Aphid Monitor NORTHERN IRELAND

Department of Agriculture, Environment and Rural Affairs

afbi AGRI-FOOD & BIOSCIENCES INSTITUTE

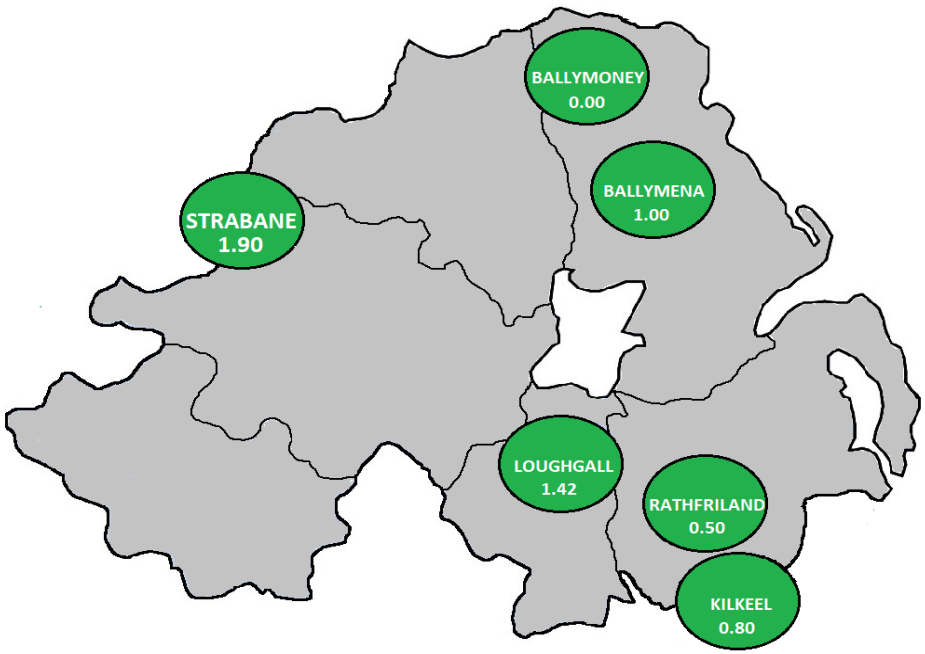
cafre College of Agriculture Food & Rural Enterprise

WEEK ENDING

14th June 2019 - Week 4

Site	Activity report
Ballymena	Low risk: 3 *Cavariella aegopodii* (Carrot-willow aphid) recorded in trap.
Ballymoney	Low risk: 6 *Microlophium evansi* (Nettle aphid) *recorded in trap.*
Kilkeel	Low risk: 1 *Myzus Persicae* (Peach-potato aphid) recorded this week.
Loughgall	Low risk: 1 *Myzus Persicae* (Peach-potato aphid) and 2 *Brachycaudus helichrysi* (Leaf-curling plum aphid) *recorded at this site.*
Rathfriland	Low risk: 2 *Drepanosipum platanoides* (Sycamore aphid) recorded this week.
Strabane	Low risk: 21 *Microlophium evansi* (Nettle aphid) and 5 *Hyperomyzus lactucae* (Currant-sowwhistle aphid) recorded 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**																													**2.00**
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**			**5**	**2.00**	**1**	**0.40**	**1**	**0.40**																													**2.80**
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**																																					
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**																													
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							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																															
Weekly Index				**0.30**		**2.70**		**0.40**		**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**		**0.00**		**0.00**	**5.30**
Cumulative Index				**0.30**		**3.00**		**3.40**		**5.30**		**5.30**		**5.30**		**5.30**		**5.30**		**5.30**		**5.30**		**5.30**		**5.30**		**5.30**		**5.30**		**5.30**		**5.30**		**5.30**		**5.30**	

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**																																		
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																													
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**																															
Weekly Index				**1.46**		**1.61**		**3.39**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**	**6.46**
Cumulative Index				**1.46**		**3.07**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**		**6.46**	

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**																															**20.50**
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**			**15**	**6.00**																																	**6.00**
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**																															**1.40**
Drepanosiphum platanoides	Sycamore Aphid	0.00			13	**0.00**	4	**0.00**																															
Sitobion fragariae	Blackberry-cereal Aphid	0.00																																					
Metopolophium dirhodum	**Rose-Grain Aphid**	**0.30**			**7**	**2.10**																																	**2.10**
Aphis fabae	**Black-bean Aphid**	**0.10**			**2**	**0.20**																																	**0.20**
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																															
						0.00																																	
Weekly Index				**0.00**		**28.89**		**3.98**		**1.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**	**33.87**
Cumulative Index				**0.00**		**28.89**		**32.87**		**33.87**		**33.87**		**33.87**		**33.87**		**33.87**		**33.87**		**33.87**		**33.87**		**33.87**		**33.87**		**33.87**		**33.87**		**33.87**		**33.87**		**33.87**	

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**																													**4.83**
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																																					
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**																															
Myzus cerasi		0.00					**1**	**0.00**																															
Tuberculoides neglectus		0.00							1	0.00																													
Others		0.00			2	**0.00**																																	
Weekly Index				**0.00**		**10.88**		**4.05**		**1.42**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**	**16.35**
Cumulative Index				**0.00**		**10.88**		**14.93**		**16.35**		**16.35**		**16.35**		**16.35**		**16.35**		**16.35**		**16.35**		**16.35**		**16.35**		**16.35**		**16.35**		**16.35**		**16.35**		**16.35**		**16.35**	

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**																													**45.50**
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**			**4**	**1.60**	**9**	**3.60**																															**5.20**
Sitobion avenae	**Grain Aphid**	**0.60**			**1**	**0.60**																																	**0.60**
Myzus persicae	**Peach-potato Aphid**	**1.00**			**10**	**10.00**	**2**	**2.00**																															**12.00**
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																															
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**																													
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																													
Weekly Index				**0.00**		**37.69**		**30.90**		**0.50**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**	**69.09**
Cumulative Index				**0.00**		**37.69**		**68.59**		**69.09**		**69.09**		**69.09**		**69.09**		**69.09**		**69.09**		**69.09**		**69.09**		**69.09**		**69.09**		**69.09**		**69.09**		**69.09**		**69.09**		**69.09**	

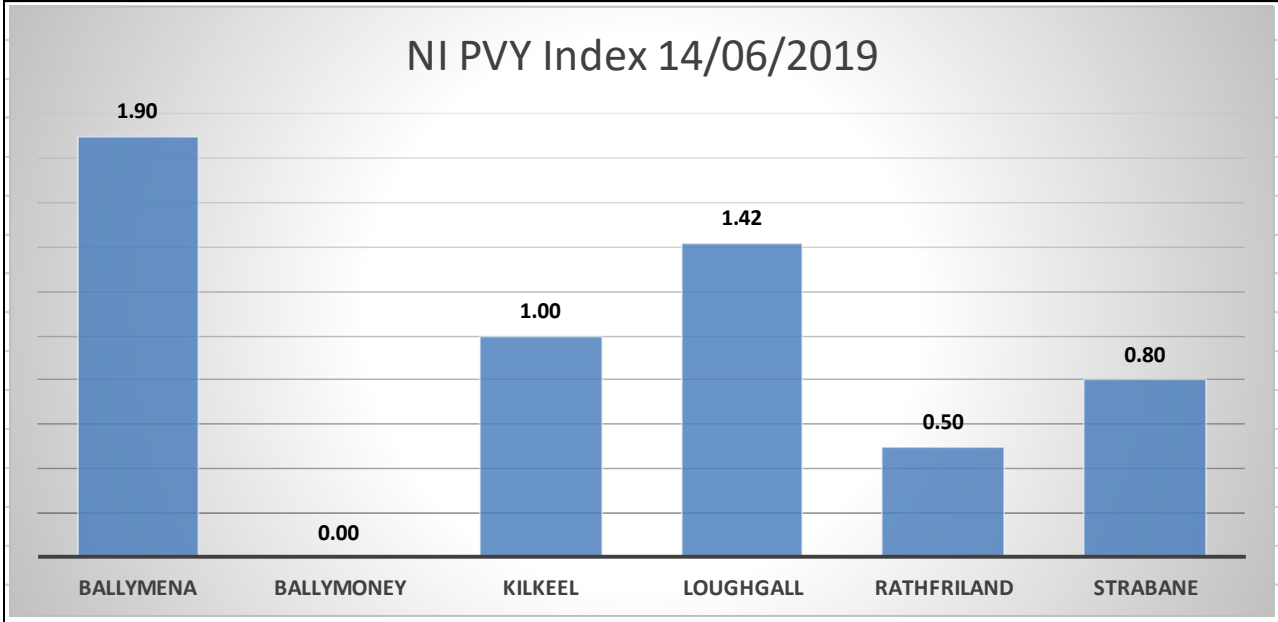
Strabane

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**																															**0.50**
Rhopalosiphum padi	**Bird Cherry-Oat Aphid**	**0.40**			**1**	**0.40**	**2**	**0.80**																															**1.20**
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																													
Hyperomyzus lactucae	**Currant-sowthistle Aphid**	**0.16**							**5**	**0.80**																													**0.80**
Macrosiphum euphorbiae	**Potato Aphid**	**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**																																					
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																																					
Uromelan spp.		0.00																																					
Acyrthosiphon primulae		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**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		**0.00**	**2.92**
Cumulative Index				**0.00**		**0.61**		**2.12**		**2.92**		**2.92**		**2.92**		**2.92**		**2.92**		**2.92**		**2.92**		**2.92**		**2.92**		**2.92**		**2.92**		**2.92**		**2.92**		**2.92**		**2.92**	

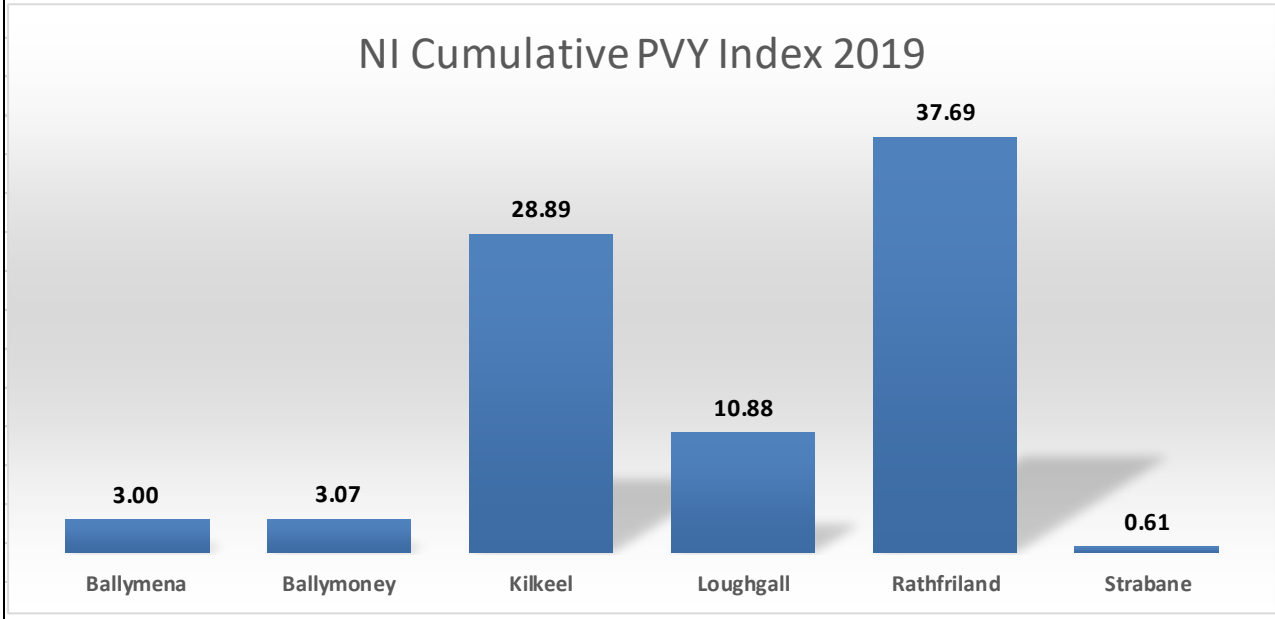
Summary for the seven days up to and including 14/06/19					
Region	**Samples**	**Mean PVY Index per Sample**	**Mean Colonising Aphids per Sample**	**Mean Aphids per Sample**	**Total Aphids Species**
Northern Ireland	**6**	**0.94**	**0.33**	**10.17**	**12**
North Scotland	32	2.61	1.72	11.66	37
Grampian	35	2.05	1.69	8.54	30
Angus & Perthshire	14	6.56	1.21	14.14	15
Borders	10	7.02	5.9	15.4	21
Northern England	60	68.48	26.62	137.92	57
Midlands	30	30.65	25	62.2	52
East Anglia	65	16.82	14.09	35.31	55
South-West	24	7.66	5.5	23.13	36
TOTAL	**276**	**24.53**	**13.28**	**51.91**	**80**

Northern Ireland WEEKLY Virus Threat 2019



Ballymena	Ballymoney	Kilkeel	Loughgall	Rathfriland	Strabane
1.90	0.00	1.00	1.42	0.50	0.80

Northern Ireland TOTAL Virus Threat 2019



Ballymena	Ballymoney	Kilkeel	Loughgall	Rathfriland	Strabane
3.00	3.07	28.89	10.88	37.69	0.61