

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

The numbers of the willow-carrot aphid and the leaf curling plum aphid are now decreasing. The flights of the pea aphid and the rose-grain aphid are increasing across much of the Country. The large migration of the peach-potato aphid continues, especially across eastern and south western England. Natural enemies are abundant and their impact is growing.

CEREALS

Numbers of cereal aphids flying are generally a little below average for the time of year, with the exception of the rose-grain aphid in the south west. Numbers in crops are generally below threshold levels, but increasing. The threshold for control is 50% of tillers infested before GS61 increasing to 66% of tillers infested from GS61 to two weeks before the end of grain filling.

POTATOES

Virus pressure as suggested by vector aphid abundance has fallen back to normal in some areas due to the fall in the non-colonising vectors of PVY (willow-carrot aphid), but remains high in eastern and south western England due to high numbers of peach-potato aphid. 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 in eastern and south western England. Mealy cabbage aphids are flying in low numbers.

CARROTS

Willow-carrot aphids continue to fly throughout the Country. Numbers are falling at some sites and expected to decrease elsewhere from now on.

PEAS AND BEANS

Numbers of the pea aphid flying are generally increasing throughout the Country. Numbers in crops are also increasing everywhere with levels above threshold reported from combining peas in the north. 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



Suction-trap sites

The information below relates to suction-trap samples collected during Bulletin Week 11: 9/6-15/6.

- A warm and dry period resulted in good conditions for aphid flight. Natural enemy impact is growing, in particular ladybirds and aphid parasitoids are being reported more frequently.
- Numbers of the rose–grain aphid in the suction-traps are increasing, particularly in the south west. The numbers of bird cherry–oat aphid and grain aphid are at or below average. Field reports confirm cereal aphids are present, but below threshold levels at present.
- Numbers of peach–potato aphid (*Myzus persicae*) remain high in eastern England. The first Scottish individual has been caught in the suction-trap at Edinburgh.
- The potato aphid (*Macrosiphum euphorbiae*) was caught across the Country in low numbers.
- Numbers of the pea aphid (*Acyrtosiphon pisum*) have increased significantly this week, especially in eastern England.
- The mealy cabbage aphid (*Brevicoryne brassicae*) was caught at five sites this week in low numbers.
- The numbers of willow–carrot aphid (*Cavariella aegopodii*) are generally unchanged or declining compared to last week.

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 09/06-15/06				Accumulated until 15/06		10-year average 2004-13
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	
Dundee	1		0	1	5	0	8
Gogarbank (Edinburgh)	2	↑	0	5	8	6	30
Newcastle	1		0	5	1	0	22
Preston	2		13	36	11	14	127
Kirton	*9	↑	0	34	38	2	166
Broom's Barn (nr Bury St Edmunds)	34	↑	4	39	86	4	183
Wellesbourne	*34	↑	/	/	45	/	/
Hereford	17	↑	5	23	39	7	90
Rothamsted (Harpenden)	30	↑	2	24	61	6	70
Writtle	67	↑	4	35	106	4	118
Silwood Park (nr Ascot)	/		1	20	7	3	49
Wye	/		2	10	5	2	45
Starcross (nr Exeter)	179	↑	9	97	290	23	274

The rose–grain aphid was caught at all eleven sites this week, and was increasing at eight of these sites, with hotspots at Starcross (179) and Writtle (67).

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals 09/06-15/06				Accumulated until 15/06		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	2	↓	1	10	18	1	65
Gogarbank (Edinburgh)	5	↓	0	11	23	4	59
Newcastle	0		0	16	2	1	104
Preston	4		2	10	23	8	44
Kirton	*7	↓	1	119	49	5	330
Broom's Barn (nr Bury St Edmunds)	10		1	50	51	3	230
Wellesbourne	*4	↑	/	/	8	/	/
Hereford	4	↑	3	19	19	6	66
Rothamsted (Harpenden)	8	↑	4	18	28	15	84
Writtle	26	↑	2	20	78	3	127
Silwood Park (nr Ascot)	/		1	20	10	10	124
Wye	/		1	19	12	3	150
Starcross (nr Exeter)	24	↑	9	33	88	50	252

The bird cherry–oat aphid was caught at ten sites this week, with numbers slowly increasing in the south, but the accumulated numbers remain below average.

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals 09/06-15/06				Accumulated until 15/06		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	2	↑	0	8	4	2	33
Gogarbank (Edinburgh)	1	↓	0	5	16	2	20
Newcastle	1		0	4	1	0	21
Preston	4		0	11	26	1	52
Kirton	0	↓	5	4	12	5	31
Broom's Barn (nr Bury St Edmunds)	10	↑	0	5	31	1	28
Wellesbourne	*15	↓	/	/	40	/	/
Hereford	4	↑	0	9	11	1	42
Rothamsted (Harpenden)	3	↑	0	5	20	0	21
Writtle	5		0	7	24	0	40
Silwood Park (nr Ascot)	/		1	16	18	6	52
Wye	/		2	5	6	2	43
Starcross (nr Exeter)	10	↑	1	17	28	6	143

The grain aphid was caught at ten sites in low numbers, with a small increase at five of these sites since last week, and a minor hotspot at Wellesbourne (15).

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals				Accumulated until		15/06
	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)	1	↑	0	1	1	0	5
Newcastle	1		0	2	1	0	11
Preston	6		0	8	12	0	21
Kirton	*5	↓	0	14	71	0	75
Broom's Barn (nr Bury St Edmunds)	251	↓	0	35	1273	0	204
Wellesbourne	*71	↑	/	/	197	/	/
Hereford	13	↓	0	13	60	0	55
Rothamsted (Harpenden)	87	↑	0	12	357	0	89
Writtle	378	↑	1	33	781	1	216
Silwood Park (nr Ascot)	/		0	8	7	0	30
Wye	/		2	27	31	2	156
Starcross (nr Exeter)	9	↓	0	11	122	3	55

The peach–potato aphid was caught at ten sites this week, with numbers increasing at four sites. There were hotspots at Broom's Barn (251) and Writtle (378). The first peach–potato aphid has been caught in Scotland at Edinburgh very close to the long term average first arrival date, but 16 days later than forecast.

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals				Accumulated until		15/06
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004- 13
Dundee	0		0	1	3	0	7
Gogarbank (Edinburgh)	9	↑	0	5	19	1	21
Newcastle	1		1	2	1	1	13
Preston	2		4	4	11	7	17
Kirton	0	↓	0	3	23	0	12
Broom's Barn (nr Bury St Edmunds)	5		0	1	28	0	11
Wellesbourne	*3	↑	/	/	12	/	/
Hereford	10	↑	0	4	23	0	23
Rothamsted (Harpenden)	1		0	2	11	1	11
Writtle	6	↓	0	4	28	2	25
Silwood Park (nr Ascot)	/		0	2	3	2	14
Wye	/		0	3	6	0	12
Starcross (nr Exeter)	1		2	6	8	12	33

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

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals 09/06-15/06				Accumulated until		15/06
	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	1	0	0	2
Newcastle	0		0	3	0	0	7
Preston	0		0	3	3	0	19
Kirton	0		0	4	5	0	57
Broom's Barn (nr Bury St Edmunds)	8	↑	0	7	31	0	90
Wellesbourne	*6	↓	/	/	23	/	/
Hereford	1	↑	0	16	4	0	86
Rothamsted (Harpenden)	2	↑	0	3	5	0	62
Writtle	14	↓	0	18	38	0	292
Silwood Park (nr Ascot)	/		0	5	0	0	24
Wye	/		0	4	1	0	57
Starcross (nr Exeter)	2	↑	0	42	6	1	120

The mealy cabbage aphid was caught at six sites this week, with a minor hotspot at Writtle (14). Accumulated numbers are below the 10-year means.

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals 09/06-15/06				Accumulated until		15/06
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	5	↓	0	8	177	0	45
Gogarbank (Edinburgh)	13	↓	0	16	95	0	68
Newcastle	8		2	14	24	2	76
Preston	13		135	59	961	167	415
Kirton	*7	↓	12	51	869	19	534
Broom's Barn (nr Bury St Edmunds)	22	↓	170	50	365	233	784
Wellesbourne	*46	↑	/	/	148	/	/
Hereford	6	↑	49	18	55	82	356
Rothamsted (Harpenden)	14	↑	17	30	79	57	392
Writtle	23	↑	37	33	127	115	881
Silwood Park (nr Ascot)	/		11	11	13	78	261
Wye	/		7	18	22	27	349
Starcross (nr Exeter)	7	↓	22	13	31	214	143

The willow-carrot aphid was caught at eleven sites this week, with numbers increasing slightly at four sites. There was a hotspot at Wellesbourne (46).

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals 09/06-15/06				Accumulated until		15/06
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	2	↑	0	1	3	0	1
Gogarbank (Edinburgh)	4	↑	0	1	12	0	3
Newcastle	0		0	1	0	0	3
Preston	1		0	1	5	0	6
Kirton	*9	↑	0	10	19	0	48
Broom's Barn (nr Bury St Edmunds)	44	↑	0	16	81	0	53
Wellesbourne	*8	↑	/	/	19	/	/
Hereford	1	↓	0	8	7	0	24
Rothamsted (Harpenden)	27	↑	1	11	59	1	43
Writtle	59	↑	1	16	88	1	68
Silwood Park (nr Ascot)	/		0	13	7	0	32
Wye	/		0	16	5	0	59
Starcross (nr Exeter)	11	↓	2	15	35	7	68

The pea aphid was caught at ten sites this week, with numbers increasing at seven sites and hotspots at Broom's Barn (44) and Writtle (59).



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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