

AHDB Aphid News

Suction-trap period 17 June – 23 June 2019

General

- With warmer, drier weather across Britain, the total number of aphids has increased to 220% of that recorded in the previous week.
- Cereal aphid numbers have increased by over 260% of the previous week, with rose-grain aphids reaching three figures at four sites. Accumulated numbers are mostly above the 10-year mean. 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 aphids increased to around 150% of last week, with hotspots at Kirton and Wellesbourne.
- Potato aphid numbers have increased to nearly 175% of last week across Britain, apart from four sites.
- Cabbage aphids increased at four sites.
- Single currant-lettuce aphids were recorded from Dundee, Gogarbank and Silwood Park. Four were found at Rothamsted.
- Willow-carrot aphids increased to around 245% of last week across much of England.
- Pea aphid numbers doubled across six sites this week, reaching double figures at three. 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 numbers have substantially increased from Starcross up to Preston this week, with a hotspot at Rothamsted. The threshold for black bean aphid in field and broad beans is 10% colonisation.

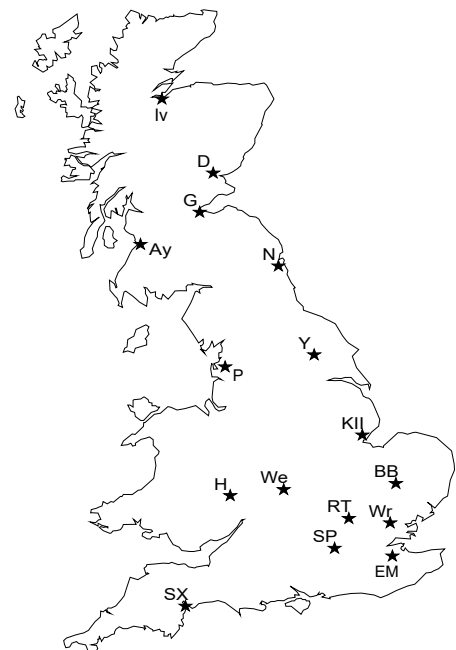
Monitoring crops is advised.

Suction-trap locations

AHDB Aphid News is based on information on aphid species and numbers from the Rothamsted Research/SASA suction-trap (ST) network. The traps are located at:

Inverness (Iv), Dundee (D), Gogarbank (G), Ayr (Ay), Newcastle (N), Preston (P), York (Y), Kirton (K), Broom's Barn (BB), Wellesbourne (We), Hereford (H), Rothamsted Tower (RT), Writtle (Wr), Silwood Park (SP), East Malling* (EM) and Starcross (SX).

* The East Malling (EM) trap will start operating during 2019.



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.

Rose-grain aphid (<i>Metopolophium dirhodum</i>)	Bulletin Week Totals			Accumulated until		
	2019	2018	10-year average 2009-18	2019	2018	10-year average 2009-18
Dundee	16	2	2	28	4	8
Gogarbank (Edinburgh)	41	0	7	73	2	40
Newcastle	*5	0	2	44	2	7
York	37	5		98	5	
Preston	*3	2	38	70	8	80
Kirton	274	4	39	375	7	63
Broom's Barn (Bury St Edmunds)	132	8	37	233	11	91
Wellesbourne	136	4	16	257	22	39
Hereford	45	3	21	98	26	45
Rothamsted (Harpenden)	116	4	24	163	18	47
Writtle	48	5	34	72	19	63
Silwood Park (nr Ascot)	70	3	17	104	11	37
East Malling	/			0		
Starcross (nr Exeter)	72	13	66	197	50	153

Bird cherry-oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals			Accumulated until		
	2019	2018	10-year average 2009-18	2019	2018	10-year average 2009-18
Dundee	7	4	19	29	58	40
Gogarbank (Edinburgh)	4	0	10	20	52	36
Newcastle	*0	1	13	9	21	33
York	20	4		236	31	
Preston	*21	1	19	166	9	103
Kirton	34	1	109	111	22	190
Broom's Barn (Bury St Edmunds)	40	4	39	170	31	161
Wellesbourne	56	1	14	153	20	95
Hereford	14	1	11	86	14	50
Rothamsted (Harpenden)	78	1	12	232	24	63
Writtle	44	3	17	123	24	99
Silwood Park (nr Ascot)	27	5	18	132	45	111
East Malling	/			0		
Starcross (nr Exeter)	75	48	23	224	159	140

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals			Accumulated until		
	2019	2018	10-year average 2009-18	2019	2018	10-year average 2009-18
Dundee	12	1	1	26	2	5
Gogarbank (Edinburgh)	11	1	4	38	10	16
Newcastle	*0	0	1	15	1	4
York	13	1		52	4	
Preston	*0	2	5	48	9	38
Kirton	30	1	3	57	8	11
Broom's Barn (Bury St Edmunds)	34	3	5	91	6	13
Wellesbourne	16	0	4	53	7	23
Hereford	4	1	4	28	9	15
Rothamsted (Harpenden)	16	1	5	48	7	13
Writtle	24	0	6	43	8	13
Silwood Park (nr Ascot)	11	4	11	32	9	24
East Malling	/			0		
Starcross (nr Exeter)	37	3	11	64	12	34

Peach-potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals			Accumulated until		
	2019	2018	10-year average 2009-18	2019	2018	10-year average 2009-18
Dundee	14	1	2	34	1	4
Gogarbank (Edinburgh)	8	0	1	12	0	5
Newcastle	*7	0	3	24	0	5
York	65	4		223	7	
Preston	*0	2	13	22	2	19
Kirton	172	9	41	374	13	83
Broom's Barn (Bury St Edmunds)	72	53	92	1242	78	340
Wellesbourne	162	26	215	480	99	516
Hereford	46	10	47	149	40	121
Rothamsted (Harpenden)	58	12	43	273	35	124
Writtle	36	46	89	186	120	227
Silwood Park (nr Ascot)	4	1	11	47	20	39
East Malling	/			0		
Starcross (nr Exeter)	26	29	17	78	55	62

Potato aphid <i>(Macrosiphum euphorbiae)</i>	Bulletin Week Totals			Accumulated until		
	2019	2018	10-year average 2009-18	2019	2018	10-year average 2009-18
Dundee	3	1	1	6	7	6
Gogarbank (Edinburgh)	3	2	4	12	18	19
Newcastle	*2	0	0	15	2	6
York	0	0		13	1	
Preston	*15	4	3	102	9	16
Kirton	8	2	4	23	5	15
Broom's Barn (Bury St Edmunds)	0	0	2	33	2	8
Wellesbourne	48	0	4	131	3	20
Hereford	43	0	7	120	3	25
Rothamsted (Harpenden)	22	0	3	65	3	9
Writtle	8	0	5	41	12	21
Silwood Park (nr Ascot)	14	0	2	66	5	12
East Malling	/			0		
Starcross (nr Exeter)	13	8	5	81	38	21

Cabbage aphid <i>(Brevicoryne brassicae)</i>	Bulletin Week Totals			Accumulated until		
	2019	2018	10-year average 2009-18	2019	2018	10-year average 2009-18
Dundee	0	0	0	0	0	1
Gogarbank (Edinburgh)	1	0	0	4	0	3
Newcastle	*0	0	0	5	0	1
York	4 #	0		4	1	
Preston	*0	0	1	1	1	16
Kirton	14	2	3	44	3	14
Broom's Barn (Bury St Edmunds)	0	1	3	117	3	20
Wellesbourne	12	1	135	40	1	323
Hereford	3	2	21	27	17	123
Rothamsted (Harpenden)	0	1	1	13	2	5
Writtle	20	8	11	98	119	34
Silwood Park (nr Ascot)	0	0	2	3	3	15
East Malling	/			0		
Starcross (nr Exeter)	0	12	35	11	32	66

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals 17/06-23/06			Accumulated until 23/06		
	2019	2018	10-year average 2009-18	2019	2018	10-year average 2009-18
Dundee	3	3	6	174	64	74
Gogarbank (Edinburgh)	1	4	20	295	52	79
Newcastle	*0	1	12	41	10	57
York	16	15		605	123	
Preston	*28	3	74	528	76	508
Kirton	14	16	100	272	225	614
Broom's Barn (Bury St Edmunds)	26	8	79	238	728	781
Wellesbourne	46	9	77	569	283	514
Hereford	60	1	25	338	44	293
Rothamsted (Harpenden)	28	3	62	216	112	364
Writtle	48	9	45	111	569	900
Silwood Park (nr Ascot)	35	7	50	205	210	272
East Malling	/			0		
Starcross (nr Exeter)	25	17	13	197	117	125

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals 17/06-23/06			Accumulated until 23/06		
	2019	2018	10-year average 2009-18	2019	2018	10-year average 2009-18
Dundee	4	0	1	8	0	1
Gogarbank (Edinburgh)	0	0	1	1	2	3
Newcastle	*0	0	1	7	2	2
York	8	2		17	8	
Preston	*0	2	1	2	7	5
Kirton	24	4	13	92	9	21
Broom's Barn (Bury St Edmunds)	37	8	20	76	16	38
Wellesbourne	26	3	13	67	12	41
Hereford	2	0	6	17	11	25
Rothamsted (Harpenden)	40	9	16	81	13	37
Writtle	32	5	18	57	8	43
Silwood Park (nr Ascot)	22	4	11	53	14	31
East Malling	/			0		
Starcross (nr Exeter)	4	3	13	34	17	34

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals			Accumulated until		
	2019	2018	10-year average 2009-18	2019	2018	10-year average 2009-18
Dundee	0	0	0	5	1	3
Gogarbank (Edinburgh)	1	1	0	10	2	3
Newcastle	*0	0	0	0	0	0
York	0	2		0	2	
Preston	*3 #	0	1	3	2	2
Kirton	6	0	1	9	0	2
Broom's Barn (Bury St Edmunds)	18	6	7	37	23	18
Wellesbourne	30	1	12	42	4	18
Hereford	32	1	1	40	1	2
Rothamsted (Harpenden)	78	0	11	133	1	17
Writtle	58	5	6	87	8	13
Silwood Park (nr Ascot)	40	4	7	119	11	17
East Malling	/			0		
Starcross (nr Exeter)	15	18	22	35	24	36

Further information

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

insectsurvey.com

ahdb.org.uk/aphid-news

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