

AHDB Aphid News

Suction-trap period: 3–9 August 2020

In response to COVID-19, the Rothamsted Insect Survey is operating at reduced capacity. Substantial disruption to the 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.
- Accumulation data for Newcastle, Preston and Writtle are unreliable, due to a substantial data gap.
- Harvest continues and the weather for this period continued to be above average for temperature and below average for rainfall. The total number of aphids recorded across available sites has decreased slightly by 8% of that of the previous reporting period.
- The total number of cereal aphids has remained broadly similar to the previous reporting period, with increases mainly seen towards the North of Britain and declines towards the South. The risk to crops is passing for this season.
- Peach–potato aphid was only recorded from Dundee, Preston and Kirton this reporting period.
- Single individuals of potato aphid were recorded from Gogarbank and Wellesbourne.
- Cabbage aphid increased at four sites from Kirton northwards. However, further south, only a single individual was recorded from Writtle.
- Willow–carrot aphid was only recorded from Dundee, Preston and Kirton.
- Pea aphid numbers increased at four sites. 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 was found at five sites with a slight hotspot at Dundee. The threshold for black bean aphid in field and broad beans is 10% plant colonisation. A lower threshold of 5% infested is advised to prevent virus transmission.
- **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	22	6	4	166	4174	1116
Gogarbank (Edinburgh)	12	12	4	90	358	539
Newcastle	*7	0	18	14	78	244
York	1	0		74	232	
Preston	4	0	1	35	148	328
Kirton	*2	0	5	79	260	1546
Broom's Barn (Bury St Edmunds)	0	0	4	157	347	1078
Wellesbourne	*2	0	1	118	262	315
Hereford	/	0	5	47	201	541
Rothamsted (Harpenden)	1	0	1	51	190	621
Writtle	1	0	1	14	355	655
Silwood Park (nr Ascot)	*0	0	0	33	121	133
East Malling	1			48		
Starcross (nr Exeter)	1	0	1	65	89	303

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	30	32	65	105	7428	1929
Gogarbank (Edinburgh)	15	90	91	68	1736	1095
Newcastle	*12	15	58	46	451	484
York	50	2		217	258	
Preston	32	8	18	181	94	231
Kirton	*19	2	36	249	219	873
Broom's Barn (Bury St Edmunds)	36	1	28	213	201	840
Wellesbourne	*50	6	33	363	243	351
Hereford	/	14	88	211	64	480
Rothamsted (Harpenden)	15	4	42	138	104	499
Writtle	14	1	17	94	198	532
Silwood Park (nr Ascot)	*9	1	18	154	143	254
East Malling	18			349		
Starcross (nr Exeter)	16	0	64	610	300	551

Grain aphid <i>(Sitobion avenae)</i>	Bulletin Week Totals			03/08-09/08			Accumulated until			09/08		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18			
Dundee	108	23	31	523	1622	529						
Gogarbank (Edinburgh)	26	24	21	86	385	324						
Newcastle	*35	6	27	79	260	162						
York	35	3		333	1556							
Preston	23	14	10	111	339	264						
Kirton	*2	1	31	100	515	1348						
Broom's Barn (Bury St Edmunds)	2	0	20	108	557	993						
Wellesbourne	*11	7	12	158	224	391						
Hereford	/	3	41	278	234	709						
Rothamsted (Harpenden)	3	2	23	97	261	1059						
Writtle	3	0	20	69	622	1066						
Silwood Park (nr Ascot)	*1	1	2	113	211	227						
East Malling	4			197								
Starcross (nr Exeter)	8	0	5	134	125	275						

peach-potato aphid <i>(Myzus persicae)</i>	Bulletin Week Totals			03/08-09/08			Accumulated until			09/08		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18			
Dundee	3	0	2	49	57	34						
Gogarbank (Edinburgh)	0	3	1	25	29	24						
Newcastle	*0	7	2	2	64	46						
York	0	4		827	453							
Preston	4	0	0	536	152	132						
Kirton	*2	20	7	798	932	868						
Broom's Barn (Bury St Edmunds)	0	0	10	4471	1151	1090						
Wellesbourne	*0	0	1	1382	961	831						
Hereford	/	0	3	187	747	342						
Rothamsted (Harpenden)	0	0	3	883	560	563						
Writtle	0	0	5	325	833	862						
Silwood Park (nr Ascot)	*0	0	0	203	113	73						
East Malling	0			703								
Starcross (nr Exeter)	0	0	0	225	146	182						

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	2	2	18	128	46
Gogarbank (Edinburgh)	1	3	1	31	67	59
Newcastle	*0	0	1	11	15	19
York	0	0		35	26	
Preston	0	0	0	23	14	30
Kirton	*0	0	0	60	9	64
Broom's Barn (Bury St Edmunds)	0	0	0	92	3	33
Wellesbourne	*1	0	0	94	10	38
Hereford	/	0	8	10	7	106
Rothamsted (Harpenden)	0	0	0	53	13	23
Writtle	0	0	0	19	15	41
Silwood Park (nr Ascot)	*0	0	0	37	5	17
East Malling	0			90		
Starcross (nr Exeter)	0	0	0	75	42	34

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	1	0	0	3	4	2
Gogarbank (Edinburgh)	0	0	0	0	10	6
Newcastle	*5	5	1	7	36	6
York	2	5		279	410	
Preston	0	5	1	17	87	31
Kirton	*7	20	3	517	230	192
Broom's Barn (Bury St Edmunds)	0	1	3	2991	317	162
Wellesbourne	*0	4	3	2126	522	872
Hereford	/	2	4	331	826	371
Rothamsted (Harpenden)	0	1	4	723	198	98
Writtle	1	0	4	380	1454	328
Silwood Park (nr Ascot)	*0	0	0	105	123	54
East Malling	0			402		
Starcross (nr Exeter)	0	0	3	116	196	233

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	3	160	78	96
Gogarbank (Edinburgh)	1	0	0	308	58	112
Newcastle	*0	0	0	12	26	108
York	0	1		979	174	
Preston	4	0	1	266	100	600
Kirton	*0	0	0	1887	243	851
Broom's Barn (Bury St Edmunds)	0	0	0	1624	758	938
Wellesbourne	*0	0	0	656	323	626
Hereford	/	0	1	4	52	360
Rothamsted (Harpenden)	0	0	1	228	133	464
Writtle	0	0	0	114	590	1005
Silwood Park (nr Ascot)	*0	0	0	54	235	294
East Malling	0			135		
Starcross (nr Exeter)	0	0	0	116	127	179

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	2	1	27	294	58
Gogarbank (Edinburgh)	0	5	1	9	74	44
Newcastle	*4 #	13	7	4	66	45
York	0	5		15	339	
Preston	8	0	0	22	45	33
Kirton	*0	0	15	88	967	1142
Broom's Barn (Bury St Edmunds)	1	0	20	68	324	627
Wellesbourne	*2	2	5	109	271	311
Hereford	/	3	6	26	118	125
Rothamsted (Harpenden)	0	0	12	46	330	443
Writtle	2	0	6	39	464	724
Silwood Park (nr Ascot)	*0	0	0	29	125	87
East Malling	0			120		
Starcross (nr Exeter)	1	0	0	59	39	86

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals			Accumulated until		
	2020	2018	03/08-09/08 10-year average 2009-18	2020	2018	09/08 10-year average 2009-18
Dundee	29	5	2	83	339	64
Gogarbank (Edinburgh)	8	12	4	22	49	43
Newcastle	*5 #	2	4	5	9	42
York	1	1		20	54	
Preston	6	0	0	24	20	30
Kirton	*9	0	3	462	97	204
Broom's Barn (Bury St Edmunds)	2	0	1	78	96	266
Wellesbourne	*11	0	0	113	44	216
Hereford	/	0	3	22	43	139
Rothamsted (Harpenden)	1	0	2	181	101	360
Writtle	0	0	2	96	125	312
Silwood Park (nr Ascot)	*1	0	0	52	133	92
East Malling	2			122		
Starcross (nr Exeter)	0	0	0	77	54	96

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: 5–13 August 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

- 38 samples received this period
- 1017 samples received this year to date

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	11	1	0.1	0	-	0	-
Grampian	12	5	0.4	0	-	0	-
Angus & Perthshire	5	0	-	0	-	0	-
Borders	2	1	0.5	0	-	2	1.0
Northern England	2	4	2.0	0	-	7	3.5
East Anglia	3	0	-	1	0.3	5	1.7
Midlands	1	0	-	1	1.0	1	1.0
South-West	2	1	0.5	1	0.5	0	-
Total	38	12	0.3	3	0.1	15	0.4