

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 further details of the YWT results can be found at www.potato.org.uk/online-toolbox/aphid-monitoring.

GENERAL

Following the mild winter and warm spring, aphids have generally been flying earlier and in higher than average numbers, although cereal aphids have been average or a little below. Weather conditions are conducive to population build up in crops but natural enemies appear to be doing well and we are not aware of any reports of major problems.

WINTER CEREALS

Numbers flying are about average or a little below for the time of year. Crops are past the stage at which further BYDV infection would be an issue.

SPRING CEREALS

It now looks unlikely that there will be BYDV issues. These require large cereal aphid migrations into late crops and most crops, except those in Scotland, are reaching the stage (GS 31) at which further infection by BYDV has little impact.

POTATOES

Especially large numbers potato-colonising aphid species for the time of year have been found in East Anglia and the South East.

Various other vectors of PVY and PVA are flying and virus risk is generally higher than usual. Further regional information on potato virus vectors can be accessed here: www.potato.org.uk/online-toolbox/aphid-monitoring.

WINTER OILSEED RAPE

Mealy cabbage aphids are flying in low numbers. The threshold for control is >13% plants infested before petal fall. Most crops are past this stage.

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 aphid is flying in larger numbers than usual. Mealy cabbage aphids are flying in low numbers.

CARROTS

Willow–carrot aphid is flying throughout the Country and in especially large numbers in East Anglia and Lancashire.

PEAS

Pea aphid is flying in low numbers throughout the Country, being most prevalent in the South and South-east.

SUCTION-TRAPPING RESULTS



Suction-trap sites

The information below relates to suction-trap samples collected during Bulletin Week 8: 19/5-25/5.

- Aphid flight activity continued in between the showers. Temperatures were about average for the time of year, so aphid numbers on the ground have the potential to increase.
- Numbers of the main cereal aphids in the suction-traps are about average for the time of year, with field reports of low numbers of rose-grain aphid and grain aphid in central and southern England.
- Numbers of peach-potato aphid (*Myzus persicae*) have increased in the west midlands and south west England, and remain high in the east, but none yet north of the border.
- The potato aphid (*Macrosiphum euphorbiae*) was caught across the Country in low numbers.
- The pea aphid (*Acyrtosiphon pisum*) was caught at six sites in low numbers this week.
- The mealy cabbage aphid (*Brevicoryne brassicae*) was caught at five sites this week in low numbers
- The willow-carrot aphid (*Cavariella aegopodii*) migration continued this week, with highest numbers at Preston and Kirton.

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 19/05-25/05				Accumulated until		25/05
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	0	↓	0	0	1	0	1
Gogarbank (Edinburgh)	2	↑	0	1	3	0	4
Newcastle	/		0	1	0	0	4
Preston	1	↓	0	3	8	1	18
Kirton	*4	↓	0	1	14	0	7
Broom's Barn (nr Bury St Edmunds)	1	↓	0	2	22	0	8
Wellesbourne	/		/	/	2	/	/
Hereford	0		0	4	0	0	12
Rothamsted (Harpenden)	1	↓	0	1	6	2	4
Writtle	2	↓	0	1	10	0	12
Silwood Park (nr Ascot)	/		0	2	7	0	7
Wye	/		0	2	5	0	4
Starcross (nr Exeter)	3	↓	0	6	11	2	30

The rose-grain aphid was caught at nine sites this week in low numbers about average for the time of year.

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals 19/05-25/05				Accumulated until		25/05
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	0	↓	0	3	2	0	7
Gogarbank (Edinburgh)	4	↑	3	2	7	3	8
Newcastle	/		0	3	2	0	11
Preston	*3	↑	0	3	18	0	17
Kirton	*4	↓	2	15	25	2	55
Broom's Barn (nr Bury St Edmunds)	7	↑	0	13	18	1	45
Wellesbourne	/		/	/	0	/	/
Hereford	3	↓	0	7	12	1	21
Rothamsted (Harpenden)	3	↓	2	10	12	3	26
Writtle	12	↓	0	12	34	0	56
Silwood Park (nr Ascot)	/		3	12	10	6	54
Wye	/		0	43	12	0	89
Starcross (nr Exeter)	10	↓	1	19	38	1	109

The bird cherry–oat aphid was caught at eight sites this week, with numbers a little below average.

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals 19/05-25/05				Accumulated until		25/05
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	1	↑	0	2	1	0	6
Gogarbank (Edinburgh)	1	↑	1	1	1	1	5
Newcastle	/		0	1	0	0	8
Preston	*4	↑	0	3	10	0	14
Kirton	1	↓	0	2	5	0	12
Broom's Barn (nr Bury St Edmunds)	1	↓	0	1	11	1	5
Wellesbourne	/		/	/	3	/	/
Hereford	3	↑	0	3	3	0	12
Rothamsted (Harpenden)	1	↓	0	1	9	0	4
Writtle	3	↓	0	2	9	0	11
Silwood Park (nr Ascot)	/		0	5	18	0	15
Wye	/		0	4	6	0	12
Starcross (nr Exeter)	6	↑	0	3	9	0	25

The grain aphid was caught at eleven sites this week in low numbers.

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals 19/05-25/05				Accumulated until		25/05
	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	2
Preston	0	↓	0	0	4	0	4
Kirton	*6	↓	0	6	19	0	14
Broom's Barn (nr Bury St Edmunds)	130	↓	0	29	493	0	54
Wellesbourne	/		/	/	21	/	/
Hereford	11	↑	0	7	14	0	19
Rothamsted (Harpenden)	20	↓	0	14	82	0	41
Writtle	79	↓	0	31	190	0	78
Silwood Park (nr Ascot)	/		0	6	7	0	14
Wye	/		0	28	31	0	61
Starcross (nr Exeter)	53	↑	0	5	77	0	25

The peach–potato aphid was caught at six sites this week, with numbers increasing in the west midlands and south west England. There were hotspots at Broom's Barn (130), Writtle (79) and Starcross (53).

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals 19/05-25/05				Accumulated until		25/05
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	1		0	1	2	0	3
Gogarbank (Edinburgh)	0	↓	0	1	2	0	8
Newcastle	/		0	2	0	0	7
Preston	*4	↑	0	1	5	0	6
Kirton	*5	↓	0	0	14	0	4
Broom's Barn (nr Bury St Edmunds)	3	↓	0	1	13	0	4
Wellesbourne	/		/	/	5	/	/
Hereford	1	↓	0	2	5	0	8
Rothamsted (Harpenden)	1		0	1	5	1	5
Writtle	4		0	2	10	0	10
Silwood Park (nr Ascot)	/		0	1	3	1	8
Wye	/		0	1	6	0	3
Starcross (nr Exeter)	1	↓	1	4	6	1	15

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

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Mealy Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals 19/05-25/05				Accumulated until		25/05
	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	0
Newcastle	/		0	0	0	0	1
Preston	*3	↑	0	1	3	0	7
Kirton	0	↓	0	13	4	0	18
Broom's Barn (nr Bury St Edmunds)	1	↓	0	6	11	0	14
Wellesbourne	/		/	/	0	/	/
Hereford	1		0	23	2	0	36
Rothamsted (Harpenden)	2	↑	0	4	2	0	9
Writtle	4	↓	0	33	9	0	69
Silwood Park (nr Ascot)	/		0	9	0	0	13
Wye	/		0	10	1	0	15
Starcross (nr Exeter)	0	↓	0	6	3	0	43

The mealy cabbage aphid was caught at five sites this week in low numbers, somewhat below average for the time of year.

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals 19/05-25/05				Accumulated until		25/05
	2014	Compared to last Bulletin week	2013	10-year average 2004-13	2014	2013	10-year average 2004-13
Dundee	41	↑	0	4	46	0	20
Gogarbank (Edinburgh)	8	↑	0	2	8	0	23
Newcastle	/		0	1	16	0	13
Preston	*451	↑	0	46	631	0	246
Kirton	*172	↓	0	155	673	0	333
Broom's Barn (nr Bury St Edmunds)	68	↓	6	231	301	7	567
Wellesbourne	/		/	/	66	/	/
Hereford	11	↓	0	81	30	0	255
Rothamsted (Harpenden)	7	↓	0	126	51	0	273
Writtle	13	↓	1	235	76	1	691
Silwood Park (nr Ascot)	/		0	63	13	1	207
Wye	/		1	111	22	1	239
Starcross (nr Exeter)	2	↓	5	25	9	5	84

The willow-carrot aphid was caught at all sites this week, with numbers increasing in the north. There were noticeable hotspots at Preston (451) and Kirton (172).

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals 19/05-25/05				Accumulated until		25/05
	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	0	0	0	0
Preston	0	↓	0	0	2	0	1
Kirton	*4	↑	0	1	5	0	4
Broom's Barn (nr Bury St Edmunds)	2	↓	0	2	12	0	6
Wellesbourne	/		/	/	4	/	/
Hereford	0	↓	0	2	1	0	6
Rothamsted (Harpenden)	4	↓	0	4	12	0	8
Writtle	4		0	3	9	0	12
Silwood Park (nr Ascot)	/		0	2	7	0	9
Wye	/		0	2	5	0	5
Starcross (nr Exeter)	5	↑	0	3	7	0	16

The pea aphid was caught at six sites this week in low numbers.



Further information

www.hgca.com/pests

[Rothamsted Insect Survey](#)

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

[HDC pest bulletin](#)

Please send information on crop aphids to

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