

AHDB Aphid News

Suction-trap period 28 September – 04 October 2020

General

The Rothamsted Insect Survey have a new BYDV text messaging service to inform cereal growers about the number of aphid vectors in their area. The service is free, see: <https://insectsurvey.com/aphid-alert>.

- Due to technical difficulties relating to the current situation, 10-year average data will be displayed on the data tables below and on the Rothamsted Insect Survey website from 2009 – 2018.
- Scottish suction-trap data is not available for this sampling period.
- As the autumn migration continues; despite heavy rain across Britain the total number of aphids reported upon has increased to 190% of that of the previous period most of this increase is attributable to Bird cherry-oat aphid.
- Bird cherry-oat aphid numbers increased to 193% of the previous period. Numbers are still rising at all English sites except Wellesbourne, with four-figure hotspot at York and Preston. Included on the table this week are numbers accumulated from 14/09, representing the early emergence of cereal seedlings to give an indication of the build-up of virus vector pressure. During the period 02/10 – 08/10; two of the sixteen aphids tested (13%) at Rothamsted were of the cereal colonising form (the 10-year weekly mean is 8%).
- Grain aphids were recorded from six sites in low single figures.
- Hutchinsons report cereal aphids reproducing on cover crop oats in the Cotswolds, as well as aphids flying more generally across Britain during breaks in the rainy weather.
- BYDV testing continued at Rothamsted on a number of cereal aphids from selected sites captured during the previous bulletin period. Included this week are aphids tested from Gogarbank.
- 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. 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 nine sites across England, increasing at five. 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 and increasing at three. 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 seven sites. Three male individuals were recorded from York.
- 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

Gogarbank: **11** (24)

York: **7** (23)

Broom's Barn: **8** (23)

Hereford: **10** (23)

Starcross: **10** (23)

Total: 46 (116)

Grain aphid

Gogarbank: **0** (0)

York: **0** (0)

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

Hereford: **0** (0)

Starcross: **0** (0)

Total: 0 (0)

* Samples collected during period 21 Sept – 27 Sept 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.

Rose-grain aphid (<i>Metopolophium dirhodum</i>)	Bulletin Week Totals		
	2020	2018	28/10-04/10 10-year average 2009-18
Dundee	/	0	0
Gogarbank (Edinburgh)	/	0	1
Newcastle	*0	0	0
York	0	0	
Preston	0	0	3
Kirton	0	0	0
Broom's Barn (Bury St Edmunds)	0	0	1
Wellesbourne	1	0	1
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)	1	0	1

Bird cherry-oat aphid – females only (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			28/10-04/10	
	2020	2018	10-year average 2009-18	2020	10-year average 2009-18
Dundee	/	71	77	0	815
Gogarbank (Edinburgh)	/	56	380	524	1899
Newcastle	*369	223	411	616	1076
York	1647	2797		2629	
Preston	2072	2155	2305	4405	6084
Kirton	447	2066	601	831	1432
Broom's Barn (Bury St Edmunds)	417	1080	588	649	1334
Wellesbourne	334	2116	576	914	1521
Hereford	201	1285	717	504	1855
Rothamsted (Harpenden)	*149	448	349	348	731
Writtle	288	1379	768	763	1511
Silwood Park (nr Ascot)	98	518	320	381	667
East Malling	153			444	
Starcross (nr Exeter)	667	646	517	1822	1032

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals			28/10-04/10	
	2020	2018	10-year average 2009-18		
Dundee	/	0	0		
Gogarbank (Edinburgh)	/	0	0		
Newcastle	*0	0	0		
York	1	0			
Preston	1	0	0		
Kirton	1	0	1		
Broom's Barn (Bury St Edmunds)	0	0	0		
Wellesbourne	0	5	2		
Hereford	1	0	1		
Rothamsted (Harpenden)	*2	0	0		
Writtle	2	0	0		
Silwood Park (nr Ascot)	0	0	1		
East Malling	0				
Starcross (nr Exeter)	0	4	2		

Peach-potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals			28/10-04/10
	2020	2018	10-year average 2009-18	
Dundee	/	4	0	
Gogarbank (Edinburgh)	/	0	0	
Newcastle	*2	0	0	
York	0	0		
Preston	0	0	1	
Kirton	22	163	25	
Broom's Barn (Bury St Edmunds)	12	13	4	
Wellesbourne	19	182	30	
Hereford	6	27	8	
Rothamsted (Harpenden)	*12	4	2	
Writtle	5	1	3	
Silwood Park (nr Ascot)	0	0	1	
East Malling	6			
Starcross (nr Exeter)	4	22	8	

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals			28/10-04/10
	2020	2018	10-year average 2009-18	
Dundee	/	0	0	
Gogarbank (Edinburgh)	/	0	0	
Newcastle	*0	0	0	
York	0	0		
Preston	0	0	1	
Kirton	0	0	0	
Broom's Barn (Bury St Edmunds)	1	0	0	
Wellesbourne	0	0	0	
Hereford	0	0	0	
Rothamsted (Harpenden)	*0	0	0	
Writtle	0	0	1	
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			28/10-04/10
	2020	2018	10-year average 2009-18	
Dundee	/	0	0	
Gogarbank (Edinburgh)	/	0	0	
Newcastle	*0	2	0	
York	0	0		
Preston	0	0	1	
Kirton	10	20	7	
Broom's Barn (Bury St Edmunds)	0	0	1	
Wellesbourne	2	16	2	
Hereford	0	0	1	
Rothamsted (Harpenden)	*1	0	0	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	0	0	
East Malling	0			
Starcross (nr Exeter)	5	0	0	

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals			28/10-04/10
	2020	2018	10-year average 2009-18	
Dundee	/	43	18	
Gogarbank (Edinburgh)	/	0	0	
Newcastle	*0	1	3	
York	11	8		
Preston	2	4	35	
Kirton	6	23	71	
Broom's Barn (Bury St Edmunds)	2	0	81	
Wellesbourne	2	1	6	
Hereford	0	1	11	
Rothamsted (Harpenden)	*0	0	2	
Writtle	3	0	1	
Silwood Park (nr Ascot)	0	0	1	
East Malling	0			
Starcross (nr Exeter)	1	0	3	

Pea aphid <i>(Acyrthosiphon pisum)</i>	Bulletin Week Totals			28/10-04/10
	2020	2018	10-year average 2009-18	
Dundee	/	0	0	
Gogarbank (Edinburgh)	/	0	0	
Newcastle	*0	0	0	
York	0	0		
Preston	0	0	0	
Kirton	6	0	1	
Broom's Barn (Bury St Edmunds)	1	0	1	
Wellesbourne	21	8	2	
Hereford	0	0	1	
Rothamsted (Harpenden)	*0	1	2	
Writtle	2	0	1	
Silwood Park (nr Ascot)	0	0	1	
East Malling	0			
Starcross (nr Exeter)	1	0	2	

Black bean aphid <i>(Aphis fabae)</i>	Bulletin Week Totals			28/10-04/10
	2020	2018	10-year average 2009-18	
Dundee	/	1	0	
Gogarbank (Edinburgh)	/	0	1	
Newcastle	*0	0	0	
York	4	4		
Preston	12	4	2	
Kirton	13	17	6	
Broom's Barn (Bury St Edmunds)	4	16	7	
Wellesbourne	9	0	0	
Hereford	0	0	0	
Rothamsted (Harpenden)	*1	0	1	
Writtle	3	1	1	
Silwood Park (nr Ascot)	4	0	0	
East Malling	5			
Starcross (nr Exeter)	1	4	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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