

# AHDB Aphid News

Suction-trap period 19 October – 25 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.
- No data are available from Scotland from this sampling period.
- Despite the wetter weather, as the autumn migration continues; the total number of aphids reported upon has increased slightly to 108% of that of the previous period.
- Bird cherry-oat aphid numbers remained relatively stable at 103% of the previous period. Numbers in northern England have increased but this has been offset by declines in the south. 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 23/10 – 29/10; no aphids were found for testing.
- Single Grain aphids were recorded from Broom's Barn, Wellesbourne and Rothamsted.
- 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 eight 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.
- Willow-carrot aphids were noted from five sites, reaching double figures from Kirton to York. There was a slight hotspot at York. Seven male individuals were recorded from York; two each from Preston and Kirton; and a single individual from Starcross.
- 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: **9** (24)  
 Broom's Barn: **7** (20)  
 Hereford: **5** (24)  
 Starcross: **3** (24)

Total: **24** (92)

### Grain aphid

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

Total: **0** (0)

\* Samples collected during period 12 - 18th 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	19/10-25/10 10-year average 2009-18
Dundee	/	0	0
Gogarbank (Edinburgh)	/	0	1
Newcastle	0	0	0
York	<b>1</b>	0	
Preston	*0	0	1
Kirton	*0	0	0
Broom's Barn (Bury St Edmunds)	0	0	1
Wellesbourne	0	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)	0	0	0

Bird cherry-oat aphid – females only  ( <i>Rhopalosiphum padi</i> )	Bulletin Week Totals			19/10- 25/10		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	/	11	3	205	906	205	168		
Gogarbank (Edinburgh)	/	6	39	728	2310	204	790		
Newcastle	31	0	25	882	1576	636	911		
York	178	568		4226	/	3244	/		
Preston	*481	208	342	6137	8834	3805	5055		
Kirton	*112	934	174	1115	2649	731	1818		
Broom's Barn (Bury St Edmunds)	19	571	134	739	2361	507	1615		
Wellesbourne	62	220	111	1129	2613	549	1669		
Hereford	57	57	100	598	2760	295	1623		
Rothamsted (Harpenden)	12	111	51	433	1132	234	749		
Writtle	37	698	202	974	2661	499	1918		
Silwood Park (nr Ascot)	10	139	60	457	1069	174	723		
East Malling	22			564		273			
Starcross (nr Exeter)	217	321	106	2427	1520	1272	1005		

Grain aphid  ( <i>Sitobion avenae</i> )	Bulletin Week Totals			19/10-25/10		Accumulated until 25/10	
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	
Dundee	/	0	0	584	1641	577	
Gogarbank (Edinburgh)	/	0	0	142	401	380	
Newcastle	0	0	0	191	267	208	
York	0	0		407	1556		
Preston	*0	0	0	129	346	287	
Kirton	*0	0	0	118	523	1370	
Broom's Barn (Bury St Edmunds)	1	2	1	110	559	1006	
Wellesbourne	1	0	0	182	232	420	
Hereford	0	0	1	320	244	758	
Rothamsted (Harpenden)	1	0	0	110	262	1071	
Writtle	0	0	0	73	627	1076	
Silwood Park (nr Ascot)	0	0	0	116	211	233	
East Malling	0			201			
Starcross (nr Exeter)	0	0	1	141	129	286	

peach-potato aphid ( <i>Myzus persicae</i> )	Bulletin Week Totals			Accumulated until		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	2	0	54	84	52
Gogarbank (Edinburgh)	/	0	0	27	32	27
Newcastle	1	0	1	5	68	49
York	0	8		827	486	
Preston	*2	0	3	537	156	145
Kirton	*2	27	19	900	1414	994
Broom's Barn (Bury St Edmunds)	4	26	5	4494	1246	1127
Wellesbourne	0	11	5	1421	1340	929
Hereford	0	1	2	206	933	392
Rothamsted (Harpenden)	0	1	1	911	596	577
Writtle	4	15	6	353	890	887
Silwood Park (nr Ascot)	1	2	1	215	143	80
East Malling	1			717		
Starcross (nr Exeter)	9	3	1	255	255	215

Potato aphid ( <i>Macrosiphum euphorbiae</i> )	Bulletin Week Totals			Accumulated until		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	0	0	18	130	48
Gogarbank (Edinburgh)	/	0	0	31	67	61
Newcastle	0	0	0	12	15	22
York	0	0		35	26	
Preston	*0	0	0	26	14	42
Kirton	*0	0	0	60	9	67
Broom's Barn (Bury St Edmunds)	1	0	0	94	3	37
Wellesbourne	0	0	0	94	10	42
Hereford	0	0	0	12	8	116
Rothamsted (Harpenden)	0	0	0	54	13	24
Writtle	0	0	0	20	15	43
Silwood Park (nr Ascot)	0	0	0	37	5	23
East Malling	0			92		
Starcross (nr Exeter)	1	0	0	76	43	38

Cabbage aphid ( <i>Brevicoryne brassicae</i> )	Bulletin Week Totals			Accumulated until		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	0	0	3	5	3
Gogarbank (Edinburgh)	/	0	0	0	23	8
Newcastle	0	0	0	14	53	8
York	0	0		281	420	
Preston	*0	0	0	17	101	34
Kirton	*0	0	7	659	332	227
Broom's Barn (Bury St Edmunds)	0	0	0	2992	327	166
Wellesbourne	0	3	0	2129	546	879
Hereford	0	0	0	331	828	400
Rothamsted (Harpenden)	0	1	0	724	199	102
Writtle	0	0	0	380	1455	332
Silwood Park (nr Ascot)	0	0	0	105	124	56
East Malling	0			404		
Starcross (nr Exeter)	0	1	0	126	201	240

Willow-carrot aphid ( <i>Cavariella aegopodii</i> )	Bulletin Week Totals			Accumulated until		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	5	6	334	852	331
Gogarbank (Edinburgh)	/	0	1	363	153	135
Newcastle	0	0	1	26	31	118
York	51	0		1054	483	
Preston	*30	12	74	308	200	841
Kirton	*16	37	56	1919	318	1219
Broom's Barn (Bury St Edmunds)	0	0	35	1659	790	2178
Wellesbourne	0	0	3	673	326	659
Hereford	1	0	1	10	55	388
Rothamsted (Harpenden)	0	0	1	228	137	472
Writtle	0	0	1	118	590	1017
Silwood Park (nr Ascot)	0	0	0	54	236	296
East Malling	0			135		
Starcross (nr Exeter)	2	0	3	123	156	197

Pea aphid ( <i>Acyrtosiphon pisum</i> )	Bulletin Week Totals			Accumulated until		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	0	0	30	296	61
Gogarbank (Edinburgh)	/	0	0	9	75	48
Newcastle	0	0	0	7	67	49
York	0	0		35	342	
Preston	*0	0	0	34	49	35
Kirton	*0	0	0	115	968	1154
Broom's Barn (Bury St Edmunds)	0	0	0	78	324	635
Wellesbourne	1	0	0	176	283	334
Hereford	0	0	0	34	124	139
Rothamsted (Harpenden)	0	1	0	51	337	455
Writtle	0	0	1	48	465	734
Silwood Park (nr Ascot)	0	0	0	30	127	92
East Malling	0			122		
Starcross (nr Exeter)	1	1	1	68	57	98

Black bean aphid ( <i>Aphis fabae</i> )	Bulletin Week Totals			Accumulated until		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	0	0	112	365	74
Gogarbank (Edinburgh)	/	0	0	37	61	73
Newcastle	0	0	0	46	16	60
York	1	0		43	76	
Preston	*0	0	0	59	37	42
Kirton	*44	25	5	529	205	246
Broom's Barn (Bury St Edmunds)	0	14	5	90	180	311
Wellesbourne	1	0	0	167	49	228
Hereford	1	1	0	48	53	148
Rothamsted (Harpenden)	0	0	0	191	103	363
Writtle	0	14	2	108	162	321
Silwood Park (nr Ascot)	0	0	0	58	143	95
East Malling	1			147		
Starcross (nr Exeter)	1	0	0	81	61	102

### 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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