

1st 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 wet but warm weather, aphid diversity has increased this week. Total numbers have fallen largely due to a reduction in the numbers of the Common Sycamore Aphid (*Drepanosiphum platanoidis*).

CEREALS

- Numbers of cereal aphids in the suction-traps increased slightly this week. The accumulated numbers are 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. Spring cereals remain at potential risk from BYDV up to GS31.
- **Monitoring crops is advised.**

POTATOES

- The peach–potato aphid (*Myzus persicae*) have been caught throughout the south of England in the suction-traps and in the Midlands in the yellow water-pan traps.
- The potato aphid (*Macrosiphum euphorbiae*) was caught at nine sites in low numbers this bulletin week in the suction-traps and in low numbers from the Midlands and South west in the yellow water-pan traps.
- Virus pressure is high in the Midlands, moderate in East Anglia and low in Angus and Perthshire, Northern England and the South West.
- Numbers of non-colonising vectors of PVY and PVA such as the willow-carrot aphid are increasing and may contribute to the overall virus pressure.
- Although relatively scarce 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: www.potato.org.uk/online-toolbox/aphid-monitoring.

OILSEED RAPE, FIELD BRASSICAS and LEAFY VEGETABLES

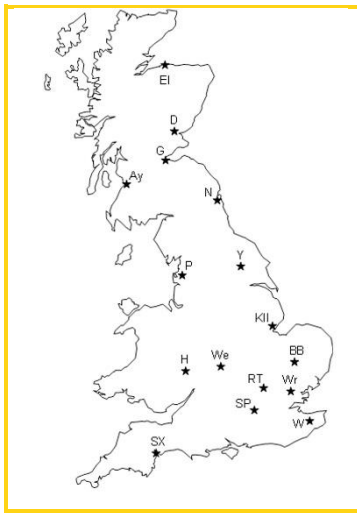
- Peach–potato aphids (*Myzus persicae*) have been caught throughout the south of England in the suction-traps and in the Midlands in the yellow water-pan traps. Tests show that Turnip yellows virus pressure was high but lower than normal for this time of year.
- Low numbers of the mealy cabbage aphid were caught in **ST** sites across England.
- Single currant-lettuce aphids (*Nasonovia ribisnigri*) were caught at Hereford and Rothamsted ST this week.

CARROTS

- The willow–carrot aphid was caught at thirteen sites this week with the highest numbers at Broom’s Barn (704) and Writtle (239).

PEAS and BEANS

- The pea aphid was caught in low numbers at five sites this week and included first arrivals at Edinburgh (24/5), Preston (27/5), Writtle (25/5), Silwood (25/5), Wye (25/5) and Starcross (22/5).
- No field reports of pea aphid have been received so far. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested.
- A few black bean aphids have been caught in our traps, but no field reports yet. 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 7: **21/5 – 27/5**.

‘*’ 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		14/05-27/05		Accumulated until		09/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↑	15	2	2	31	4
Gogarbank (Edinburgh)	0		150	16	0	161	18
Newcastle	0		4	1	0	4	3
York	0		4	0	0	8	0
Preston	0		71	9	1	109	17
Kirton	1	↑	23	5	1	41	10
Broom’s Barn (Bury St Edmunds)	0		14	5	0	21	10
Wellesbourne	0		9	5	0	11	9
Hereford	3	↑	29	5	5	35	7
Rothamsted (Harpenden)	2	↑	6	3	4	7	6
Writtle	1	↑	7	3	1	11	9
Silwood Park (nr Ascot)	2	↑	8	3	4	11	9
Wye	0		0	1	2	6	3
Starcross (nr Exeter)	11	↑	21	8	25	61	27

The rose-grain aphid was caught at seven sites in low numbers this bulletin week. There were first arrivals at Kirton (21/5).

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		14/05-27/05		Accumulated until		09/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	23	↑	13	3	30	22	6
Gogarbank (Edinburgh)	2	↓	56	7	8	65	11
Newcastle	0	↓	44	7	4	50	13
York	4	↑	16	0	9	21	0
Preston	6	↑	153	18	8	384	50
Kirton	4	↑	27	13	11	37	33
Broom's Barn (nr Bury St Edmunds)	4	↓	15	11	14	22	35
Wellesbourne	5	↓	25	24	17	36	43
Hereford	1	↑	39	12	5	48	24
Rothamsted (Harpenden)	6	↑	12	9	11	17	26
Writtle	7	↑	35	26	16	49	57
Silwood Park (nr Ascot)	2	↓	3	10	16	17	52
Wye	5	↑	0	42	6	18	82
Starcross (nr Exeter)	30	↑	26	26	38	82	123

The bird cherry–oat aphid was caught at thirteen sites this bulletin week. Numbers were up on last week at nine sites and highest at Starcross (30).

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		14/05-27/05		Accumulated until		09/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		2	0	0	6	1
Gogarbank (Edinburgh)	0		23	3	0	23	4
Newcastle	0		8	2	0	10	6
York	0		7	0	0	15	0
Preston	4	↑	102	12	4	159	19
Kirton	2	↑	6	3	2	7	4
Broom's Barn (nr Bury St Edmunds)	0		1	1	1	3	4
Wellesbourne	0	↓	0	4	2	1	11
Hereford	1	↓	25	4	4	28	7
Rothamsted (Harpenden)	2	↑	4	1	5	6	4
Writtle	1		0	1	4	0	4
Silwood Park (nr Ascot)	2	↑	1	2	2	4	8
Wye	0	↓	1	2	1	3	8
Starcross (nr Exeter)	4	↑	4	2	5	32	20

The grain aphid was caught at seven sites this week, with highest numbers at Preston (4) and Starcross (4). First arrivals were recorded from Preston (22/5), Kirton (25/5), and Silwood (25/5).

Peach-potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals 14/05-27/05				Accumulated until		09/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		5	1	0	6	1
Gogarbank (Edinburgh)	0		8	1	0	10	2
Newcastle	0		2	1	0	2	2
York	0		37	0	2	40	0
Preston	0		9	1	0	10	2
Kirton	0		29	5	0	37	10
Broom's Barn (nr Bury St Edmunds)	0		158	29	0	178	76
Wellesbourne	0		164	43	0	186	85
Hereford	1	↑	143	20	1	166	25
Rothamsted (Harpenden)	1	↑	36	14	3	50	26
Writtle	6	↑	20	24	11	23	46
Silwood Park (nr Ascot)	11	↑	3	6	12	6	13
Wye	9	↑	42	33	11	61	55
Starcross (nr Exeter)	2	↓	10	7	7	53	36

The peach-potato aphid was caught at six sites this week, with numbers increasing at five sites. There was a first arrival at Hereford (21/5).

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals 14/05-27/05				Accumulated until		09/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↑	4	1	1	12	2
Gogarbank (Edinburgh)	5	↑	31	5	5	42	7
Newcastle	0	↓	5	3	2	15	5
York	1	↑	4	0	1	13	0
Preston	1	↑	9	2	1	13	4
Kirton	0		29	4	1	38	8
Broom's Barn (nr Bury St Edmunds)	0		0	1	0	7	4
Wellesbourne	0		24	6	0	37	12
Hereford	3	↑	49	7	3	60	9
Rothamsted (Harpenden)	1	↑	3	1	1	4	3
Writtle	6	↑	22	4	8	29	10
Silwood Park (nr Ascot)	2	↑	4	2	3	5	7
Wye	0		1	0	0	5	3
Starcross (nr Exeter)	6	↑	6	3	10	16	12

The potato aphid was caught at nine sites in low numbers this bulletin week, with first arrivals at Dundee (24/5), Edinburgh (24/5), York (21/5), Preston (27/5), Hereford (24/5) and Rothamsted (27/5).

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		14/05-27/05		Accumulated until		09/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		1	0	0	1	0
Gogarbank (Edinburgh)	0		21	2	0	23	3
Newcastle	0		0	0	0	0	0
York	0		0	0	0	0	0
Preston	1	↑	4	1	1	4	3
Kirton	0	↓	0	2	1	0	5
Broom's Barn (nr Bury St Edmunds)	0		30	6	0	33	7
Wellesbourne	0		19	29	0	21	47
Hereford	1	↓	45	11	4	46	12
Rothamsted (Harpenden)	1	↑	0	1	1	0	1
Writtle	2	↑	4	5	2	5	8
Silwood Park (nr Ascot)	0	↓	0	7	1	0	12
Wye	1	↑	0	7	1	0	10
Starcross (nr Exeter)	9	↑	16	7	9	29	24

The mealy cabbage aphid was caught in low numbers at six sites this week, including first arrivals at Preston (21/5), Rothamsted (27/5), Writtle (24/5), Wye (27/5) and Starcross (23/5).

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		14/05-27/05		Accumulate until		09/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	10	↑	53	13	13	86	22
Gogarbank (Edinburgh)	5	↑	137	16	7	141	19
Newcastle	0	↓	62	9	8	67	14
York	22	↑	399	0	55	541	0
Preston	13	↓	331	123	35	395	214
Kirton	37	↓	383	148	93	560	338
Broom's Barn (nr Bury St Edmunds)	704	↑	279	252	895	454	430
Wellesbourne	44	↑	474	125	96	600	170
Hereford	24	↑	411	156	26	688	208
Rothamsted (Harpenden)	81	↑	63	149	89	92	189
Writtle	239	↑	77	329	276	181	486
Silwood Park (nr Ascot)	58	↑	27	61	104	91	160
Wye	86	↑	32	128	117	85	193
Starcross (nr Exeter)	51	↑	33	24	70	118	65

The willow-carrot aphid was caught at thirteen sites this week, with numbers increasing at 11 sites and highest numbers at Broom's Barn (704) and Writtle (239).

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		14/05-27/05		Accumulated until		09/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		1	0	0	2	0
Gogarbank (Edinburgh)	1	↑	1	0	1	1	1
Newcastle	0	↓	4	0	1	4	1
York	0		0	0	0	1	0
Preston	1	↑	0	0	1	1	1
Kirton	0		3	1	1	7	3
Broom's Barn (nr Bury St Edmunds)	2	↑	2	1	3	6	5
Wellesbourne	0		1	5	0	1	12
Hereford	0	↓	8	4	2	9	9
Rothamsted (Harpenden)	0		4	5	0	4	10
Writtle	1	↑	2	3	1	2	10
Silwood Park (nr Ascot)	2	↑	1	3	2	4	11
Wye	4	↑	5	3	4	8	7
Starcross (nr Exeter)	7	↑	8	3	7	12	14

The pea aphid was caught in low numbers at seven sites this week and included first arrivals at Edinburgh (24/5), Preston (27/5), Writtle (25/5), Silwood (25/5), Wye (25/5) and Starcross (22/5).

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		14/05-27/05		Accumulated until		09/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		4	1	0	4	1
Gogarbank (Edinburgh)	0		10	1	0	12	2
Newcastle	0		0	0	0	0	0
York	0		4	0	0	4	0
Preston	0		0	0	0	2	1
Kirton	0		0	0	0	0	0
Broom's Barn (nr Bury St Edmunds)	5	↑	4	2	13	6	3
Wellesbourne	0		5	2	0	7	2
Hereford	0		0	1	0	3	2
Rothamsted (Harpenden)	1	↑	2	1	1	4	2
Writtle	0		4	2	0	16	4
Silwood Park (nr Ascot)	0		0	2	0	2	5
Wye	0		4	2	1	8	4
Starcross (nr Exeter)	1		2	3	2	16	7

The black bean aphid was caught in low numbers at three sites this week, including a first arrival at Rothamsted (26/5).

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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