

AHDB Aphid News

Suction-trap period: 27 July–2 August 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) are displayed on the tables and on the Rothamsted Insect Survey website.
- The accumulation data for Newcastle, Preston and Writtle are unreliable, due to substantial data gaps.
- This period, the harvest continued, along with temperatures reaching the third highest ever recorded for Britain.
- The total number of aphids, recorded across available sites, has decreased by 37% of that of the previous reporting period.
- Total cereal aphid numbers have decreased by 24% of the previous reporting period. This is mainly due to declines in grain aphid in many parts of Britain, as well as rose–grain aphid at Dundee. There was a notable three-figure hotspot for bird cherry–oat aphid at Wellesbourne but the risk to crops is passing for this season.
- Peach–potato aphid is still being recorded in Scotland and reaching double figures at Dundee but was not recorded further South.
- Single individuals of potato aphid were recorded from Gogarbank and East Malling this period.
- Once again, cabbage aphid was not recorded from Scotland, it was also in decline across England.
- Willow–carrot aphid activity has increased slightly from York southwards, but numbers remain very low.
- Pea aphid numbers increased at York, Wellesbourne and Writtle. 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 Gogarbank, York and Writtle. The hotspot at Kirton while still present is declining. 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 27/08-02/08			Accumulated until 02/08		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	13	50	43	144	4168	1113
Gogarbank (Edinburgh)	8	17	12	78	346	535
Newcastle	*0	3	72	7	78	226
York	2	3		73	232	
Preston	2	0	1	31	148	327
Kirton	0	2	149	76	260	1541
Broom's Barn (Bury St Edmunds)	7	0	24	157	347	1074
Wellesbourne	*4	1	3	114	262	315
Hereford	*7	3	10	44	201	536
Rothamsted (Harpenden)	4	0	6	50	190	620
Writtle	*2	0	9	13	355	654
Silwood Park (nr Ascot)	0	0	1	33	121	133
East Malling	0			47		
Starcross (nr Exeter)	*0	1	2	64	89	302

Bird cherry-oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals 27/08-02/08			Accumulated until 02/08		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	10	93	121	75	7396	1864
Gogarbank (Edinburgh)	11	35	93	53	1646	1004
Newcastle	*12	21	58	33	436	426
York	33	1		167	256	
Preston	13	4	20	149	86	213
Kirton	26	3	104	231	217	837
Broom's Barn (Bury St Edmunds)	12	5	44	177	200	811
Wellesbourne	*112	6	28	304	237	318
Hereford	*75	9	81	149	50	393
Rothamsted (Harpenden)	20	0	42	123	100	457
Writtle	*35	3	31	80	197	515
Silwood Park (nr Ascot)	17	2	22	145	142	237
East Malling	23			315		
Starcross (nr Exeter)	*33	1	52	594	300	487

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	78	107	67	415	1599	498
Gogarbank (Edinburgh)	27	33	31	60	361	303
Newcastle	*9	31	33	44	254	135
York	48	20		298	1553	
Preston	5	18	13	88	325	254
Kirton	9	2	222	98	514	1317
Broom's Barn (Bury St Edmunds)	6	1	73	106	557	973
Wellesbourne	*35	4	10	137	217	379
Hereford	*58	8	57	242	231	668
Rothamsted (Harpenden)	15	3	40	94	259	1036
Writtle	*7	4	51	66	622	1046
Silwood Park (nr Ascot)	4	0	2	112	210	225
East Malling	8			183		
Starcross (nr Exeter)	*5	2	10	126	125	271

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	12	4	5	46	57	33
Gogarbank (Edinburgh)	1	5	1	25	26	23
Newcastle	*0	7	2	2	57	45
York	0	9		827	449	
Preston	0	0	0	532	152	131
Kirton	0	62	28	795	912	860
Broom's Barn (Bury St Edmunds)	0	0	27	4471	1151	1080
Wellesbourne	*0	0	1	1381	961	831
Hereford	*0	2	5	186	747	339
Rothamsted (Harpenden)	0	0	6	883	560	560
Writtle	*0	2	16	325	833	858
Silwood Park (nr Ascot)	0	0	0	203	113	73
East Malling	0			694		
Starcross (nr Exeter)	*0	0	1	224	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	5	6	18	126	44
Gogarbank (Edinburgh)	1	2	1	30	64	58
Newcastle	*0	2	2	11	15	18
York	0	0		35	26	
Preston	0	0	0	23	14	30
Kirton	0	0	2	60	9	64
Broom's Barn (Bury St Edmunds)	0	0	1	92	3	33
Wellesbourne	*0	0	0	93	10	38
Hereford	*0	0	4	9	7	98
Rothamsted (Harpenden)	0	0	1	53	13	23
Writtle	*0	0	0	19	15	40
Silwood Park (nr Ascot)	0	0	0	37	5	17
East Malling	1			90		
Starcross (nr Exeter)	*0	0	1	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	0	0	1	2	4	2
Gogarbank (Edinburgh)	0	4	0	0	10	6
Newcastle	*0	8	1	2	31	6
York	1	10		277	405	
Preston	0	10	2	17	82	30
Kirton	4	16	4	510	210	189
Broom's Barn (Bury St Edmunds)	1	0	4	2991	316	159
Wellesbourne	*1	1	3	2108	518	869
Hereford	*5	5	10	331	824	367
Rothamsted (Harpenden)	0	0	4	723	197	94
Writtle	*2	0	8	379	1454	324
Silwood Park (nr Ascot)	0	1	0	105	123	54
East Malling	0			386		
Starcross (nr Exeter)	*2	3	18	116	196	230

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	0	0	3	158	77	93
Gogarbank (Edinburgh)	0	0	1	307	58	112
Newcastle	*0	0	1	12	26	108
York	2	0		979	173	
Preston	2	0	1	262	100	599
Kirton	0	0	2	1887	243	851
Broom's Barn (Bury St Edmunds)	1	0	1	1624	758	937
Wellesbourne	*1	0	0	656	323	626
Hereford	*2	0	1	4	52	359
Rothamsted (Harpenden)	1	0	0	228	133	463
Writtle	*0	0	0	114	590	1005
Silwood Park (nr Ascot)	1	0	0	54	235	294
East Malling	0			131		
Starcross (nr Exeter)	*2	0	1	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	3	16	8	25	292	57
Gogarbank (Edinburgh)	0	11	5	9	69	42
Newcastle	*0	18	15	0	53	38
York	4	47		15	334	
Preston	0	0	1	14	45	33
Kirton	3	4	212	88	967	1127
Broom's Barn (Bury St Edmunds)	0	2	44	67	324	606
Wellesbourne	*6	1	4	105	269	306
Hereford	*2	10	4	24	115	119
Rothamsted (Harpenden)	0	0	42	46	330	431
Writtle	*2	0	36	37	464	718
Silwood Park (nr Ascot)	0	0	1	29	125	86
East Malling	1			118		
Starcross (nr Exeter)	*0	0	1	58	39	86

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals			Accumulated until		
	2020	2018	27/08-02/08 10-year average 2009-18	2020	2018	02/08 10-year average 2009-18
Dundee	14	22	10	54	334	62
Gogarbank (Edinburgh)	5	2	14	14	37	39
Newcastle	*0	0	19	0	7	38
York	3	0		19	53	
Preston	0	2	0	18	20	30
Kirton	65	0	17	453	97	201
Broom's Barn (Bury St Edmunds)	5	0	3	76	96	265
Wellesbourne	*15	0	1	95	44	216
Hereford	*5	2	4	18	43	137
Rothamsted (Harpenden)	0	0	6	180	101	359
Writtle	*7	0	5	96	125	310
Silwood Park (nr Ascot)	1	0	0	51	133	92
East Malling	5			115		
Starcross (nr Exeter)	*0	0	1	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: 22–30 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

- 50 samples have been received during this period, from every region, except the Midlands.
- 984 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	16	4	0.3	0		2	0.1
Grampian	12	3	0.3	3	0.3	6	0.5
Angus & Perthshire	9	0		0		2	0.2
Borders	3	0		0		0	
Northern England	3	0		1	0.3	1	0.3
East Anglia	5	0		0		1	0.2
Midlands	0	-	-	-	-	-	-
South-West	2	0		0		0	
Total	50	7	0.1	4	0.1	12	0.2

Further information
ahdb.org.uk/aphid-news

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