

AHDB Aphid News

Suction-trap period: 22–28 June 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, 10-year average data (2009–18) is displayed on the tables and on the Rothamsted Insect Survey website. Additionally, data from Gogarbank and Dundee are not displayed this reporting period. Due to a substantial gap in data from Hereford, first arrival and accumulation are also unreliable.
- Average air temperatures continue to exceed the long-term average during this period. The total number of aphids recorded across available sites, however, appears to have generally decreased by around a quarter compared to the previous reporting period.
- Total cereal aphid numbers have increased to around 120% of the last period with York producing a hotspot for all three species.
- 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 appear to have once again declined, across available sites across England, aside from an increasing three-figure hotspot at York.
- Potato aphid has also seen similar declines to peach-potato aphid, with an increasing hotspot at York.
- Cabbage aphid has seen some declines from Rothamsted southwards but increases further north, with the four-figure hotspot seen at Broom's Barn in the last reporting period being replaced by Wellesbourne.
- Two currant–lettuce aphids were found at York, Kirton, Wellesbourne and Rothamsted, with a single individual recorded from East Malling.
- Willow–carrot aphid has declined in the same manner as peach-potato aphid and potato aphid, with an increase at York.
- Pea aphid has generally declined this week but there were increases at York and Kirton. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested.
- Black bean aphid numbers have increased at five sites, with a first arrival at York. 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 22/06-28/06			Accumulated until 28/06		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	17	28	0	27	47
Gogarbank (Edinburgh)	/	13	48	21	17	104
Newcastle	/	5	20	0	7	37
York	41	38		68	51	
Preston	7	33	142	29	49	271
Kirton	8	11	185	57	31	353
Broom's Barn (Bury St Edmunds)	*8	75	212	129	112	391
Wellesbourne	11	56	86	101	94	157
Hereford	9 #	30	86	9	57	179
Rothamsted (Harpenden)	6	53	69	40	79	150
Writtle	/	112	112	4	154	218
Silwood Park (nr Ascot)	1	81	30	25	97	78
East Malling	1			31		
Starcross (nr Exeter)	0	6	51	45	63	245

Bird cherry-oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals 22/06-28/06			Accumulated until 28/06		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	71	109	9	136	211
Gogarbank (Edinburgh)	/	37	86	2	91	158
Newcastle	/	33	63	0	55	162
York	50	41		81	79	
Preston	24	12	24	102	29	141
Kirton	32	24	84	131	65	363
Broom's Barn (Bury St Edmunds)	*15	21	229	106	59	440
Wellesbourne	18	16	6	95	47	114
Hereford	11 #	5	47	11	20	110
Rothamsted (Harpenden)	8	9	80	61	36	165
Writtle	/	32	119	13	64	235
Silwood Park (nr Ascot)	10	31	7	62	84	126
East Malling	23			193		
Starcross (nr Exeter)	0	22	34	461	216	192

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals 22/06-28/06			Accumulated until 28/06		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	7	4	2	10	13
Gogarbank (Edinburgh)	/	4	24	3	15	47
Newcastle	/	13	6	0	15	13
York	72	27		92	38	
Preston	27	32	20	77	46	65
Kirton	8	10	79	48	20	99
Broom's Barn (Bury St Edmunds)	*6	119	216	46	138	243
Wellesbourne	18	4	15	49	14	45
Hereford	31 #	6	57	31	15	81
Rothamsted (Harpenden)	11	16	74	35	24	93
Writtle	/	22	147	5	33	180
Silwood Park (nr Ascot)	22	24	14	65	34	47
East Malling	21			79		
Starcross (nr Exeter)	1	7	52	54	20	97

Peach-potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals 22/06-28/06			Accumulated until 28/06		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	0	2	0	1	9
Gogarbank (Edinburgh)	/	0	2	2	0	11
Newcastle	/	0	6	0	0	26
York	376	14		789	27	
Preston	102	35	21	528	37	44
Kirton	26	7	239	750	35	425
Broom's Barn (Bury St Edmunds)	*55	38	205	4456	177	703
Wellesbourne	44	96	68	1359	201	666
Hereford	119 #	53	46	119	94	199
Rothamsted (Harpenden)	10	59	73	872	118	264
Writtle	/	60	134	320	208	491
Silwood Park (nr Ascot)	1	13	3	203	36	47
East Malling	10			690		
Starcross (nr Exeter)	0	25	30	221	85	101

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals 22/06-28/06			Accumulated until 28/06		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	0	1	4	8	9
Gogarbank (Edinburgh)	/	2	5	5	20	26
Newcastle	/	1	1	0	3	9
York	19	0		33	4	
Preston	3	1	4	22	12	23
Kirton	1	1	14	58	6	32
Broom's Barn (Bury St Edmunds)	*7	0	13	85	2	25
Wellesbourne	6	0	3	88	4	29
Hereford	2	0	12	3	3	46
Rothamsted (Harpenden)	4	1	3	51	4	14
Writtle	/	0	6	16	13	32
Silwood Park (nr Ascot)	3	0	1	37	5	15
East Malling	2			88		
Starcross (nr Exeter)	0	1	3	74	40	27

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals 22/06-28/06			Accumulated until 28/06		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	0	0	0	0	1
Gogarbank (Edinburgh)	/	0	0	0	0	4
Newcastle	/	0	1	0	0	2
York	240	1		241	6	
Preston	11	1	1	14	2	18
Kirton	61	3	56	236	6	80
Broom's Barn (Bury St Edmunds)	*346	9	29	2938	13	54
Wellesbourne	1026	21	106	1959	25	550
Hereford	190 #	55	41	190	73	182
Rothamsted (Harpenden)	61	16	11	682	20	21
Writtle	/	81	39	345	211	84
Silwood Park (nr Ascot)	20	34	6	91	39	22
East Malling	61			375		
Starcross (nr Exeter)	0	11	38	82	83	115

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals 22/06-28/06			Accumulated until 28/06		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	1	1	118	65	80
Gogarbank (Edinburgh)	/	0	8	41	52	98
Newcastle	/	3	12	0	15	91
York	95	14		964	163	
Preston	20	9	35	258	88	569
Kirton	73	0	121	1875	239	816
Broom's Barn (Bury St Edmunds)	*46	11	59	1618	750	906
Wellesbourne	8	12	40	653	308	620
Hereford	1	5	14	2	50	332
Rothamsted (Harpenden)	4	17	32	220	132	442
Writtle	/	9	35	110	588	987
Silwood Park (nr Ascot)	3	22	8	49	234	292
East Malling	2			128		
Starcross (nr Exeter)	0	1	14	107	120	160

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals 22/06-28/06			Accumulated until 28/06		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	0	0	0	3	3
Gogarbank (Edinburgh)	/	2	2	0	4	6
Newcastle	/	0	1	0	3	4
York	4	16		9	26	
Preston	6	4	5	14	17	10
Kirton	23	9	58	51	27	105
Broom's Barn (Bury St Edmunds)	*14	17	45	39	44	103
Wellesbourne	21	22	15	75	42	72
Hereford	18 #	29	14	18	40	44
Rothamsted (Harpenden)	2	62	38	25	98	92
Writtle	/	38	70	7	60	134
Silwood Park (nr Ascot)	3	26	6	17	41	40
East Malling	2			55		
Starcross (nr Exeter)	0	6	12	36	27	52

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals 22/06-28/06			Accumulated until 28/06		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	1	0	0	2	3
Gogarbank (Edinburgh)	/	0	0	1	2	4
Newcastle	/	0	1	0	0	2
York	10 #	1		10	3	
Preston	9	2	4	14	4	9
Kirton	24	5	38	34	10	42
Broom's Barn (Bury St Edmunds)	*6	1	65	32	33	98
Wellesbourne	7	9	67	12	15	105
Hereford	2 #	10	27	2	11	30
Rothamsted (Harpenden)	6	37	67	34	56	118
Writtle	/	26	77	4	53	152
Silwood Park (nr Ascot)	5	27	17	12	44	42
East Malling	16			43		
Starcross (nr Exeter)	0	6	6	69	42	61

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: 23 June –1 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

- 116 samples received during this period (from every region).
- 599 samples 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	20	3	0.2	0		1	0.1
Grampian	16	3	0.2	1	0.1	1	0.1
Angus & Perthshire	12	1	0.1	0		0	
Borders	10	0		0		0	
Northern England	24	8	0.3	0		3	0.1
East Anglia	14	1	0.1	0		3	0.2
Midlands	11	11	1.0	0		2	0.2
South-West	9	0		0		4	0.4
Total	116	27	0.2	1	0.0	14	0.1

Further information
ahdb.org.uk/aphid-news

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