

AHDB Aphid News

Suction-trap period 21 October – 27 October 2019

General

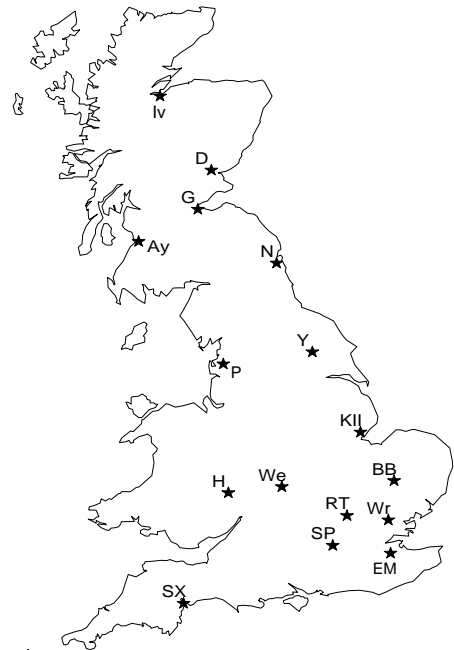
- The autumn migration continues as air temperatures have started to descend to below the aphid flight threshold. The total number of aphids reported upon has decreased 32% of that of the previous period.
- Bird cherry–oat aphid numbers also decreased to 36% of the previous period but increased at two sites in the south. Included on the table this period 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 25/10 – 31/10; the one aphid tested at Rothamsted was not the cereal colonising form (the 10-year mean for this period is 10%).
- Grain aphids were recorded from four sites, increasing at Dundee and Kirton.
- BYDV testing has continued at Rothamsted on 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 eight sites increasing at Hereford, with a hotspot at Kirton still present but declining. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- Two 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, increasing at Writtle and Starcross in the south. Four male individuals were 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 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 tested indicated in brackets.

Bird cherry–oat aphid

Newcastle: **10** (18)

Kirton: **3** (18)

Broom's Barn: **3** (18)

Writtle: **5** (18)

Starcross: **5** (17)

Total: 26 (89)

Grain aphid

Newcastle: **0** (1)

Kirton: **0** (0)

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

Writtle: **0** (1)

Starcross: **0** (0)

Total: 0 (3)

**Samples collected during suction-trap period 14 October – 20 October 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	21/10-27/10 10-year average 2009-18
Dundee	2	0	0
Gogarbank (Edinburgh)	0	0	1
Newcastle	0	0	0
York	0	0	
Preston	0	0	1
Kirton	1	0	0
Broom's Barn (Bury St Edmunds)	2	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	2 #		
Starcross (nr Exeter)	0	0	0

Bird cherry-oat aphid -females only (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			Accumulated from 16/09	
	2019	2018	21/10-27/10 10-year average 2009-18	2019	10-year average 2009-18
Dundee	18	11	3	2730	906
Gogarbank (Edinburgh)	12	6	39	4236	2310
Newcastle	84	0	25	2386	1576
York	143	568		7239	/
Preston	137	208	342	7912	8834
Kirton	298	934	174	5199	2649
Broom's Barn (Bury St Edmunds)	60	571	134	643	2361
Wellesbourne	72	220	111	1812	2613
Hereford	42	57	100	1040	2760
Rothamsted (Harpenden)	30	111	51	305	1132
Writtle	65	698	202	734	2661
Silwood Park (nr Ascot)	23	139	60	361	1069
East Malling	75			709	
Starcross (nr Exeter)	121	321	106	750	1520

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			21/10-27/10
	2019	2018	10-year average 2009-18	
Dundee	1	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	0	0	
York	0	0		
Preston	0	0	0	
Kirton	1	0	0	
Broom's Barn (Bury St Edmunds)	0	2	1	
Wellesbourne	1	0	0	
Hereford	0	0	1	
Rothamsted (Harpenden)	0	0	0	
Writtle	1	0	0	
Silwood Park (nr Ascot)	0	0	0	
East Malling	0			
Starcross (nr Exeter)	0	0	1	

Peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			21/10-27/10
	2019	2018	10-year average 2009-18	
Dundee	0	2	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	0	1	
York	2	8		
Preston	0	0	3	
Kirton	18	27	19	
Broom's Barn (Bury St Edmunds)	1	26	5	
Wellesbourne	2	11	5	
Hereford	3	1	2	
Rothamsted (Harpenden)	0	1	1	
Writtle	3	15	6	
Silwood Park (nr Ascot)	0	2	1	
East Malling	4			
Starcross (nr Exeter)	1	3	1	

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals			21/10-27/10
	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	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			21/10-27/10
	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	2	0	7	
Broom's Barn (Bury St Edmunds)	0	0	0	
Wellesbourne	0	3	0	
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)	0	1	0	

Willow-carrot aphid <i>(Cavariella aegopodii)</i>	Bulletin Week Totals			21/10-27/10
	2019	2018	10-year average 2009-18	
Dundee	10	5	6	
Gogarbank (Edinburgh)	0	0	1	
Newcastle	0	0	1	
York	16	0		
Preston	1	12	74	
Kirton	23	37	56	
Broom's Barn (Bury St Edmunds)	8	0	35	
Wellesbourne	1	0	3	
Hereford	0	0	1	
Rothamsted (Harpenden)	0	0	1	
Writtle	1	0	1	
Silwood Park (nr Ascot)	0	0	0	
East Malling	1			
Starcross (nr Exeter)	2	0	3	

Pea aphid <i>(Acyrtosiphon pisum)</i>	Bulletin Week Totals			21/10-27/10
	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	0	
Wellesbourne	0	0	0	
Hereford	0	0	0	
Rothamsted (Harpenden)	0	1	0	
Writtle	0	0	1	
Silwood Park (nr Ascot)	0	0	0	
East Malling	1			
Starcross (nr Exeter)	0	1	1	

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		
	2019	2018	21/10-27/10 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	11	25	5
Broom's Barn (Bury St Edmunds)	1	14	5
Wellesbourne	0	0	0
Hereford	0	1	0
Rothamsted (Harpenden)	0	0	0
Writtle	3	14	2
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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