

# AHDB Aphid News

Suction-trap period 11 November – 17 November 2019

## General

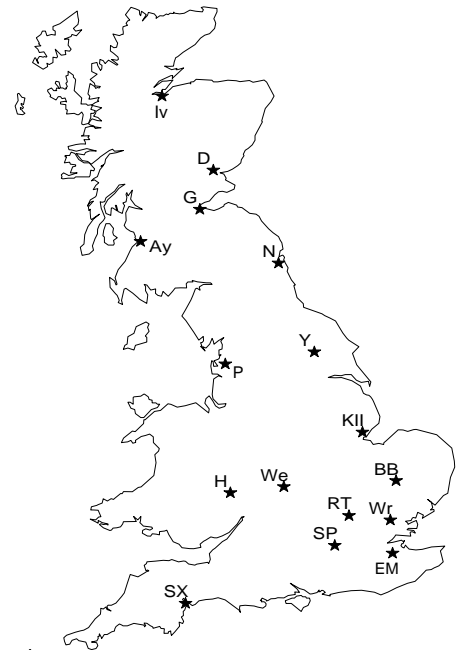
- The autumn migration is drawing to a close and average air temperatures remain below the aphid flight threshold. The total number of aphids reported upon has decreased to 20% of that of the previous period. **This will be the last aphid news sheet for 2019, but we will produce an aphid bulletin next week to support late drilled cereal growers. Aphid forecasts for 2019 will be issued in early March 2019 and daily trapping will recommence around Easter.**
- Bird cherry–oat aphid numbers decreased to 14% of the previous period across all sites. 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 15/11 – 21/11; no female aphids were found at Rothamsted (no 10-year mean for cereal colonisers exists for this period).
- No Grain aphids were recorded.
- 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.
- Two Peach–potato aphids were recorded from Broom’s Barn and single individuals were found at Writtle and East Malling. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- No cabbage aphids were recorded.
- There was still a hotspot for Willow–carrot aphids at Broom’s Barn. Once again 95% of those found were male aphids 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](https://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: **2** (6)

Kirton: **2** (24)

Broom's Barn: **1** (8)

Writtle: **6** (14)

Starcross: **2** (6)

**Total: 13** (58)

#### Grain aphid

Newcastle: **0** (0)

Kirton: **0** (0)

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

Writtle: **0** (0)

Starcross: **0** (1)

**Total: 0** (2)

\*Samples collected during suction-trap period 04 November – 11 November 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	11/11-17/11 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	0
East Malling	0		
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	11/11-17/11 10-year average 2009-18	2019	10-year average 2009-18
Dundee	0	3	0	2743	909
Gogarbank (Edinburgh)	0	4	1	4248	2356
Newcastle	0	1	1	2398	1611
York	*0	55		7324	/
Preston	3	34	24	7930	9181
Kirton	*0	41	16	5322	2798
Broom's Barn (Bury St Edmunds)	0	6	8	666	2437
Wellesbourne	0	38	9	1827	2723
Hereford	3	5	10	1060	2840
Rothamsted (Harpenden)	0	16	7	317	1190
Writtle	2	26	12	792	2775
Silwood Park (nr Ascot)	0	7	6	366	1113
East Malling	0			751	
Starcross (nr Exeter)	2	22	14	775	1594

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			11/11-17/11
	2019	2018	10-year average 2009-18	
Dundee	0	1	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	1	0	
York	*0	1		
Preston	0	0	0	
Kirton	*0	0	0	
Broom's Barn (Bury St Edmunds)	0	0	0	
Wellesbourne	0	1	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	

Peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			11/11-17/11
	2019	2018	10-year average 2009-18	
Dundee	0	5	1	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	1	0	
York	*0	21		
Preston	0	3	1	
Kirton	*0	3	4	
Broom's Barn (Bury St Edmunds)	2	4	2	
Wellesbourne	0	4	3	
Hereford	0	1	2	
Rothamsted (Harpenden)	0	6	1	
Writtle	1	9	3	
Silwood Park (nr Ascot)	0	1	0	
East Malling	1			
Starcross (nr Exeter)	0	2	1	

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			11/11-17/11
	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	1	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			11/11-17/11
	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	2	
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			11/11-17/11
	2019	2018	10-year average 2009-18	
Dundee	0	78	9	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	0	0	0	
York	*0	2		
Preston	0	7	4	
Kirton	*0	0	7	
Broom's Barn (Bury St Edmunds)	45	0	7	
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	1	1	

Pea aphid <i>(Acyrtosiphon pisum)</i>	Bulletin Week Totals			11/11-17/11
	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	2	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	

Black bean aphid ( <i>Aphis fabae</i> )	Bulletin Week Totals		
	2019	2018	11/11-17/11 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	6	2
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

### Further information

Please send information on crop aphids to: [alex.greenslade@rothamsted.ac.uk](mailto:alex.greenslade@rothamsted.ac.uk)

[insectsurvey.com](http://insectsurvey.com)

[ahdb.org.uk/aphid-news](http://ahdb.org.uk/aphid-news)

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