

# AHDB Aphid News

## Suction-trap period: 31 August to 6 September 2020

In response to COVID-19, the Rothamsted Insect Survey is operating at reduced capacity. Substantial disruption to the normal reporting service is expected.

Rothamsted Insect Survey has a new, free BYDV text-messaging service to provide regional information on cereal aphid vectors. To sign up, visit [insectsurvey.com/aphid-alert](https://insectsurvey.com/aphid-alert)

### General

- Due to technical difficulties, relating to the current situation, 10-year average data (2009–18) is displayed on the tables and on the Rothamsted Insect Survey website.
- The accumulation data for Newcastle, Preston and Writtle are unreliable due to a substantial gap.
- The total number of aphids reported upon has risen by about 131% of that of the previous period.
- Bird cherry–oat aphid numbers increased to 133% of the previous period. The increase is particularly marked towards southern Britain, suggesting that this year's autumn cereal aphid migration is underway. During the period 04/09–10/09, all of the eight aphids tested at Rothamsted were of the cereal-colonising form (there are no 10-year weekly mean values this early in the season).
- Grain aphids were recorded from five sites in single figures.
- 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.
- Single peach–potato aphids were recorded from five sites. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- Cabbage aphids were found at Kirton and Wellesbourne. 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 three sites including a hotspot at Dundee. No male individuals were recorded.
- Aphids that have located unprotected crops will continue to do well at temperatures above 3°C.

**Crop inspections are advised.**

## 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.

Only tables for species reported upon that have been recorded so far this year are displayed.

Rose-grain aphid ( <i>Metopolophium dirhodum</i> )	Bulletin Week Totals			31/09-06/09
	2020	2018	10-year average 2009-18	
Dundee	0	0	0	
Gogarbank (Edinburgh)	0	1	0	
Newcastle	*0	0	1	
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	1	
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			31/09-06/09
	2020	2018	10-year average 2009-18	
Dundee	87	38	123	
Gogarbank (Edinburgh)	84	69	263	
Newcastle	*9	65	99	
York	*12	57		
Preston	29	547	236	
Kirton	5	22	21	
Broom's Barn (Bury St Edmunds)	21	20	31	
Wellesbourne	*4	66	85	
Hereford	*8	61	86	
Rothamsted (Harpenden)	10	15	28	
Writtle	13	24	25	
Silwood Park (nr Ascot)	10	10	29	
East Malling	7			
Starcross (nr Exeter)	9	47	62	

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			31/09-06/09
	2020	2018	10-year average 2009-18	
Dundee	6	0	7	
Gogarbank (Edinburgh)	2	2	6	
Newcastle	*0	0	4	
York	*0	0		
Preston	1	0	2	
Kirton	0	0	1	
Broom's Barn (Bury St Edmunds)	0	0	1	
Wellesbourne	*0	0	5	
Hereford	*0	0	4	
Rothamsted (Harpenden)	1	0	1	
Writtle	0	0	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			31/09-06/09
	2020	2018	10-year average 2009-18	
Dundee	1	2	3	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	*0	1	1	
York	*0	0		
Preston	0	0	1	
Kirton	1	3	1	
Broom's Barn (Bury St Edmunds)	0	0	1	
Wellesbourne	*1	0	2	
Hereford	*1	2	1	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	0	0	
Silwood Park (nr Ascot)	1	0	0	
East Malling	0			
Starcross (nr Exeter)	0	1	1	

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			31/09-06/09
	2020	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	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	1	

Cabbage aphid <i>(Brevicoryne brassicae)</i>	Bulletin Week Totals			31/09-06/09
	2020	2018	10-year average 2009-18	
Dundee	0	0	0	
Gogarbank (Edinburgh)	0	3	0	
Newcastle	*0	0	0	
York	*0	0		
Preston	0	0	0	
Kirton	18	1	1	
Broom's Barn (Bury St Edmunds)	0	0	0	
Wellesbourne	*1	0	0	
Hereford	*0	0	4	
Rothamsted (Harpenden)	0	0	1	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	0	0	
East Malling	0			
Starcross (nr Exeter)	0	0	1	

Willow-carrot aphid ( <i>Cavariella aegopodii</i> )	Bulletin Week Totals			31/09-06/09
	2020	2018	10-year average 2009-18	
Dundee	58	9	9	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	*4	0	0	
York	*0	0		
Preston	2	0	3	
Kirton	0	1	1	
Broom's Barn (Bury St Edmunds)	0	0	3	
Wellesbourne	*0	0	0	
Hereford	*0	0	0	
Rothamsted (Harpenden)	0	0	1	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	0	0	
East Malling	0			
Starcross (nr Exeter)	0	0	0	

Pea aphid ( <i>Acyrtosiphon pisum</i> )	Bulletin Week Totals			31/09-06/09
	2020	2018	10-year average 2009-18	
Dundee	1	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)	1	0	1	
Wellesbourne	*1	2	2	
Hereford	*0	1	1	
Rothamsted (Harpenden)	0	0	0	
Writtle	1	1	3	
Silwood Park (nr Ascot)	0	0	0	
East Malling	0			
Starcross (nr Exeter)	0	0	1	

Black bean aphid ( <i>Aphis fabae</i> )	Bulletin Week Totals		
	2020	2018	31/09-06/09 10-year average 2009-18
Dundee	5	1	1
Gogarbank (Edinburgh)	2	2	5
Newcastle	*0	0	5
York	*0	0	
Preston	0	0	2
Kirton	0	1	1
Broom's Barn (Bury St Edmunds)	0	0	1
Wellesbourne	*1	1	1
Hereford	*0	0	2
Rothamsted (Harpenden)	0	1	0
Writtle	0	1	0
Silwood Park (nr Ascot)	1	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/aphid-bulletin](http://insectsurvey.com/aphid-bulletin)

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

In partnership with



## Yellow-water-trap period: 2–10 September 2020

### General

About 100 yellow water traps are located in/close to seed potato crops across Great Britain. Traps are emptied approximately weekly by the host growers/agronomists, with full results (individual counts and weekly averages) published on a dedicated [aphid monitoring website](#).

Compared to the suction traps, the yellow water traps provide more localised information on which aphids are flying close to seed potato crops. Although yellow water trap results and commentary focus on aphids that transmit potato viruses, data on a wider range of aphid species, including cereal aphids, is published. Used as part of wider aphid monitoring, these results can help build up a picture of regional aphid risks.

### Yellow water trap data

- 6 samples received this period, from Grampian and East Anglia only
- 1063 samples received so far this year.

Region	No. samples	Total rose-grain aphid trapped	Average rose-grain aphid per sample	Total bird cherry-oat aphid trapped	Average bird cherry-oat aphid per sample	Total grain aphid trapped	Average grain aphid per sample
<b>North Scotland</b>	North Scotland	0	-	-	-	-	-
<b>Grampian</b>	Grampian	4	0	-	17	4.3	1
<b>Angus &amp; Perthshire</b>	Angus & Perthshire	0	-	-	-	-	-
<b>Borders</b>	Borders	0	-	-	-	-	-
<b>Northern England</b>	Northern England	0	-	-	-	-	-
<b>East Anglia</b>	East Anglia	2	0	-	0	-	0
<b>Midlands</b>	Midlands	0	-	-	-	-	-
<b>South-West</b>	South-West	0	-	-	-	-	-
<b>Total</b>	Total	6	0	0.0	17	2.8	1

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

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