

AHDB Aphid News

Trap period 25 May – 31 May 2020

General

In response to the Covid-19 pandemic; the Rothamsted Insect Survey is at this time operating at reduced capacity. The team will process as many samples as possible to produce weekly results, but substantial disruption to the normal reporting service is expected. Most of the suction-trap network is currently operating on a weekly trapping regime with some sites unable to send weekly samples.

- Due to technical difficulties relating to the current situation, 10-year average data will be displayed on the data tables below and on the Rothamsted Insect Survey website from 2009 – 2018.
- Dundee has been able to resume reporting data. Due to the substantial gap in available data from this site the first arrival data are unreliable and is therefore not later referred to. There have been issues with data from Gogarbank this week and so it is not displayed on the data tables.
- Average air temperatures have remained well above the long-term average during this reporting period. The numbers of most aphids recorded across available sites appear to be increasing compared to the last reporting period.
- Cereal aphid numbers are generally still on the increase. Bird cherry-oat aphid reached double figures at seven sites. We have received reports of Rose-grain aphid on winter wheat from the fens north of Cambridge but that they appear to be less conspicuous elsewhere.
- The thresholds to justify insecticide sprays for direct feeding damage is for 50% of tillers to be infested before GS61.
- Peach-potato aphid numbers continue to increase at several sites in England, with the four-figure hotspot at Broom's Barn continuing to increase. We have had reports of this species moving off ripening OSR and overwhelming potatoes and sugar beet.
- Potato aphids are on the increase at four available sites compared to last week and reached double figures at five.
- Willow-carrot aphid reached three figures at available sites from Wellesbourne to York and was found in double figures elsewhere as far north as Dundee.
- Pea aphid remains in single figures this week. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested.
- There were three first arrivals of Black bean aphid from Kirton, Broom's Barn and Rothamsted. The threshold for Black bean aphid in field and broad beans is 10% plant colonisation. We have received reports that this species is inconspicuous in beans and sugar beet.
- For those interested in suction-trap data for prior periods, the tables on the insect survey website: insectsurvey.com/aphid-bulletin will be updated with data from previous periods that it has been possible to process.

Cereal and OSR crops are potentially at risk, 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	*0	0	2	0	2	6
Gogarbank (Edinburgh)	/	1	8	1	1	24
Newcastle	/	0	3	0	1	4
York	*0	0		0	0	
Preston	/	3	19	0	4	34
Kirton	3	1	8	11	2	16
Broom's Barn (Bury St Edmunds)	*6	2	14	11	2	22
Wellesbourne	*9	14	7	10	14	14
Hereford	/	7	7	0	11	13
Rothamsted (Harpenden)	7	6	5	14	9	11
Writtle	/	5	11	0	6	19
Silwood Park (nr Ascot)	15	2	4	24	6	13
East Malling	4			12		
Starcross (nr Exeter)	*14	9	24	26	33	47

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	*2 #	22	8	2	50	16
Gogarbank (Edinburgh)	/	36	9	0	45	19
Newcastle	/	6	3	0	18	13
York	*0	7		1	24	
Preston	/	1	29	5	7	74
Kirton	26	11	13	66	21	40
Broom's Barn (Bury St Edmunds)	*38	6	31	71	21	64
Wellesbourne	*28	2	13	32	17	55
Hereford	/	4	10	0	13	30
Rothamsted (Harpenden)	11	12	12	26	22	34
Writtle	/	4	22	5	18	69
Silwood Park (nr Ascot)	12	11	20	45	36	67
East Malling	42			117		
Starcross (nr Exeter)	*65	30	23	382	58	91

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	*2 #	1	2	2	1	3
Gogarbank (Edinburgh)	/	7	5	0	7	8
Newcastle	/	1	1	0	1	3
York	*0	0		0	0	
Preston	/	5	10	1	6	28
Kirton	3	4	3	13	7	7
Broom's Barn (Bury St Edmunds)	*1	2	4	4	3	7
Wellesbourne	*9	4	5	12	6	13
Hereford	/	4	4	0	8	9
Rothamsted (Harpenden)	0	0	1	3	5	6
Writtle	/	3	2	1	7	6
Silwood Park (nr Ascot)	6	3	3	22	5	10
East Malling	5			25		
Starcross (nr Exeter)	*7	5	4	34	7	17

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	*0	0	0	0	0	1
Gogarbank (Edinburgh)	/	0	1	0	0	2
Newcastle	/	0	1	0	0	1
York	*0	1		0	3	
Preston	/	0	2	1	0	2
Kirton	338	1	17	557	1	26
Broom's Barn (Bury St Edmunds)	*2470	11	87	3928	11	162
Wellesbourne	*175	23	67	232	25	147
Hereford	/	3	25	0	4	36
Rothamsted (Harpenden)	281	12	31	458	14	53
Writtle	/	41	51	36	49	92
Silwood Park (nr Ascot)	176	8	5	195	17	17
East Malling	144			222		
Starcross (nr Exeter)	*35	9	11	88	14	37

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals			25/05-31/05		Accumulated until		31/05
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18		
Dundee	*2 #	5	2	2	6	4		
Gogarbank (Edinburgh)	/	10	5	0	15	11		
Newcastle	/	0	2	0	2	5		
York	*0	0		0	1			
Preston	/	2	7	0	2	10		
Kirton	11	1	3	26	2	10		
Broom's Barn (Bury St Edmunds)	*6	1	2	27	2	5		
Wellesbourne	*16	2	3	20	3	13		
Hereford	/	1	7	1	3	14		
Rothamsted (Harpenden)	8	3	2	16	3	5		
Writtle	/	3	5	4	10	13		
Silwood Park (nr Ascot)	15	2	3	27	5	9		
East Malling	21			51				
Starcross (nr Exeter)	*11	16	4	31	25	11		

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals			25/05-31/05		Accumulated until		31/05
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18		
Dundee	*0	0	0	0	0	0		
Gogarbank (Edinburgh)	/	0	0	0	0	3		
Newcastle	/	0	0	0	0	0		
York	*0	0		0	1			
Preston	/	0	4	0	1	5		
Kirton	57	0	1	97	1	6		
Broom's Barn (Bury St Edmunds)	*463	1	8	575	1	14		
Wellesbourne	*404 #	0	9	404	0	52		
Hereford	/	8	14	0	11	19		
Rothamsted (Harpenden)	119	1	2	128	1	3		
Writtle	/	77	11	1	80	16		
Silwood Park (nr Ascot)	38	0	1	50	2	11		
East Malling	74			82				
Starcross (nr Exeter)	*5	5	11	21	19	24		

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals			25/05-31/05		Accumulated until		31/05
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18		
Dundee	*77 #	36	34	77	46	53		
Gogarbank (Edinburgh)	/	31	16	36	38	34		
Newcastle	/	1	11	0	9	24		
York	*560	49		625	100			
Preston	/	34	142	6	62	321		
Kirton	343	93	115	1366	183	442		
Broom's Barn (Bury St Edmunds)	*463	83	173	880	709	610		
Wellesbourne	*140	114	132	206	266	311		
Hereford	/	20	92	1	39	233		
Rothamsted (Harpenden)	21	10	96	38	103	248		
Writtle	/	283	358	6	547	751		
Silwood Park (nr Ascot)	20	36	39	32	196	190		
East Malling	34			63				
Starcross (nr Exeter)	*18	22	31	61	88	90		

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals			25/05-31/05		Accumulated until		31/05
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18		
Dundee	*0	0	0	0	0	0		
Gogarbank (Edinburgh)	/	1	1	0	2	1		
Newcastle	/	1	0	0	2	1		
York	*0	3		0	3			
Preston	/	2	1	0	2	2		
Kirton	4	3	3	8	4	5		
Broom's Barn (Bury St Edmunds)	*1	3	4	3	5	9		
Wellesbourne	*5	5	3	7	6	14		
Hereford	/	4	7	0	7	14		
Rothamsted (Harpenden)	0	3	5	4	3	14		
Writtle	/	0	8	3	1	17		
Silwood Park (nr Ascot)	0	3	5	7	5	14		
East Malling	9			23				
Starcross (nr Exeter)	*7	7	7	21	12	15		

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals			Accumulated until		
	2020	2018	25/05-31/05 10-year average 2009-18	2020	2018	31/05 10-year average 2009-18
Dundee	*0	1	1	0	1	2
Gogarbank (Edinburgh)	/	1	1	0	1	2
Newcastle	/	0	0	0	0	0
York	*0	0		0	0	
Preston	/	2	1	3	2	1
Kirton	1 #	0	0	1	0	0
Broom's Barn (Bury St Edmunds)	*6 #	2	4	6	13	8
Wellesbourne	*0	1	2	0	2	4
Hereford	/	0	0	0	0	1
Rothamsted (Harpenden)	1 #	0	1	1	1	3
Writtle	/	1	2	0	1	5
Silwood Park (nr Ascot)	0	4	2	0	4	6
East Malling	0			3		
Starcross (nr Exeter)	*2	2	2	7	4	7

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



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