

AHDB Aphid News

Suction-trap period 09 September – 15 September 2019

General

- The total number of aphids reported upon has risen by about 144% of that of the previous period, the diversity of these aphid species has also increased slightly.
- Bird cherry-oat aphid numbers increased to 145% of the previous period. This is particularly true in southern Britain suggesting that this year's autumn aphid migration is underway. During the period 13/09 – 19/09; 38% (eight of twenty-one) aphids tested at Rothamsted were of the cereal colonising form (the 10-year weekly mean is 11%).
- Grain aphids were recorded from four sites.
- Testing has begun at Rothamsted on a number of cereal aphids from selected sites captured during the previous bulletin period for BYDV which can be found in a new section below (BYDV test results).
- Only a small proportion of aphids entering cereals are likely to be carrying BYDV. Problems with spread arise when the second generation offspring of the original winged colonisers are produced. This is usually the generation that begins moving significantly away from the plant originally colonised. Very approximately this begins when 170 day degrees above a threshold of 3°C (DD>3) have accumulated. The [AHDB BYDV management tool](#) can be used to calculate this.
- Single peach-potato aphids were recorded from five sites. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- Cabbage aphids were found at Kirton and Broom's Barn. This species can cause direct feeding damage to isolated plants but is a poor vector of TuYV and is more of a problem in spring than in autumn.
- Willow-carrot aphids were found from three sites including a hotspot at Dundee. No male individuals were recorded.
- Aphids that have located unprotected crops will continue to do well at temperatures above 3°C.

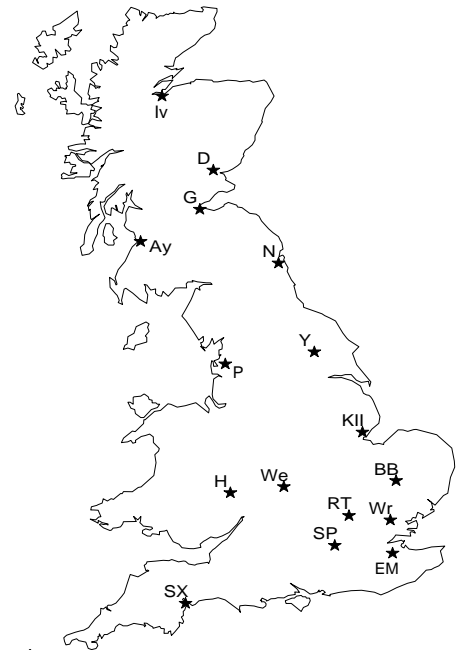
Monitoring crops is recommended.

Suction-trap locations

AHDB Aphid News is based on information on aphid species and numbers from the Rothamsted Research/SASA suction-trap (ST) network. The traps are located at:

Inverness (Iv), Dundee (D), Gogarbank (G), Ayr (Ay), Newcastle (N), Preston (P), York (Y), Kirton (K), Broom's Barn (BB), Wellesbourne (We), Hereford (H), Rothamsted Tower (RT), Writtle (Wr), Silwood Park (SP), East Malling* (EM) and Starcross (SX).

* The East Malling (EM) trap will start operating during 2019.



BYDV test results

Number of aphids* with BYDV positive test results. Total number selected for testing indicated in brackets.

Bird cherry–oat aphid

Newcastle: **12** (32)

Kirton: **0** (0)

Broom's Barn: **2** (11)

Writtle: **0** (16)

Starcross: **5** (32)

Total: 19 (91)

Grain aphid

Newcastle: **0** (0)

Kirton: **0** (0)

Broom's Barn: **0** (0)

Writtle: **0** (0)

Starcross: **0** (0)

Total: 0 (0)

*Samples collected during suction-trap period 02 September – 08 September 2019

Suction-trap data

'*' indicates where totals have been corrected proportionally to seven days, fewer days' samples having been processed, '#' indicates the first occurrence of this aphid species this year and **0 = none so far this year.**

Red text indicates an increase (↑) and blue text indicates a decrease (↓) in aphid numbers compared to last week. "/" indicates that we have no data from this trap.

Rose-grain aphid <i>(Metopolophium dirhodum)</i>	Bulletin Week Totals		09/09-15/09
	2019	2018	10-year average 2009-18
Dundee	0	0	0
Gogarbank (Edinburgh)	0	0	0
Newcastle	0	0	0
York	0	0	
Preston	0	0	0
Kirton	0	0	0
Broom's Barn (Bury St Edmunds)	0	0	0
Wellesbourne	0	0	1
Hereford	0	1	0
Rothamsted (Harpenden)	*1	0	0
Writtle	0	0	0
Silwood Park (nr Ascot)	0	0	0
East Malling	/		
Starcross (nr Exeter)	0	0	0

Bird cherry-oat aphid – females only <i>(Rhopalosiphum padi)</i>	Bulletin Week Totals		09/09-15/09
	2019	2018	10-year average 2009-18
Dundee	183	16	126
Gogarbank (Edinburgh)	323	96	268
Newcastle	187	49	214
York	279	198	
Preston	264	694	695
Kirton	38	127	86
Broom's Barn (Bury St Edmunds)	62	187	59
Wellesbourne	125	180	167
Hereford	59	185	94
Rothamsted (Harpenden)	*44	113	34
Writtle	47	115	45
Silwood Park (nr Ascot)	30	55	69
East Malling	/		
Starcross (nr Exeter)	85	139	83

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals			09/09-15/09
	2019	2018	10-year average 2009-18	
Dundee	1	0	2	
Gogarbank (Edinburgh)	0	0	5	
Newcastle	0	0	2	
York	0	0		
Preston	4	1	1	
Kirton	1	0	1	
Broom's Barn (Bury St Edmunds)	0	0	1	
Wellesbourne	0	0	4	
Hereford	0	0	1	
Rothamsted (Harpenden)	*1	0	0	
Writtle	0	0	1	
Silwood Park (nr Ascot)	0	0	1	
East Malling	/			
Starcross (nr Exeter)	0	0	1	

Peach-potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals			09/09-15/09
	2019	2018	10-year average 2009-18	
Dundee	1	0	1	
Gogarbank (Edinburgh)	1	0	0	
Newcastle	0	0	0	
York	1	0		
Preston	1	0	1	
Kirton	0	10	2	
Broom's Barn (Bury St Edmunds)	0	0	2	
Wellesbourne	1	0	5	
Hereford	0	0	1	
Rothamsted (Harpenden)	*0	0	1	
Writtle	0	0	2	
Silwood Park (nr Ascot)	0	0	0	
East Malling	/			
Starcross (nr Exeter)	0	1	1	

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			09/09-15/09
	2019	2018	10-year average 2009-18	
Dundee	0	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	0	0	
York	0	0		
Preston	0	0	2	
Kirton	0	0	0	
Broom's Barn (Bury St Edmunds)	0	0	2	
Wellesbourne	0	0	1	
Hereford	0	0	1	
Rothamsted (Harpenden)	*0	0	0	
Writtle	1	0	0	
Silwood Park (nr Ascot)	0	0	1	
East Malling	/			
Starcross (nr Exeter)	0	0	1	

Cabbage aphid <i>(Brevicoryne brassicae)</i>	Bulletin Week Totals			09/09-15/09
	2019	2018	10-year average 2009-18	
Dundee	0	0	0	
Gogarbank (Edinburgh)	0	1	0	
Newcastle	0	0	0	
York	0	0		
Preston	0	0	0	
Kirton	3	9	1	
Broom's Barn (Bury St Edmunds)	1	0	0	
Wellesbourne	0	0	0	
Hereford	0	1	3	
Rothamsted (Harpenden)	*0	0	0	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	1	0	
East Malling	/			
Starcross (nr Exeter)	0	0	0	

Willow-carrot aphid <i>(Cavariella aegopodii)</i>	Bulletin Week Totals			09/09-15/09
	2019	2018	10-year average 2009-18	
Dundee	17	3	4	
Gogarbank (Edinburgh)	0	0	1	
Newcastle	0	0	1	
York	0	0		
Preston	1	0	3	
Kirton	1	5	4	
Broom's Barn (Bury St Edmunds)	0	0	4	
Wellesbourne	0	0	1	
Hereford	0	0	1	
Rothamsted (Harpenden)	*0	0	0	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	0	0	
East Malling	/			
Starcross (nr Exeter)	0	0	0	

Pea aphid <i>(Acyrtosiphon pisum)</i>	Bulletin Week Totals			09/09-15/09
	2019	2018	10-year average 2009-18	
Dundee	1	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	0	0	
York	0	0		
Preston	0	0	0	
Kirton	2	0	1	
Broom's Barn (Bury St Edmunds)	3	0	2	
Wellesbourne	3	0	4	
Hereford	1	2	1	
Rothamsted (Harpenden)	*0	0	1	
Writtle	1	0	1	
Silwood Park (nr Ascot)	1	0	1	
East Malling	/			
Starcross (nr Exeter)	0	3	1	

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		
	2019	2018	09/09-15/09 10-year average 2009-18
Dundee	0	0	1
Gogarbank (Edinburgh)	0	0	4
Newcastle	1	0	3
York	0	1	
Preston	1	0	2
Kirton	1	0	2
Broom's Barn (Bury St Edmunds)	1	1	1
Wellesbourne	1	0	1
Hereford	0	0	2
Rothamsted (Harpenden)	*0	0	0
Writtle	1	0	0
Silwood Park (nr Ascot)	0	0	0
East Malling	/		
Starcross (nr Exeter)	1	0	1

Further information

Please send information on crop aphids to: alex.greenslade@rothamsted.ac.uk

insectsurvey.com

ahdb.org.uk/aphid-news

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