

19<sup>th</sup> May 2017

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** – Aphid flight activity gradually increased this week through much of the country, as result of warm weather (2-3°C above average across England). Subsequently the prolonged dry spell has broken, which should go some way to relieving the drought stress being experienced in many spring crops.

## CEREALS

- Numbers of cereal aphids in the suction-traps increased slightly this week. The accumulated numbers are above average at Preston and Starcross in the west, but elsewhere generally remain at or below the 10yr mean for this stage in the year.
- Field reports indicate that cereal aphid numbers in the crop are low and below the threshold for control. 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*) and the potato aphid (*Macrosiphum euphorbiae*) have been caught throughout much of England in the suction-traps and in the Midlands, East Anglia and the South West in the yellow water-pan traps.
- Virus pressure is high in the Midlands, moderate in the South West and low in East Anglia.
- Numbers of non-colonising vectors of PVY and PVA such as the willow-carrot aphid and the leaf curling plum aphid are increasing and may contribute to the overall virus pressure soon.
- Although relatively low 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](http://www.potato.org.uk/online-toolbox/aphid-monitoring).

## OILSEED RAPE, FIELD BRASSICAS and LEAFY VEGETABLES

- Peach–potato aphids (*Myzus persicae*) have been caught throughout much of England in the suction-traps and in the Midlands, East Anglia and the South West in the yellow water-pan traps. Tests show these migrants are carrying high levels of Turnip yellows virus. Low numbers of the mealy cabbage aphid were caught less widely in both **ST** and **YWT** traps.
- Single currant-lettuce aphids (*Nasonovia ribisnigri*) were caught at Hereford and Rothamsted ST this week.

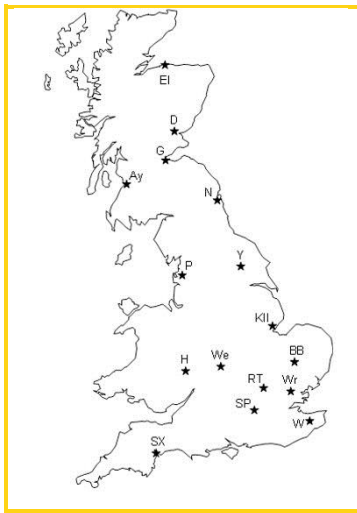
## CARROTS and PARSNIPS

- The willow–carrot aphid was caught at twelve sites this week, with numbers increasing at 11 sites and highest numbers at Kirton (60) and Hereford (53).
- Numbers of parsnip aphids, particularly *Cavariella theobaldi*, also increased (**ST**):

	N	Y	P	K	BB	We	H	RT	Wr	SP	W	SX
<i>C.pastinaceae</i>	0	1	0	0	0	2	13	6	1	4	1	2
<i>C.theobaldi</i>	0	0	2	13	9	6	10	10	19	10	8	13

## PEAS and BEANS

- The pea aphid was caught in low numbers at five sites this week and included first arrivals at Preston (12/5), Kirton (10/5) and Hereford (13/5)
- 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: **8/5 – 14/5**.

‘\*’ 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		08/05-14/05		Accumulated until		14/05
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	2*	↑	0	0	2	0	0
Gogarbank (Edinburgh)	1	↑	0	0	2	0	0
Newcastle	0		0	1	0	0	1
York	2	↑	0	/	2	0	/
Preston	8	↑	1	1	11	1	3
Kirton	2	↑	2	2	4	3	3
Broom’s Barn (Bury St Edmunds)	2	↑	0	1	2	4	3
Wellesbourne	1	↑	1	0	2	7	3
Hereford	3	↑	2	0	3	4	1
Rothamsted (Harpenden)	0		3	1	1	6	2
Writtle	0		4	2	1	13	4
Silwood Park (nr Ascot)	1	↑	7	2	2	7	5
Wye	0		1	0	1	2	1
Starcross (nr Exeter)	6	↓	37	7	20	42	13

The rose-grain aphid was caught at ten sites in low numbers this bulletin week. There were small increases at nine sites and first arrivals at York (13/5), Broom’s Barn (9/5) and Hereford (9/5).

Bird cherry–oat aphid ( <i>Rhopalosiphum padi</i> )	Bulletin Week Totals		08/05-14/05		Accumulated until		14/05
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0*		4	1	0	4	1
Gogarbank (Edinburgh)	1	↑	0	0	1	1	1
Newcastle	1	↓	2	2	3	4	2
York	2	↑	0	/	3	2	/
Preston	23	↓	1	2	64	5	6
Kirton	3	↑	5	6	6	25	14
Broom's Barn (nr Bury St Edmunds)	0		89	11	3	137	24
Wellesbourne	1	↓	9	4	5	24	12
Hereford	7	↑	17	3	7	32	10
Rothamsted (Harpenden)	3	↑	41	7	5	64	15
Writtle	7	↑	62	11	8	116	26
Silwood Park (nr Ascot)	5	↑	60	18	10	101	36
Wye	0	↓	63	13	13	103	24
Starcross (nr Exeter)	11	↓	99	21	35	303	85

The bird cherry–oat aphid was caught at eleven sites this bulletin week, these included first arrivals at Edinburgh (10/5) and Hereford (8/5). Numbers were up on last week at seven sites and highest at Preston (23).

Grain aphid ( <i>Sitobion avenae</i> )	Bulletin Week Totals		08/05-14/05		Accumulated until		14/05
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0*		1	0	0	1	1
Gogarbank (Edinburgh)	0		0	0	0	0	0
Newcastle	0		4	1	0	4	1
York	0		1	/	0	2	/
Preston	15	↑	0	1	24	0	1
Kirton	1	↑	3	1	1	5	1
Broom's Barn (nr Bury St Edmunds)	0		6	1	2	13	3
Wellesbourne	1	↑	8	5	1	17	9
Hereford	0		5	1	1	9	3
Rothamsted (Harpenden)	0	↓	4	0	1	7	2
Writtle	0		6	2	0	11	4
Silwood Park (nr Ascot)	3	↑	8	2	3	10	5
Wye	1	↑	16	3	2	26	5
Starcross (nr Exeter)	9		14	4	25	22	13

The grain aphid was caught at six sites this week, with highest numbers at Preston (15) and first arrivals at Kirton (10/5), Wellesbourne (12/5) and Silwood (11/5).

Peach–potato aphid ( <i>Myzus persicae</i> )	Bulletin Week Totals		08/05-14/05		Accumulated until		14/05
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0*		0	0	0	0	0
Gogarbank (Edinburgh)	0		0	0	0	0	0
Newcastle	0		0	0	0	0	0
York	3	↑	0	/	3	0	/
Preston	1	↑	0	0	1	0	1
Kirton	3	↑	2	2	4	7	4
Broom's Barn (nr Bury St Edmunds)	8	↑	7	8	10	9	18
Wellesbourne	8	↑	4	7	9	9	19
Hereford	10	↑	3	1	13	8	3
Rothamsted (Harpenden)	4	↑	9	6	9	13	12
Writtle	3	↑	12	10	3	25	29
Silwood Park (nr Ascot)	2	↑	1	1	3	5	5
Wye	2	↓	1	3	10	6	7
Starcross (nr Exeter)	16	↑	25	5	36	31	17

The peach–potato aphid was caught at 11 sites this week, with numbers increasing at 10 sites and a hotspot at Starcross (16). There were first arrivals at York (10/5), Preston (12/5) and Writtle (11/5).

Potato aphid ( <i>Macrosiphum euphorbiae</i> )	Bulletin Week Totals		08/05-14/05		Accumulated until		14/05
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0*		0	0	0	0	0
Gogarbank (Edinburgh)	4	↑	0	0	4	0	1
Newcastle	0		0	1	0	0	1
York	4	↑	0	/	5	0	/
Preston	1		1	0	2	1	1
Kirton	6	↑	0	1	9	0	2
Broom's Barn (nr Bury St Edmunds)	0	↓	0	1	7	0	2
Wellesbourne	2	↑	0	2	3	1	3
Hereford	5	↑	0	0	6	0	1
Rothamsted (Harpenden)	1	↑	2	1	1	4	2
Writtle	1		3	2	6	5	4
Silwood Park (nr Ascot)	0		1	2	1	1	4
Wye	2	↑	2	1	2	2	1
Starcross (nr Exeter)	3	↓	1	2	10	1	7

The potato aphid was caught at ten sites in low numbers this bulletin week, with first arrivals at Edinburgh (9/5), Rothamsted (11/5) and Wye (10/5).

Cabbage aphid ( <i>Brevicoryne brassicae</i> )	Bulletin Week Totals		08/05-14/05		Accumulated until		14/05
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0*		0	0	0	0	0
Gogarbank (Edinburgh)	2	↑	0	0	2	0	0
Newcastle	0		0	0	0	0	0
York	0		0	/	0	0	/
Preston	0		0	1	0	0	1
Kirton	0		1	1	0	1	1
Broom's Barn (nr Bury St Edmunds)	2	↑	1	1	3	1	4
Wellesbourne	2	↑	1	3	2	1	9
Hereford	0		1	0	0	1	3
Rothamsted (Harpenden)	0		0	1	0	0	2
Writtle	0		3	3	0	3	6
Silwood Park (nr Ascot)	0		0	1	0	0	1
Wye	0		11	2	0	12	2
Starcross (nr Exeter)	5	↑	2	3	6	2	13

The mealy cabbage aphid was caught in low numbers at four sites this week, including first arrivals at Edinburgh (9/5) and Wellesbourne (10/5).

Willow-carrot aphid ( <i>Cavariella aegopodii</i> )	Bulletin Week Totals		08/05-14/05		Accumulated until		14/05
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0*		0	0	0	0	1
Gogarbank (Edinburgh)	1	↑	0	0	1	0	1
Newcastle	0		0	0	0	0	1
York	36	↑	0	/	36	4	/
Preston	12	↑	1	17	20	2	33
Kirton	60	↑	29	37	66	63	53
Broom's Barn (nr Bury St Edmunds)	45	↑	12	44	53	20	62
Wellesbourne	10	↑	3	6	19	9	13
Hereford	53	↑	1	7	56	6	9
Rothamsted (Harpenden)	17	↑	13	14	20	24	21
Writtle	20	↑	27	67	26	37	86
Silwood Park (nr Ascot)	21	↑	14	54	37	16	65
Wye	12	↑	37	19	19	46	27
Starcross (nr Exeter)	19	↓	23	14	54	34	22

The willow-carrot aphid was caught at twelve sites this week, with numbers increasing at 11 sites and highest numbers at Kirton (60) and Hereford (53) and a first arrival at York (9/5).

Pea aphid ( <i>Acyrtosiphon pisum</i> )	Bulletin Week Totals		08/05-14/05		Accumulated until		14/05
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0*		0	0	0	0	0
Gogarbank (Edinburgh)	0		0	0	0	0	0
Newcastle	0		0	0	0	0	0
York	0		0	/	0	0	/
Preston	1	↑	0	0	1	1	1
Kirton	2	↑	0	0	2	1	1
Broom's Barn (nr Bury St Edmunds)	1	↑	1	1	2	3	2
Wellesbourne	0		5	1	0	13	4
Hereford	1	↑	23	3	1	33	5
Rothamsted (Harpenden)	0		21	2	0	25	4
Writtle	0		4	1	0	4	3
Silwood Park (nr Ascot)	0		11	3	2	13	5
Wye	1	↑	7	1	1	9	2
Starcross (nr Exeter)	0	↓	15	3	2	15	7

The pea aphid was caught in low numbers at five sites this week and included first arrivals at Preston (12/5), Kirton (10/5) and Hereford (13/5).

Black bean aphid ( <i>Aphis fabae</i> )	Bulletin Week Totals		08/05-14/05		Accumulated until		14/05
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0*		0	0	0	0	0
Gogarbank (Edinburgh)	1	↑	0	0	1	0	0
Newcastle	0		0	0	0	0	0
York	0		0	/	0	0	/
Preston	1	↑	0	0	1	0	0
Kirton	0		0	0	0	0	0
Broom's Barn (nr Bury St Edmunds)	0		0	1	1	0	1
Wellesbourne	0		0	0	1	0	0
Hereford	1		0	0	2	0	0
Rothamsted (Harpenden)	1	↑	0	0	2	0	0
Writtle	6	↑	0	1	11	0	1
Silwood Park (nr Ascot)	2	↑	0	1	2	0	1
Wye	3	↑	0	0	4	0	0
Starcross (nr Exeter)	3	↑	4	1	5	5	2

The black bean aphid was caught in low numbers at eight sites this week, including first arrivals at Preston (13/5) and Silwood (10/5).

## Further information

Please send information on crop aphids to: [mark-s.taylor@rothamsted.ac.uk](mailto:mark-s.taylor@rothamsted.ac.uk)

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