

AHDB Aphid News

Suction-trap period: 28 October–3 November 2019

General

- The autumn migration has begun to abate, as average air temperatures continue to dip below the aphid flight threshold. The total number of aphids has decreased to 38% of the previous period.
- Bird cherry–oat aphid numbers also decreased to 29% of the previous period across all sites. Numbers accumulated from 16/09 represent the early emergence of cereal seedlings and indicate potential build-up of virus vector pressure. During the period 25/10–31/10, no female aphids were found at Rothamsted (the 10-year mean for cereal colonisers in this period is 13%).
- Grain aphids were recorded from Dundee, Wellesbourne and Starcross.
- We have had reports from Hutchinsons of cereal aphids still flying to emerging crops in Hertfordshire.
- 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 the [BYDV management tool](#) to predict the timing of this generation.
- Peach–potato aphids were recorded in single figures from four sites and increasing at only Dundee. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- No cabbage aphids were recorded.
- Willow–carrot aphids were found from seven sites, increasing in Scotland with a hotspot at Dundee. 36% of this species were male aphids recorded from Preston, York, Kirton, Broom’s Barn and East Malling and, hence, of no concern to growers.
- The new suction-trap at East Malling (Kent) has entered operation, due to its short run 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 tested indicated in brackets.

Bird cherry–oat aphid

Newcastle: **6** (18)

Kirton: **2** (18)

Broom’s Barn: **3** (18)

Writtle: **3** (18)

Starcross: **2** (18)

Total: 16 (90)

Grain aphid

Newcastle: **0** (0)

Kirton: **0** (1)

Broom’s Barn: **0** (0)

Writtle: **0** (1)

Starcross: **0** (0)

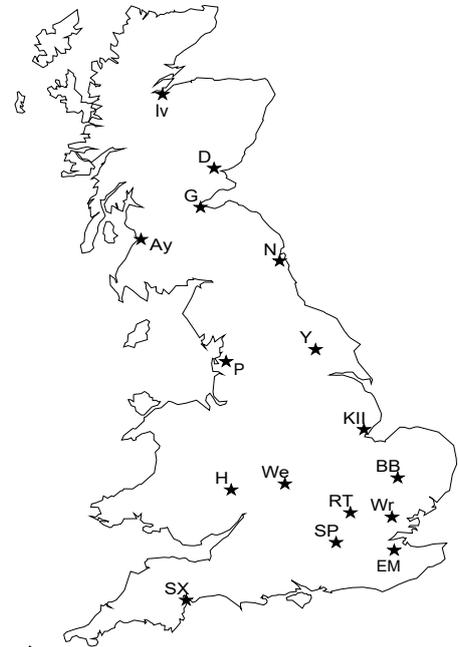
Total: 0 (2)

*Samples collected during suction-trap period 21–27 October 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		
	2019	2018	28/11-03/11 10-year average 2009-18
Dundee	1	2	0
Gogarbank (Edinburgh)	0	0	2
Newcastle	0	0	0
York	0	1	
Preston	*0	2	2
Kirton	*2	0	1
Broom's Barn (Bury St Edmunds)	0	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			28/11-03/11	
	2019	2018	10-year average 2009-18	2019	10-year average 2009-18
Dundee	9	3	1	2739	907
Gogarbank (Edinburgh)	10	2	42	4246	2351
Newcastle	6	4	24	2392	1600
York	34	132		7273	/
Preston	*11	83	262	7923	9096
Kirton	*97	84	93	5295	2742
Broom's Barn (Bury St Edmunds)	13	23	52	656	2413
Wellesbourne	13	34	66	1825	2679
Hereford	16	11	50	1056	2810
Rothamsted (Harpenden)	6	18	40	311	1171
Writtle	41	80	84	775	2745
Silwood Park (nr Ascot)	4	7	28	365	1097
East Malling	28			737	
Starcross (nr Exeter)	17	31	45	767	1564

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			28/11-03/11
	2019	2018	10-year average 2009-18	
Dundee	4	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	1	1	0	
Hereford	0	1	1	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	0	0	
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			28/11-03/11
	2019	2018	10-year average 2009-18	
Dundee	3	0	0	
Gogarbank (Edinburgh)	0	0	1	
Newcastle	0	0	0	
York	0	2		
Preston	*0	0	3	
Kirton	*2	3	22	
Broom's Barn (Bury St Edmunds)	0	2	6	
Wellesbourne	2	3	5	
Hereford	0	0	2	
Rothamsted (Harpenden)	0	0	2	
Writtle	3	2	5	
Silwood Park (nr Ascot)	0	2	1	
East Malling	0			
Starcross (nr Exeter)	0	2	3	

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			28/11-03/11
	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	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	0	

Cabbage aphid <i>(Brevicoryne brassicae)</i>	Bulletin Week Totals			28/11-03/11
	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	18	
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	0	

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals			28/11-03/11
	2019	2018	10-year average 2009-18	
Dundee	229	16	3	
Gogarbank (Edinburgh)	3	0	0	
Newcastle	0	0	0	
York	10	1		
Preston	*0	0	52	
Kirton	*16	11	98	
Broom's Barn (Bury St Edmunds)	4	1	41	
Wellesbourne	1	1	1	
Hereford	0	1	1	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	0	1	
East Malling	1			
Starcross (nr Exeter)	0	1	3	

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals			28/11-03/11
	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	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	

Black bean aphid <i>(Aphis fabae)</i>	Bulletin Week Totals		
	2019	2018	28/11-03/11 10-year average 2009-18
Dundee	0	0	0
Gogarbank (Edinburgh)	0	0	0
Newcastle	0	0	0
York	0	1	
Preston	*0	0	0
Kirton	*7	1	1
Broom's Barn (Bury St Edmunds)	4	0	1
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	0

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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