

# AHDB Aphid News

## Suction-trap period: 7–13 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.
- As the autumn migration continues, the total number of aphids has risen by about 208% of the previous period. Much of this increase can be attributed to bird cherry–oat aphid.
- Bird cherry–oat aphid numbers increased to 247% of the previous period, with a hotspot at Preston and numbers rising at all sites, except Dundee. During the period 11/09–17/09, seven of the seventeen aphids tested at Rothamsted were of the cereal colonising form (the 10-year weekly mean is 20%).
- Grain aphids were recorded from four sites in very low single figures.
- BYDV testing has begun at Rothamsted on some cereal aphids captured from selected sites during the previous **two** bulletin periods (see BYDV test results section).
- 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. 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 three sites, reaching double figures at Kirton. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- Cabbage aphids were only recorded from Kirton but reached double figures. 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 only found from Dundee and Newcastle. 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.**

### BYDV test results

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

#### Bird cherry–oat aphid

York: **4** (24)

Broom's Barn: **1** (16)

Hereford: **4** (16)

Starcross: **5** (16)

**Total: 14** (72)

#### Grain aphid

York: **1** (1)

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

Hereford: **0** (1)

Starcross: **0** (2)

**Total: 1** (4)

*\*Samples collected during suction-trap period 24 August–6 September 2020*

## 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		
	2020	2018	07/09-13/09 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	1
Hereford	*0	1	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		
	2020	2018	07/09-13/09 10-year average 2009-18
Dundee	18	16	126
Gogarbank (Edinburgh)	95	96	268
Newcastle	*12	49	214
York	118	198	
Preston	246	694	695
Kirton	13	127	86
Broom's Barn (Bury St Edmunds)	54	187	59
Wellesbourne	32	180	167
Hereford	*26	185	94
Rothamsted (Harpenden)	42	113	34
Writtle	38	115	45
Silwood Park (nr Ascot)	31	55	69
East Malling	35		
Starcross (nr Exeter)	85	139	83

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			07/09-13/09
	2020	2018		10-year average 2009-18
Dundee	1	0		2
Gogarbank (Edinburgh)	2	0		5
Newcastle	*0	0		2
York	0	0		
Preston	0	1		1
Kirton	1	0		1
Broom's Barn (Bury St Edmunds)	0	0		1
Wellesbourne	0	0		4
Hereford	*0	0		1
Rothamsted (Harpenden)	2	0		0
Writtle	0	0		1
Silwood Park (nr Ascot)	0	0		1
East Malling	0			
Starcross (nr Exeter)	0	0		1

Peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			07/09-13/09
	2020	2018		10-year average 2009-18
Dundee	0	0		1
Gogarbank (Edinburgh)	0	0		0
Newcastle	*0	0		0
York	0	0		
Preston	0	0		1
Kirton	14	10		2
Broom's Barn (Bury St Edmunds)	0	0		2
Wellesbourne	0	0		5
Hereford	*0	0		1
Rothamsted (Harpenden)	0	0		1
Writtle	2	0		2
Silwood Park (nr Ascot)	0	0		0
East Malling	0			
Starcross (nr Exeter)	1	1		1

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			07/09-13/09
	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	2	
Kirton	0	0	0	
Broom's Barn (Bury St Edmunds)	0	0	2	
Wellesbourne	0	0	1	
Hereford	*2	0	1	
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			07/09-13/09
	2020	2018	10-year average 2009-18	
Dundee	0	0	0	
Gogarbank (Edinburgh)	0	1	0	
Newcastle	*0	0	0	
York	0	0		
Preston	0	0	0	
Kirton	40	9	1	
Broom's Barn (Bury St Edmunds)	0	0	0	
Wellesbourne	0	0	0	
Hereford	*0	1	3	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	1	0	
East Malling	0			
Starcross (nr Exeter)	0	0	0	

Willow-carrot aphid <i>(Cavariella aegopodii)</i>	Bulletin Week Totals			07/09-13/09
	2020	2018	10-year average 2009-18	
Dundee	1	3	4	
Gogarbank (Edinburgh)	0	0	1	
Newcastle	*2	0	1	
York	0	0		
Preston	0	0	3	
Kirton	0	5	4	
Broom's Barn (Bury St Edmunds)	0	0	4	
Wellesbourne	0	0	1	
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	

Pea aphid <i>(Acyrtosiphon pisum)</i>	Bulletin Week Totals			07/09-13/09
	2020	2018	10-year average 2009-18	
Dundee	0	0	0	
Gogarbank (Edinburgh)	0	0	0	
Newcastle	*0	0	0	
York	0	0		
Preston	1	0	0	
Kirton	2	0	1	
Broom's Barn (Bury St Edmunds)	0	0	2	
Wellesbourne	0	0	4	
Hereford	*0	2	1	
Rothamsted (Harpenden)	2	0	1	
Writtle	0	0	1	
Silwood Park (nr Ascot)	0	0	1	
East Malling	0			
Starcross (nr Exeter)	1	3	1	

Black bean aphid ( <i>Aphis fabae</i> )	Bulletin Week Totals		
	2020	2018	07/09-13/09 10-year average 2009-18
Dundee	13	0	1
Gogarbank (Edinburgh)	1	0	4
Newcastle	*0	0	3
York	0	1	
Preston	3	0	2
Kirton	0	0	2
Broom's Barn (Bury St Edmunds)	1	1	1
Wellesbourne	2	0	1
Hereford	*0	0	2
Rothamsted (Harpenden)	2	0	0
Writtle	0	0	0
Silwood Park (nr Ascot)	0	0	0
East Malling	5		
Starcross (nr Exeter)	1	0	1

### 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: 9–17 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

- 4 samples received (Grampian only)
- 1067 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
North Scotland	0	-	-	-	-	-	-
Grampian	4	0	-	2	0.5	0	-
Angus & Perthshire	0	-	-	-	-	-	-
Borders	0	-	-	-	-	-	-
Northern England	0	-	-	-	-	-	-
East Anglia	0	-	-	-	-	-	-
Midlands	0	-	-	-	-	-	-
South-West	0	-	-	-	-	-	-
<b>Total</b>	4	0	-	2	0.5	0	-

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

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