

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 large migration of the peach–potato aphid continues, especially across eastern and south western England. Natural enemies are abundant and their impact is growing. No problems are known in cereals.

CEREALS

Numbers of cereal aphids flying are generally below average for the time of year and accumulated totals generally well below average, with the exception of the rose–grain aphid in the south west. Numbers are rising in Scotland. Numbers in crops are generally below threshold levels and natural enemies seem to be in control. The recommended 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. Almost all winter crops are beyond this stage.

POTATOES

Numbers of peach–potato aphid are especially high in the traps at Writtle and Wellesbourne. Virus pressure as suggested by vector aphid abundance has fallen to around normal in most areas, but the older the crops the less susceptible to viruses they become. 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 for the time of year in the south. Mealy cabbage aphids are flying in low numbers.

CARROTS

The numbers of willow–carrot aphid flying are falling everywhere and are low for the time of year.

PEAS AND BEANS

Numbers of the pea aphid flying are falling in most places and are about average for the time of year. 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 12: 16/6-22/6.

- Despite reasonable conditions total numbers of aphids in the suction-traps decreased somewhat, but the diversity of aphid species within this total increased.
- Numbers of the rose-grain aphid in the suction-traps are high in the south west. The numbers of bird cherry-oat aphid are below average, but numbers of the grain aphid are now starting to increase. There have been no field reports of cereal aphids exceeding threshold levels at present.
- Numbers of peach-potato aphid (*Myzus persicae*) remain high in central and eastern England. The first individual has been caught in the suction-trap at Dundee, and this only the fourth in our Scottish traps so far this year.
- The potato aphid (*Macrosiphum euphorbiae*) was caught across the Country in low numbers.
- Numbers of the pea aphid (*Acyrtosiphon pisum*) have increased slightly at three sites this week. Field reports indicate threshold levels are being reached in some parts of southern 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*) have declined further since 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 16/06-22/06				Accumulated until 22/06		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	41	↑	0	5	46	0	46
Gogarbank (Edinburgh)	29	↑	22	19	37	28	76
Newcastle	/		1	11	1	1	51
Preston	1	↓	10	61	12	24	293
Kirton	*2	↓	4	116	39	6	369
Broom's Barn (nr Bury St Edmunds)	*0	↓	6	103	86	10	434
Wellesbourne	51	↑	/	/	96	/	/
Hereford	11	↓	7	42	50	14	199
Rothamsted (Harpenden)	28	↓	7	34	89	13	159
Writtle	44	↓	8	59	150	12	263
Silwood Park (nr Ascot)	/		4	12	7	7	81
Wye	/		4	29	5	6	89
Starcross (nr Exeter)	256	↑	19	103	546	42	370

The rose-grain aphid was caught at nine sites this week, and was increasing at four of these sites, with hotspots at Starcross (256).

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals				Accumulated until		
	16/06-22/06				22/06		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004- 13
Dundee	7	↑	0	43	25	1	119
Gogarbank (Edinburgh)	5		1	35	28	5	99
Newcastle	/		0	67	2	1	173
Preston	3	↓	1	14	26	9	72
Kirton	*4	↓	7	114	52	12	444
Broom's Barn (nr Bury St Edmunds)	*5	↓	5	60	56	8	441
Wellesbourne	12	↑	/	/	20	/	/
Hereford	8	↑	2	14	27	8	114
Rothamsted (Harpenden)	18	↑	7	24	46	22	166
Writtle	19	↓	3	27	97	6	257
Silwood Park (nr Ascot)	/		8	10	10	18	138
Wye	/		6	18	12	9	162
Starcross (nr Exeter)	42	↑	32	36	130	82	314

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

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals				Accumulated until		
	16/06-22/06				22/06		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004- 13
Dundee	6	↑	0	12	10	2	45
Gogarbank (Edinburgh)	12	↑	1	8	28	3	46
Newcastle	/		0	8	1	0	37
Preston	8	↑	5	17	34	6	87
Kirton	*0		9	12	12	14	113
Broom's Barn (nr Bury St Edmunds)	*4	↓	2	16	35	3	195
Wellesbourne	23	↑	/	/	63	/	/
Hereford	4		3	15	15	4	116
Rothamsted (Harpenden)	6	↑	1	8	26	1	115
Writtle	32	↑	1	19	56	1	232
Silwood Park (nr Ascot)	/		5	15	18	11	103
Wye	/		3	20	6	5	196
Starcross (nr Exeter)	28	↑	10	57	56	16	306

The grain aphid was caught at nine sites, with increases at seven of these sites since last week, and minor hotspots at Wellesbourne (23), Writtle (32) and Starcross (28).

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals				16/06-22/06		Accumulated until		22/06
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004- 13		
Dundee	1	↑	0	1	1	0	3		
Gogarbank (Edinburgh)	2	↑	0	2	3	0	6		
Newcastle	/		0	4	1	0	12		
Preston	5	↓	1	6	17	1	35		
Kirton	*12	↑	4	39	83	4	140		
Broom's Barn (nr Bury St Edmunds)	*7	↓	20	99	1280	20	308		
Wellesbourne	240	↑	/	/	437	/	/		
Hereford	17	↑	0	15	77	0	75		
Rothamsted (Harpenden)	84	↓	2	24	441	2	167		
Writtle	253	↓	5	80	1034	6	361		
Silwood Park (nr Ascot)	/		1	4	7	1	35		
Wye	/		11	51	31	13	173		
Starcross (nr Exeter)	28	↑	6	10	150	9	70		

The peach–potato aphid was caught at ten sites this week, with numbers increasing at six sites. There were hotspots at Wellesbourne (240) and Writtle (253). The first peach–potato aphid has been caught in Scotland at Dundee very close to the long term average first arrival date, but 17 days later than forecast.

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals				16/06-22/06		Accumulated until		22/06
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004- 13		
Dundee	1	↑	2	2	4	2	9		
Gogarbank (Edinburgh)	3	↓	1	4	22	2	24		
Newcastle	/		1	3	1	2	14		
Preston	0	↓	6	5	11	13	21		
Kirton	*0		1	4	23	1	26		
Broom's Barn (nr Bury St Edmunds)	*0	↓	3	5	28	3	24		
Wellesbourne	2	↓	/	/	14	/	/		
Hereford	3	↓	6	7	26	6	34		
Rothamsted (Harpenden)	1		5	3	12	6	16		
Writtle	3	↓	7	8	31	9	34		
Silwood Park (nr Ascot)	/		0	2	3	2	15		
Wye	/		1	5	6	1	13		
Starcross (nr Exeter)	3	↑	10	5	11	22	38		

The potato aphid was caught at seven sites this week in low numbers.

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals				16/06-22/06		Accumulated until		22/06
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	2014	2013	10-year average 2004- 13
Dundee	0		0	0	0	0	0	0	1
Gogarbank (Edinburgh)	0		0	1	0	0	0	0	2
Newcastle	/		0	2	0	0	0	0	7
Preston	0		0	4	3	0	3	0	20
Kirton	*2	↑	0	31	7	0	7	0	68
Broom's Barn (nr Bury St Edmunds)	*0	↓	0	65	31	0	31	0	143
Wellesbourne	14	↑	/	/	37	/	37	/	/
Hereford	0	↓	0	24	4	0	4	0	116
Rothamsted (Harpenden)	5	↑	0	49	10	0	10	0	182
Writtle	12	↓	1	187	50	1	50	1	449
Silwood Park (nr Ascot)	/		0	4	0	0	0	0	40
Wye	/		0	35	1	0	1	0	63
Starcross (nr Exeter)	0	↓	1	21	6	2	6	2	163

The mealy cabbage aphid was caught at only four sites this week, with minor hotspots at Wellesbourne (14) and Writtle (12). Accumulated numbers are below the 10-year means.

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals				16/06-22/06		Accumulated until		22/06
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	2014	2013	10-year average 2004- 13
Dundee	2	↓	6	3	179	6	179	6	46
Gogarbank (Edinburgh)	1	↓	2	13	96	2	96	2	74
Newcastle	/		1	28	24	3	24	3	87
Preston	1	↓	76	38	962	243	962	243	450
Kirton	*0	↓	56	60	869	75	869	75	583
Broom's Barn (nr Bury St Edmunds)	*0	↓	215	59	365	448	365	448	819
Wellesbourne	29	↓	/	/	177	/	177	/	/
Hereford	4	↓	143	24	59	225	59	225	369
Rothamsted (Harpenden)	14		90	32	93	147	93	147	422
Writtle	10	↓	52	40	137	167	137	167	917
Silwood Park (nr Ascot)	/		18	7	13	96	13	96	266
Wye	/		9	28	22	36	22	36	373
Starcross (nr Exeter)	2	↓	122	19	33	336	33	336	157

The willow-carrot aphid was caught at eight sites this week, with numbers falling everywhere. There was a hotspot at Wellesbourne (29).

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals 16/06-22/06				Accumulated until 22/06		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	0	↓	0	0	3	0	2
Gogarbank (Edinburgh)	3	↓	2	1	15	2	4
Newcastle	/		0	2	0	0	5
Preston	0	↓	0	3	5	0	11
Kirton	*0	↓	0	33	19	0	125
Broom's Barn (nr Bury St Edmunds)	*2	↓	0	26	83	0	125
Wellesbourne	18	↑	/	/	37	/	/
Hereford	4	↑	1	6	11	1	39
Rothamsted (Harpenden)	24	↓	4	17	83	5	93
Writtle	29	↓	1	31	117	2	170
Silwood Park (nr Ascot)	/		1	5	7	0	49
Wye	/		3	35	5	3	88
Starcross (nr Exeter)	23	↑	17	25	58	24	94

The pea aphid was caught at seven sites this week, with numbers increasing slightly at three sites and hotspots at Rothamsted (24), Writtle (29) and Starcross (23).



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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