

9 November 2018



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

The total number of aphids flying decreased by around 61% over the last bulletin week (29 October to 4 November). Total bird cherry–oat aphid numbers also decreased by the same amount. Several ST sites recorded numbers lower than the 10-year mean this week. Accumulated numbers present a North/South split in the build-up of virus vector pressure, with southern sites (up to Preston) possibly being at a higher risk and sites from Newcastle northwards being at a lower risk than average.

Caution is advised when interpreting these data – the same number of cereal colonising aphids has been identified compared to that of the equivalent week in 2017, despite a larger total number in flight. Peach–potato aphids increased at York and Preston this week. A single mealy cabbage aphid was recorded from Wye as well as grain aphid from Hereford.

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>				29/10-04/11	<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	↑	5	5	508	1496
	0	0	0	Gogarbank (Edinburgh)	↓	1	40	641	2705
	0	0	0	Newcastle	↑	3	29	380	1813
	0	0	/	York	↓	148	/	10776	/
	0	0	1	Preston	↓	101	210	11393	8622
	0	1	0	Kirton	↓	86	66	7495	2098
↓	0	2	0	Broom’s Barn (Bury St Edmunds)	↓	30	40	6053	1904
	*0	0	0	Wellesbourne	↓	*26	65	8490	1888
↑	1	5	1	Hereford	↓	10	50	5185	2506
	0	0	0	Rothamsted (Harpenden)	↓	37	30	2282	1044
	0	0	0	Writtle	↓	87	51	6500	2241
	0	0	0	Silwood Park (nr Ascot)	↓	11	27	1917	983
	0	0	0	Wye	↓	106	66	4405	2032
	0	0	1	Starcross (nr Exeter)	↓	35	53	3157	1515

- Bird cherry–oat aphid decreased across all ST sites, apart from Dundee and Newcastle this week.
- A single grain aphid was found this week at Hereford.
- During the period **02/11 – 08/11**, two (~4%) bird cherry–oat aphids were of the cereal colonising form (of 57 tested at Rothamsted). For comparison; testing in 2017, during an equivalent week (03/11 – 09/11), found that 33% of bird cherry–oat aphids tested were of the cereal colonising form (2 of 6 tested).
- **Monitoring is recommended whilst 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>				29/10-04/11	<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	1	0
	0	0	0	Gogarbank (Edinburgh)		0	0	1
	0	0	0	Newcastle		0	0	0
	0	0	/	York	↑	3	0	/
	0	0	0	Preston	↑	1	0	3
	0	0	13	Kirton	↓	2	1	13
	0	0	0	Broom's Barn (Bury St Edmunds)	↓	2	13	5
↓	*0	0	0	Wellesbourne	↓	*2	18	4
	0	0	0	Hereford	↓	0	11	2
↓	0	0	0	Rothamsted (Harpenden)	↓	0	0	2
	0	0	0	Writtle	↓	3	18	4
	0	0	0	Silwood Park (nr Ascot)		2	2	1
↑	1	0	0	Wye	↓	5	6	4
↓	0	0	0	Starcross (nr Exeter)	↓	2	2	3

- Peach–potato aphids were recorded from nine ST sites this week but only increasing at York and Preston.
- A single mealy cabbage aphid was recorded from the ST at Wye this week.
- **Monitoring crops is recommended.**

OTHERS

Willow-carrot aphids (*Cavariella aegopodii*) were recorded from Dundee (32), York (1), Preston (1), Kirton (10), Broom's Barn (1) Hereford (1) and Starcross (1). Male individuals were recorded from Dundee (19), Kirton (4) and Hereford (1).

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

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