

AHDB Aphid News

Suction-trap period: 30 September–6 October 2019

General

- The autumn migration continues under heavy rainfall. The total number of aphids has decreased by 74% of that of the previous period.
- Bird cherry–oat aphid numbers decreased to 75% of the previous period, particularly in northern Britain. Numbers accumulated from 16/09 are included. This represents the early emergence of cereal seedlings and gives an indication of the build-up of virus vector pressure. During the period 04/10–10/10, 18% (2 of 11) of these aphids were of the cereal colonising form (the 10-year mean for this period is 5%). Please note that the numbers of this species recorded and tested are lower than the 10-year mean for this time of year.
- Grain aphids were recorded from six sites, increasing at four.
- The latest BYDV tests results are included in this edition. Only a small proportion of aphids entering cereals are likely carry BYDV. Initially, aphids colonise relatively few crop plants. However, the second generation tends to move away from the plant originally colonised. Controlling this generation is a key part of a BYDV management strategy. Use our [BYDV management tool](#) to predict the timing of this generation.
- Peach–potato aphids were recorded from ten sites, increasing at seven, with hotspots at York and Wellesbourne. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- Only four cabbage aphids were recorded from Kirton. 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 nine sites. Numbers at Dundee remain in three figures but are declining. Four male individuals were also recorded from Dundee.
- 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.**

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: **3** (18)
 Broom's Barn: **4** (18)
 Writtle: **0** (18)
 Starcross: **8** (17)
Total: 23 (89)

Grain aphid

Newcastle: **0** (0)
 Kirton: **0** (1)
 Broom's Barn: **0** (1)
 Writtle: **0** (0)
 Starcross: **1** (1)
Total: 1 (3)

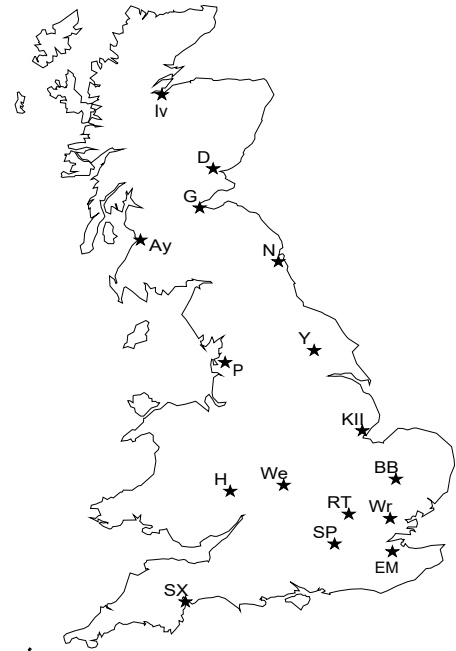
*Samples collected during suction-trap period 23–29 September 2019

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).



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			30/10-06/10
	2019	2018		10-year average 2009-18
Dundee	2	0		0
Gogarbank (Edinburgh)	1	0		1
Newcastle	1	0		0
York	0	0		
Preston	2	0		3
Kirton	0	0		0
Broom's Barn (Bury St Edmunds)	1	0		1
Wellesbourne	*0	0		1
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			30/10-06/10	Accumulation from 16/09	
	2019	2018		10-year average 2009-18	2019	10-year average 2009-18
Dundee	233	71		77	1994	815
Gogarbank (Edinburgh)	404	56		380	3661	1899
Newcastle	346	223		411	1748	1076
York	1764	2797			4487	/
Preston	2277	2155		2305	6616	6084
Kirton	1573	2066		601	3819	1432
Broom's Barn (Bury St Edmunds)	269	1080		588	399	1334
Wellesbourne	*639	2116		576	1418	1521
Hereford	384	1285		717	875	1855
Rothamsted (Harpenden)	79	448		349	215	731
Writtle	225	1379		768	434	1511
Silwood Park (nr Ascot)	78	518		320	266	667
East Malling	278				334	
Starcross (nr Exeter)	180	646		517	406	1032

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			30/10-06/10
	2019	2018	10-year average 2009-18	
Dundee	0	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	0	0	
York	1	0		
Preston	0	0	0	
Kirton	0	0	1	
Broom's Barn (Bury St Edmunds)	0	0	0	
Wellesbourne	*5	5	2	
Hereford	2	0	1	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	0	0	
Silwood Park (nr Ascot)	1	0	1	
East Malling	1 #			
Starcross (nr Exeter)	1	4	2	

Peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			30/10-06/10
	2019	2018	10-year average 2009-18	
Dundee	2	4	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	1	0	0	
York	28	0		
Preston	0	0	1	
Kirton	6	163	25	
Broom's Barn (Bury St Edmunds)	3	13	4	
Wellesbourne	*19	182	30	
Hereford	1	27	8	
Rothamsted (Harpenden)	0	4	2	
Writtle	2	1	3	
Silwood Park (nr Ascot)	0	0	1	
East Malling	6			
Starcross (nr Exeter)	4	22	8	

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			30/10-06/10
	2019	2018	10-year average 2009-18	
Dundee	0	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	0	0	
York	0	0		
Preston	4	0	1	
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	1	
Silwood Park (nr Ascot)	0	0	1	
East Malling	1 #			
Starcross (nr Exeter)	0	0	0	

Cabbage aphid <i>(Brevicoryne brassicae)</i>	Bulletin Week Totals			30/10-06/10
	2019	2018	10-year average 2009-18	
Dundee	0	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	2	0	
York	0	0		
Preston	0	0	1	
Kirton	4	20	7	
Broom's Barn (Bury St Edmunds)	0	0	1	
Wellesbourne	*0	16	2	
Hereford	0	0	1	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	0	0	
East Malling	0			
Starcross (nr Exeter)	0	0	0	

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		30/10-06/10
	2019	2018	10-year average 2009-18
Dundee	142	43	18
Gogarbank (Edinburgh)	51	0	0
Newcastle	1	1	3
York	27	8	
Preston	4	4	35
Kirton	23	23	71
Broom's Barn (Bury St Edmunds)	29	0	81
Wellesbourne	*0	1	6
Hereford	0	1	11
Rothamsted (Harpenden)	0	0	2
Writtle	1	0	1
Silwood Park (nr Ascot)	0	0	1
East Malling	0		
Starcross (nr Exeter)	2	0	3

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		30/10-06/10
	2019	2018	10-year average 2009-18
Dundee	0	0	0
Gogarbank (Edinburgh)	0	0	0
Newcastle	0	0	0
York	4	0	
Preston	0	0	0
Kirton	5	0	1
Broom's Barn (Bury St Edmunds)	1	0	1
Wellesbourne	*2	8	2
Hereford	2	0	1
Rothamsted (Harpenden)	1	1	2
Writtle	1	0	1
Silwood Park (nr Ascot)	0	0	1
East Malling	0		
Starcross (nr Exeter)	3	0	2

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		
	2019	2018	30/10-06/10 10-year average 2009-18
Dundee	0	1	0
Gogarbank (Edinburgh)	1	0	1
Newcastle	0	0	0
York	0	4	
Preston	8	4	2
Kirton	15	17	6
Broom's Barn (Bury St Edmunds)	2	16	7
Wellesbourne	*0	0	0
Hereford	0	0	0
Rothamsted (Harpenden)	0	0	1
Writtle	2	1	1
Silwood Park (nr Ascot)	0	0	0
East Malling	0		
Starcross (nr Exeter)	2	4	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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