

AHDB Aphid News

Suction-trap period 7–13 October 2019

General

- The total number of aphids decreased to 60% of the previous period, largely due to unsettled weather.
- Bird cherry–oat aphid numbers decreased to 55% of the previous period across all sites, except Dundee. Numbers accumulated data from 16/09 represents the early emergence of cereal seedlings. This gives an indication of the build-up of virus vector pressure. During the period 11/10–17/10, 39% (14 of 36) of aphids tested were of the cereal colonising form (the 10-year mean for this period is 13%). 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 four sites, increasing at two.
- 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 nine sites, increasing at five, with hotspot at York. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- No cabbage aphids were recorded. 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. There remains a hotspot at Dundee, with York also recording three figures. Seven male individuals were also recorded from Dundee.
- 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 visit: 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: **3** (18)

Broom's Barn: **2** (18)

Writtle: **3** (18)

Starcross: **11** (17)

Total: 25 (89)

Grain aphid

Newcastle: **0** (0)

Kirton: **0** (0)

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

Writtle: **0** (0)

Starcross: **0** (1)

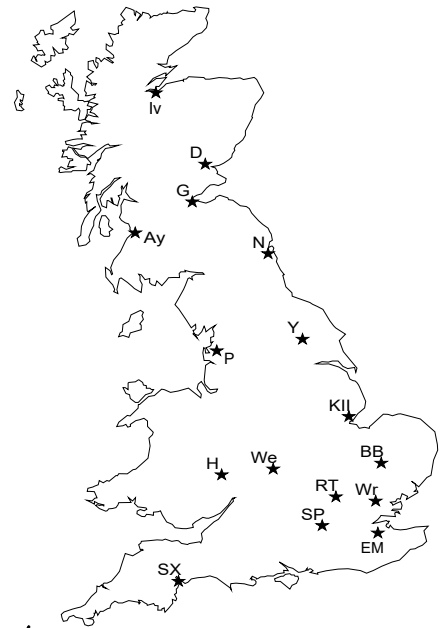
Total: 0 (1)

*Samples collected during suction-trap period 30 September– 6 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	07/10-13/10 10-year average 2009-18
Dundee	*4	1	1
Gogarbank (Edinburgh)	5	1	1
Newcastle	0	0	1
York	0	0	
Preston	1	0	3
Kirton	1	0	0
Broom's Barn (Bury St Edmunds)	0	0	0
Wellesbourne	*0	0	1
Hereford	0	0	0
Rothamsted (Harpenden)	0	1	0
Writtle	0	0	0
Silwood Park (nr Ascot)	0	0	0
East Malling	0		
Starcross (nr Exeter)	2	2	1

Bird cherry-oat aphid – females only (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			Accumulation from 16/09	
	2019	2018	07/10-13/10 10-year average 2009-18	2019	10-year average 2009-18
Dundee	*408	173	61	2402	877
Gogarbank (Edinburgh)	244	249	210	3905	2110
Newcastle	133	184	277	1881	1353
York	1433	906		5920	/
Preston	804	1624	1425	7420	7509
Kirton	376	356	597	4195	2029
Broom's Barn (Bury St Edmunds)	37	1004	494	436	1828
Wellesbourne	*82	1262	612	1500	2133
Hereford	59	1273	498	934	2353
Rothamsted (Harpenden)	38	225	182	253	914
Writtle	130	1167	569	564	2080
Silwood Park (nr Ascot)	34	228	191	300	858
East Malling	99			433	
Starcross (nr Exeter)	110	537	189	516	1221

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			07/10-13/10
	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	1	
Kirton	0	0	0	
Broom's Barn (Bury St Edmunds)	1	0	0	
Wellesbourne	*0	0	1	
Hereford	1	0	2	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	4	1	
Silwood Park (nr Ascot)	0	0	0	
East Malling	1			
Starcross (nr Exeter)	0	0	0	

Peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			07/10-13/10
	2019	2018	10-year average 2009-18	
Dundee	*0	2	0	
Gogarbank (Edinburgh)	0	1	1	
Newcastle	0	1	0	
York	70	2		
Preston	4	0	3	
Kirton	12	14	15	
Broom's Barn (Bury St Edmunds)	1	19	5	
Wellesbourne	*5	55	13	
Hereford	2	45	11	
Rothamsted (Harpenden)	0	6	2	
Writtle	4	27	5	
Silwood Park (nr Ascot)	0	0	1	
East Malling	1			
Starcross (nr Exeter)	2	39	7	

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			07/10-13/10
	2019	2018	10-year average 2009-18	
Dundee	*0	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	0	0	
York	0	0		
Preston	0	0	0	
Kirton	0	0	0	
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	1	0	

Cabbage aphid <i>(Brevicoryne brassicae)</i>	Bulletin Week Totals			07/10-13/10
	2019	2018	10-year average 2009-18	
Dundee	*0	1	0	
Gogarbank (Edinburgh)	0	4	1	
Newcastle	0	0	0	
York	0	4		
Preston	0	0	0	
Kirton	0	0	3	
Broom's Barn (Bury St Edmunds)	0	0	0	
Wellesbourne	*0	1	0	
Hereford	0	0	2	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	1	0	
Silwood Park (nr Ascot)	0	0	0	
East Malling	0			
Starcross (nr Exeter)	0	1	0	

Willow-carrot aphid <i>(Cavariella aegopodii)</i>	Bulletin Week Totals			07/10-13/10
	2019	2018	10-year average 2009-18	
Dundee	*522	344	48	
Gogarbank (Edinburgh)	1	88	13	
Newcastle	0	0	1	
York	15	5		
Preston	30	32	61	
Kirton	105	0	131	
Broom's Barn (Bury St Edmunds)	0	8	595	
Wellesbourne	*0	0	12	
Hereford	0	0	4	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	0	4	
Silwood Park (nr Ascot)	0	0	0	
East Malling	1 #			
Starcross (nr Exeter)	0	2	3	

Pea aphid <i>(Acyrtosiphon pisum)</i>	Bulletin Week Totals			07/10-13/10
	2019	2018	10-year average 2009-18	
Dundee	*0	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	0	0	
York	0	0		
Preston	0	0	0	
Kirton	0	0	1	
Broom's Barn (Bury St Edmunds)	0	0	1	
Wellesbourne	*0	0	2	
Hereford	0	0	0	
Rothamsted (Harpenden)	0	0	0	
Writtle	1	0	1	
Silwood Park (nr Ascot)	0	2	1	
East Malling	1 #			
Starcross (nr Exeter)	0	1	1	

Black bean aphid <i>(Aphis fabae)</i>	Bulletin Week Totals		
	2019	2018	07/10-13/10 10-year average 2009-18
Dundee	*0	0	0
Gogarbank (Edinburgh)	0	4	1
Newcastle	0	0	0
York	0	0	
Preston	0	0	1
Kirton	5	0	8
Broom's Barn (Bury St Edmunds)	0	24	11
Wellesbourne	*0	0	3
Hereford	1	4	1
Rothamsted (Harpenden)	0	1	1
Writtle	1	8	3
Silwood Park (nr Ascot)	0	0	0
East Malling	1 #		
Starcross (nr Exeter)	0	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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