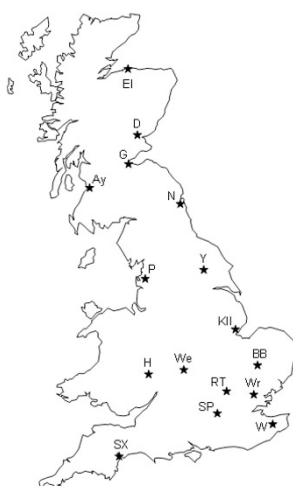


26 October 2018



Up-to-date results from the Rothamsted/SASA suction-trap (ST) network

Mild weather conditions continued across Britain this bulletin week (15–21 October). The total number of aphids flying into the ST across Britain increased by 64% over last week. Bird cherry–oat aphid numbers saw an upturn at several sites, increasing by 61% across all sites. All sites, except four, have recorded bird cherry–oat aphid numbers above the 10-year mean and accumulated numbers are exceeding the 10-year average for most sites, apart from those in the North of Britain. Caution is advised when interpreting these data since no cereal colonising aphids were found from testing at Rothamsted this week.

There were hotspots for peach-potato aphids at Kirton (188) and Wellesbourne (*177). Mealy cabbage aphids were recorded from Kirton (16) and Broom’s Barn (8).

Aphids that have located unprotected crops will continue to do well at temperatures above 3°C.

WINTER CEREALS

The main aphid vectors of **BYDV** are females of the **bird cherry–oat aphid**, *Rhopalosiphum padi*, and the **English grain aphid**, *Sitobion avenae*.

‘*’ indicates where totals have been corrected proportionally to seven days, fewer days’ samples having been processed.

<i>Sitobion avenae</i>				15/10-21/10	<i>Rhopalosiphum padi</i> - females only				
Compared to last week	2018	2017	10-year average 2008-17		Compared to last week	2018	10-year average 2008-17	2018 Acc from 17/09	2008-2017 Acc from 17/09
	0	1	0	Dundee	↓	111	49	500	1478
	0	0	1	Gogarbank (Edinburgh)	↓	78	131	634	2620
	0	0	0	Newcastle	↑	43	196	376	1766
	0	0	/	York	↑	4116	/	10340	/
	0	0	0	Preston	↓	1772	668	11160	8066
↑	8	0	1	Kirton	↑	2748	145	6944	1939
	0	0	0	Broom’s Barn (Bury St Edmunds)	↑	2154	180	5641	1776
	*0	5	1	Wellesbourne	↓	*1755	198	8280	1741
	0	0	1	Hereford	↓	219	243	5125	2364
	0	0	0	Rothamsted (Harpenden)	↑	934	68	2166	965
	0	4	1	Writtle	↑	1904	184	5886	2028
	0	3	1	Silwood Park (nr Ascot)	↑	494	88	1807	908
	*0	2	1	Wye	↑	*1323	223	4056	1848
	0	3	1	Starcross (nr Exeter)	↑	1008	126	2964	1385

- Bird cherry–oat aphid increased at nine ST sites this week.
- Eight grain aphids were found this week at Kirton.
- During the period **19/10 – 25/10** no bird cherry–oat aphids were found to be of the cereal colonising form (of 126 tested at Rothamsted). For comparison; testing in 2017 during an equivalent week (20/10 – 26/10) found that 12% of bird cherry–oat aphids tested were of the cereal colonising form (7 of 60 tested).
- **Monitoring is recommended while the aphid migration continues.**

Only a small proportion of aphids entering cereals are likely to be carrying BYDV. Problems with spread arise when the second generation offspring of the original winged colonisers are produced. This is usually the generation that begins moving significantly away from the plant originally colonised. Very approximately this begins when 170 day degrees above a threshold of 3°C (DD>3) have accumulated. Find out about the new [AHDB BYDV management tool](#).

WINTER OILSEED RAPE and VEGETABLE BRASSICAS

The main aphid vector of **TuYV** is the **peach–potato aphid**, *Myzus persicae*, but it seldom reaches numbers high enough to cause direct feeding damage. Conversely the **mealy cabbage aphid**, *Brevicoryne brassicae*, is a poor vector of TuYV, but can cause direct feeding damage to isolated plants. This species is more of a problem in spring than in autumn.

<i>Brevicoryne brassicae</i>				15/10-21/10	<i>Myzus persicae</i>			
Compared to last week	2018	2017	10-year average 2008-17		Compared to last week	2018	2017	10-year average 2008-17
↓	0	0	0	Dundee	↑	8	0	0
↓	0	0	0	Gogarbank (Edinburgh)	↓	0	1	1
	0	0	0	Newcastle		0	0	0
↓	0	0	/	York	↑	24	12	/
	0	0	0	Preston		0	8	2
↑	16	0	3	Kirton	↑	188	26	10
↑	8	0	0	Broom’s Barn (Bury St Edmunds)	↑	38	2	5
	*0	0	1	Wellesbourne	↑	*177	17	5
	0	0	0	Hereford	↓	16	4	2
	0	0	0	Rothamsted (Harpenden)	↑	17	0	1
↓	0	0	0	Writtle	↓	8	8	2
	0	0	0	Silwood Park (nr Ascot)	↑	26	0	1
	*0	0	0	Wye	↓	*31	13	5
↓	0	0	0	Starcross (nr Exeter)	↓	17	9	2

- Peach–potato aphids were recorded from 11 ST sites this week and increasing at seven, with hotspots at Kirton (188) and Wellesbourne (177).
- Mealy cabbage aphids were recorded from and increasing at Kirton and Broom’s Barn ST sites this week.
- **Monitoring crops is recommended.**

OTHERS

Willow-carrot aphids (*Cavariella aegopodii*) were recorded from Gogarbank (2), Preston (60), Kirton (16), Broom’s Barn (18) and Starcross (27) this week with hotspots at Dundee (303) and York (296). Male individuals were recorded from Dundee (21), Gogarbank (1), York (8), Preston (4) and Kirton (8).

As always, we appreciate any intelligence from the field and any comments on the information we provide.

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](#)

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