

AHDB Aphid News

Suction-trap period 23 September – 29 September 2019

General

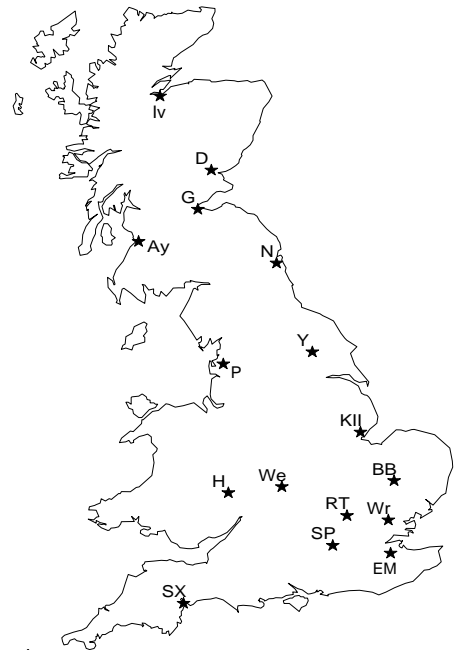
- As the autumn migration continues the total number of aphids reported upon has risen once again by 233% of that of the previous period.
- Bird cherry–oat aphid numbers increased to 225% of the previous period from nine sites. Included on the table this week are numbers accumulated from 16/09, representing the early emergence of cereal seedlings to give an indication of the build-up of virus vector pressure. During the period 27/09 – 03/10; 17% (6 of 36) of these aphids tested at Rothamsted were of the cereal colonising form (the 10-year mean for this period is 6%).
- Grain aphids were recorded from five sites, increasing at four.
- BYDV Testing has continued at Rothamsted on a number of cereal aphids from selected sites captured during the previous bulletin period.
- 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.
- Peach–potato aphids were recorded from nine sites, increasing at five with a hotspot still present at York. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- Cabbage aphids were only recorded at Kirton but once again reached double figures. 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 six sites with a considerable three figure increase in number at Dundee. No male individuals were recorded.
- The new suction-trap at East Malling (Kent) has entered operation, caution is advised when interpreting the data for this site.
- For more information on trap counts see: insectsurvey.com/aphid-bulletin
- 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).



BYDV test results

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

Bird cherry–oat aphid

Newcastle: **8** (18)

Kirton: **6** (18)

Broom's Barn: **1** (18)

Writtle: **5** (18)

Starcross: **5** (18)

Total: 25 (90)

Grain aphid

Newcastle: **0** (0)

Kirton: **0** (2)

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

Writtle: **0** (0)

Starcross: **0** (0)

Total: 0 (2)

*Samples collected during suction-trap period 16 September – 22 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		
	2019	2018	23/09-29/09 10-year average 2009-18
Dundee	*0	0	1
Gogarbank (Edinburgh)	4	0	2
Newcastle	0	0	1
York	0	0	
Preston	0	0	0
Kirton	0	0	0
Broom's Barn (Bury St Edmunds)	0	0	0
Wellesbourne	0	0	0
Hereford	0	0	0
Rothamsted (Harpenden)	0	0	0
Writtle	0	0	0
Silwood Park (nr Ascot)	0	0	0
East Malling	*0		
Starcross (nr Exeter)	0	0	1

Bird cherry-oat aphid – females only (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			Accumulation from 16/09	
	2019	2018	23/09-29/09 10-year average 2009-18	2019	10-year average 2009-18
Dundee	*1479	48	298	1761	738
Gogarbank (Edinburgh)	2409	76	889	3257	1520
Newcastle	969	465	365	1402	665
York	1773	2093		2723	/
Preston	2766	2182	2111	4339	3780
Kirton	1882	1149	655	2246	831
Broom's Barn (Bury St Edmunds)	68	900	588	130	746
Wellesbourne	309	914	715	779	945
Hereford	218	1816	808	491	1137
Rothamsted (Harpenden)	43	449	289	136	383
Writtle	100	962	616	209	743
Silwood Park (nr Ascot)	115	357	240	188	346
East Malling	*56 #				
Starcross (nr Exeter)	175	537	315	226	515

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			23/09-29/09
	2019	2018	10-year average 2009-18	
Dundee	*0	0	1	
Gogarbank (Edinburgh)	3	0	2	
Newcastle	0	0	0	
York	1	0		
Preston	0	0	1	
Kirton	1	0	1	
Broom's Barn (Bury St Edmunds)	1	0	0	
Wellesbourne	0	0	0	
Hereford	0	0	1	
Rothamsted (Harpenden)	0	0	1	
Writtle	0	0	1	
Silwood Park (nr Ascot)	0	0	0	
East Malling	*0			
Starcross (nr Exeter)	1	0	1	

Peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			23/09-29/09
	2019	2018	10-year average 2009-18	
Dundee	*9	0	3	
Gogarbank (Edinburgh)	3	0	0	
Newcastle	0	0	0	
York	38	4		
Preston	0	4	2	
Kirton	15	34	17	
Broom's Barn (Bury St Edmunds)	1	7	6	
Wellesbourne	6	30	18	
Hereford	0	87	15	
Rothamsted (Harpenden)	0	7	3	
Writtle	1	6	4	
Silwood Park (nr Ascot)	0	1	1	
East Malling	*2 #			
Starcross (nr Exeter)	3	18	6	

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			23/09-29/09
	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	1	
Broom's Barn (Bury St Edmunds)	0	0	0	
Wellesbourne	0	0	0	
Hereford	0	0	1	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	0	1	
East Malling	*0			
Starcross (nr Exeter)	0	0	0	

Cabbage aphid <i>(Brevicoryne brassicae)</i>	Bulletin Week Totals			23/09-29/09
	2019	2018	10-year average 2009-18	
Dundee	*0	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	8	1	
York	0	0		
Preston	0	0	0	
Kirton	20	4	3	
Broom's Barn (Bury St Edmunds)	0	2	0	
Wellesbourne	0	3	1	
Hereford	0	0	0	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	0	1	
Silwood Park (nr Ascot)	0	0	0	
East Malling	*0			
Starcross (nr Exeter)	0	1	1	

Willow-carrot aphid <i>(Cavariella aegopodii)</i>	Bulletin Week Totals			23/09-29/09
	2019	2018	10-year average 2009-18	
Dundee	*645	35	73	
Gogarbank (Edinburgh)	10	0	0	
Newcastle	3	4	2	
York	16	0		
Preston	12	4	20	
Kirton	5	1	46	
Broom's Barn (Bury St Edmunds)	0	0	193	
Wellesbourne	0	0	2	
Hereford	0	2	0	
Rothamsted (Harpenden)	0	3	1	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	1	0	
East Malling	*0			
Starcross (nr Exeter)	0	0	1	

Pea aphid <i>(Acyrtosiphon pisum)</i>	Bulletin Week Totals			23/09-29/09
	2019	2018	10-year average 2009-18	
Dundee	*0	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	1	0	0	
York	0	0		
Preston	0	0	0	
Kirton	11	0	1	
Broom's Barn (Bury St Edmunds)	1	0	1	
Wellesbourne	0	0	2	
Hereford	0	1	2	
Rothamsted (Harpenden)	0	0	1	
Writtle	0	0	1	
Silwood Park (nr Ascot)	0	0	1	
East Malling	*0			
Starcross (nr Exeter)	0	8	2	

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		
	23/09-29/09		
	2019	2018	10-year average 2009-18
Dundee	*4	4	0
Gogarbank (Edinburgh)	5	0	2
Newcastle	3	4	1
York	1	0	
Preston	14	4	2
Kirton	3	2	6
Broom's Barn (Bury St Edmunds)	2	10	4
Wellesbourne	0	2	1
Hereford	1	0	1
Rothamsted (Harpenden)	0	0	0
Writtle	2	5	1
Silwood Park (nr Ascot)	2	0	1
East Malling	*0		
Starcross (nr Exeter)	2	1	1

Further information

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

insectsurvey.com

ahdb.org.uk/aphid-news

In partnership with



AHDB
Stoneleigh Park
Kenilworth
Warwickshire
CV8 2TL

T 024 7 669 2051
E info@ahdb.org.uk
W ahdb.org.uk
@TheAHDB

© Agriculture and Horticulture Development Board 2019. All rights reserved.