AHDB Aphid News

Suction-trap period 21 September – 27 September 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, amid a sharp decrease in temperature to below the long-term average; the total number of aphids reported upon has declined slightly to 97% of that of the previous period.
- Bird cherry-oat aphid numbers decreased to 96% of the previous period. Numbers are still rising, however, from Rothamsted to York with a four-figure hotspot at 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 25/09 – 01/10; six of the forty-four aphids tested (14%) at Rothamsted were of the cereal colonising form (the 10-year weekly mean is 9%).
- Grain aphids were recorded from five sites in single figures.
- Hutchinsons report cereal aphids on early planted winter barley that has emerged in Shropshire as well as from crops in Kent and Norfolk.
- 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 3ºC (DD>3) have accumulated. The AHDB BYDV management tool can be used to calculate this.
- Peach-potato aphids were recorded from nine sites from southern Britain up to Kirton, increasing at five and with a hotspot at Kirton. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- Cabbage aphids were recorded from Starcross and Kirton, with the latter 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 once again 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
Gogarbank: **8** (24)
York: **6** (23)
Hereford: **8** (23)
Starcross: **7** (23)
Broom's Barn: **7** (23)

Total: 36 (116)

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

Total: 0 (0)

** Samples collected during period 14 Sept – 20 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 *(Metopolophium dirhodum)*	**Bulletin Week Totals**		**21/09-27/09**
	2020	2018	10-year average 2009-18
Dundee	/	0	1
Gogarbank (Edinburgh)	*0	0	2
Newcastle	*0	0	1
York	0	0	
Preston	1	0	0
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	0
Silwood Park (nr Ascot)	0	0	0
East Malling	0		
Starcross (nr Exeter)	0	0	1

Bird cherry-oat aphid *(Rhopalosiphum padi)*	**Bulletin Week Totals**		**21/09-27/09**	**Accumulation from 14/09**	
	2020	2018	10-year average 2009-18	2020	10-year average 2009-18
Dundee	/	48	298	0	738
Gogarbank (Edinburgh)	*141	76	889	524	1520
Newcastle	*79	465	365	247	665
York	570	2093		982	
Preston	1524	2182	2111	2333	3780
Kirton	281	1149	655	384	831
Broom's Barn (Bury St Edmunds)	122	900	588	232	746
Wellesbourne	343	914	715	580	945
Hereford	185	1816	808	303	1137
Rothamsted (Harpenden)	101	449	289	199	383
Writtle	205	962	616	475	743
Silwood Park (nr Ascot)	56	357	240	283	346
East Malling	60			291	
Starcross (nr Exeter)	215	537	315	1155	515

Grain aphid *(Sitobion avenae)*	**Bulletin Week Totals**		**21/09-27/09**
	2020	2018	10-year average 2009-18
Dundee	/	0	1
Gogarbank (Edinburgh)	*0	0	2
Newcastle	*0	0	0
York	0	0	
Preston	1	0	1
Kirton	0	0	1
Broom's Barn (Bury St Edmunds)	0	0	0
Wellesbourne	0	0	0
Hereford	0	0	1
Rothamsted (Harpenden)	2	0	1
Writtle	0	0	1
Silwood Park (nr Ascot)	1	0	0
East Malling	1		
Starcross (nr Exeter)	1	0	1

Peach-potato aphid *(Myzus persicae)*	**Bulletin Week Totals**		**21/09-27/09**
	2020	2018	10-year average 2009-18
Dundee	/	0	3
Gogarbank (Edinburgh)	*0	0	0
Newcastle	*0	0	0
York	0	4	
Preston	0	4	2
Kirton	41	34	17
Broom's Barn (Bury St Edmunds)	1	7	6
Wellesbourne	10	30	18
Hereford	8	87	15
Rothamsted (Harpenden)	5	7	3
Writtle	10	6	4
Silwood Park (nr Ascot)	1	1	1
East Malling	1		
Starcross (nr Exeter)	4	18	6

Potato aphid *(Macrosiphum euphorbiae)*	**Bulletin Week Totals**		**21/09-27/09**
	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	1
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	1
East Malling	0		
Starcross (nr Exeter)	0	0	0

Cabbage aphid *(Brevicoryne brassicae)*	**Bulletin Week Totals**		**21/09-27/09**
	2020	2018	10-year average 2009-18
Dundee	/	0	0
Gogarbank (Edinburgh)	*0	0	0
Newcastle	*0	8	1
York	0	0	
Preston	0	0	0
Kirton	33	4	3
Broom's Barn (Bury St Edmunds)	0	2	0
Wellesbourne	0	3	1
Hereford	0	0	0
Rothamsted (Harpenden)	0	0	0
Writtle	0	0	1
Silwood Park (nr Ascot)	0	0	0
East Malling	0		
Starcross (nr Exeter)	1	1	1

Willow-carrot aphid *(Cavariella aegopodii)*	**Bulletin Week Totals**		**21/09-27/09**
	2020	2018	10-year average 2009-18
Dundee	/	35	73
Gogarbank (Edinburgh)	*1	0	0
Newcastle	*0	4	2
York	6	0	
Preston	2	4	20
Kirton	0	1	46
Broom's Barn (Bury St Edmunds)	0	0	193
Wellesbourne	0	0	2
Hereford	0	2	0
Rothamsted (Harpenden)	0	3	1
Writtle	1	0	0
Silwood Park (nr Ascot)	0	1	0
East Malling	0		
Starcross (nr Exeter)	0	0	1

Pea aphid *(Acyrthosiphon pisum)*	**Bulletin Week Totals**		**21/09-27/09**
	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	3	0	1
Broom's Barn (Bury St Edmunds)	0	0	1
Wellesbourne	3	0	2
Hereford	0	1	2
Rothamsted (Harpenden)	0	0	1
Writtle	0	0	1
Silwood Park (nr Ascot)	0	0	1
East Malling	1		
Starcross (nr Exeter)	1	8	2

Black bean aphid *(Aphis fabae)*	**Bulletin Week Totals**		**21/09-27/09**
	2020	2018	10-year average 2009-18
Dundee	/	4	0
Gogarbank (Edinburgh)	*0	0	2
Newcastle	*0	4	1
York	1	0	
Preston	8	4	2
Kirton	6	2	6
Broom's Barn (Bury St Edmunds)	6	10	4
Wellesbourne	17	2	1
Hereford	0	0	1
Rothamsted (Harpenden)	2	0	0
Writtle	3	5	1
Silwood Park (nr Ascot)	0	0	1
East Malling	2		
Starcross (nr Exeter)	1	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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