

AHDB Aphid News

Suction-trap period: 14–20 September 2020

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

Yellow-water-trap data (traps located in/close to seed potato crops) will return next spring.

General

- Due to technical difficulties, relating to the COVID-19 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 456% of that of the previous period. Most of this increase can be attributed to bird cherry–oat aphid.
- Bird cherry–oat aphid numbers increased over all available sites to 486% of the previous period, with hotspots at Preston and Starcross. We have received a report of this species reproducing on wheat in Suffolk. During the period 18/09–24/09; 16/61 aphids tested at Rothamsted were of the cereal colonising form (the 10-year weekly mean is 22%).
- Grain aphids were recorded from six sites in single figures.
- 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 that was 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 nine sites, increasing in the south as far north as Broom’s Barn. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- Cabbage aphids were recorded from four sites with Kirton still reaching 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 found from four sites, mainly towards the north of Britain. No male individuals were recorded.
- Aphids that have colonised 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 tested indicated in brackets.

Bird cherry–oat aphid

York: **12** (24)
 Hereford: **6** (20)
 Starcross: **5** (24)
 Broom’s Barn: **4** (24)

Total: 27 (92)

Grain aphid

York: **0** (0)
 Hereford: **0** (0)
 Starcross: **0** (0)
 Broom’s Barn: **0** (0)

Total: 0 (0)

* Samples collected during the period 7–13 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			14/09-20/09
	2020	2018	10-year average 2009-18	
Dundee	/	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	1	0	0	
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)	1	0	0	

Bird cherry-oat aphid – females only (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			14/09-20/09
	2020	2018	10-year average 2009-18	
Dundee	/	57	441	
Gogarbank (Edinburgh)	*383	218	630	
Newcastle	*168	125	300	
York	412	675		
Preston	*809	3785	1668	
Kirton	103	146	176	
Broom's Barn (Bury St Edmunds)	110	178	158	
Wellesbourne	237	238	229	
Hereford	118	181	330	
Rothamsted (Harpenden)	98	29	93	
Writtle	270	147	127	
Silwood Park (nr Ascot)	227	55	106	
East Malling	231			
Starcross (nr Exeter)	940	71	200	

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			14/09-20/09
	2020	2018	10-year average 2009-18	
Dundee	/	0	1	
Gogarbank (Edinburgh)	*0	0	1	
Newcastle	*5	0	0	
York	0	0		
Preston	*0	0	0	
Kirton	1	0	0	
Broom's Barn (Bury St Edmunds)	0	0	2	
Wellesbourne	2	0	0	
Hereford	0	0	1	
Rothamsted (Harpenden)	1	0	0	
Writtle	2	0	0	
Silwood Park (nr Ascot)	0	0	0	
East Malling	1			
Starcross (nr Exeter)	0	0	1	

peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			14/09-20/09
	2020	2018	10-year average 2009-18	
Dundee	/	1	3	
Gogarbank (Edinburgh)	*0	0	0	
Newcastle	*0	0	0	
York	0	2		
Preston	*0	0	0	
Kirton	8	1	5	
Broom's Barn (Bury St Edmunds)	4	0	4	
Wellesbourne	3	0	5	
Hereford	1	5	3	
Rothamsted (Harpenden)	1	0	2	
Writtle	5	0	2	
Silwood Park (nr Ascot)	6	1	1	
East Malling	4			
Starcross (nr Exeter)	4	3	2	

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			14/09-20/09
	2020	2018	10-year average 2009-18	
Dundee	/	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	0			
Starcross (nr Exeter)	0	0	0	

Cabbage aphid <i>(Brevicoryne brassicae)</i>	Bulletin Week Totals			14/09-20/09
	2020	2018	10-year average 2009-18	
Dundee	/	0	0	
Gogarbank (Edinburgh)	*0	1	0	
Newcastle	*0	1	0	
York	0	0		
Preston	*0	0	0	
Kirton	16	0	1	
Broom's Barn (Bury St Edmunds)	1	0	0	
Wellesbourne	0	0	1	
Hereford	0	0	2	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	0	1	
Silwood Park (nr Ascot)	0	0	0	
East Malling	2			
Starcross (nr Exeter)	3	0	1	

Willow-carrot aphid <i>(Cavariella aegopodii)</i>	Bulletin Week Totals			14/09-20/09
	2020	2018	10-year average 2009-18	
Dundee	/	14	34	
Gogarbank (Edinburgh)	*7	0	1	
Newcastle	*5	0	1	
York	3	0		
Preston	*0	0	6	
Kirton	0	0	4	
Broom's Barn (Bury St Edmunds)	0	0	84	
Wellesbourne	1	0	0	
Hereford	0	0	3	
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	

Pea aphid <i>(Acyrtosiphon pisum)</i>	Bulletin Week Totals			14/09-20/09
	2020	2018	10-year average 2009-18	
Dundee	/	0	0	
Gogarbank (Edinburgh)	*0	0	0	
Newcastle	*0	0	0	
York	1	0		
Preston	*0	0	1	
Kirton	1	0	1	
Broom's Barn (Bury St Edmunds)	3	0	1	
Wellesbourne	6	0	3	
Hereford	3	0	0	
Rothamsted (Harpenden)	1	0	2	
Writtle	6	0	0	
Silwood Park (nr Ascot)	1	0	0	
East Malling	1			
Starcross (nr Exeter)	4	1	1	

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		
	2020	2018	14/09-20/09 10-year average 2009-18
Dundee	/	0	1
Gogarbank (Edinburgh)	*5	2	2
Newcastle	*0	0	1
York	3	1	
Preston	*2	0	1
Kirton	1	1	2
Broom's Barn (Bury St Edmunds)	0	1	4
Wellesbourne	3	0	1
Hereford	0	0	1
Rothamsted (Harpenden)	3	0	0
Writtle	2	0	1
Silwood Park (nr Ascot)	1	0	0
East Malling	11		
Starcross (nr Exeter)	0	1	1

Further information

Please send information on crop aphids to: alex.greenslade@rothamsted.ac.uk

insectsurvey.com/aphid-bulletin

ahdb.org.uk/aphid-news

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