

AHDB Aphid News

Suction-trap period 16 September – 22 September 2019

General

- As the autumn migration continues the total number of aphids reported upon has risen by about 334% of that of the previous period.
- Bird cherry–oat aphid numbers increased to 335% of the previous period from across Britain apart from Broom’s Barn and Starcross. During the period 20/09 – 26/09; 64% (37 of 58) of these aphids tested at Rothamsted were of the cereal colonising form (the 10-year mean for this period is 9%).
- Grain aphids were recorded from seven sites, increasing at six.
- BYDV Testing continued at Rothamsted on a number of 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 all sites but Preston, reaching double figures at York. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- Cabbage aphids were found at four sites, reaching double figures at 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 six sites with a hotspot once again at Dundee. No male individuals were recorded.
- 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.

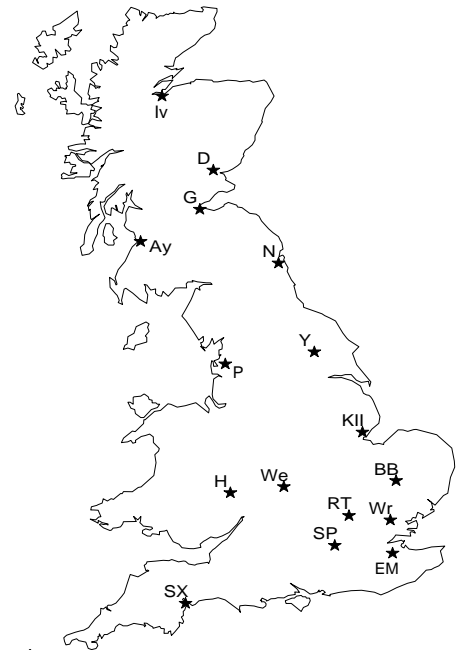
Monitoring crops is recommended.

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).

* The East Malling (EM) trap will start operating during 2019.



BYDV test results

Number of aphids* with BYDV positive test results. Total number selected for testing indicated in brackets.

Bird cherry–oat aphid

Newcastle: **5** (18)

Kirton: **3** (18)

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

Writtle: **7** (18)

Starcross: **6** (18)

Total: 19 (91)

Grain aphid

Newcastle: **0** (0)

Kirton: **1** (1)

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

Writtle: **0** (0)

Starcross: **0** (0)

Total: 1 (1)

*Samples collected during suction-trap period 09 September – 15 September 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			16/09-22/09
	2019	2018		10-year average 2009-18
Dundee	0	0		0
Gogarbank (Edinburgh)	2	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	1		0
Rothamsted (Harpenden)	0	0		0
Writtle	*0	0		0
Silwood Park (nr Ascot)	0	0		0
East Malling	/			
Starcross (nr Exeter)	0	0		0

Bird cherry-oat aphid – females only (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			16/09-22/09
	2019	2018		10-year average 2009-18
Dundee	282	57		441
Gogarbank (Edinburgh)	848	218		630
Newcastle	433	125		300
York	950	675		
Preston	1573	3785		1668
Kirton	364	146		176
Broom's Barn (Bury St Edmunds)	62	178		158
Wellesbourne	470	238		229
Hereford	273	181		330
Rothamsted (Harpenden)	93	29		93
Writtle	*109	147		127
Silwood Park (nr Ascot)	73	55		106
East Malling	/			
Starcross (nr Exeter)	51	71		200

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			16/09-22/09
	2019	2018	10-year average 2009-18	
Dundee	2	0	1	
Gogarbank (Edinburgh)	1	0	1	
Newcastle	0	0	0	
York	0	0		
Preston	1	0	0	
Kirton	2	0	0	
Broom's Barn (Bury St Edmunds)	0	0	2	
Wellesbourne	0	0	0	
Hereford	3	0	1	
Rothamsted (Harpenden)	2	0	0	
Writtle	*0	0	0	
Silwood Park (nr Ascot)	1	0	0	
East Malling	/			
Starcross (nr Exeter)	0	0	1	

Peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			16/09-22/09
	2019	2018	10-year average 2009-18	
Dundee	1	1	3	
Gogarbank (Edinburgh)	2	0	0	
Newcastle	1	0	0	
York	14	2		
Preston	0	0	0	
Kirton	6	1	5	
Broom's Barn (Bury St Edmunds)	2	0	4	
Wellesbourne	3	0	5	
Hereford	1	5	3	
Rothamsted (Harpenden)	1	0	2	
Writtle	*1	0	2	
Silwood Park (nr Ascot)	1	1	1	
East Malling	/			
Starcross (nr Exeter)	4	3	2	

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			16/09-22/09
	2019	2018	10-year average 2009-18	
Dundee	0	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	0	1	
York	0	0		
Preston	0	0	7	
Kirton	0	0	1	
Broom's Barn (Bury St Edmunds)	0	0	0	
Wellesbourne	0	0	1	
Hereford	0	1	0	
Rothamsted (Harpenden)	0	0	0	
Writtle	*0	0	0	
Silwood Park (nr Ascot)	0	0	1	
East Malling	/			
Starcross (nr Exeter)	0	0	0	

Cabbage aphid <i>(Brevicoryne brassicae)</i>	Bulletin Week Totals			16/09-22/09
	2019	2018	10-year average 2009-18	
Dundee	0	0	0	
Gogarbank (Edinburgh)	0	1	0	
Newcastle	0	1	0	
York	0	0		
Preston	1	0	0	
Kirton	11	0	1	
Broom's Barn (Bury St Edmunds)	1	0	0	
Wellesbourne	0	0	1	
Hereford	0	0	2	
Rothamsted (Harpenden)	1	0	0	
Writtle	*0	0	1	
Silwood Park (nr Ascot)	0	0	0	
East Malling	/			
Starcross (nr Exeter)	0	0	1	

Willow-carrot aphid <i>(Cavariella aegopodii)</i>	Bulletin Week Totals			16/09-22/09
	2019	2018	10-year average 2009-18	
Dundee	30	14	34	
Gogarbank (Edinburgh)	5	0	1	
Newcastle	0	0	1	
York	6	0		
Preston	2	0	6	
Kirton	1	0	4	
Broom's Barn (Bury St Edmunds)	0	0	84	
Wellesbourne	0	0	0	
Hereford	0	0	3	
Rothamsted (Harpenden)	0	0	1	
Writtle	*1	0	0	
Silwood Park (nr Ascot)	0	0	0	
East Malling	/			
Starcross (nr Exeter)	0	0	1	

Pea aphid <i>(Acyrtosiphon pisum)</i>	Bulletin Week Totals			16/09-22/09
	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	1	
Kirton	6	0	1	
Broom's Barn (Bury St Edmunds)	0	0	1	
Wellesbourne	2	0	3	
Hereford	4	0	0	
Rothamsted (Harpenden)	2	0	2	
Writtle	*3	0	0	
Silwood Park (nr Ascot)	2	0	0	
East Malling	/			
Starcross (nr Exeter)	0	1	1	

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		
	16/09-22/09		
	2019	2018	10-year average 2009-18
Dundee	4	0	1
Gogarbank (Edinburgh)	13	2	2
Newcastle	9	0	1
York	4	1	
Preston	1	0	1
Kirton	3	1	2
Broom's Barn (Bury St Edmunds)	2	1	4
Wellesbourne	3	0	1
Hereford	0	0	1
Rothamsted (Harpenden)	0	0	0
Writtle	*0	0	1
Silwood Park (nr Ascot)	1	0	0
East Malling	/		
Starcross (nr Exeter)	0	1	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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