

AHDB Aphid News

Trap period 01 June – 07 June 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. Some of the suction-trap network is still operating on a weekly trapping regime.

- 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.
- Due to the substantial gap in available data from Dundee, Preston and Writtle first arrival data are unreliable and is therefore not later referred to.
- In a sharp reversal of the last reporting period, average air temperatures have fallen below the long-term average during this period. The total number of aphids recorded across available sites appear to have decreased compared to the last reporting period.
- Cereal aphid numbers have generally decreased. This is particularly true for Bird cherry-oat aphid which has at most fallen back to double figures.
- 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 five sites in England, but the hotspot at Broom's Barn seen previously has declined dramatically. There was also a first arrival at York.
- Potato aphid is generally on the decline compared to the last reporting period with increases at only York and Starcross. A first arrival was recorded at York.
- Cabbage aphid reached three figures at Rothamsted and Writtle.
- Willow-carrot aphid has declined mostly to double figures aside from Writtle and is on the increase at only Rothamsted and Starcross.
- Pea aphid remains in single figures this reporting period, increasing at three sites with a first arrival at York. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested.
- Black bean aphid appears to be on the increase in the far South of Britain at Starcross and East Malling but with declines further north. 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

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	01/06-07/06 10-year average 2009-18	2020	2018	07/06 10-year average 2009-18
Dundee	*0	0	1	0	2	6
Gogarbank (Edinburgh)	/	1	10	1	2	34
Newcastle	/	1	2	0	2	5
York	0	0		0	0	
Preston	*14 #	2	9	14	6	42
Kirton	4	1	8	15	3	24
Broom's Barn (Bury St Edmunds)	7	1	32	18	3	54
Wellesbourne	*11	4	9	22	18	23
Hereford	/	12	11	0	23	24
Rothamsted (Harpenden)	5	5	12	19	14	23
Writtle	4 #	8	10	4	14	29
Silwood Park (nr Ascot)	/	2	7	24	8	20
East Malling	4			16		
Starcross (nr Exeter)	*12	4	40	38	37	87

Bird cherry-oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			Accumulated until		
	2020	2018	01/06-07/06 10-year average 2009-18	2020	2018	07/06 10-year average 2009-18
Dundee	*7	4	6	9	54	21
Gogarbank (Edinburgh)	/	7	7	0	52	26
Newcastle	/	2	7	0	20	20
York	13	3		14	27	
Preston	*23	1	11	28	8	84
Kirton	5	0	41	71	21	81
Broom's Barn (Bury St Edmunds)	8	6	58	79	27	122
Wellesbourne	*20	2	25	52	19	81
Hereford	/	0	8	0	13	39
Rothamsted (Harpenden)	6	1	17	32	23	51
Writtle	8	3	13	13	21	82
Silwood Park (nr Ascot)	/	4	26	45	40	93
East Malling	31			148		
Starcross (nr Exeter)	*56	53	27	438	111	117

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	*0	0	1	2	1	4
Gogarbank (Edinburgh)	/	2	4	0	9	12
Newcastle	/	0	1	0	1	3
York	2 #	3		2	3	
Preston	*0	1	4	1	7	32
Kirton	1	0	1	14	7	8
Broom's Barn (Bury St Edmunds)	0	0	2	4	3	9
Wellesbourne	*1	1	5	13	7	18
Hereford	/	0	2	0	8	11
Rothamsted (Harpenden)	0	1	2	3	6	7
Writtle	4	1	1	5	8	7
Silwood Park (nr Ascot)	/	0	3	22	5	13
East Malling	1			26		
Starcross (nr Exeter)	*2	2	5	36	9	23

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	1	0	0	2
Gogarbank (Edinburgh)	/	0	2	0	0	4
Newcastle	/	0	1	0	0	2
York	39 #	0		39	3	
Preston	*100	0	3	101	0	6
Kirton	92	3	16	649	4	42
Broom's Barn (Bury St Edmunds)	173	14	87	4101	25	248
Wellesbourne	*351	48	154	584	73	301
Hereford	/	26	37	0	30	73
Rothamsted (Harpenden)	301	9	28	759	23	81
Writtle	284	25	46	320	74	138
Silwood Park (nr Ascot)	/	2	10	195	19	27
East Malling	296			518		
Starcross (nr Exeter)	*117	12	8	204	26	45

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	0	2	4	6	6
Gogarbank (Edinburgh)	/	1	4	0	16	15
Newcastle	/	0	1	0	2	6
York	1 #	0		1	1	
Preston	*0	3	3	0	5	13
Kirton	9	1	2	35	3	11
Broom's Barn (Bury St Edmunds)	0	0	2	27	2	6
Wellesbourne	*7	0	3	27	3	16
Hereford	/	0	4	1	3	18
Rothamsted (Harpenden)	6	0	1	22	3	6
Writtle	12	2	3	16	12	16
Silwood Park (nr Ascot)	/	0	2	27	5	11
East Malling	19			70		
Starcross (nr Exeter)	*23	5	5	55	30	16

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	0	0	0	0
Gogarbank (Edinburgh)	/	0	0	0	0	3
Newcastle	/	0	0	0	0	0
York	0	0		0	1	
Preston	*0	0	10	0	1	15
Kirton	12	0	5	109	1	10
Broom's Barn (Bury St Edmunds)	96	1	3	671	2	18
Wellesbourne	*21	0	135	425	0	188
Hereford	/	4	82	0	15	101
Rothamsted (Harpenden)	202	0	2	330	1	4
Writtle	344	31	7	345	111	23
Silwood Park (nr Ascot)	/	1	2	50	3	13
East Malling	74			156		
Starcross (nr Exeter)	*14	1	7	35	20	31

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	*41	15	15	118	61	68
Gogarbank (Edinburgh)	/	10	25	36	48	59
Newcastle	/	0	20	0	9	44
York	45	8		670	108	
Preston	*33	11	113	39	73	434
Kirton	64	26	71	1430	209	514
Broom's Barn (Bury St Edmunds)	54	11	92	934	720	702
Wellesbourne	*50	8	126	257	274	437
Hereford	/	4	35	1	43	268
Rothamsted (Harpenden)	84	6	54	122	109	302
Writtle	104	13	103	110	560	855
Silwood Park (nr Ascot)	/	7	32	32	203	222
East Malling	30			93		
Starcross (nr Exeter)	*26	12	22	87	100	112

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	*0	0	0	0	0	1
Gogarbank (Edinburgh)	/	0	0	0	2	2
Newcastle	/	0	0	0	2	1
York	2 #	3		2	6	
Preston	*0	3	1	0	5	3
Kirton	3	1	2	11	5	8
Broom's Barn (Bury St Edmunds)	1	3	9	4	8	19
Wellesbourne	*1	3	14	8	9	28
Hereford	/	4	5	0	11	19
Rothamsted (Harpenden)	6	1	7	10	4	21
Writtle	4	2	8	7	3	25
Silwood Park (nr Ascot)	/	5	7	7	10	21
East Malling	3			26		
Starcross (nr Exeter)	*9	2	7	31	14	22

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals			Accumulated until		
	2020	2018	01/06-07/06 10-year average 2009-18	2020	2018	07/06 10-year average 2009-18
Dundee	*0	0	0	0	1	2
Gogarbank (Edinburgh)	/	0	1	0	1	3
Newcastle	/	0	0	0	0	0
York	0	0		0	0	
Preston	*0	0	0	3	2	2
Kirton	1	0	0	2	0	1
Broom's Barn (Bury St Edmunds)	4	4	3	10	17	11
Wellesbourne	*0	1	2	0	3	6
Hereford	/	0	0	0	0	1
Rothamsted (Harpenden)	0	0	3	1	1	6
Writtle	4 #	2	2	4	3	7
Silwood Park (nr Ascot)	/	3	4	0	7	10
East Malling	2			5		
Starcross (nr Exeter)	*14	2	7	21	6	14

Further information

Please send information on crop aphids to: alex.greenslade@rothamsted.ac.uk

insectsurvey.com/aphid-bulletin

ahdb.org.uk/aphid-news

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