

AHDB Aphid News

Suction-trap period 14–20 October 2019

General

- The total number of aphids has increased to 142%, compared to the previous period.
- Bird cherry–oat aphid numbers also increased to 142% across nine sites. Numbers accumulated from 16/09 represent the early emergence of cereal seedlings and give an indication of the build-up of virus vector pressure. During the period 18/10–24/10, 43% (6 of 14) of these aphids tested were of the cereal colonising form (the 10-year mean for this period is 10%).
- Grain aphids were recorded from six sites, increasing at five.
- 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 all sites, except Dundee and Preston, increasing at eight, with a hotspot at Kirton. 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 nine sites, being particularly prominent in northern Britain, the hotspot has increased at Dundee (71 male individuals were recorded from Dundee), with York also recording three figures.
- The 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: **4** (18)

Kirton: **3** (18)

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

Writtle: **2** (18)

Starcross: **2** (19)

Total: 12 (91)

Grain aphid

Newcastle: **0** (0)

Kirton: **0** (0)

Broom's Barn: **0** (1)

Writtle: **0** (0)

Starcross: **0** (0)

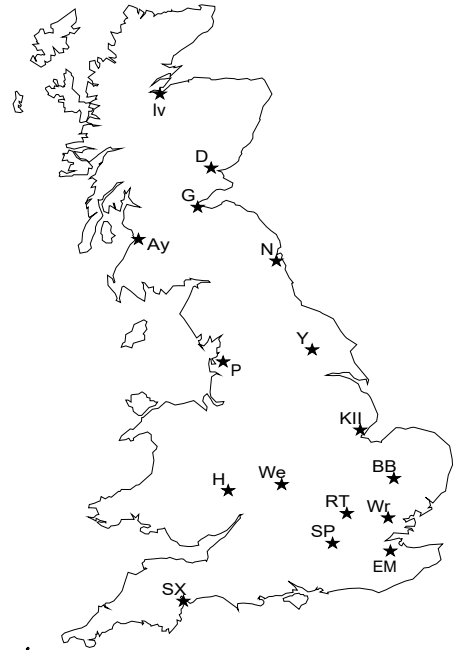
Total: 0 (1)

*Samples collected during suction-trap period 7–13 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	14/10-20/10 10-year average 2009-18
Dundee	*2	0	0
Gogarbank (Edinburgh)	*2	3	2
Newcastle	0	3	1
York	0	0	
Preston	1	0	4
Kirton	3	0	0
Broom's Barn (Bury St Edmunds)	0	8	2
Wellesbourne	0	0	0
Hereford	1	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	4	1

Bird cherry-oat aphid – females (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			Accumulation from 16/09	
	2019	2018	14/10-20/10 10-year average 2009-18	2019	10-year average 2009-18
Dundee	*310	125	27	2712	903
Gogarbank (Edinburgh)	*319	110	162	4224	2271
Newcastle	421	59	198	2302	1551
York	1176	3837		7096	/
Preston	355	2164	984	7775	8493
Kirton	706	2273	447	4901	2475
Broom's Barn (Bury St Edmunds)	147	2062	399	583	2227
Wellesbourne	240	1137	369	1740	2502
Hereford	64	231	307	998	2660
Rothamsted (Harpenden)	22	905	167	275	1080
Writtle	105	1784	380	669	2459
Silwood Park (nr Ascot)	38	458	152	338	1010
East Malling	201			634	
Starcross (nr Exeter)	113	868	193	629	1414

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			14/10-20/10
	2019	2018	10-year average 2009-18	
Dundee	*0	0	0	
Gogarbank (Edinburgh)	*0	0	1	
Newcastle	2	0	0	
York	1	0		
Preston	0	0	0	
Kirton	0	8	1	
Broom's Barn (Bury St Edmunds)	1	0	0	
Wellesbourne	3	1	1	
Hereford	0	0	1	
Rothamsted (Harpenden)	0	0	0	
Writtle	1	0	1	
Silwood Park (nr Ascot)	0	0	1	
East Malling	2			
Starcross (nr Exeter)	0	0	1	

Peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			14/10-20/10
	2019	2018	10-year average 2009-18	
Dundee	*0	6	1	
Gogarbank (Edinburgh)	*2	0	1	
Newcastle	1	0	0	
York	7	16		
Preston	0	0	1	
Kirton	35	181	32	
Broom's Barn (Bury St Edmunds)	6	30	8	
Wellesbourne	5	101	20	
Hereford	1	18	6	
Rothamsted (Harpenden)	1	18	2	
Writtle	5	8	2	
Silwood Park (nr Ascot)	1	26	4	
East Malling	8			
Starcross (nr Exeter)	2	22	5	

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			14/10-20/10
	2019	2018	10-year average 2009-18	
Dundee	*2	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)	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	1	
East Malling	0			
Starcross (nr Exeter)	0	0	0	

Cabbage aphid <i>(Brevicoryne brassicae)</i>	Bulletin Week Totals			14/10-20/10
	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	16	5	
Broom's Barn (Bury St Edmunds)	0	8	1	
Wellesbourne	0	0	1	
Hereford	0	0	3	
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			14/10-20/10
	2019	2018	10-year average 2009-18	
Dundee	*791	313	36	
Gogarbank (Edinburgh)	*11	7	5	
Newcastle	1	0	1	
York	102	296		
Preston	1	48	34	
Kirton	86	8	52	
Broom's Barn (Bury St Edmunds)	14	24	244	
Wellesbourne	1	2	7	
Hereford	0	0	8	
Rothamsted (Harpenden)	0	0	1	
Writtle	0	0	4	
Silwood Park (nr Ascot)	0	0	1	
East Malling	1			
Starcross (nr Exeter)	0	27	7	

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals			14/10-20/10
	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)	1	0	1	
Wellesbourne	2	1	1	
Hereford	1	0	0	
Rothamsted (Harpenden)	0	4	1	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	0	1	
East Malling	3			
Starcross (nr Exeter)	0	3	1	

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		
	2019	2018	14/10-20/10 10-year average 2009-18
Dundee	*2	0	0
Gogarbank (Edinburgh)	*0	0	0
Newcastle	0	2	0
York	1	16	
Preston	0	8	1
Kirton	4	62	11
Broom's Barn (Bury St Edmunds)	12	18	9
Wellesbourne	2	2	3
Hereford	1	4	1
Rothamsted (Harpenden)	0	0	0
Writtle	0	8	1
Silwood Park (nr Ascot)	0	10	1
East Malling	3		
Starcross (nr Exeter)	1	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