-bean aphid). *Macrosiphum euphorbiae* (Potato aphid) is a colonising aphid species.
Loughgall	**Moderate risk**: Known vector species in trap this week are the following; *Brachycaudus helichrysi* (Leaf-curling Plum aphid). No coloniser species seen in trap.
Rathfriland	**Moderate risk**: Known vector species in trap this week are the following; *Cavariella aegopodii* (Carrot-willow aphid), *Rhopalosiphum padi* (Grain aphid) and *Myzus persicae* (Peach-potato aphid). *Myzus persicae* (Peach-potato aphid) is a colonising aphid species.
Strabane	**Low risk**: Known vector species in trap this week are the following; *Rhopalosiphum padi* (Grain aphid), *Hyperomyzus lactucae* (Currant-sowthistle aphid) and *Microlophium dirhodum* (Rose-grain aphid). No coloniser species seen in trap.

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	24-May		31-May		07-Jun		14-Jun		21-Jun		28-Jun		05-Jul		12-Jul		19-Jul		26-Jul		02-Aug		09-Aug		16-Aug		23-Aug		30-Aug		06-Sep		13-Sep		20-Sep		Total PVY Index
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**			**1**	**0.50**			**3**	**1.50**			**1**	**0.50**																									**2.50**
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**			**5**	**2.00**	**1**	**0.40**	**1**	**0.40**			**2**	**0.80**																									**3.60**
Sitobion avenae	**Grain Aphid**	**0.60**																																					
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**																																					
Microlophium evansi		0.00					1	0.00	**1**	**0.00**																													
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**											**1**	**0.20**																									**0.20**
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**			**1**	**0.20**																																	**0.20**
Drepanosiphum platanoides	Sycamore Aphid	0.00	6	0.00	3	0.00	1	0.00	1	**0.00**	2	0.00																											
Sitobion fragariae	Blackberry-cereal Aphid	0.00																																					
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**	**1**	**0.30**									**1**	**0.30**																									**0.60**
Aphis fabae	**Black-bean Aphid**	**0.10**											**1**	**0.10**																									**0.10**
Aphis rumicus		0.00																																					
Brevicoryne brassicae	**Cabbage Aphid**	**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			1	0.00																																	
Acyrthosiphon loti		0.00	2	0.00																																			
Rhopalosiphum insertum		0.00							6	**0.00**																													
Others		0.00					1	0.00			1	0.00	2	**0.00**																									
Weekly Index				**0.30**		**2.70**		**0.40**		**1.90**		**0.00**		**1.90**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**	**7.20**
Cumulative Index				**0.30**		**3.00**		**3.40**		**5.30**		**5.30**		**7.20**		**7.20**		**7.20**		**7.20**		**7.20**		**7.20**		**7.20**		**7.20**		**7.20**		**7.20**		**7.20**		**7.20**		**7.20**	

Ballymoney

Week ending:

Aphid Species	Common Name	PVY Index	24-May		31-May		07-Jun		14-Jun		21-Jun		28-Jun		05-Jul		12-Jul		19-Jul		26-Jul		02-Aug		09-Aug		16-Aug		23-Aug		30-Aug		06-Sep		13-Sep		20-Sep		Total PVY Index
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**	**1**	**0.50**	**1**	**0.50**	**2**	**1.00**																															**2.00**
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**	**2**	**0.80**	**1**	**0.40**																																	**1.20**
Sitobion avenae	**Grain Aphid**	**0.60**																																					
Myzus persicae	**Peach-potato Aphid**	**1.00**			**1**								**2**	**2.00**																									**2.00**
Cavariella pastinacea		0.00																																					
Acyrthosiphon pisum	**Pea Aphid**	**0.70**																																					
Brachycaudus helichrysi	**Leaf-Curling Plum Aphid**	**0.21**			**1**	**0.21**	**3**	**0.63**																															**0.84**
Microlophium evansi		0.00			**4**	**0.00**	8	0.00	**6**	0.00	1	0.00	**3**	**0.00**																								
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**	**1**	**0.16**			**11**	**1.76**																															**1.92**
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**			**1**	**0.20**																																	**0.20**
Drepanosiphum platanoides	Sycamore Aphid	0.00																																					
Sitobion fragariae	Blackberry-cereal Aphid	0.00																																					
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**			**1**	**0.30**																																	**0.30**
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																																					
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					3	0.00																															
Acyrthosiphon loti		0.00	2	0.00																																			
Brachycaudus lychnids		0.00			1	0.00																																	
Others		0.00	1	0.00	3	0.00	2	**0.00**			1	0.00	1	**0.00**																									
Weekly Index				**1.46**		**1.61**		**3.39**		**0.00**		**0.00**		**2.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**	**8.46**
Cumulative Index				**1.46**		**3.07**		**6.46**		**6.46**		**6.46**		**8.46**		**8.46**		**8.46**		**8.46**		**8.46**		**8.46**		**8.46**		**8.46**		**8.46**		**8.46**		**8.46**		**8.46**		**8.46**	

Kilkeel

Week ending:

Aphid Species	Common Name	PVY Index	24-May		31-May		07-Jun		14-Jun		21-Jun		28-Jun		05-Jul		12-Jul		19-Jul		26-Jul		02-Aug		09-Aug		16-Aug		23-Aug		30-Aug		06-Sep		13-Sep		20-Sep		Total PVY Index
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**			**35**	**17.50**	**6**	**3.00**					**3**	**1.50**																									**22.00**
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**			**15**	**6.00**							**1**	**0.40**																									**6.40**
Sitobion avenae	**Grain Aphid**	**0.60**			**2**	**1.20**																																	**1.20**
Myzus persicae	**Peach-potato Aphid**	**1.00**							**1**	**1.00**																													**1.00**
Cavariella pastinacea		0.00					1	**0.00**																															
Acyrthosiphon pisum	**Pea Aphid**	**0.70**																																					
Brachycaudus helichrysi	**Leaf-Curling Plum Aphid**	**0.21**			**4**	**0.84**	**2**	**0.42**																															**1.26**
Microlophium evansi		0.00			**3**	**0.00**	**4**	**0.00**																															
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**					**1**	**0.16**																															**0.16**
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**			**5**	**1.00**	**2**	**0.40**					**1**	**0.20**																									**1.60**
Drepanosiphum platanoides	Sycamore Aphid	0.00			13	**0.00**	4	**0.00**					5	**0.00**																									
Sitobion fragariae	Blackberry-cereal Aphid	0.00																																					
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**			**7**	**2.10**					**1**	**0.30**																											**2.40**
Aphis fabae	**Black-bean Aphid**	**0.10**			**2**	**0.20**							**1**	**0.10**																									**0.30**
Capitophorus similis		0.00																																					
Aphis rumicus		0.00																																					
Brevicoryne brassicae	**Cabbage Aphid**	**0.01**			**5**	**0.05**																																	**0.05**
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																																					
Cavariella theobaldi		0.00			3	0.00			1	0.00																													
Acyrthosiphon loti		0.00			1	0.00																																	
Rhopalosiphoninus ribesinus		0.00					1	0.00																															
Dactynotus spp.		0.00							1	0.00																													
Rhopalosiphum insertum		0.00							1	0.00																													
Others		0.00			7	0.00	1	0.00			1	**0.00**																											
						0.00																																	
Weekly Index				**0.00**		**28.89**		**3.98**		**1.00**		**0.30**		**2.20**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**	**36.37**
Cumulative Index				**0.00**		**28.89**		**32.87**		**33.87**		**34.17**		**36.37**		**36.37**		**36.37**		**36.37**		**36.37**		**36.37**		**36.37**		**36.37**		**36.37**		**36.37**		**36.37**		**36.37**		**36.37**	

Loughgall

Week ending:

Aphid Species	Common Name	PVY Index	24-May		31-May		07-Jun		14-Jun		21-Jun		28-Jun		05-Jul		12-Jul		19-Jul		26-Jul		02-Aug		09-Aug		16-Aug		23-Aug		30-Aug		06-Sep		13-Sep		20-Sep		Total PVY Index
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**			**8**	**4.00**																																	**4.00**
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**			**2**	**0.80**	**1**	**0.40**																															**1.20**
Sitobion avenae	**Grain Aphid**	**0.60**																																					
Myzus persicae	**Peach-potato Aphid**	**1.00**			**1**	**1.00**			**1**	**1.00**																													**2.00**
Cavariella pastinacea		0.00																																					
Acyrthosiphon pisum	**Pea Aphid**	**0.70**			**5**	**3.50**																																	**3.50**
Brachycaudus helichrysi	**Leaf-Curling Plum Aphid**	**0.21**			**6**	**1.26**	**15**	**3.15**	**2**	**0.42**	**1**	**0.21**	**12**	**2.52**																									**7.56**
Microlophium evansi		0.00			1	0.00																																	
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**			**2**	**0.32**																																	**0.32**
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**					**1**	**0.20**																															**0.20**
Drepanosiphum platanoides	Sycamore Aphid	0.00																																					
Sitobion fragariae	Blackberry-cereal Aphid	0.00																																					
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**					**1**	**0.30**																															**0.30**
Aphis fabae	**Black-bean Aphid**	**0.10**																																					
Capitophorus similis		0.00																																					
Aphis rumicus		0.00											1	**0.00**																									
Brevicoryne brassicae	**Cabbage Aphid**	**0.01**																																					
Cavariella theobaldi		0.00																																					
Tuberculatus annulatus	Common-Oak Aphid	0.00																																					
Amphorophora rubi	Large Blackberry Aphid	0.00																																					
Dactynotus spp.		0.00																																					
Macrosiphoniella persequens		0.00					**1**	**0.00**																															
Uromelan spp.		0.00											**1**	**0.00**																									
Myzus cerasi		0.00					**1**	**0.00**																															
Tuberculoides neglectus		0.00							1	0.00																													
Others		0.00			2	**0.00**					1	**0.00**																											
Weekly Index				**0.00**		**10.88**		**4.05**		**1.42**		**0.21**		**2.52**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**	**19.08**
Cumulative Index				**0.00**		**10.88**		**14.93**		**16.35**		**16.56**		**19.08**		**19.08**		**19.08**		**19.08**		**19.08**		**19.08**		**19.08**		**19.08**		**19.08**		**19.08**		**19.08**		**19.08**		**19.08**	

Rathfriland

Week ending:

Aphid Species	Common Name	PVY Index	24-May		31-May		07-Jun		14-Jun		21-Jun		28-Jun		05-Jul		12-Jul		19-Jul		26-Jul		02-Aug		09-Aug		16-Aug		23-Aug		30-Aug		06-Sep		13-Sep		20-Sep		Total PVY Index
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**			**44**	**22.00**	**46**	**23.00**	**1**	**0.50**			**10**	**5.00**																									**50.50**
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**			**4**	**1.60**	**9**	**3.60**			**1**	**0.40**	**3**	**0.40**																									**6.00**
Sitobion avenae	**Grain Aphid**	**0.60**			**1**	**0.60**																																	**0.60**
Myzus persicae	**Peach-potato Aphid**	**1.00**			**10**	**10.00**	**2**	**2.00**			**1**	**1.00**	**2**	**2.00**																									**15.00**
Cavariella pastinacea		0.00																																					
Acyrthosiphon pisum	**Pea Aphid**	**0.70**																																					
Brachycaudus helichrysi	**Leaf-Curling Plum Aphid**	**0.21**			**3**	**0.63**	**4**	**0.84**																															**1.47**
Microlophium evansi		0.00					1	0.00			**2**	**0.00**																											
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**			**1**	**0.16**	**1**	**0.16**																															**0.32**
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**			**12**	**2.40**	**6**	**1.20**																															**3.60**
Drepanosiphum platanoides	Sycamore Aphid	0.00					1		2	**0.00**	1	**0.00**	2	**0.00**																									
Sitobion fragariae	Blackberry-cereal Aphid	0.00																																					
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**																																					
Aphis fabae	**Black-bean Aphid**	**0.10**					**1**	**0.10**																															**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.		0.00																																					
Rhopalosiphininus latysiphon		**0.30**			1	0.30																																	
Myzocallis castanicola		0.00					1	0.00																															
Others		0.00			2	0.00	3	0.00	1	0.00	1	0.00	3	0.00																									
Weekly Index				**0.00**		**37.69**		**30.90**		**0.50**		**1.40**		**7.40**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**	**77.89**
Cumulative Index				**0.00**		**37.69**		**68.59**		**69.09**		**70.49**		**77.89**		**77.89**		**77.89**		**77.89**		**77.89**		**77.89**		**77.89**		**77.89**		**77.89**		**77.89**		**77.89**		**77.89**		**77.89**	

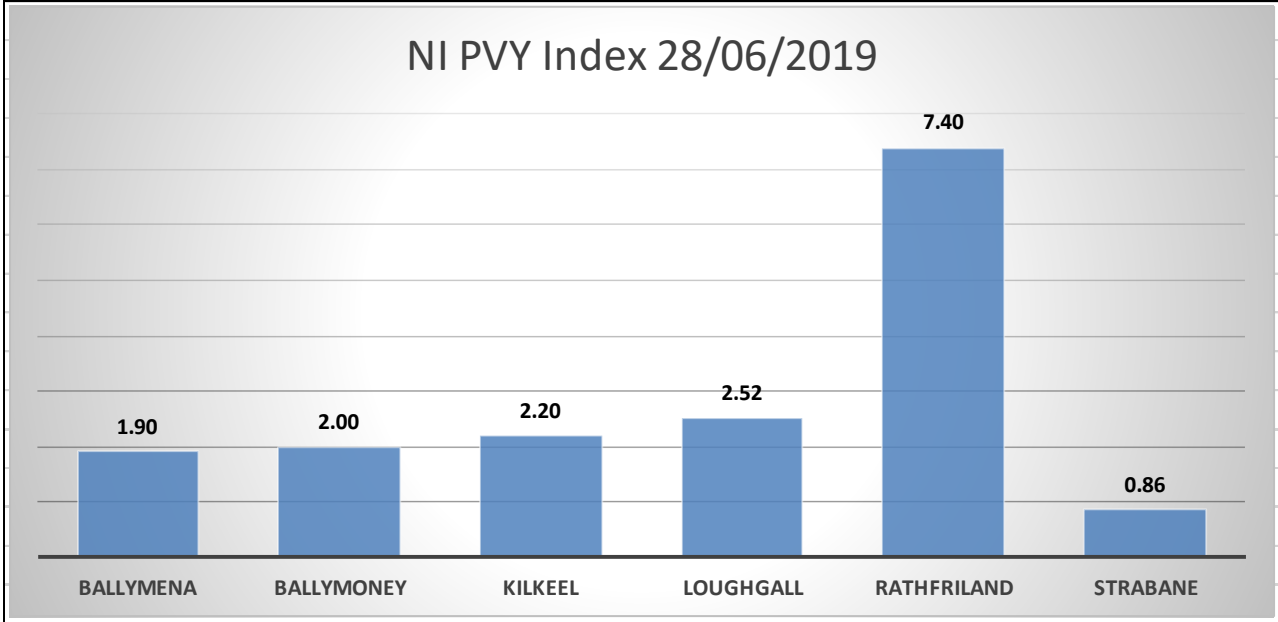
Strabane

Week ending:

Aphid Species	Common Name	PVY Index	24-May		31-May		07-Jun		14-Jun		21-Jun		28-Jun		05-Jul		12-Jul		19-Jul		26-Jul		02-Aug		09-Aug		16-Aug		23-Aug		30-Aug		06-Sep		13-Sep		20-Sep		Total PVY Index
Cavariella aegopodii	**Willow-carrot Aphid**	**0.50**					**1**	**0.50**			**2**	**1.00**																											**1.50**
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**			**1**	**0.40**	**2**	**0.80**					**1**	**0.40**																									**1.60**
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**			**1**	**0.21**	**1**	**0.21**																															**0.42**
Microlophium evansi		0.00			2	0.00	8	0.00	21	0.00	**6**	**0.00**	17	0.00																									
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**							**5**	**0.80**			**1**	**0.16**																									**0.96**
Macrosiphum euphorbiae	**Potato Aphid**	**0.20**																																					
Drepanosiphum platanoides	Sycamore Aphid	0.00											4	0.00																									
Sitobion fragariae	Blackberry-cereal Aphid	0.00																																					
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**											**1**	**0.30**																									**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																																					
Amphorophora rubi	Large Blackberry Aphid	0.00											2	0.00																									
Uromelan spp.		0.00																																					
Acyrthosiphon primulae		0.00																																					
Rhopalosiphoninus ribesinus		0.00					1	0.00					1	0.00																									
Capitophorus horni		0.00											1	0.00																									
Acyrthosiphon loti		0.00			2	0.00																																	
Others		0.00			3	0.00	1	0.00	3	0.00																													
Weekly Index				**0.00**		**0.61**		**1.51**		**0.80**		**1.00**		**0.86**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**	**4.78**
Cumulative Index				**0.00**		**0.61**		**2.12**		**2.92**		**3.92**		**4.78**		**4.78**		**4.78**		**4.78**		**4.78**		**4.78**		**4.78**		**4.78**		**4.78**		**4.78**		**4.78**		**4.78**		**4.78**	

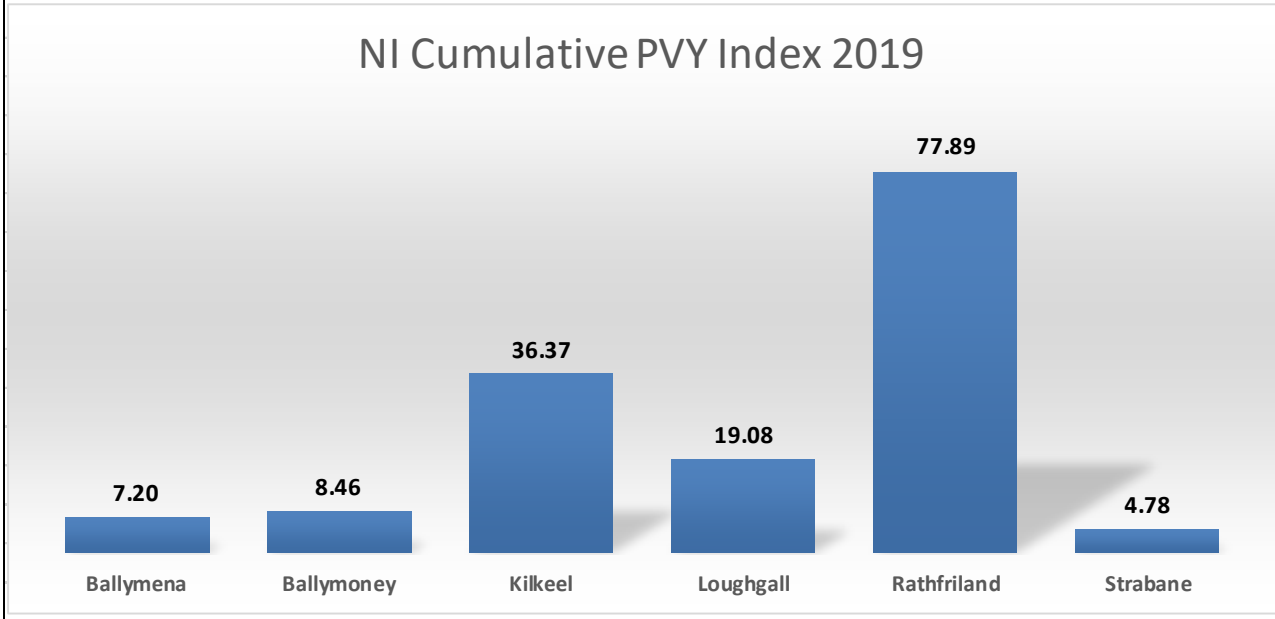
Summary for the seven days up to and including 28/06/19					
Region	**Samples**	**Mean PVY Index per Sample**	**Mean Colonising Aphids per Sample**	**Mean Aphids per Sample**	**Total Aphids Species**
Northern Ireland	**6**	**2.81**	**0.7**	**14.50**	**15**
North Scotland	6	1.78	1.5	6.5	12
Grampian	16	1.24	1.06	4.38	22
Angus & Perthshire	4	2.4	2.25	4.25	6
Borders	5	0.71	0.8	2.4	9
Northern England	12	37.1	35.17	49.17	31
Midlands	6	50.03	50.33	85.33	38
East Anglia	4	3.43	3	6.25	11
South-West	6	4.43	1.67	37.17	26
TOTAL	**65**	**103.93**	**96.48**	**209.95**	**170**

Northern Ireland WEEKLY Virus Threat 2019



Ballymena	Ballymoney	Kilkeel	Loughgall	Rathfriland	Strabane
1.90	2.00	2.20	2.52	7.40	0.86

Northern Ireland TOTAL Virus Threat 2019



Ballymena	Ballymoney	Kilkeel	Loughgall	Rathfriland	Strabane
7.20	8.46	36.37	19.08	77.89	4.78