

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

Most aphid flight activity decreased over the past week with exception of the cereal aphids. Generally the numbers of aphids flying are low for the time of year. Most aphids trapped are now leaving ripening or mature crops and only pose a threat to younger crops.

CEREALS

Numbers of cereal aphids flying from ripening crops are increasing, particularly in Scotland, but accumulated totals are generally still well below average for the time of year. Most crops in England are past the stage that damage is likely. The recommended threshold for control is 66% of tillers infested from GS61 to two weeks before the end of grain filling. Almost all crops are beyond this.

POTATOES

Current virus pressure as suggested by vector aphid abundance is generally below normal. In Scotland a noticeable increase in all three cereal aphids now represents the main contributor to PVY vector pressure. 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 and about 5% of the crop has been harvested nationally.

SPRING OILSEED RAPE

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

FIELD BRASSICAS

Numbers of peach-potato aphids flying are now low. Mealy cabbage aphids are flying in low numbers across central and southern England.

CARROTS

The numbers of willow-carrot aphid flying are now very low everywhere.

PEAS AND BEANS

Pea aphid numbers are generally increasing in the north and decreasing in the south. Combining peas should be sprayed when around 1 plant in 5 is infested and vining peas at about 1 plant in 7. Numbers of black bean aphid have generally increased throughout the Country this week.

SUCTION-TRAPPING RESULTS



The information below relates to suction-trap samples collected during Bulletin Week 15: 7/7-13/7.

- Aphid flight activity as monitored by the suction-traps continues to decline slowly in England, with the exception of the grain aphid coming off ripening cereals. In Scotland things are somewhat more active right across the board.
- All three main cereal aphids increased this week in Scotland, and in England the numbers of the grain aphid in particular increased as they leave cereal crops. It is reported that to date 5% of winter barley crops have been harvested nationally.
- Numbers of the peach-potato aphid (*Myzus persicae*) fell almost everywhere this week.
- The potato aphid (*Macrosiphum euphorbiae*) was caught in low numbers at four sites.
- The pea aphid (*Acyrtosiphon pisum*) has been caught at ten sites with hotspots at Writtle (64) and Dundee (23).
- The mealy cabbage aphid (*Brevicoryne brassicae*) was caught at eight sites in low numbers.
- The black bean aphid, (*Aphis fabae*), was caught at ten sites and numbers are generally increasing with a hotspot at Writtle (33).

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 07/07-13/07				Accumulated until 13/07		10-year average 2004-13
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	
Dundee	683	↑	52	398	865	56	1664
Gogarbank (Edinburgh)	63	↑	41	144	145	99	578
Newcastle	9		2	67	20	3	256
Preston	11	↑	17	21	27	58	383
Kirton	*14	↑	11	426	63	24	1512
Broom's Barn (nr Bury St Edmunds)	7	↓	41	506	132	107	1596
Wellesbourne	22	↓	/	/	207	/	/
Hereford	9	↑	22	147	81	62	547
Rothamsted (Harpenden)	5	↓	33	259	136	66	663
Writtle	19	↑	54	244	231	86	793
Silwood Park (nr Ascot)	/		0	40	7	10	153
Wye	/		0	79	5	13	304
Starcross (nr Exeter)	55	↓	76	58	912	164	543

The rose-grain aphid was caught at eleven sites this week, and was increasing at six sites, with hotspots at Starcross (55) and in Scotland (Dundee 683 and Edinburgh 63). Accumulated numbers are below average everywhere except Starcross.

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals 07/07-13/07				Accumulated until		13/07
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004- 13
Dundee	512	↑	169	242	623	182	760
Gogarbank (Edinburgh)	131	↑	143	119	235	161	698
Newcastle	8	↓	10	64	25	13	308
Preston	20	↑	2	27	52	15	155
Kirton	*21	↑	14	870	91	31	1751
Broom's Barn (nr Bury St Edmunds)	5	↓	10	221	85	21	1163
Wellesbourne	29	↑	/	/	71	/	/
Hereford	25	↑	9	48	77	23	264
Rothamsted (Harpenden)	16	↑	23	132	79	50	529
Writtle	24	↑	16	87	156	26	616
Silwood Park (nr Ascot)	/		0	107	10	20	324
Wye	/		0	80	12	13	362
Starcross (nr Exeter)	10	↓	252	84	224	400	556

The bird cherry–oat aphid was caught at eleven sites this week, with numbers increasing at eight sites, with hotspots at Dundee (512) and Gogarbank (131). The accumulated numbers remain well below average.

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals 07/07-13/07				Accumulated until		13/07
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004- 13
Dundee	322	↑	104	89	376	152	369
Gogarbank (Edinburgh)	141	↑	39	63	208	45	260
Newcastle	24	↑	4	53	34	4	220
Preston	67	↑	41	59	138	59	345
Kirton	*145	↑	16	724	167	39	1728
Broom's Barn (nr Bury St Edmunds)	45	↑	28	513	144	32	1508
Wellesbourne	62	↓	/	/	231	/	/
Hereford	60	↑	20	221	136	34	664
Rothamsted (Harpenden)	73	↓	15	588	210	32	1352
Writtle	166	↑	68	558	461	73	1470
Silwood Park (nr Ascot)	/		0	371	18	17	616
Wye	/		0	355	6	8	1129
Starcross (nr Exeter)	41	↓	52	102	238	83	558

The grain aphid was caught at eleven sites, with increases at eight of these sites since last week, and hotspots at Writtle (166), Kirton (145) and in Scotland (Dundee 322 and Edinburgh 141).

Peach-potato aphid (*Myzus persicae*)

Peach-potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals 07/07-13/07				Accumulated until		13/07
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	3	↑	3	3	5	3	11
Gogarbank (Edinburgh)	0		0	2	4	0	12
Newcastle	1	↑	0	1	7	0	17
Preston	1	↓	0	4	42	2	111
Kirton	*21	↑	3	137	141	11	413
Broom's Barn (nr Bury St Edmunds)	5	↓	4	99	1350	137	632
Wellesbourne	15	↓	/	/	670	/	/
Hereford	2	↓	4	14	102	11	119
Rothamsted (Harpenden)	12	↓	48	56	517	57	392
Writtle	9	↓	79	100	1153	114	659
Silwood Park (nr Ascot)	/		0	10	7	3	52
Wye	/		0	12	31	32	206
Starcross (nr Exeter)	1	↓	34	7	164	47	91

The peach-potato aphid was caught at ten sites this week, with numbers decreasing at most sites.

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals 07/07-13/07				Accumulated until		13/07
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	9	↑	7	5	18	11	21
Gogarbank (Edinburgh)	1	↓	10	5	25	14	50
Newcastle	0		4	1	1	11	22
Preston	0		3	2	14	21	30
Kirton	*2	↑	5	10	26	16	67
Broom's Barn (nr Bury St Edmunds)	0	↓	5	6	29	16	51
Wellesbourne	0	↓	/	/	19	/	/
Hereford	0	↓	9	19	31	21	80
Rothamsted (Harpenden)	0		1	3	12	10	28
Writtle	0	↓	7	6	35	21	48
Silwood Park (nr Ascot)	/		0	1	3	5	18
Wye	/		0	2	6	5	18
Starcross (nr Exeter)	1	↓	7	1	20	44	45

The potato aphid was caught at four sites this week in low numbers, with a small hotspot at Dundee.

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals 07/07-13/07				Accumulated until 13/07		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	0		0	2	0	0	3
Gogarbank (Edinburgh)	0		0	0	0	0	4
Newcastle	1	↑	0	0	1	0	9
Preston	0	↓	0	1	5	0	27
Kirton	*5	↓	0	7	17	0	99
Broom's Barn (nr Bury St Edmunds)	5	↑	0	41	43	1	273
Wellesbourne	5	↓	/	/	73	/	/
Hereford	1	↓	2	11	7	2	153
Rothamsted (Harpenden)	3		19	22	18	20	234
Writtle	8	↓	36	52	121	41	609
Silwood Park (nr Ascot)	/		0	10	0	0	55
Wye	/		0	8	1	2	90
Starcross (nr Exeter)	12	↓	42	24	56	48	217

The mealy cabbage aphid was caught at eight sites this week, with a hotspot at Starcross (12). Accumulated numbers are well below the 10-year means.

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals 07/07-13/07				Accumulated until 13/07		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	4	↑	4	3	184	11	55
Gogarbank (Edinburgh)	1	↑	2	3	98	4	91
Newcastle	2	↓	1	5	42	5	103
Preston	2	↓	21	5	974	288	477
Kirton	*2	↑	15	7	876	146	618
Broom's Barn (nr Bury St Edmunds)	0	↓	52	9	375	677	856
Wellesbourne	0	↓	/	/	189	/	/
Hereford	1	↑	94	13	60	423	396
Rothamsted (Harpenden)	1	↓	37	8	103	233	445
Writtle	0	↓	51	9	148	283	939
Silwood Park (nr Ascot)	/		0	1	13	104	269
Wye	/		0	3	22	71	387
Starcross (nr Exeter)	2	↑	102	12	39	587	180

The willow-carrot aphid was caught at eight sites this week, with numbers low everywhere.

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals 07/07-13/07				Accumulated until 13/07		
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	23	↑	4	14	31	4	35
Gogarbank (Edinburgh)	4	↑	4	6	20	7	27
Newcastle	5	↑	2	3	5	3	17
Preston	3	↑	3	3	9	4	42
Kirton	*16	↑	11	206	47	15	667
Broom's Barn (nr Bury St Edmunds)	14	↓	11	234	123	21	594
Wellesbourne	11	↓	/	/	89	/	/
Hereford	0	↓	13	22	23	18	121
Rothamsted (Harpenden)	14	↓	17	150	134	34	377
Writtle	64	↑	49	284	244	56	684
Silwood Park (nr Ascot)	/		0	34	7	5	108
Wye	/		0	85	5	11	316
Starcross (nr Exeter)	1	↓	44	21	77	95	147

The pea aphid was caught at ten sites this week, with numbers increasing at six sites and hotspots at Writtle (64) and Dundee (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>

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