

AHDB Aphid News

Suction-trap period: 16–22 November 2020

General

This is the final regular AHDB Aphid News for 2020. However, Rothamsted Research will issue an aphid bulletin next week for late-drilled cereals. Aphid forecasts will be issued in early March, with the regular news service commencing again around Easter.

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

- Due to technical difficulties, relating to the coronavirus situation, 10-year average data (2009–18) is displayed on the tables and on the Rothamsted Insect Survey website.
- No data are available from Scottish traps or Kirton from this sampling period.
- The autumn migration has continued to abate, as average air temperatures descend.
- The total number of aphids has declined by 82% of that of the previous period.
- Bird cherry–oat aphid numbers have decreased by 83% of the previous period at all available sites. 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 20/11–26/11, only one aphid was found for testing and it was not of the cereal-colonising form.
- Only two grain aphids were recorded from York.
- BYDV testing continued at Rothamsted on a number of cereal aphids from selected sites captured during the previous bulletin period. For information on BYDV management, visit ahdb.org.uk/bydv
- Peach–potato aphid was noted from four sites in single figures. This is the main vector of TuYV but seldom reaches numbers high enough to cause direct feeding damage.
- No cabbage aphids were recorded. 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.
- Two willow–carrot aphids were noted from Preston, one of which was a male individual.
- 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: **2** (24)
 Broom's Barn: **0** (11)
 Hereford: **7** (24)
 Starcross: **5** (19)

Total: **14** (78)

Grain aphid

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

Total: **0** (0)

* *Samples collected during period 2–8 November 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	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
Broom's Barn (Bury St Edmunds)	0	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	0

Bird cherry-oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			16/11-22/11		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	2020	10-year average 2009-18
Dundee	/	0	0	205	909	205	171		
Gogarbank (Edinburgh)	/	1	0	728	2357	204	837		
Newcastle	0	0	2	884	1613	638	948		
York	*9	13		4460	/	3478	/		
Preston	*10	0	18	6341	9199	4008	5420		
Kirton	/	2	5	1222	2803	838	1971		
Broom's Barn (Bury St Edmunds)	1	2	3	763	2440	531	1694		
Wellesbourne	*5	0	1	1249	2724	669	1779		
Hereford	4	1	3	661	2843	358	1705		
Rothamsted (Harpenden)	1	4	2	465	1192	266	810		
Writtle	5	3	6	1053	2782	578	2039		
Silwood Park (nr Ascot)	0	0	3	479	1117	196	770		
East Malling	*2			622		331			
Starcross (nr Exeter)	*12	10	19	2560	1613	1405	1098		

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			16/11-22/11
	2020	2018	10-year average 2009-18	
Dundee	/	0	0	
Gogarbank (Edinburgh)	/	0	0	
Newcastle	0	0	0	
York	*2	0		
Preston	*0	0	0	
Kirton	/	0	0	
Broom's Barn (Bury St Edmunds)	0	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	0	

Peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			16/11-22/11
	2020	2018	10-year average 2009-18	
Dundee	/	1	0	
Gogarbank (Edinburgh)	/	0	0	
Newcastle	0	0	0	
York	*0	0		
Preston	*0	0	1	
Kirton	/	0	2	
Broom's Barn (Bury St Edmunds)	0	0	1	
Wellesbourne	*2	0	0	
Hereford	2	0	1	
Rothamsted (Harpenden)	0	0	1	
Writtle	8	2	1	
Silwood Park (nr Ascot)	0	0	0	
East Malling	*0			
Starcross (nr Exeter)	*1	1	2	

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			16/11-22/11
	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	/	0	0	
Broom's Barn (Bury St Edmunds)	0	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	0	

Cabbage aphid <i>(Brevicoryne brassicae)</i>	Bulletin Week Totals			16/11-22/11
	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	/	0	0	
Broom's Barn (Bury St Edmunds)	0	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	0	

Willow-carrot aphid <i>(Cavariella aegopodii)</i>	Bulletin Week Totals			16/11-22/11
	2020	2018	10-year average 2009-18	
Dundee	/	11	1	
Gogarbank (Edinburgh)	/	0	0	
Newcastle	0	0	0	
York	*0	0		
Preston	*2	0	3	
Kirton	/	0	4	
Broom's Barn (Bury St Edmunds)	0	0	2	
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	

Pea aphid <i>(Acyrtosiphon pisum)</i>	Bulletin Week Totals			16/11-22/11
	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	/	0	0	
Broom's Barn (Bury St Edmunds)	0	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)	*1	0	0	

Black bean aphid <i>(Aphis fabae)</i>	Bulletin Week Totals		
	2020	2018	16/11-22/11 10-year average 2009-18
Dundee	/	0	0
Gogarbank (Edinburgh)	/	0	0
Newcastle	0	0	0
York	*0	0	
Preston	*0	0	0
Kirton	/	0	0
Broom's Barn (Bury St Edmunds)	0	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	0

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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