

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

The weather was more suitable for aphid flight this week, and many were caught in the traps. There was a noticeable increase in the range of species dropping in to the traps, and those which are already in crops will be multiplying as conditions improve.

WINTER CEREALS

Cereal aphids are flying in central and southern England but numbers remain low. Winter 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, have reached the stage (GS31) after which further infection by BYDV has little impact.

POTATOES

Low numbers of the peach-potato aphid (*Myzus persicae*) have been caught through East Anglia, central and southern England, but not yet in Scotland. However in some non-potato YWT numbers were increasing especially in Cambridgeshire, possibly resulting from aphids overwintering in untreated oilseed rape.

The potato aphid (*Macrosiphum euphorbiae*) has been caught in low numbers in central England this week.

The glasshouse and potato aphid (*Aulacorthum solani*) has appeared in traps from central England northwards this week.

The numbers of non-colonising vectors of PVY have increased again this week, in particular, the willow-carrot aphid (*Cavariella aegopodii*) and the leaf-curling plum aphid (*Brachycaudus helichrysi*). These always fly early in the season when the plants are young and vulnerable. The black bean aphid (*Aphis fabae*) is a good vector of PVA and is also now flying throughout central, eastern and southern England. Cereal aphids are flying but in very low numbers at this stage. Further regional information on potato virus vectors can be accessed here: www.potato.org.uk/online-toolbox/aphid-monitoring.

OILSEED RAPE

Mealy cabbage aphids (*Brevicoryne brassicae*) have been caught in central England and the south west this week. In winter oilseed rape the threshold for control is >13% plants infested before petal fall, and in spring rape the threshold for control is >4% plants infested before petal fall.

FIELD BRASSICAS and LEAFY VEGETABLES

Low numbers of the peach-potato aphid (*Myzus persicae*) have been caught through East Anglia, central and southern England. Mealy cabbage aphids (*Brevicoryne brassicae*) have been caught in the midlands and south west this week.

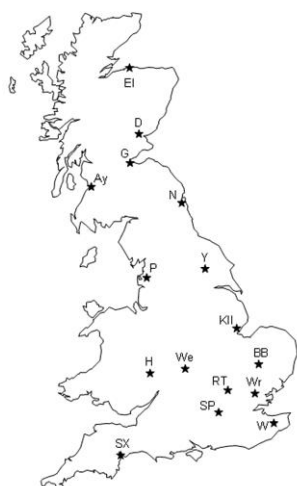
CARROTS

Numbers of the willow-carrot aphid (*Cavariella aegopodii*) flying have again increased this week, and were highest in southern and eastern England.

PEAS and BEANS

Pea aphid (*Acyrtosiphon pisum*) and the black bean aphid (*Aphis fabae*) are flying in low numbers.

SUCTION-TRAPPING RESULTS



Suction-trap sites

The information below relates to suction-trap samples collected during Bulletin Week 7: 18/5 – 24/5. Aphid numbers in the suction-traps are slowly increasing and there has been a sharp rise in the diversity of species being caught this week.

- The three main cereal aphids are flying in low numbers this week, numbers are generally below average.
- The peach–potato aphid (*Myzus persicae*) was caught at seven sites this week, with a first arrival at Wellesbourne (18/5). Both current and accumulated totals are below average.
- The potato aphid (*Macrosiphum euphorbiae*) was caught at four sites this week in low numbers, with first arrivals at Wellesbourne (24/5) and Hereford (22/5).
- Aphids have been found on potato ‘ground keepers’ in south Lincolnshire.
- Numbers of the willow–carrot aphid (*Cavariella aegopodii*) have increased at 10/12 sites this week, with highest numbers in southern and eastern England.
- The mealy cabbage aphid (*Brevicoryne brassicae*) was caught at three sites this week, with first arrivals at Wellesbourne (22/5), Hereford (22/5) and Starcross (21/5). Accumulated numbers are well below the 10-year means.
- The pea aphid (*Acyrtosiphon pisum*) was caught at two sites this week, with a first arrival at Wellesbourne (22/5).
- The black bean aphid (*Aphis fabae*) has been caught at seven sites this 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 18/05-24/05				Accumulated until 24/05		
	2015	Compared to last Bulletin week	2014	10-year average 2005-14	2015	2014	10-year average 2005-14
Dundee	0		0	0	0	/	1
Gogarbank (Edinburgh)	0		2	1	0	3	1
Newcastle	N/A		/	1	0	/	3
York	0*		N/A	N/A	1	N/A	N/A
Preston	0*		1	2	1	8	6
Kirton	4*	↑	4	2	6	14	5
Broom’s Barn (nr Bury St Edmunds)	1*	↑	1	2	1	22	6
Wellesbourne	0*	↓	/	2	1	/	4
Hereford	0*		0	4	0	0	5
Rothamsted (Harpenden)	2*	↑	1	1	2	6	3
Writtle	2*	↑	2	2	3	10	6
Silwood Park (nr Ascot)	0*		/	2	2	/	6
Wye	0*	↓	/	1	2	/	2
Starcross (nr Exeter)	5*	↓	3	5	14	11	15

Low numbers of the rose–grain aphid were caught at five sites this week. Accumulated numbers are at or slightly below the ten year average.

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals 18/05-24/05				Accumulated until 24/05		
	2015	Compared to last Bulletin week	2014	10-year average 2005-14	2015	2014	10-year average 2005-14
Dundee	1		0	2	1	/	3
Gogarbank (Edinburgh)	0		4	2	0	7	4
Newcastle	N/A		/	3	0	/	8
York	1*	↑	N/A	N/A	2	N/A	N/A
Preston	0*		3	2	0	18	11
Kirton	1*	↓	4	13	5	25	33
Broom's Barn (nr Bury St Edmunds)	2*	↑	7	13	2	18	27
Wellesbourne	1*	↑	/	14	1	/	30
Hereford	0*		3	7	1	12	14
Rothamsted (Harpenden)	2*	↑	3	9	4	12	20
Writtle	2*	↑	12	12	4	34	38
Silwood Park (nr Ascot)	0*	↓	/	12	2	/	44
Wye	1*	↓	/	45	6	/	65
Starcross (nr Exeter)	5*	↑	10	15	11	38	79

The bird cherry–oat aphid was caught at nine sites this week, with first arrivals at Broom's Barn (22/5) and Wellesbourne (21/5), but the accumulated numbers are below average.

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals 18/05-24/05				Accumulated until 24/05		
	2015	Compared to last Bulletin week	2014	10-year average 2005-14	2015	2014	10-year average 2005-14
Dundee	0		1	1	0	/	2
Gogarbank (Edinburgh)	0		1	1	0	1	1
Newcastle	N/A		/	1	0	/	5
York	2*	↑	N/A	N/A	3	N/A	N/A
Preston	0*		4	2	0	10	4
Kirton	0*		1	1	0	5	5
Broom's Barn (nr Bury St Edmunds)	0*		1	1	0	11	3
Wellesbourne	0*		/	6	0	/	19
Hereford	1*	↑	3	2	2	3	5
Rothamsted (Harpenden)	0*		1	1	0	9	3
Writtle	0*		3	1	2	9	5
Silwood Park (nr Ascot)	0*		/	2	0	/	8
Wye	0*		/	1	0	/	4
Starcross (nr Exeter)	0*	↓	6	2	3	9	15

The grain aphid was caught at two sites this week and accumulated numbers are below average.

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals 18/05-24/05				Accumulated until 24/05		
	2015	Compared to last Bulletin week	2014	10-year average 2005-14	2015	2014	10-year average 2005-14
Dundee	0		0	0	0	/	0
Gogarbank (Edinburgh)	0		0	0	0	0	1
Newcastle	N/A		/	0	0	/	1
York	0*		N/A	N/A	0	N/A	N/A
Preston	0*		0	0	0	4	1
Kirton	0*		6	6	2	19	11
Broom's Barn (nr Bury St Edmunds)	8*	↑	130	41	12	493	90
Wellesbourne	2*	↑	/	21	2	/	69
Hereford	2*	↑	11	7	3	14	10
Rothamsted (Harpenden)	1*	↑	20	16	3	82	36
Writtle	7*	↑	79	35	11	190	70
Silwood Park (nr Ascot)	0*	↓	/	8	3	/	13
Wye	5*	↑	/	27	8	/	48
Starcross (nr Exeter)	2*	↓	53	10	7	77	25

The peach–potato aphid was caught at seven sites this week, with a first arrival at Wellesbourne (18/5). Both current and accumulated totals are below average.

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals 18/05-24/05				Accumulated until 24/05		
	2015	Compared to last Bulletin week	2014	10-year average 2005-14	2015	2014	10-year average 2005-14
Dundee	0		1	1	0	/	1
Gogarbank (Edinburgh)	0		0	1	0	2	3
Newcastle	N/A		/	2	0	/	4
York	0*		N/A	N/A	0	N/A	N/A
Preston	0*	↓	4	1	1	5	2
Kirton	0*		5	1	2	14	4
Broom's Barn (nr Bury St Edmunds)	0*	↓	3	1	3	13	4
Wellesbourne	1*	↑	/	2	1	/	7
Hereford	1*	↑	1	1	1	5	4
Rothamsted (Harpenden)	1*	↑	1	1	2	5	3
Writtle	2*	↑	4	3	4	10	7
Silwood Park (nr Ascot)	0*		/	1	2	/	7
Wye	0*		/	0	0	/	3
Starcross (nr Exeter)	0*	↓	1	3	3	6	12

The potato aphid was caught at four sites this week in low numbers, with first arrivals at Wellesbourne (24/5) and Hereford (22/5).

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Mealy Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals 18/05-24/05				Accumulated until 24/05		
	2015	Compared to last Bulletin week	2014	10-year average 2005-14	2015	2014	10-year average 2005-14
Dundee	0		0	0	0	/	0
Gogarbank (Edinburgh)	0		0	0	0	0	0
Newcastle	N/A		/	0	0	/	0
York	0*		N/A	N/A	0	N/A	N/A
Preston	0*		3	1	0	3	3
Kirton	0*		0	11	0	4	13
Broom's Barn (nr Bury St Edmunds)	0*		1	6	0	11	9
Wellesbourne	2*	↑	/	25	2	/	43
Hereford	4*	↑	1	21	4	2	27
Rothamsted (Harpenden)	0*		2	3	0	2	5
Writtle	0*	↓	4	30	1	9	42
Silwood Park (nr Ascot)	0*		/	11	0	/	15
Wye	0*		/	9	0	/	10
Starcross (nr Exeter)	5*	↑	0	4	5	3	24

The mealy cabbage aphid was caught at three sites this week, with first arrivals at Wellesbourne (22/5), Hereford (22/5) and Starcross (21/5). Accumulated numbers are well below the 10-year means.

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals 18/05-24/05				Accumulated until 24/05		
	2015	Compared to last Bulletin week	2014	10-year average 2005-14	2015	2014	10-year average 2005-14
Dundee	1		41	8	1	/	10
Gogarbank (Edinburgh)	3	↑	8	1	4	8	3
Newcastle	N/A		/	5	0	/	7
York	34*	↑	N/A	N/A	41	N/A	N/A
Preston	0*	↓	451	75	2	631	125
Kirton	72*	↑	172	139	115	673	240
Broom's Barn (nr Bury St Edmunds)	226*	↑	68	192	277	301	278
Wellesbourne	72*	↑	/	43	109	/	66
Hereford	39*	↑	11	63	48	30	77
Rothamsted (Harpenden)	117*	↑	7	90	167	51	123
Writtle	425*	↑	13	167	559	76	266
Silwood Park (nr Ascot)	44*	↓	/	39	142	/	126
Wye	137*	↑	/	57	184	/	94
Starcross (nr Exeter)	37*	↑	2	12	70	9	37

The willow-carrot aphid was caught at twelve sites this week, with numbers highest at Broom's Barn and Writtle.

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals 18/05-24/05				Accumulated until 24/05		
	2015	Compared to last Bulletin week	2014	10-year average 2005-14	2015	2014	10-year average 2005-14
Dundee	0		0	0	0	/	0
Gogarbank (Edinburgh)	0		0	0	0	0	1
Newcastle	N/A		/	0	0	/	0
York	0*		N/A	N/A	0	N/A	N/A
Preston	0*		0	0	0	2	1
Kirton	0*		4	1	0	5	4
Broom's Barn (nr Bury St Edmunds)	0*		2	2	0	12	6
Wellesbourne	2*	↑	/	4	2	/	9
Hereford	0*		0	1	0	1	5
Rothamsted (Harpenden)	0*		4	4	0	12	8
Writtle	0*		4	2	2	9	10
Silwood Park (nr Ascot)	0*	↓	/	2	1	/	8
Wye	1*	↓	/	1	3	/	5
Starcross (nr Exeter)	0*	↓	5	3	2	7	11

The pea aphid was caught at two sites this week, with a first arrival at Wellesbourne (22/5).



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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