

# AHDB Aphid News

Suction-trap period 05 October – 11 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.
- As the autumn migration continues; despite drier weather across Britain the total number of aphids reported upon has declined by 46% of that of the previous period.
- Bird cherry-oat aphid numbers decreased to 45% of the previous period. Numbers have declined across England, but there is a four-figure hotspot still at York followed by a three-figure hotspot at Preston. Included on the table this week are numbers accumulated from 14/09, representing the early emergence and from 28/9 representing an average emergence of cereal seedlings to give an indication of the build-up of virus vector pressure. During the period 09/10 – 15/10; one of the eleven aphids tested (9%) at Rothamsted were of the cereal colonising form (the 10-year weekly mean is 10%).
- Grain aphids were recorded in single figures from Gogarbank and Preston.
- 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. 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 six sites in single figures. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- Single Cabbage aphids were recorded from Kirton and Starcross. 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 from Wellesbourne northwards, reaching double figures from Dundee. A single male individual was recorded from Gogarbank.
- 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: **5** (23)  
 Broom's Barn: **7** (23)  
 Hereford: **5** (23)  
 Starcross: **8** (23)

Total: **25** (92)

### Grain aphid

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

Total: **0** (0)

\* Samples collected during period 28 Sept – 4 Oct 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	05/10-11/10 10-year average 2009-18
Dundee	*0	1	1
Gogarbank (Edinburgh)	1	1	1
Newcastle	*0	0	1
York	*0	0	
Preston	1	0	3
Kirton	0	0	0
Broom's Barn (Bury St Edmunds)	0	0	0
Wellesbourne	*0	0	1
Hereford	/	0	0
Rothamsted (Harpenden)	0	1	0
Writtle	0	0	0
Silwood Park (nr Ascot)	0	0	0
East Malling	0		
Starcross (nr Exeter)	0	2	1

Bird cherry-oat aphid ( <i>Rhopalosiphum padi</i> )	Bulletin Week Totals		05/10-11/10	Accumulated from 14/09		Accumulated from 28/09	
	2020	2018	10-year average 2009-18	2020	10-year average 2009-18	2020	10-year average 2009-18
Dundee	*86	173	61	86	877	86	138
Gogarbank (Edinburgh)	161	249	210	685	2110	161	590
Newcastle	*215	184	277	831	1353	585	687
York	*1253	906		3882		2900	
Preston	963	1624	1425	5368	7509	3035	3729
Kirton	106	356	597	937	2029	553	1197
Broom's Barn (Bury St Edmunds)	37	1004	494	686	1828	454	1082
Wellesbourne	*100	1262	612	1014	2133	434	1189
Hereford	/	1273	498	504	2353	201	1215
Rothamsted (Harpenden)	39	225	182	387	914	188	531
Writtle	101	1167	569	864	2080	389	1337
Silwood Park (nr Ascot)	37	228	191	418	858	135	511
East Malling	47			491		200	
Starcross (nr Exeter)	170	537	189	1992	1221	837	706

Grain aphid ( <i>Sitobion avenae</i> )	Bulletin Week Totals		05/10-11/10
	2020	2018	10-year average 2009-18
Dundee	*0	0	0
Gogarbank (Edinburgh)	3	0	0
Newcastle	*0	0	0
York	*0	0	
Preston	2	0	1
Kirton	0	0	0
Broom's Barn (Bury St Edmunds)	0	0	0
Wellesbourne	*0	0	1
Hereford	/	0	2
Rothamsted (Harpenden)	0	0	0
Writtle	0	4	1
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			05/10-11/10
	2020	2018	10-year average 2009-18	
Dundee	*0	2	0	
Gogarbank (Edinburgh)	1	1	1	
Newcastle	*0	1	0	
York	*0	2		
Preston	0	0	3	
Kirton	3	14	15	
Broom's Barn (Bury St Edmunds)	0	19	5	
Wellesbourne	*5	55	13	
Hereford	/	45	11	
Rothamsted (Harpenden)	8	6	2	
Writtle	1	27	5	
Silwood Park (nr Ascot)	0	0	1	
East Malling	0			
Starcross (nr Exeter)	1	39	7	

Potato aphid ( <i>Macrosiphum euphorbiae</i> )	Bulletin Week Totals			05/10-11/10
	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	0	
Kirton	0	0	0	
Broom's Barn (Bury St Edmunds)	0	0	1	
Wellesbourne	*0	0	1	
Hereford	/	0	0	
Rothamsted (Harpenden)	0	0	0	
Writtle	0	0	0	
Silwood Park (nr Ascot)	0	0	0	
East Malling	1			
Starcross (nr Exeter)	0	1	0	

Cabbage aphid ( <i>Brevicoryne brassicae</i> )	Bulletin Week Totals		05/10-11/10
	2020	2018	10-year average 2009-18
Dundee	*0	1	0
Gogarbank (Edinburgh)	0	4	1
Newcastle	*0	0	0
York	*0	4	
Preston	0	0	0
Kirton	1	0	3
Broom's Barn (Bury St Edmunds)	0	0	0
Wellesbourne	*0	1	0
Hereford	/	0	2
Rothamsted (Harpenden)	0	0	0
Writtle	0	1	0
Silwood Park (nr Ascot)	0	0	0
East Malling	0		
Starcross (nr Exeter)	1	1	0

Willow-carrot aphid ( <i>Cavariella aegopodii</i> )	Bulletin Week Totals		05/10-11/10
	2020	2018	10-year average 2009-18
Dundee	*23	344	48
Gogarbank (Edinburgh)	7	88	13
Newcastle	*2	0	1
York	*2	5	
Preston	2	32	61
Kirton	7	0	131
Broom's Barn (Bury St Edmunds)	0	8	595
Wellesbourne	*4	0	12
Hereford	/	0	4
Rothamsted (Harpenden)	0	0	0
Writtle	0	0	4
Silwood Park (nr Ascot)	0	0	0
East Malling	0		
Starcross (nr Exeter)	0	2	3

Pea aphid <i>(Acyrthosiphon pisum)</i>	Bulletin Week Totals		05/10-11/10
	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	0
Kirton	0	0	1
Broom's Barn (Bury St Edmunds)	1	0	1
Wellesbourne	*2	0	2
Hereford	/	0	0
Rothamsted (Harpenden)	1	0	0
Writtle	0	0	1
Silwood Park (nr Ascot)	0	2	1
East Malling	0		
Starcross (nr Exeter)	0	1	1

Black bean aphid <i>(Aphis fabae)</i>	Bulletin Week Totals		05/10-11/10
	2020	2018	10-year average 2009-18
Dundee	*0	0	0
Gogarbank (Edinburgh)	0	4	1
Newcastle	*0	0	0
York	*2	0	
Preston	6	0	1
Kirton	1	0	8
Broom's Barn (Bury St Edmunds)	1	24	11
Wellesbourne	*4	0	3
Hereford	/	4	1
Rothamsted (Harpenden)	1	1	1
Writtle	1	8	3
Silwood Park (nr Ascot)	0	0	0
East Malling	0		
Starcross (nr Exeter)	0	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](https://insectsurvey.com/aphid-bulletin)

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

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