

APHID ALERT SUMMARY

This alert summarises up-to-date results from the Rothamsted/SASA suction-trap (ST) network and the FERA yellow water-pan trap (YWT) network. Further details of the ST results can be found below and at www.sasa.gov.uk/seed-ware-potatoes/virology/virus-epidemiology. Further details of the YWT results can be found at www.potato.org.uk/online-toolbox/aphid-monitoring.

GENERAL

It was great to see so many of you at *Cereals* and to hear positive comments on these bulletins. Clearly there will be heightened interest in autumn in relation to aphids and turnip yellows virus in OSR now that neonicotinoid seed treatments are banned. Chat at cereals confirmed that: i) there are large numbers of peach–potato aphids around this year, although not in Scotland; ii) numbers of aphids on cereals are generally low but increasing; iii) numbers on peas are building fast and iv) natural enemies are abundant and helping considerably.

CEREALS

Numbers of cereal aphids flying are generally a little below average for the time of year. Numbers in crops are generally low, but increasing. They will be favoured by current temperatures and the abundant natural enemies need to do what they're paid for.

POTATOES

Virus pressure as suggested by vector aphid abundance is higher than usual for the time of year throughout the UK. Peach–potato aphid, glasshouse–potato aphid and several non-colonising species are responsible. Further regional information on potato virus vectors can be accessed at www.sasa.gov.uk/seed-ware-potatoes/virology/virus-epidemiology and www.potato.org.uk/online-toolbox/aphid-monitoring.

WINTER OILSEED RAPE

Aphids are no longer an issue.

SPRING OILSEED RAPE

Mealy cabbage aphids are flying in low numbers. The threshold for control is >4% plants infested before petal fall.

FIELD BRASSICAS

Peach–potato aphids are flying in larger numbers than usual. Mealy cabbage aphids are flying in low numbers.

CARROTS

Willow–carrot aphids are flying throughout the Country. Numbers are falling at some sites and expected to fall quickly from now on.

PEAS AND BEANS

Pea aphids are flying throughout the Country and are generally increasing. Combining peas should be sprayed when around 1 plant in 5 is infested and vining peas at about 1 plant in 7.

SUCTION-TRAPPING RESULTS



The information below relates to suction-trap samples collected during Bulletin Week 10: 2/6-8/6.

- Despite some windy conditions mid-week, aphid flight activity continued largely unabated this bulletin week. Feedback from the *Cereals* event suggests that natural enemy pressure also continues to build, in particular ladybirds, parasitoids and some aphid fungal pathogens.
- Numbers of the rose-grain aphid in the suction-traps are increasing, particularly in the south west. Field reports confirm rose-grain aphids on the lower leaves of cereals in central and southern England.
- Numbers of peach-potato aphid (*Myzus persicae*) have increased further in eastern England, but still none in our Scottish suction-traps.
- The potato aphid (*Macrosiphum euphorbiae*) was caught across the Country in low numbers.
- Numbers of the pea aphid (*Acyrtosiphon pisum*) have increased this week, especially in eastern England.
- The mealy cabbage aphid (*Brevicoryne brassicae*) was caught at five sites this week. Field reports have been received of infestations on brassicas already damaged by flea beetles in Kent and S.Essex.
- The willow-carrot aphid (*Cavariella aegopodii*) migration has started to tail-off in central and southern England.

Suction-trap sites

The tables below show current and accumulated totals with comparisons to previous years. '/' indicates that identifications have not been completed and '*' indicates where totals have been corrected proportionally to seven days, fewer days' samples having been identified.

Rose-grain aphid (*Metopolophium dirhodum*)

Rose-grain aphid (<i>Metopolophium dirhodum</i>)	Bulletin Week Totals 02/06-08/06				Accumulated until 08/06		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	1	↓	0	1	4	0	3
Gogarbank (Edinburgh)	1	↓	5	3	6	6	12
Newcastle	/		0	2	0	0	11
Preston	/		0	11	9	1	66
Kirton	*7		2	8	28	2	50
Broom's Barn (nr Bury St Edmunds)	15		0	32	52	0	80
Wellesbourne	8	↑	/	/	12	/	/
Hereford	15	↑	1	12	22	2	48
Rothamsted (Harpenden)	15	↑	0	7	31	4	36
Writtle	24	↑	0	12	39	0	59
Silwood Park (nr Ascot)	/		2	10	7	2	37
Wye	/		0	3	5	0	16
Starcross (nr Exeter)	75	↑	9	44	111	14	171

The rose-grain aphid was caught at nine sites this week, and was increasing at seven of these sites, with hotspots at Starcross (75) and Writtle (24).

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals 02/06-08/06				Accumulated until 08/06		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	7		0	6	16	0	22
Gogarbank (Edinburgh)	6	↑	1	5	18	4	24
Newcastle	/		1	11	2	1	37
Preston	/		2	3	19	6	30
Kirton	*12	↑	0	41	42	4	216
Broom's Barn (nr Bury St Edmunds)	10	↓	0	75	41	2	169
Wellesbourne	3	↑	/	/	4	/	/
Hereford	2	↑	0	12	15	3	52
Rothamsted (Harpenden)	3	↓	1	17	20	11	61
Writtle	13	↑	0	25	52	1	101
Silwood Park (nr Ascot)	/		2	39	10	9	114
Wye	/		0	25	12	2	132
Starcross (nr Exeter)	13	↑	28	75	64	41	216

The bird cherry–oat aphid was caught at nine sites this week, with accumulated numbers below average.

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals 02/06-08/06				Accumulated until 08/06		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	1	↑	2	7	2	2	21
Gogarbank (Edinburgh)	6	↓	0	2	15	2	13
Newcastle	/		0	2	0	0	13
Preston	/		1	10	22	1	35
Kirton	*4	↑	0	3	12	0	19
Broom's Barn (nr Bury St Edmunds)	0	↓	0	2	21	1	12
Wellesbourne	18	↑	/	/	24	/	/
Hereford	2		1	6	7	1	28
Rothamsted (Harpenden)	0	↓	0	3	17	0	13
Writtle	5	↑	0	2	19	0	20
Silwood Park (nr Ascot)	/		3	6	18	5	37
Wye	/		0	7	6	0	23
Starcross (nr Exeter)	7	↑	3	44	18	5	85

The grain aphid was caught at seven sites this week in low numbers, with an increase at five of these sites since last week, and a minor hotspot at Wellesbourne (18).

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals				02/06-08/06		Accumulated until		08/06
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13		
Dundee	0		0	1	0	0	2		
Gogarbank (Edinburgh)	0		0	1	0	0	3		
Newcastle	/		0	2	0	0	7		
Preston	/		0	3	6	0	15		
Kirton	*40	↑	0	8	66	0	36		
Broom's Barn (nr Bury St Edmunds)	430	↑	0	15	1022	0	104		
Wellesbourne	62	↑	/	/	126	/	/		
Hereford	24	↑	0	6	47	0	39		
Rothamsted (Harpenden)	64	↓	0	12	270	0	65		
Writtle	124	↑	0	24	403	0	136		
Silwood Park (nr Ascot)	/		0	4	7	0	26		
Wye	/		0	17	31	0	105		
Starcross (nr Exeter)	13	↓	3	9	113	3	45		

The peach–potato aphid was caught at seven sites this week, with numbers increasing at five sites. There were hotspots at Broom's Barn (430) and Writtle (124). Accumulated numbers are above the 10-year means in eastern and south western England, and are particularly high at Broom's Barn (x10).

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals				02/06-08/06		Accumulated until		08/06
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13		
Dundee	0	↓	0	2	3	0	6		
Gogarbank (Edinburgh)	4		1	4	10	1	18		
Newcastle	/		0	1	0	0	10		
Preston	/		3	3	9	3	12		
Kirton	*5	↑	0	1	23	0	8		
Broom's Barn (nr Bury St Edmunds)	5		0	1	23	0	6		
Wellesbourne	2	↓	/	/	9	/	/		
Hereford	4		0	3	13	0	16		
Rothamsted (Harpenden)	1	↓	0	2	10	1	8		
Writtle	12	↑	1	3	22	2	17		
Silwood Park (nr Ascot)	/		1	2	3	2	12		
Wye	/		0	1	6	0	7		
Starcross (nr Exeter)	1	↑	7	7	7	10	28		

The potato aphid was caught at eight sites this week in low numbers. The accumulated numbers at four sites in eastern England are above the 10-year means.

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals 02/06-08/06				Accumulated until		08/06
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	0		0	0	0	0	0
Gogarbank (Edinburgh)	0		0	0	0	0	1
Newcastle	/		0	1	0	0	5
Preston	/		0	5	3	0	15
Kirton	0	↓	0	4	5	0	25
Broom's Barn (nr Bury St Edmunds)	2	↓	0	4	23	0	25
Wellesbourne	10	↑	/	/	17	/	/
Hereford	0	↓	0	10	3	0	62
Rothamsted (Harpenden)	1	↑	0	2	3	0	13
Writtle	15	↑	0	18	24	0	105
Silwood Park (nr Ascot)	/		0	2	0	0	20
Wye	/		0	4	1	0	23
Starcross (nr Exeter)	0	↓	1	15	4	1	100

The mealy cabbage aphid was caught at five sites this week, with hotspots at Wellesbourne (10) and Writtle (15). Accumulated numbers are generally below the 10-year means.

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals 02/06-08/06				Accumulated until		08/06
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	65	↑	0	14	172	0	41
Gogarbank (Edinburgh)	30	↓	0	17	82	0	55
Newcastle	/		0	22	16	0	49
Preston	/		30	72	948	32	377
Kirton	*96	↑	1	89	862	7	474
Broom's Barn (nr Bury St Edmunds)	29	↑	36	107	343	63	725
Wellesbourne	6	↓	/	/	102	/	/
Hereford	1	↓	24	60	49	33	332
Rothamsted (Harpenden)	6	↓	21	56	65	40	360
Writtle	19	↑	69	118	104	78	841
Silwood Park (nr Ascot)	/		58	36	13	67	254
Wye	/		8	64	22	20	320
Starcross (nr Exeter)	14	↑	111	27	24	192	125

The willow-carrot aphid was caught at all sites this week, with numbers increasing at four sites. There were noticeable hotspots at Kirton (96) and in Scotland, but further south numbers are lower.

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals 02/06-08/06				Accumulated until 08/06		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	1	↑	0	0	1	0	1
Gogarbank (Edinburgh)	1	↓	0	0	8	0	2
Newcastle	/		0	0	0	0	1
Preston	/		0	1	4	0	3
Kirton	*2	↓	0	1	9	0	15
Broom's Barn (nr Bury St Edmunds)	19	↑	0	4	37	0	27
Wellesbourne	7	↑	/	/	11	/	/
Hereford	4	↑	0	5	6	0	18
Rothamsted (Harpenden)	11	↑	0	6	32	0	26
Writtle	17	↑	0	9	29	0	37
Silwood Park (nr Ascot)	/		0	6	7	0	27
Wye	/		0	4	5	0	25
Starcross (nr Exeter)	13	↑	2	11	24	5	43

The pea aphid was caught at nine sites this week, with numbers increasing at seven sites and hotspots at Broom's Barn (19) and Writtle (17).



Further information

www.hgca.com/pests

www.potato.org.uk/online-toolbox/aphid-monitoring

[Rothamsted Insect Survey](#)

[HDC pest bulletin](#)

<http://www.sasa.gov.uk/seed-ware-potatoes/virology/virus-epidemiology>

Please send information on crop aphids to

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