

29 June 2018

This news sheet summarises up-to-date results from the Rothamsted/SASA suction-trap (ST) network and the FERA yellow water-pan trap (YWT) network.

GENERAL

The weather has been warm and very dry. Several aphid species have increased in number across the majority of ST across Britain, compared with last week. It should be noted, however, that the accumulated numbers of many species are still at or below their respective 10-year means. **Monitoring all crops is advised.**

CEREALS

- Although the numbers of cereal aphids in the ST this week have increased markedly, the accumulated numbers are still mostly below the 10-year mean for this stage in the year.
- No field reports have been received this week. 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. Most damage occurs when grain aphids colonise the ears between GS61 to GS73.
- **Monitoring crops is advised.**

POTATOES

- The peach–potato aphid was caught at 10 ST sites this week, but with numbers increasing at only five. The highest number recorded was from Broom’s Barn (67). They were also found in the Grampian region and across England in YWT.
- The potato aphid was caught at six sites in single figures this bulletin week, increasing in number at four. They were also found from the Grampian region and all regions in England, apart from the South West, in the YWT.
- Virus pressure has decreased in five of the YWT regions over the last week, but increased in Northern England, Midlands and East Anglia. Virus pressure is lower than the overall average for previous years in all regions.
- With regards to non-colonising vectors of PVY and PVA; the numbers of cereal aphids and willow-carrot aphids has increased this week in the ST. However, the leaf curling plum aphid has decreased slightly compared with last week.
- Black bean aphids have been caught across southern England up to Kirton in the ST and from south West England to the Borders in the YWT, this species transmits PVA very efficiently. Further regional information on potato virus vectors and the FERA yellow water-pan trap (YWT) network can be accessed here: <http://aphmon.fera.defra.gov.uk/>

OILSEED RAPE, FIELD BRASSICAS and LEAFY VEGETABLES

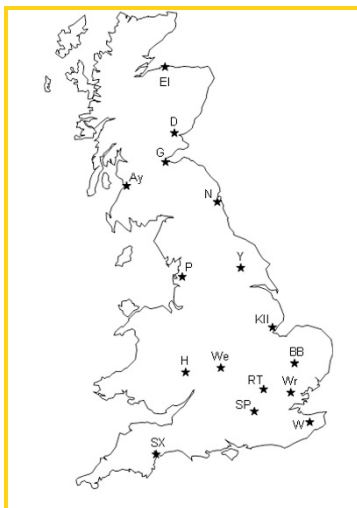
- The peach–potato aphid was caught at 10 ST sites across the country this week, but with numbers increasing at only five. The highest number recorded was from Broom’s Barn (67). They were also found in the Grampian region and across England in YWT.
- The mealy cabbage aphid was caught from 11 ST sites in England this week, increasing at 10. There was a hotspot at Starcross (46).
- No currant-lettuce aphids were recorded from the ST this week.

CARROTS

- The willow–carrot aphid was caught at 11 ST sites this week, with numbers increasing across England. The highest number found was at York (29) and Broom’s Barn (25).

PEAS and BEANS

- The pea aphid was recorded from, and increasing in number at, 11 ST sites this week. The highest number caught was from Rothamsted (41).
- No field reports of pea aphids have been received this week. 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.
- The black bean aphid was caught at eight ST sites this week and increasing in number at seven across England. We have had reports that thresholds have been met for this aphid in some winter bean crops in Bedfordshire. Individuals have also been spotted in spring beans. The threshold for black bean aphid in field and broad beans is 10% colonisation. A lower threshold of 5% infested is advised to prevent virus transmission.



Suction-trapping Results

The information below relates to suction-trap samples collected during Bulletin Week **11: 18/6 – 24/6**.

‘*’ indicates where totals have been corrected proportionally to seven days, fewer days’ samples having been processed and **0 = none so far this year**.

Rose-grain aphid (Metopolophium dirhodum)	Bulletin Week Totals		18/06-24/06		Accumulated until		24/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	6	↑	0	12	10	45	20
Gogarbank (Edinburgh)	2	↑	6	18	5	292	61
Newcastle	3	↑	13	11	4	51	26
York	11	↑	32	/	17	111	/
Preston	4		10	56	16	198	144
Kirton	15	↑	73	111	25	211	185
Broom’s Barn (Bury St Edmunds)	63	↑	49	102	77	129	197
Wellesbourne	22	↑	60	41	44	111	85
Hereford	2	↓	49	56	28	122	107
Rothamsted (Harpenden)	26	↑	14	37	48	53	86
Writtle	39	↑	10	50	59	74	116
Silwood Park (nr Ascot)	10	↑	5	14	20	22	57
Wye	20	↑	27	15	23	41	26
Starcross (nr Exeter)	7	↓	6	47	63	126	213

The rose-grain aphid was caught at all sites and increased in number at 11 sites across the country this bulletin week. There was also a hotspot at Broom’s Barn (63).

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		18/06-24/06		Accumulated until		24/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	9	↑	2	62	67	48	99
Gogarbank (Edinburgh)	2	↑	8	40	54	156	79
Newcastle	4	↑	5	63	10	85	111
York	21	↑	18	/	47	95	/
Preston	0	↓	34	14	12	843	125
Kirton	15	↑	9	102	41	65	309
Broom's Barn (nr Bury St Edmunds)	18	↑	12	54	48	71	221
Wellesbourne	15	↑	22	18	37	88	122
Hereford	2	↑	1	15	9	106	70
Rothamsted (Harpenden)	7	↑	5	25	40	33	92
Writtle	6	↑	12	19	29	75	129
Silwood Park (nr Ascot)	3		14	8	39	49	130
Wye	6	↑	38	9	17	81	144
Starcross (nr Exeter)	39	↓	14	14	215	158	223

The bird cherry–oat aphid was caught at 13 sites this bulletin week, with numbers increasing at 11 sites across Britain. As with last week, there was a hotspot at Starcross (39).

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		18/06-24/06		Accumulated until		24/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	3	↑	2	4	5	25	10
Gogarbank (Edinburgh)	1		23	7	11	115	26
Newcastle	3	↑	4	5	6	17	18
York	8	↑	106	/	12	199	/
Preston	4		6	8	20	214	50
Kirton	2	↑	10	9	13	22	21
Broom's Barn (nr Bury St Edmunds)	55	↑	4	15	64	19	28
Wellesbourne	5	↑	9	11	11	21	37
Hereford	0	↓	8	10	12	42	27
Rothamsted (Harpenden)	4	↑	3	9	10	10	22
Writtle	5	↑	2	27	11	13	41
Silwood Park (nr Ascot)	1	↓	6	4	12	11	36
Wye	1	↑	2	2	5	7	13
Starcross (nr Exeter)	1	↓	25	15	16	67	63

The grain aphid was caught at 13 sites this week, increasing at nine sites across the country with a hotspot at Broom's Barn (55).

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		18/06-24/06		Accumulated until		24/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	15	3	1	41	7
Gogarbank (Edinburgh)	0		27	4	0	79	12
Newcastle	0		114	15	0	161	26
York	7		444	/	18	790	/
Preston	0		28	9	2	49	38
Kirton	15	↑	236	141	27	668	239
Broom's Barn (nr Bury St Edmunds)	67	↑	101	180	128	1115	540
Wellesbourne	15	↓	104	97	133	732	617
Hereford	2	↓	79	35	46	365	157
Rothamsted (Harpenden)	33	↑	30	71	68	237	201
Writtle	30	↓	10	129	145	113	363
Silwood Park (nr Ascot)	6	↑	3	6	27	19	47
Wye	13	↑	19	62	59	153	167
Starcross (nr Exeter)	8	↓	31	10	67	122	77

The peach–potato aphid was caught at 10 sites across the country this week, but with numbers increasing at only five. The highest number recorded was again from Broom's Barn (67).

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		18/06-24/06		Accumulated until		24/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1		4	2	8	24	8
Gogarbank (Edinburgh)	0	↓	3	4	18	66	25
Newcastle	0		2	2	2	31	12
York	4	↑	4	/	5	29	/
Preston	3	↑	1	4	10	30	20
Kirton	0	↓	0	3	6	59	19
Broom's Barn (nr Bury St Edmunds)	0		5	3	2	20	12
Wellesbourne	1	↑	0	10	1	50	32
Hereford	0		18	9	5	110	35
Rothamsted (Harpenden)	0		4	3	6	12	12
Writtle	1	↑	3	5	14	55	28
Silwood Park (nr Ascot)	0		1	2	5	6	15
Wye	0	↓	0	1	2	14	10
Starcross (nr Exeter)	1	↓	1	2	46	34	31

The potato aphid was caught at six sites in single figures this bulletin week, increasing in number at four. A first arrival was recorded from Wellesbourne (22/6), the potato aphid has now been caught from all ST this year.

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		18/06-24/06		Accumulated until		24/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		0	0	0	5	1
Gogarbank (Edinburgh)	0		3	1	0	33	5
Newcastle	0		5	1	0	11	6
York	2	↑	16	/	2	16	/
Preston	1	↑	10	2	3	22	23
Kirton	2		14	11	5	35	28
Broom's Barn (nr Bury St Edmunds)	4	↑	10	7	8	95	28
Wellesbourne	9	↑	20	184	12	47	538
Hereford	2	↑	8	19	21	92	148
Rothamsted (Harpenden)	4	↑	2	5	6	2	11
Writtle	23	↑	6	13	128	14	43
Silwood Park (nr Ascot)	4	↑	0	2	6	2	19
Wye	10	↑	7	9	18	8	27
Starcross (nr Exeter)	46	↑	5	7	77	54	88

The mealy cabbage aphid was caught from 11 sites in England this week, increasing at 10 and included a first arrival from York (22/6). There was also a hotspot at Starcross (46).

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		18/06-24/06		Accumulated until		24/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	0	6	64	113	81
Gogarbank (Edinburgh)	0	↓	3	15	52	184	103
Newcastle	6	↑	44	23	15	146	84
York	29	↑	4	/	165	719	/
Preston	4	↑	5	28	69	598	612
Kirton	14	↑	15	102	284	922	732
Broom's Barn (nr Bury St Edmunds)	25	↑	14	71	1083	575	810
Wellesbourne	19	↑	4	73	185	764	578
Hereford	0	↓	2	28	47	835	452
Rothamsted (Harpenden)	12	↑	2	51	125	120	434
Writtle	9	↑	0	54	676	213	945
Silwood Park (nr Ascot)	10	↑	0	14	150	101	296
Wye	14	↑	0	28	179	135	394
Starcross (nr Exeter)	2	↓	1	16	129	158	148

The willow-carrot aphid was caught at 11 sites this week, with numbers increasing at 10 sites across England. The highest number found was at York (29) and Broom's Barn (25).

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		18/06-24/06		Accumulated until		24/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	2	↑	1	1	3	7	2
Gogarbank (Edinburgh)	0		1	2	2	4	5
Newcastle	0		3	2	1	9	4
York	2	↑	0	/	10	1	/
Preston	4	↑	0	2	9	9	6
Kirton	8	↑	29	28	14	59	49
Broom's Barn (nr Bury St Edmunds)	19	↑	9	22	40	47	61
Wellesbourne	7	↑	65	25	20	73	68
Hereford	0		1	6	11	34	31
Rothamsted (Harpenden)	41	↑	25	16	55	47	53
Writtle	18	↑	19	22	26	77	70
Silwood Park (nr Ascot)	3	↑	2	3	19	10	37
Wye	28	↑	8	4	54	28	24
Starcross (nr Exeter)	5	↑	2	6	27	23	48

The pea aphid was recorded from and increasing in number at 11 sites this week across Britain. The highest number caught was from Rothamsted (41).

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		18/06-24/06		Accumulated until		24/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		0	0	1	6	3
Gogarbank (Edinburgh)	0	↓	0	0	2	16	4
Newcastle	0		4	1	0	4	1
York	0	↓	22	/	2	27	/
Preston	0		29	4	5	35	6
Kirton	6	↑	6	4	6	8	6
Broom's Barn (nr Bury St Edmunds)	13	↑	25	20	41	100	38
Wellesbourne	5	↑	24	28	8	74	48
Hereford	0	↓	1	5	1	4	8
Rothamsted (Harpenden)	21	↑	24	45	23	64	68
Writtle	18	↑	11	66	28	80	83
Silwood Park (nr Ascot)	11	↑	6	9	25	11	27
Wye	15	↑	1	12	20	19	23
Starcross (nr Exeter)	13	↓	45	15	39	169	88

The black bean aphid was caught at eight sites this week and increasing in number at seven across England. A first arrival was recorded from Kirton (18/6).

Further information

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

AHDB Cereals and Oilseeds: [Click here](#)

AHDB Potatoes: [Click here](#)

AHDB Horticulture: [Click here](#)

Rothamsted Insect Survey: [Click here](#)

Science and Advice for Scottish Agriculture (SASA): [Click here](#)

In partnership with



AHDB publications are free to levy payers
Electronic version can be downloaded at cereals.ahdb.org.uk/aphidnews
To join the mailing lists, contact: comms@ahdb.org.uk

While the Agriculture and Horticulture Development Board seeks to ensure that the information contained within this document is accurate at the time of printing, no warranty is given in respect thereof and, to the maximum extent permitted by law, the Agriculture and Horticulture Development Board accepts no liability for loss, damage or injury howsoever caused (including that caused by negligence) or suffered directly or indirectly in relation to information and opinions contained in or omitted from this document. Reference herein to trade names and proprietary products without stating that they are protected does not imply that they may be regarded as unprotected and thus free for general use. No endorsement of named products is intended, nor is any criticism implied of other alternative but unnamed products.

© Agriculture and Horticulture Development Board 2018. All rights reserved