

15th 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 – despite the continued warm but dry weather this week, aphid abundance has generally fallen substantially in the ST though the diversity of species caught has remained high.

We also wish to congratulate our colleague Fiona Highet (SASA) for being awarded her MBE for services to Bee Health, well done Fiona.

CEREALS

- Numbers of cereal aphids in the ST decreased slightly this week apart from the rose-grain aphid. 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.
- **Monitoring crops is advised.**

POTATOES

- Peach–potato aphids have been caught across England this week in the ST with the highest number recorded from Wellesbourne (42) and now across all of Britain this year in YWT except North Scotland.
- The potato aphid was caught at five ST sites this bulletin week, increasing in number only at Preston. They have also now been found in low numbers from all regions this year in the YWT apart from North Scotland.
- Virus pressure has increased this week in YWT to being equal to or lower than average except Angus & Perthshire where one site has high numbers.
- 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

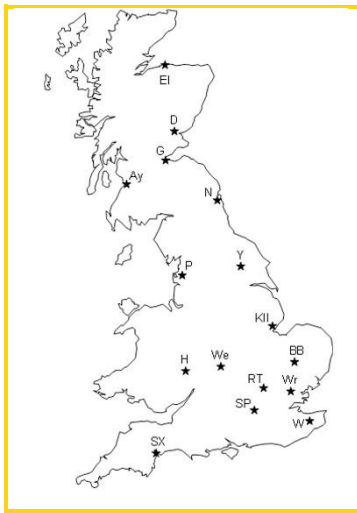
- Peach–potato aphids have been caught across England this week in the ST with the highest number recorded from Wellesbourne (42) and now across all of Britain this year in YWT except North Scotland.
- The mealy cabbage aphid was caught in single figures from six ST sites this week increasing only at Silwood.
- A single currant-lettuce aphid was recorded from Wellesbourne in the ST this week.

CARROTS

- The willow–carrot aphid was caught at all sites this week, with numbers generally down and only increasing at Newcastle. The highest number was recorded from Kirton (30).

PEAS and BEANS

- The pea aphid was caught in single figures at eleven sites across England this week and increasing at five.
- 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.
- The black bean aphid was caught in single figures at five sites this week, 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 9: 04/6 – 10/6.

‘*’ 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		04/06-10/06		Accumulated until		10/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		2	1	2	43	7
Gogarbank (Edinburgh)	1		30	6	2	278	36
Newcastle	1	↑	4	4	1	33	11
York	0		14	/	0	62	/
Preston	2	↓	2	12	8	171	49
Kirton	1	↓	6	11	5	108	32
Broom’s Barn (Bury St Edmunds)	2	↓	2	27	7	59	57
Wellesbourne	2	↓	5	9	15	27	23
Hereford	12	↑	10	10	22	63	27
Rothamsted (Harpenden)	7	↓	3	12	21	18	24
Writtle	8	↑	3	12	16	38	33
Silwood Park (nr Ascot)	2		0	11	8	17	26
Wye	0		2	1	2	8	5
Starcross (nr Exeter)	4	↓	8	34	42	108	93

The rose-grain aphid was caught at eleven sites in relatively low numbers this bulletin week. Numbers were up on last week at Newcastle, Hereford and Writtle. There was also a first arrival at Newcastle (5/6).

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		04/06-10/06		Accumulated until		10/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	5	↓	4	5	55	41	17
Gogarbank (Edinburgh)	5	↓	21	7	51	139	28
Newcastle	1	↑	9	12	5	75	30
York	4	↓	40	/	24	73	/
Preston	1	↓	52	8	11	707	91
Kirton	0	↓	5	70	25	52	117
Broom's Barn (nr Bury St Edmunds)	7		0	51	28	54	126
Wellesbourne	0	↓	8	28	22	62	89
Hereford	0		8	8	5	97	42
Rothamsted (Harpenden)	0	↓	2	19	32	28	55
Writtle	4	↑	0	15	20	61	89
Silwood Park (nr Ascot)	6	↓	0	31	33	35	109
Wye	0	↓	3	15	11	27	121
Starcross (nr Exeter)	53	↑	9	30	128	132	180

The bird cherry–oat aphid was caught at nine sites this bulletin week, with numbers increasing at Newcastle, Writtle and a hotspot at Starcross (53).

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		04/06-10/06		Accumulated until		10/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	2	1	1	21	4
Gogarbank (Edinburgh)	1	↓	13	4	9	66	13
Newcastle	0	↓	1	2	4	11	11
York	3	↑	33	/	3	68	/
Preston	1	↓	20	6	12	204	36
Kirton	0	↓	0	2	9	7	8
Broom's Barn (nr Bury St Edmunds)	3	↓	0	2	9	11	9
Wellesbourne	0	↓	0	4	7	10	20
Hereford	0	↓	1	2	11	29	11
Rothamsted (Harpenden)	0		1	3	5	7	8
Writtle	1		1	1	7	1	7
Silwood Park (nr Ascot)	1	↓	0	4	8	5	15
Wye	1		0	1	4	5	11
Starcross (nr Exeter)	2	↓	2	9	12	36	34

The grain aphid was caught in single figures at eight sites this week, with an increase only at York (3) which also recorded a first arrival (7/6).

Peach-potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		04/06-10/06		Accumulated until		10/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		5	1	0	13	2
Gogarbank (Edinburgh)	0		10	2	0	38	6
Newcastle	0		5	3	0	17	7
York	1		79	/	4	199	/
Preston	2	↑	0	8	2	12	13
Kirton	3	↑	16	14	3	221	45
Broom's Barn (nr Bury St Edmunds)	1	↓	22	74	6	888	253
Wellesbourne	42	↑	21	175	83	565	343
Hereford	24	↑	17	35	34	270	76
Rothamsted (Harpenden)	6	↓	12	29	28	151	83
Writtle	21	↓	11	44	67	50	137
Silwood Park (nr Ascot)	2	↓	0	12	21	16	31
Wye	1	↓	13	16	38	104	87
Starcross (nr Exeter)	12		14	9	31	81	54

The peach-potato aphid was caught at eleven sites across England this week, with numbers increasing at four including the highest number recorded from Wellesbourne (42). There were first arrivals at Kirton (4/6) and Preston (10/6).

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		04/06-10/06		Accumulated until		10/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	2	1	6	20	5
Gogarbank (Edinburgh)	2	↓	6	5	17	62	17
Newcastle	0		3	2	2	26	9
York	0		0	/	1	25	/
Preston	4	↑	0	3	5	29	13
Kirton	2		4	1	5	54	12
Broom's Barn (nr Bury St Edmunds)	0	↓	0	2	2	15	7
Wellesbourne	0		0	3	0	45	18
Hereford	0	↓	3	5	5	83	20
Rothamsted (Harpenden)	0	↓	0	1	6	8	6
Writtle	2	↓	3	3	13	52	17
Silwood Park (nr Ascot)	0	↓	0	2	5	5	12
Wye	0	↓	1	2	1	14	6
Starcross (nr Exeter)	4	↓	8	6	37	30	22

The potato aphid was caught at five sites this bulletin week, increasing in number only at Preston.

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		04/06-10/06		Accumulated until		10/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		2	0	0	3	0
Gogarbank (Edinburgh)	0		0	1	0	28	4
Newcastle	0		1	3	0	2	3
York	0		0	/	0	0	/
Preston	0		0	13	1	12	20
Kirton	0		0	5	1	6	12
Broom's Barn (nr Bury St Edmunds)	1	↓	0	5	3	85	19
Wellesbourne	0		1	144	0	24	215
Hereford	3	↓	2	87	17	84	109
Rothamsted (Harpenden)	0		0	2	1	0	6
Writtle	8	↓	0	5	97	7	19
Silwood Park (nr Ascot)	1	↑	0	2	2	2	15
Wye	1	↓	1	2	8	1	15
Starcross (nr Exeter)	2	↓	11	9	20	46	43

The mealy cabbage aphid was caught in single figures from six sites this week increasing only at Silwood.

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		04/06-10/06		Accumulated until		10/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	13	↓	7	14	62	111	70
Gogarbank (Edinburgh)	3	↓	3	29	50	180	69
Newcastle	1	↑	2	18	9	88	47
York	9	↓	1	/	125	694	/
Preston	11	↓	16	126	62	541	509
Kirton	30	↓	11	79	259	861	538
Broom's Barn (nr Bury St Edmunds)	10	↓	3	80	1052	549	665
Wellesbourne	6	↓	3	111	160	738	424
Hereford	2	↓	22	45	45	823	397
Rothamsted (Harpenden)	4	↓	1	50	111	113	326
Writtle	12	↓	1	72	659	208	847
Silwood Park (nr Ascot)	9	↓	2	31	136	101	227
Wye	3	↓	0	46	162	133	339
Starcross (nr Exeter)	10	↓	9	19	110	149	115

The willow-carrot aphid was caught at all sites this week, with numbers generally down and only increasing at Newcastle. The Highest number was recorded from Kirton (30).

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		04/06-10/06		Accumulated until		10/06
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		0	0	0	4	1
Gogarbank (Edinburgh)	0	↓	0	0	2	2	2
Newcastle	0		1	1	1	5	1
York	5	↑	0	/	8	1	/
Preston	3	↑	0	1	4	5	3
Kirton	1	↑	0	3	2	19	9
Broom's Barn (nr Bury St Edmunds)	3	↓	1	10	13	19	19
Wellesbourne	1	↓	0	14	8	3	30
Hereford	2	↓	3	4	11	32	19
Rothamsted (Harpenden)	2	↓	1	7	7	6	22
Writtle	3	↑	1	10	4	29	28
Silwood Park (nr Ascot)	7	↑	0	9	14	8	27
Wye	2	↓	0	3	22	12	12
Starcross (nr Exeter)	2	↓	3	7	20	19	29

The pea aphid was caught in single figures at eleven sites across England this week and increasing at five.

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		04/06-10/06		Accumulated until		10/06
	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	2
Gogarbank (Edinburgh)	0	↓	0	1	1	14	3
Newcastle	0		0	0	0	0	0
York	0		0	/	0	4	/
Preston	0	↓	0	1	5	2	2
Kirton	0		0	0	0	0	1
Broom's Barn (nr Bury St Edmunds)	4	↓	14	3	22	40	10
Wellesbourne	2	↑	3	2	3	10	6
Hereford	0		0	0	0	3	2
Rothamsted (Harpenden)	0		3	4	1	16	9
Writtle	2	↑	6	3	3	30	9
Silwood Park (nr Ascot)	4	↓	1	5	11	5	12
Wye	0		2	2	1	14	6
Starcross (nr Exeter)	2	↓	3	16	8	25	26

The black bean aphid was caught in single figures at five sites this week and increasing at only Wellesbourne and Writtle.

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](#)

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

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