

AHDB Aphid News

Trap period 15 June – 21 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. The accumulation and first arrival data from Dundee and Gogarbank are unreliable this reporting period due to ongoing technical issues and are therefore not later referred to.
- Average air temperatures stayed above the long-term average during this period. The total number of aphids recorded across available sites appears to have generally increased slightly compared to the previous reporting period. There were two first arrivals recorded from Wellesbourne and Silwood Park.
- Total cereal aphid numbers have generally declined to around 75% of the last period but this decline was offset by a hotspot for Rose-grain aphid at Broom's Barn.
- 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, aside from increases from Preston to Broom's Barn.
- Potato aphid remains in similar numbers at available sites compared to the last reporting period.
- Cabbage aphid was recorded in roughly three figures from Wellesbourne, Rothamsted and East Malling with a large four-figure hotspot at Broom's Barn.
- Single currant-lettuce aphids were recorded from Kirton and Wellesbourne.
- Willow-carrot aphid has declined over much of Britain, but they were recorded in three-figures from Wellesbourne with a much larger increasing hotspot at Broom's Barn.
- Pea aphid has more than doubled in number over much of England, with the highest numbers being recorded at Wellesbourne. 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 reaching double figures at three sites. 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			Accumulated until		
	2020	2018	15/06-21/06 10-year average 2009-18	2020	2018	21/06 10-year average 2009-18
Dundee	/	6	11	0	10	19
Gogarbank (Edinburgh)	20	2	16	21	4	56
Newcastle	/	0	9	0	2	16
York	*12	8		27	13	
Preston	2	8	49	22	16	128
Kirton	18	13	105	49	20	168
Broom's Barn (Bury St Edmunds)	*88	26	88	120	37	179
Wellesbourne	33	16	32	90	38	71
Hereford	/	1	48	0	27	93
Rothamsted (Harpenden)	2	8	34	34	26	81
Writtle	/	23	43	4	42	106
Silwood Park (nr Ascot)	0	5	11	24	16	48
East Malling	*8			30		
Starcross (nr Exeter)	0	7	42	45	57	194

Bird cherry-oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			Accumulated until		
	2020	2018	15/06-21/06 10-year average 2009-18	2020	2018	21/06 10-year average 2009-18
Dundee	/	7	61	9	65	101
Gogarbank (Edinburgh)	2 #	2	36	2	54	72
Newcastle	/	1	66	0	22	99
York	*7	7		31	38	
Preston	29	8	14	78	17	117
Kirton	14	19	88	99	41	279
Broom's Barn (Bury St Edmunds)	*0	7	51	90	38	211
Wellesbourne	4	11	13	77	31	108
Hereford	/	1	13	0	15	63
Rothamsted (Harpenden)	12	3	23	53	27	86
Writtle	/	8	17	13	32	116
Silwood Park (nr Ascot)	7	8	8	52	53	119
East Malling	*8			170		
Starcross (nr Exeter)	3	35	17	461	194	157

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals			15/06-21/06			Accumulated until			21/06		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	1	4	2	3	9						
Gogarbank (Edinburgh)	3 #	1	7	3	11	23						
Newcastle	/	1	3	0	2	7						
York	*5	7		20	11							
Preston	30	5	7	50	14	45						
Kirton	14	2	9	40	10	20						
Broom's Barn (Bury St Edmunds)	*21	13	14	41	19	27						
Wellesbourne	11	3	7	31	10	30						
Hereford	/	0	9	0	9	24						
Rothamsted (Harpenden)	14	1	7	24	8	20						
Writtle	/	3	20	5	11	33						
Silwood Park (nr Ascot)	21	1	9	43	10	33						
East Malling	*6			58								
Starcross (nr Exeter)	2	1	12	53	13	45						

Peach-potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals			15/06-21/06			Accumulated until			21/06		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	0	3	0	1	7						
Gogarbank (Edinburgh)	2 #	0	4	2	0	9						
Newcastle	/	0	14	0	0	19						
York	*107	6		413	13							
Preston	232	0	5	426	2	23						
Kirton	50	15	103	724	28	185						
Broom's Barn (Bury St Edmunds)	*244	61	158	4401	139	498						
Wellesbourne	210	6	82	1315	105	598						
Hereford	/	1	32	0	41	153						
Rothamsted (Harpenden)	40	24	67	862	59	191						
Writtle	/	28	130	320	148	357						
Silwood Park (nr Ascot)	7	3	5	202	23	44						
East Malling	*41			680								
Starcross (nr Exeter)	2	5	10	221	60	71						

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals			15/06-21/06			Accumulated until			21/06
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	
Dundee	/	1	2	4	8	8				
Gogarbank (Edinburgh)	5 #	0	2	5	18	21				
Newcastle	/	0	1	0	2	7				
York	*9	3		14	4					
Preston	10	2	3	19	11	19				
Kirton	6	0	3	57	5	18				
Broom's Barn (Bury St Edmunds)	*35	0	3	78	2	11				
Wellesbourne	34	1	6	82	4	26				
Hereford	/	0	9	1	3	34				
Rothamsted (Harpenden)	12	0	3	47	3	11				
Writtle	/	1	5	16	13	26				
Silwood Park (nr Ascot)	7	0	2	34	5	14				
East Malling	*6			86						
Starcross (nr Exeter)	0	1	3	74	39	24				

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals			15/06-21/06			Accumulated until			21/06
	2020	2018	10-year average 2009-18	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	0	4				
Newcastle	/	0	1	0	0	1				
York	*0	4		1	5					
Preston	2	0	1	3	1	17				
Kirton	42	0	10	175	3	23				
Broom's Barn (Bury St Edmunds)	*1483	1	4	2592	4	25				
Wellesbourne	365	3	121	933	4	444				
Hereford	/	1	18	0	18	141				
Rothamsted (Harpenden)	167	2	5	621	4	9				
Writtle	/	11	11	345	130	45				
Silwood Park (nr Ascot)	21	2	1	71	5	16				
East Malling	*98			314						
Starcross (nr Exeter)	1	40	12	82	72	77				

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals			15/06-21/06			Accumulated until			21/06
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	
Dundee	/	0	5	118	64	79				
Gogarbank (Edinburgh)	5	0	12	41	52	91				
Newcastle	/	2	22	0	12	78				
York	*33	26		869	149					
Preston	85	3	27	238	79	535				
Kirton	73	14	82	1802	239	696				
Broom's Barn (Bury St Edmunds)	*484	11	66	1571	739	847				
Wellesbourne	112	13	66	645	296	580				
Hereford	/	1	25	1	45	318				
Rothamsted (Harpenden)	19	3	46	216	115	410				
Writtle	/	10	52	110	579	952				
Silwood Park (nr Ascot)	14	2	12	46	212	284				
East Malling	*10			126						
Starcross (nr Exeter)	1	2	20	107	119	146				

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals			15/06-21/06			Accumulated until			21/06
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	
Dundee	/	3	1	0	3	2				
Gogarbank (Edinburgh)	0	0	1	0	2	4				
Newcastle	/	1	2	0	3	3				
York	*2	2		5	10					
Preston	6	6	1	8	13	5				
Kirton	12	9	26	28	18	47				
Broom's Barn (Bury St Edmunds)	*15	11	20	25	27	58				
Wellesbourne	32	8	16	54	20	57				
Hereford	/	0	5	0	11	30				
Rothamsted (Harpenden)	7	23	18	23	36	54				
Writtle	/	14	21	7	22	64				
Silwood Park (nr Ascot)	7	1	3	14	15	34				
East Malling	*21			53						
Starcross (nr Exeter)	0	4	6	36	21	40				

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals			15/06-21/06			Accumulated until		
	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18	2020	2018	10-year average 2009-18
Dundee	/	0	0	0	1	3			
Gogarbank (Edinburgh)	1 #	0	0	1	2	4			
Newcastle	/	0	1	0	0	1			
York	*0	0		0	2				
Preston	2	0	3	5	2	5			
Kirton	4	5	3	10	5	5			
Broom's Barn (Bury St Edmunds)	*16	9	14	26	32	32			
Wellesbourne	5 #	2	20	5	6	38			
Hereford	/	0	1	0	1	3			
Rothamsted (Harpenden)	19	18	33	28	19	50			
Writtle	/	19	62	4	27	75			
Silwood Park (nr Ascot)	7 #	6	7	7	17	24			
East Malling	*13			27					
Starcross (nr Exeter)	0	12	19	69	36	55			

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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