

AHDB Aphid News

Suction trap period 6–12 July 2020

In response to COVID-19, the Rothamsted Insect Survey is operating at reduced capacity. Substantial 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 data for Newcastle, Preston and Writtle are unreliable, because of a substantial gap in data from these sites.
- Cereal harvest is underway in some areas.
- Air temperatures remained below the long-term average during this reporting period.
- The total number of aphids recorded (across available sites) increased by 150% of that of the previous reporting period. This increase was particularly notable towards the end of the reporting period.
- Total cereal aphid numbers have increased by nearly 180%. However, accumulated numbers are mostly substantially below the 10-year mean for this stage in the year. The risk to crops is beginning to pass for this season.
- Peach–potato aphid numbers have once again declined across Britain, by 35% across available sites.
- Potato aphid has declined by around 10% of the previous period.
- Cabbage aphid has declined by 22%.
- Two currant-lettuce aphids were recorded from Wellesbourne, as well as single individuals from York, Kirton and East Malling.
- Willow–carrot aphid is on the increase at four sites.
- Pea aphid has increased to over 180% compared to the previous period, particularly so from Hereford southwards. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested. Pea aphids can transmit viruses even with low numbers present.
- Black bean aphid has increased at eight sites this week with a three-figure hotspot at Kirton. The threshold for this aphid in field and broad beans is 10% plant colonisation. A lower threshold of 5% infested is advised to prevent virus transmission.
- 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 06/07-12/07			Accumulated until 12/07		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	21	483	272	71	1025	450
Gogarbank (Edinburgh)	4	77	114	69	157	386
Newcastle	*0	21	24	4	40	79
York	0	68		71	163	
Preston	0	27	19	29	137	316
Kirton	13	40	326	71	98	1059
Broom's Barn (Bury St Edmunds)	*5	40	299	137	330	901
Wellesbourne	*2	70	28	107	250	283
Hereford	15	50	155	25	180	462
Rothamsted (Harpenden)	3	37	253	43	186	570
Writtle	2	58	172	7	348	544
Silwood Park (nr Ascot)	5	8	30	30	121	129
East Malling	1			34		
Starcross (nr Exeter)	2	5	20	47	79	286

Bird cherry-oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals 06/07-12/07			Accumulated until 12/07		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	3	1332	392	26	2713	924
Gogarbank (Edinburgh)	7	686	154	38	970	708
Newcastle	*5	157	56	7	323	294
York	7	39		92	194	
Preston	7	18	15	122	77	169
Kirton	24	38	89	168	141	615
Broom's Barn (Bury St Edmunds)	*19	33	87	129	135	684
Wellesbourne	*8	64	29	131	201	171
Hereford	26	3	44	63	31	200
Rothamsted (Harpenden)	5	31	69	70	91	320
Writtle	16	32	53	31	139	403
Silwood Park (nr Ascot)	15	21	16	77	126	169
East Malling	11			208		
Starcross (nr Exeter)	32	14	44	500	289	260

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals			Accumulated until		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	32	248	97	60	311	139
Gogarbank (Edinburgh)	3	60	42	25	103	158
Newcastle	*5	44	17	9	79	46
York	41	386		159	474	
Preston	3	107	32	81	201	176
Kirton	9	83	317	61	129	744
Broom's Barn (Bury St Edmunds)	*9	86	226	63	441	714
Wellesbourne	*13	107	62	80	163	215
Hereford	85	74	202	149	141	399
Rothamsted (Harpenden)	11	88	347	50	199	793
Writtle	9	190	244	16	437	720
Silwood Park (nr Ascot)	14	110	104	82	186	190
East Malling	20			108		
Starcross (nr Exeter)	22	43	60	81	103	190

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	5	5	3	9	7	17
Gogarbank (Edinburgh)	1	0	2	23	1	18
Newcastle	*0	22	5	2	22	37
York	6	112		825	169	
Preston	0	82	10	529	135	126
Kirton	31	72	114	788	188	710
Broom's Barn (Bury St Edmunds)	*7	176	93	4468	1018	957
Wellesbourne	*2	464	81	1381	947	819
Hereford	21	264	39	184	697	305
Rothamsted (Harpenden)	2	92	69	882	547	462
Writtle	2	202	129	323	805	777
Silwood Park (nr Ascot)	0	35	12	203	103	69
East Malling	1			693		
Starcross (nr Exeter)	1	4	6	222	143	167

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	1	28	7	14	44	18
Gogarbank (Edinburgh)	2	15	5	28	42	44
Newcastle	*7	3	1	11	7	12
York	0	4		35	8	
Preston	0	0	1	23	12	28
Kirton	0	0	4	59	7	56
Broom's Barn (Bury St Edmunds)	*2	1	3	92	3	30
Wellesbourne	*0	2	2	91	6	34
Hereford	3	0	18	9	5	79
Rothamsted (Harpenden)	2	4	3	53	12	21
Writtle	0	2	4	17	15	39
Silwood Park (nr Ascot)	0	0	0	37	5	16
East Malling	1			89		
Starcross (nr Exeter)	1	0	2	75	41	32

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	1	0	0	1	1
Gogarbank (Edinburgh)	0	0	0	0	1	4
Newcastle	*0	1	0	2	3	3
York	6	90		268	102	
Preston	2	12	2	16	15	22
Kirton	80	16	25	386	38	160
Broom's Barn (Bury St Edmunds)	*19	65	43	2981	238	125
Wellesbourne	*15	257	134	2089	383	804
Hereford	72	268	65	298	700	316
Rothamsted (Harpenden)	12	69	24	716	181	67
Writtle	9	406	79	363	1389	270
Silwood Park (nr Ascot)	9	22	12	104	105	44
East Malling	7			385		
Starcross (nr Exeter)	10	36	24	97	150	154

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	5	3	157	71	84
Gogarbank (Edinburgh)	1	2	1	307	55	108
Newcastle	*4	0	4	7	23	103
York	4	8		977	171	
Preston	0	2	6	260	94	595
Kirton	7	2	7	1882	241	843
Broom's Barn (Bury St Edmunds)	*0	0	10	1620	754	932
Wellesbourne	*0	4	1	655	322	626
Hereford	0	0	9	2	50	355
Rothamsted (Harpenden)	2	1	7	225	133	459
Writtle	4	0	8	114	590	1002
Silwood Park (nr Ascot)	3	1	1	52	235	294
East Malling	0			128		
Starcross (nr Exeter)	4	1	10	111	127	176

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	2	81	15	9	114	23
Gogarbank (Edinburgh)	2	4	5	9	14	23
Newcastle	*0	9	3	0	18	10
York	0	19		10	61	
Preston	0	14	2	14	40	29
Kirton	15	115	160	71	169	381
Broom's Barn (Bury St Edmunds)	*5	82	181	52	223	351
Wellesbourne	*4	107	37	97	255	211
Hereford	4	19	25	22	95	86
Rothamsted (Harpenden)	6	83	113	34	291	263
Writtle	20	189	211	29	367	434
Silwood Park (nr Ascot)	5	60	19	23	113	66
East Malling	15			72		
Starcross (nr Exeter)	4	2	6	40	38	71

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals			06/07-12/07			Accumulated until			12/07
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	
Dundee	1	35	7	6	43	12	6	43	12	
Gogarbank (Edinburgh)	1	4	4	6	8	9	6	8	9	
Newcastle	*0	0	5	0	0	8	0	0	8	
York	1	22		11	25		11	25		
Preston	1	4	4	18	10	25	18	10	25	
Kirton	156	26	56	212	39	157	212	39	157	
Broom's Barn (Bury St Edmunds)	*19	4	29	55	66	243	55	66	243	
Wellesbourne	*12	10	30	45	40	193	45	40	193	
Hereford	3	7	27	6	31	92	6	31	92	
Rothamsted (Harpenden)	44	4	102	93	90	314	93	90	314	
Writtle	38	13	43	70	113	286	70	113	286	
Silwood Park (nr Ascot)	12	72	21	30	129	76	30	129	76	
East Malling	28			83			83			
Starcross (nr Exeter)	1	2	14	72	51	90	72	51	90	

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: 8–16 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

- 94 samples have been received during this period, from every region
- 789 samples have been received so far this year

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	19	2	0.1	0		0	
Grampian	13	4	0.3	0		0	
Angus & Perthshire	10	0		0		0	
Borders	9	1	0.1	0		2	0.2
Northern England	17	1	0.1	0		4	0.2
East Anglia	11	0		1	0.1	5	0.5
Midlands	7	0		1	0.1	1	0.1
South-West	8	0		1	0.1	1	0.1
Total	94	8	0.1	3	0.0	13	0.1