

23 November 2018



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

The total number of aphids flying into ST during the current bulletin week (12 November–18 November) has fallen to around 30% of that of last week. This trend is likely to continue, as mean air temperatures head below 11–12°C.

Bird cherry–oat aphid numbers declined to around 25% of last week. Accumulated numbers are presenting a North-South split in the build-up of virus vector pressure. Southern sites, up to Preston, are likely to be at a higher risk and Newcastle northwards at a lower risk than average.

Caution is advised when interpreting these data as testing at Rothamsted this autumn has, generally, found lower numbers of cereal colonising aphids compared to last autumn, despite there often being higher total numbers found.

Peach–potato aphids increased at four sites this week. No mealy cabbage aphids were caught this week. Low numbers of grain aphids were recorded. 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 **grain aphid**, *Sitobion avenae*.

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

<i>Sitobion avenae</i>				12-11 - 18/11	<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	0	0	Dundee	↓	0	0	513	1499
	0	0	0	Gogarbank (Edinburgh)	↑	4	1	647	2709
↑	1	0	0	Newcastle	↓	1	2	383	1824
	1	1	/	York	↓	56	/	10896	/
	0	1	0	Preston	↑	34	22	11459	8689
	0	0	0	Kirton	↓	41	12	7749	2124
↓	0	1	0	Broom’s Barn (Bury St Edmunds)	↓	8	9	6124	1921
↑	1	0	0	Wellesbourne	↓	33	4	8864	1900
	0	1	0	Hereford	↓	3	9	5232	2527
↓	0	0	0	Rothamsted (Harpenden)	↓	17	5	2331	1055
	0	0	0	Writtle	↓	24	10	6609	2262
↓	0	0	0	Silwood Park (nr Ascot)	↓	6	5	1943	995
↑	2	0	0	Wye	↓	9	5	4546	2052
	*0	0	0	Starcross (nr Exeter)	↓	*14	11	3209	1538

- Bird cherry–oat aphid increased at Gogarbank and Preston ST sites this week.
- Grain aphids were found this week at Newcastle (1), York (1), Wellesbourne (1) and Wye (2).
- During the period **16/11 – 22/11** no bird cherry–oat aphids were found for testing at Rothamsted. For comparison, this was also the case for the equivalent week (17/11–23/11) in 2017.
- **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>				12-11 - 18/11	<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	↓	0	0	0
	0	0	0	Gogarbank (Edinburgh)	↓	0	0	0
	0	0	0	Newcastle	↑	1	0	0
	0	0	/	York	↑	21	1	/
	0	0	0	Preston	↑	3	0	1
	0	0	2	Kirton	↓	3	1	3
	0	0	0	Broom’s Barn (Bury St Edmunds)	↓	4	2	1
	0	0	0	Wellesbourne	↓	4	14	2
	0	0	0	Hereford	↑	1	14	2
↓	0	0	0	Rothamsted (Harpenden)	↓	6	0	0
	0	0	0	Writtle	↓	9	8	2
	0	0	0	Silwood Park (nr Ascot)	↓	1	0	0
↓	0	0	0	Wye	↓	7	6	1
	*0	0	0	Starcross (nr Exeter)	↓	*5	0	0

- Peach–potato aphids were recorded from 12 ST sites this week and increasing at four, with a comparatively high number being recorded from York (21).
- No mealy cabbage aphids were recorded from ST this week.
- **Monitoring crops is recommended.**

OTHERS

Willow-carrot aphids (*Cavariella aegopodii*) were recorded from York (2) and Preston (7). One male was recorded at York and three were found at Preston.

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](#)

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