

22nd 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 – With the continued warm but dry weather this week, aphid diversity and abundance has remained broadly similar in the ST compared to that of last week (apart from a fall in sycamore aphid numbers).

CEREALS

- Numbers of cereal aphids in the ST this week remain about the same as that of last week. The accumulated numbers are still mostly below the 10yr 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 GS 61-73.
- **Monitoring crops is advised.**

POTATOES

- The peach–potato aphid was caught at eleven ST sites, increasing at eight. The highest number was recorded from Broom’s Barn (56) and there was a first arrival at Dundee (15/6). They were also found across Britain from the Borders south in YWT.
- The potato aphid was caught at six ST sites in single figures, increasing in number at Dundee, Wye and Starcross. They were also found from the North of Scotland, Angus & Perthshire and all regions in England apart from the South West in the YWT.
- Virus pressure has decreased this week in half the YWT regions, but increased in Grampian, Northern England and particularly in East Anglia and the South West.
- Non-colonising vectors of PVY and PVA such as the willow-carrot aphid and the leaf curling plum aphid may contribute to the overall virus pressure but have decreased this week in the ST.
- Although still in relatively low numbers at present, cereal aphids and the black bean aphid may also pose a threat later. 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

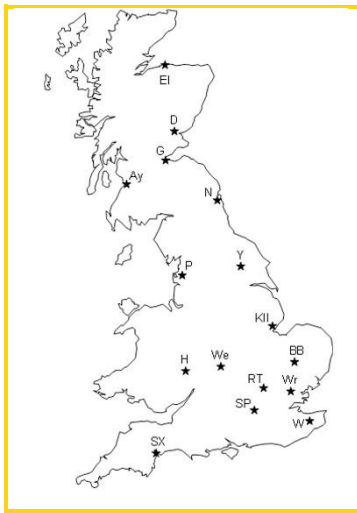
- The peach–potato aphid was caught at eleven ST sites, increasing at eight. The highest number was recorded from Broom’s Barn (56) and there was a first arrival at Dundee (15/6). They were also found across Britain from the Borders south in YWT.
- The mealy cabbage aphid was caught from seven ST sites, increasing at four; including a first arrival at Wellesbourne (13/6).
- A single currant-lettuce aphid was recorded from Silwood Park in the ST this week.

CARROTS

- The willow–carrot aphid was caught at all ST sites apart from Newcastle this week, with numbers generally down and only increasing at York, Wellesbourne and Starcross.

PEAS and BEANS

- The pea aphid was caught in single figures at ten ST sites this week and increasing at eight. There was also a first arrival at Dundee (17/6).
- 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 nine sites this week including a hotspot at Starcross, no field reports have been received. The threshold for black bean aphid in field and broad beans is 10% colonisation.



Suction-trapping Results

The information below relates to suction-trap samples collected during Bulletin Week **10: 11/6 – 17/6**.

‘*’ 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		11/06-17/06		Accumulated until		17/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	2	↑	2	2	4	45	9
Gogarbank (Edinburgh)	1		8	7	3	286	43
Newcastle	0	↓	5	4	1	38	15
York	6	↑	17	/	6	79	/
Preston	4	↑	17	39	12	188	88
Kirton	5	↑	30	41	10	138	74
Broom’s Barn (Bury St Edmunds)	7	↑	21	39	14	80	96
Wellesbourne	7	↑	24	20	22	51	43
Hereford	3	↓	10	24	25	73	51
Rothamsted (Harpenden)	2	↓	21	25	23	39	49
Writtle	4	↓	26	34	20	64	67
Silwood Park (nr Ascot)	3	↑	0	17	11	17	43
Wye	1	↑	6	7	3	14	12
Starcross (nr Exeter)	14	↑	12	73	56	120	166

The rose-grain aphid was caught at thirteen sites in relatively low numbers this bulletin week. Numbers were however up on last week at nine sites, with a hotspot at Starcross (14). There was also a first arrival at York (11/6).

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		11/06-17/06		Accumulated until		17/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	3	↓	5	20	58	46	37
Gogarbank (Edinburgh)	1	↓	9	11	52	148	39
Newcastle	1		5	18	6	80	48
York	2	↓	4	/	26	77	/
Preston	1		102	20	12	809	111
Kirton	1	↑	4	90	26	56	207
Broom's Barn (nr Bury St Edmunds)	3	↓	5	41	31	59	167
Wellesbourne	0		4	14	22	66	103
Hereford	1	↑	8	13	6	105	55
Rothamsted (Harpenden)	1	↑	0	13	33	28	68
Writtle	3	↓	2	21	23	63	110
Silwood Park (nr Ascot)	3	↓	0	13	36	35	122
Wye	0		16	14	11	43	135
Starcross (nr Exeter)	49	↓	12	29	177	144	209

The bird cherry–oat aphid was caught at twelve sites this bulletin week, but with numbers increasing at only Kirton, Hereford and Rothamsted. As with last week there was a hotspot at Starcross (53).

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		11/06-17/06		Accumulated until		17/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↑	2	2	2	23	6
Gogarbank (Edinburgh)	1		26	5	10	92	19
Newcastle	0		2	3	4	13	13
York	1	↓	25	/	4	93	/
Preston	4	↑	4	6	16	208	42
Kirton	1	↑	5	4	10	12	12
Broom's Barn (nr Bury St Edmunds)	0	↓	4	4	9	15	13
Wellesbourne	0		2	6	7	12	26
Hereford	1	↑	5	5	12	34	17
Rothamsted (Harpenden)	1	↑	0	5	6	7	13
Writtle	0	↓	10	7	7	11	14
Silwood Park (nr Ascot)	3	↑	0	17	11	5	32
Wye	0	↓	0	1	4	5	11
Starcross (nr Exeter)	3	↑	6	14	15	42	48

The grain aphid was caught in single figures at nine sites this week, with increases at seven sites across the country.

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		11/06-17/06		Accumulated until		17/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↑	13	2	1	26	4
Gogarbank (Edinburgh)	0		14	2	0	52	8
Newcastle	0		30	4	0	47	11
York	7	↑	147	/	11	346	/
Preston	0	↓	9	16	2	21	29
Kirton	9	↑	211	53	12	432	98
Broom's Barn (nr Bury St Edmunds)	56	↑	126	107	62	1014	360
Wellesbourne	35	↓	63	178	118	628	521
Hereford	10	↓	16	46	44	286	122
Rothamsted (Harpenden)	8	↑	56	47	36	207	130
Writtle	48	↑	53	97	115	103	234
Silwood Park (nr Ascot)	1	↓	0	11	22	16	42
Wye	9	↑	30	17	47	134	105
Starcross (nr Exeter)	28	↑	10	13	59	91	67

The peach–potato aphid was caught at eleven sites across the country this week, with numbers increasing at eight including the highest number recorded from Broom's Barn (56). There was a first arrival at Dundee (15/6).

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		11/06-17/06		Accumulated until		17/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↑	0	1	7	20	6
Gogarbank (Edinburgh)	1	↓	1	4	18	63	21
Newcastle	0		3	1	2	29	10
York	0		0	/	1	25	/
Preston	2	↓	0	3	7	29	17
Kirton	1	↓	5	4	6	59	16
Broom's Barn (nr Bury St Edmunds)	0		0	2	2	15	9
Wellesbourne	0		5	4	0	50	22
Hereford	0		9	7	5	92	27
Rothamsted (Harpenden)	0		0	3	6	8	9
Writtle	0	↓	0	5	13	52	23
Silwood Park (nr Ascot)	0		0	2	5	5	14
Wye	1	↑	0	3	2	14	9
Starcross (nr Exeter)	8	↑	3	6	45	33	28

The potato aphid was caught at six sites in single figures this bulletin week, increasing in number at Dundee, Wye and Starcross.

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		11/06-17/06		Accumulated until		17/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		2	0	0	5	1
Gogarbank (Edinburgh)	0		2	1	0	30	5
Newcastle	0		4	2	0	6	5
York	0		0	/	0	0	/
Preston	0		0	1	1	12	22
Kirton	2	↑	15	5	3	21	16
Broom's Barn (nr Bury St Edmunds)	1		0	2	4	85	21
Wellesbourne	2	↑	3	139	2	27	354
Hereford	1	↓	0	20	18	84	129
Rothamsted (Harpenden)	1	↑	0	1	2	0	6
Writtle	8		1	10	105	8	30
Silwood Park (nr Ascot)	0	↓	0	2	2	2	17
Wye	0	↓	0	3	8	1	18
Starcross (nr Exeter)	11	↑	3	38	31	49	81

The mealy cabbage aphid was caught from seven sites in England this week, increasing at four. There was also a first arrival at Wellesbourne (13/6).

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		11/06-17/06		Accumulated until		17/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	2	↓	2	6	64	113	76
Gogarbank (Edinburgh)	2	↓	1	19	52	181	88
Newcastle	0	↓	14	14	9	102	61
York	11	↑	21	/	136	715	/
Preston	2	↓	52	75	64	593	584
Kirton	11	↓	46	92	270	907	630
Broom's Barn (nr Bury St Edmunds)	7	↓	12	75	1059	561	740
Wellesbourne	7	↑	22	81	167	760	505
Hereford	2		10	27	47	833	425
Rothamsted (Harpenden)	2	↓	5	57	113	118	383
Writtle	7	↓	5	45	666	213	891
Silwood Park (nr Ascot)	4	↓	0	55	140	101	282
Wye	3		2	27	165	135	366
Starcross (nr Exeter)	17	↑	8	18	127	157	132

The willow-carrot aphid was caught at all sites apart from Newcastle this week, with numbers generally down and only increasing at York and Wellesbourne as well as Starcross which recorded the highest number (17).

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		11/06-17/06		Accumulated until		17/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↑	2	1	1	6	1
Gogarbank (Edinburgh)	0		1	1	2	3	3
Newcastle	0		1	1	1	6	2
York	0	↓	0	/	8	1	/
Preston	1	↓	4	1	5	9	5
Kirton	4	↑	11	13	6	30	21
Broom's Barn (nr Bury St Edmunds)	9	↑	19	20	22	38	39
Wellesbourne	5	↑	5	13	13	8	43
Hereford	0	↓	1	6	11	33	25
Rothamsted (Harpenden)	7	↑	16	15	14	22	37
Writtle	4	↑	29	19	8	58	48
Silwood Park (nr Ascot)	2	↓	0	7	16	8	34
Wye	4	↑	8	7	26	20	19
Starcross (nr Exeter)	3	↑	2	13	23	21	42

The pea aphid was caught in single figures at ten sites this week and increasing at eight across Britain. There was also a first arrival at Dundee (17/6), this species has now been caught in all the ST this year.

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		11/06-17/06		Accumulated until		17/06
	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)	1	↑	2	0	2	16	4
Newcastle	0		0	0	0	0	0
York	2	↑	1	/	2	5	/
Preston	0		4	1	5	6	2
Kirton	0		2	1	0	2	2
Broom's Barn (nr Bury St Edmunds)	6	↑	35	8	28	75	18
Wellesbourne	0	↓	40	14	3	50	20
Hereford	1	↑	0	1	1	3	3
Rothamsted (Harpenden)	1	↑	24	14	2	40	23
Writtle	7	↑	39	9	10	69	17
Silwood Park (nr Ascot)	3	↓	0	6	14	5	19
Wye	4	↑	4	5	5	18	11
Starcross (nr Exeter)	18	↑	99	48	26	124	73

The black bean aphid was caught at nine sites this week and increasing at eight across the country including a hotspot at Starcross (18). There were also first arrivals at York (15/6) and Hereford (12/6).

Further information

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

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

AHDB Potatoes: [Click here](#)

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