

AHDB Aphid News

Suction trap period: 29 June–5 July 2020

In response to COVID-19, the Rothamsted Insect Survey is operating at reduced capacity. Disruption to the normal reporting service is expected.

General

- Due to technical difficulties, relating to the current situation, 10-year average data (2009–18) is displayed on the tables and on the Rothamsted Insect Survey website. The accumulation and first arrival data for Newcastle, Preston and Writtle are unreliable, due to a substantial gap in data from these sites.
- Conditions have become substantially cooler and damper this reporting period. The total number of aphids, recorded across available sites, has continued to decrease – by 77% of that of the previous reporting period.
- Total cereal aphid numbers have decreased by around 50%.
- The thresholds to justify insecticide sprays for direct feeding damage is for 50% of tillers to be infested before GS61, increasing to 66% of tillers infested from GS61 to two weeks before the end of grain filling.
- Peach–potato aphid numbers have once again declined across Britain – by 84% across available sites.
- Potato aphid has declined by 66% of the previous period.
- Cabbage aphid has declined by 85%.
- A single currant–lettuce aphid was recorded from Wellesbourne.
- Willow–carrot aphid has seen a rather dramatic 90% decline across Britain.
- Pea aphid has generally declined by 58% compared to the previous period. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested.
- Black bean aphid has increased at four sites from Wellesbourne southwards. The threshold for black bean aphid in field and broad beans is 10% plant colonisation.
- For those interested in suction-trap data for prior periods, the tables on the insect survey website: insectsurvey.com/aphid-bulletin
- **Crop inspections are advised.**

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.

Only tables for species reported upon that have been recorded so far this year are displayed.

Rose-grain aphid (<i>Metopolophium dirhodum</i>)	Bulletin Week Totals			Accumulated until		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	30	515	132	50	542	179
Gogarbank (Edinburgh)	6	63	167	65	80	271
Newcastle	*4 #	12	18	4	19	55
York	3	44		71	95	
Preston	0	61	27	29	110	297
Kirton	1	27	381	58	58	734
Broom's Barn (Bury St Edmunds)	4	178	211	133	290	602
Wellesbourne	*4	86	98	105	180	255
Hereford	1	73	128	10	130	307
Rothamsted (Harpenden)	0	70	167	40	149	317
Writtle	1	136	154	5	290	372
Silwood Park (nr Ascot)	0	16	22	25	113	99
East Malling	2			33		
Starcross (nr Exeter)	0	11	21	45	74	266

Bird cherry-oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			Accumulated until		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	3	1245	321	23	1381	531
Gogarbank (Edinburgh)	3	193	396	31	284	554
Newcastle	*2 #	111	76	2	166	238
York	4	76		85	155	
Preston	13	30	13	115	59	154
Kirton	13	38	163	144	103	526
Broom's Barn (Bury St Edmunds)	4	43	157	110	102	597
Wellesbourne	*28	90	28	123	137	143
Hereford	26	8	45	37	28	155
Rothamsted (Harpenden)	4	24	85	65	60	251
Writtle	2	43	115	15	107	349
Silwood Park (nr Ascot)	0	21	27	62	105	153
East Malling	4			197		
Starcross (nr Exeter)	7	59	25	468	275	216

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			29/07-05/07			Accumulated until			05/07		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	15	53	29	28	63	43						
Gogarbank (Edinburgh)	1	28	70	22	43	117						
Newcastle	*4 #	20	17	4	35	30						
York	26	50		118	88							
Preston	1	48	79	78	94	144						
Kirton	4	26	328	52	46	427						
Broom's Barn (Bury St Edmunds)	7	217	246	53	355	488						
Wellesbourne	*18	42	108	67	56	153						
Hereford	33	52	116	64	67	197						
Rothamsted (Harpenden)	4	87	353	39	111	446						
Writtle	2	214	296	7	247	476						
Silwood Park (nr Ascot)	3	42	38	68	76	85						
East Malling	9			88								
Starcross (nr Exeter)	5	40	33	59	60	130						

Peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			29/07-05/07			Accumulated until			05/07		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	1	1	5	4	2	14						
Gogarbank (Edinburgh)	2	1	5	22	1	16						
Newcastle	*2 #	0	6	2	0	32						
York	30	30		819	57							
Preston	1	16	72	529	53	116						
Kirton	7	81	172	757	116	597						
Broom's Barn (Bury St Edmunds)	5	665	161	4461	842	864						
Wellesbourne	*20	282	71	1379	483	738						
Hereford	44	339	67	163	433	266						
Rothamsted (Harpenden)	8	337	130	880	455	394						
Writtle	1	395	157	321	603	648						
Silwood Park (nr Ascot)	0	32	10	203	68	57						
East Malling	2			692								
Starcross (nr Exeter)	0	54	59	221	139	160						

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	2	8	2	13	16	11
Gogarbank (Edinburgh)	0	7	13	26	27	39
Newcastle	*4 #	1	1	4	4	10
York	2	0		35	4	
Preston	1	0	4	23	12	28
Kirton	1	1	20	59	7	52
Broom's Barn (Bury St Edmunds)	5	0	3	90	2	27
Wellesbourne	*3	0	2	91	4	32
Hereford	3	2	15	6	5	61
Rothamsted (Harpenden)	0	4	4	51	8	18
Writtle	1	0	3	17	13	35
Silwood Park (nr Ascot)	0	0	1	37	5	16
East Malling	0			88		
Starcross (nr Exeter)	0	1	3	74	41	30

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	0	0	0	1
Gogarbank (Edinburgh)	0	1	0	0	1	4
Newcastle	*2 #	2	1	2	2	3
York	21	6		262	12	
Preston	0	1	2	14	3	20
Kirton	70	16	56	306	22	136
Broom's Barn (Bury St Edmunds)	24	160	28	2962	173	82
Wellesbourne	*115	101	120	2074	126	669
Hereford	36	359	69	226	432	250
Rothamsted (Harpenden)	22	92	22	704	112	42
Writtle	9	772	108	354	983	191
Silwood Park (nr Ascot)	4	44	10	95	83	32
East Malling	3			378		
Starcross (nr Exeter)	5	31	15	87	114	130

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	2	1	1	155	66	81
Gogarbank (Edinburgh)	5	1	9	306	53	107
Newcastle	*4 #	8	8	4	23	99
York	9	0		973	163	
Preston	2	4	20	260	92	589
Kirton	0	0	20	1875	239	836
Broom's Barn (Bury St Edmunds)	2	4	16	1620	754	922
Wellesbourne	*1	10	4	655	318	624
Hereford	0	0	14	2	50	346
Rothamsted (Harpenden)	3	0	10	223	132	452
Writtle	0	2	7	110	590	994
Silwood Park (nr Ascot)	0	0	1	49	234	293
East Malling	0			128		
Starcross (nr Exeter)	0	6	7	107	126	166

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	3	30	5	7	33	8
Gogarbank (Edinburgh)	1	6	12	7	10	18
Newcastle	*0	6	3	0	9	7
York	1	16		10	42	
Preston	0	9	17	14	26	27
Kirton	5	27	117	56	54	222
Broom's Barn (Bury St Edmunds)	8	97	67	47	141	170
Wellesbourne	*18	106	102	93	148	174
Hereford	0	36	17	18	76	60
Rothamsted (Harpenden)	3	110	58	28	208	150
Writtle	2	118	89	9	178	223
Silwood Park (nr Ascot)	1	12	7	18	53	47
East Malling	2			57		
Starcross (nr Exeter)	0	9	12	36	36	65

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals			Accumulated until		
	2020	2018	29/07-05/07 10-year average 2009-18	2020	2018	05/07 10-year average 2009-18
Dundee	2	6	2	5	8	5
Gogarbank (Edinburgh)	1	2	2	5	4	6
Newcastle	*0	0	1	0	0	3
York	0	0		10	3	
Preston	3	2	12	17	6	21
Kirton	22	3	59	56	13	101
Broom's Barn (Bury St Edmunds)	5	29	116	37	62	214
Wellesbourne	*21	15	57	33	30	162
Hereford	1	13	34	3	24	65
Rothamsted (Harpenden)	15	30	94	49	86	212
Writtle	28	47	90	32	100	242
Silwood Park (nr Ascot)	6	13	14	18	57	55
East Malling	12			55		
Starcross (nr Exeter)	2	7	15	71	49	76

Further information

Please send information on crop aphids to: alex.greenslade@rothamsted.ac.uk

insectsurvey.com/aphid-bulletin

ahdb.org.uk/aphid-news

In partnership with



Yellow water trap period: 1–8 July 2020

General

About 100 yellow water traps are located in/close to seed potato crops across Great Britain. Traps are emptied approximately weekly by the host growers/agronomists, with full results (individual counts and weekly averages) published on a dedicated [aphid monitoring website](#).

Compared to the suction traps, the yellow water traps provide more localised information on which aphids are flying close to seed potato crops. Although yellow water trap results and commentary focus on aphids that transmit potato viruses, data on a wider range of aphid species, including cereal aphids, is published. Used as part of wider aphid monitoring, these results can help build up a picture of regional aphid risks.

Yellow water trap data

- 86 samples during this period (covers from every region).
- 689 samples received this year, so far.

Region	No samples	Total rose-grain aphid trapped	Average rose-grain aphid per sample	Total bird cherry-oat aphid trapped	Average bird cherry-oat aphid per sample	Total grain aphid trapped	Average grain aphid per sample
North Scotland	10	0		0		0	
Grampian	16	1	0.1	0		0	
Angus & Perthshire	11	0		0		0	
Borders	8	1	0.1	0		0	
Northern England	16	3	0.2	0		5	0.3
East Anglia	11	0		0		5	0.5
Midlands	6	0		1	0.2	0	
South-West	8	0		0		0	
Total	86	5	0.1	1	0.0	10	0.1

[Further information](#)
ahdb.org.uk/aphid-news

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