

21 September 2018



This news sheet summarises up-to-date results from the Rothamsted/SASA suction-trap (ST) network.

During bulletin week 10 to 16 September, the total number of aphids flying has risen by about 33% of that of last week. The diversity of these aphid species has also increased slightly. This increase in aphid numbers suggests that this year's autumn aphid migration is underway and particularly so for the bird cherry–oat aphid which is nearly three times higher in comparison to last week. There have also been early reports of peach–potato aphids on oilseed rape from the Hampshire area. Aphids that have located unprotected crops will continue to do well at temperatures above 3°C.

Find out about the new [AHDB BYDV management tool](#).

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>				10/09-16/09	<i>Rhopalosiphum padi</i> - females only			
Compared to last week	2018	2017	10-year average 2008-17		Compared to last week	2018	2017	10-year average 2008-17
	*0	4	2	Dundee	↓	*4	130	188
↓	0	3	5	Gogarbank (Edinburgh)	↑	117	140	370
	0	0	2	Newcastle	↓	49	245	243
	0	0	/	York	↑	259	167	/
↑	1	0	1	Preston	↑	984	195	725
	0	1	1	Kirton	↑	135	17	83
	0	0	1	Broom's Barn (Bury St Edmunds)	↑	197	32	51
	0	0	4	Wellesbourne	↑	200	40	171
	0	0	1	Hereford	↑	221	20	90
	0	0	0	Rothamsted (Harpenden)	↑	112	6	31
	0	0	1	Writtle	↑	131	27	42
	0	0	1	Silwood Park (nr Ascot)	↑	63	6	86
	0	0	1	Wye	↑	164	45	121
	0	0	2	Starcross (nr Exeter)	↑	136	26	138

- The numbers of bird cherry–oat aphid increased at all ST sites apart from Dundee and Newcastle this week.
- A single grain aphid was recorded from Preston this week.
- During the period 14/09 – 20/09, 13 bird cherry–oat aphids were tested at Rothamsted, four were of the cereal colonising form.
- **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). 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>				10/09-16/09	<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	2
	1	0	0	Gogarbank (Edinburgh)		0	0	0
	0	0	0	Newcastle	↓	0	0	0
	0	0	/	York		0	0	/
	0	0	1	Preston		0	0	1
↑	9	0	2	Kirton	↑	10	0	2
	0	0	0	Broom’s Barn (Bury St Edmunds)		0	0	3
	0	0	1	Wellesbourne		0	1	5
↑	1	0	3	Hereford	↑	2	0	1
	0	0	0	Rothamsted (Harpenden)		0	0	1
	0	0	0	Writtle		0	0	2
↑	1	0	0	Silwood Park (nr Ascot)		0	0	0
↑	1	1	0	Wye		0	1	2
	0	0	1	Starcross (nr Exeter)		1	0	2

- Peach–potato aphids were recorded from ST sites at Kirton (10), Hereford (2) and Starcross (1) this week.
- Mealy cabbage aphids were found at five ST sites this week. All of which were single aphids apart from Kirton (9).
- **Monitoring crops is recommended.**

OTHERS

Five willow-carrot aphids (*Cavariella aegopodii*) were recorded from Kirton ST this week. No male individuals were found.

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](#)

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