

## 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](http://www.potato.org.uk/online-toolbox/aphid-monitoring).

### GENERAL

The weather was very suitable for aphid flight this week and many were caught in the traps. Those already in crops will be multiplying rapidly, but natural enemies, especially ladybirds and parasitic wasps, are active and will have started to exert some control.

### WINTER CEREALS

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

### SPRING CEREALS

Late-sown crops may be at risk from BYDV primary infection (brought in by winged aphids) in the face of earlier than usual aphid migrations but only if these build dramatically in number very soon.

### POTATOES

The peach-potato aphid (*Myzus persicae*) has been caught throughout England but not yet in Scotland. Especially large numbers for the time of year have been found in the Midlands, East Anglia and the South East.

The potato aphid (*Macrosiphum euphorbiae*) and glasshouse-potato aphid have been caught throughout the Country.

Various other vectors of PVY and PVA are flying. There are notably large flights of willow-carrot aphid and leaf-curling plum aphid in East Anglia and Essex. Further regional information on potato virus vectors can be accessed here: [www.potato.org.uk/online-toolbox/aphid-monitoring](http://www.potato.org.uk/online-toolbox/aphid-monitoring).

### WINTER OILSEED RAPE

Fewer mealy cabbage aphids than usual for the time of year have been caught but a few are flying in East Anglia and Essex. Some will have survived the winter on the crop. The threshold for control is >13% plants infested before petal fall.

### SPRING OILSEED RAPE

Fewer mealy cabbage aphids than usual for the time of year have been caught but some are flying in East Anglia and Essex. The threshold for control is >4% plants infested before petal fall.

### FIELD BRASSICAS

Peach-potato aphid is flying in larger numbers than usual. Fewer mealy cabbage aphids than usual for the time of year have been caught but some are flying in East Anglia and Essex.

### CARROTS

Willow-carrot aphid is flying in especially large numbers in East Anglia and Essex.

### 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 7: 12/5-18/5.

- Aphid flight activity rose significantly as the weather warmed up, with both total numbers and diversity increasing this week. Aphid natural enemies are also increasing, particularly ladybirds.
- Numbers of the main cereal aphids in the suction-traps are low but increasing slowly, with field reports of low numbers of rose-grain aphid in cereal crops in eastern England.
- Numbers of peach-potato aphid (*Myzus persicae*) have increased dramatically this week, particularly in eastern and south eastern England, but none yet at Newcastle or 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 eleven sites this week, with numbers highest in eastern England.
- The cabbage aphid (*Brevicoryne brassicae*) was caught at five sites this week in low numbers
- The willow-carrot aphid (*Cavariella aegopodii*) migration increased substantially this week, with highest numbers at Kirton and Broom's Barn.

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*)

Current totals		12/05-18/05	Rose-grain aphid	Compared to last week	Accumulated up to 18/05		
2014	2013	04-13			2014	2013	04-13
1	0	0	Dundee	↑	1	0	1
0	0	0	Gogarbank (Edinburgh)		1	0	2
0	0	1	Newcastle		0	0	3
*2	1	1	Preston	↑	7	1	7
9	0	0	Kirton	↑	11	0	3
14	0	0	Broom's Barn (nr Bury St Edmunds)	↑	21	0	4
*2	/	/	Wellesbourne	↑	2	/	/
0	0	1	Hereford		0	0	6
3	2	1	Rothamsted (Harpenden)	↑	5	2	3
5	0	1	Writtle	↑	8	0	5
0	0	1	Silwood Park (nr Ascot)	↓	7	0	6
*2	0	0	Wye	↑	5	0	2
*5	2	4	Starcross (nr Exeter)	↑	8	2	18

The rose-grain aphid was caught at nine sites this week, with numbers increasing at most sites.

### Bird cherry–oat aphid (*Rhopalosiphum padi*)

Current totals		12/05-18/05	Bird cherry–oat aphid	Compared to last week	Accumulated up to 18/05		
2014	2013	04-13			2014	2013	04-13
<b>2</b>	0	0	Dundee	↑	2	0	4
<b>3</b>	0	1	Gogarbank (Edinburgh)	↑	3	0	4
*2	0	4	Newcastle	↑	2	0	8
*2	0	4	Preston	↓	<b>15</b>	0	10
<b>14</b>	0	9	Kirton	↑	21	0	37
4	1	5	Broom's Barn (nr Bury St Edmunds)	↑	11	1	27
0	/	/	Wellesbourne		0	/	/
<b>6</b>	0	2	Hereford	↑	9	1	15
<b>6</b>	0	4	Rothamsted (Harpenden)	↑	9	1	21
15	0	15	Writtle	↑	22	0	40
*2	3	11	Silwood Park (nr Ascot)	↓	10	3	40
*5	0	13	Wye	↑	12	0	62
<b>*21</b>	0	13	Starcross (nr Exeter)	↑	28	0	85

The bird cherry–oat aphid was caught at twelve sites this week, with numbers low but slowly on the way up.

### Grain aphid (*Sitobion avenae*)

Current totals		12/05-18/05	Grain aphid	Compared to last week	Accumulated up to 18/05		
2014	2013	04-13			2014	2013	04-13
0	0	1	Dundee		0	0	2
0	0	0	Gogarbank (Edinburgh)		0	0	2
0	0	3	Newcastle		0	0	5
<b>*4</b>	0	1	Preston	↑	<b>6</b>	0	5
4	0	4	Kirton	↑	4	0	7
<b>6</b>	1	1	Broom's Barn (nr Bury St Edmunds)	↑	<b>10</b>	1	2
0	/	/	Wellesbourne		3	/	/
0	0	1	Hereford		0	0	6
<b>4</b>	0	1	Rothamsted (Harpenden)	↑	<b>8</b>	0	3
<b>4</b>	0	2	Writtle	↑	6	0	6
0	0	3	Silwood Park (nr Ascot)		<b>18</b>	0	11
*2	0	2	Wye	↑	6	0	7
0	0	2	Starcross (nr Exeter)	↓	3	0	16

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

### Peach–potato aphid (*Myzus persicae*)

Current totals		12/05-18/05	Peach–potato aphid	Compared to last week	Accumulated up to 18/05		
2014	2013	04-13			2014	2013	04-13
0	0	0	Dundee		0	0	0
0	0	0	Gogarbank (Edinburgh)		0	0	1
0	0	1	Newcastle		0	0	1
<b>*2</b>	0	0	Preston	↑	<b>4</b>	0	1
<b>9</b>	0	3	Kirton	↑	<b>13</b>	0	11
<b>308</b>	0	8	Broom’s Barn (nr Bury St Edmunds)	↑	<b>363</b>	0	45
<b>*19</b>	/	/	Wellesbourne	↑	21	/	/
<b>3</b>	0	2	Hereford	↑	3	0	10
<b>51</b>	0	7	Rothamsted (Harpenden)	↑	<b>62</b>	0	29
<b>92</b>	0	8	Writtle	↑	<b>111</b>	0	57
<b>*5</b>	0	3	Silwood Park (nr Ascot)	↑	7	0	12
<b>*21</b>	0	13	Wye	↑	31	0	46
<b>*19</b>	0	2	Starcross (nr Exeter)	↑	<b>24</b>	0	19

The peach–potato aphid was caught at ten sites this week, with numbers increasing throughout most of England, with a major hotspot at Broom’s Barn (308) and high numbers at Writtle (92) and Rothamsted (51).

### Potato aphid (*Macrosiphum euphorbiae*)

Current totals		12/05-18/05	Potato aphid	Compared to last week	Accumulated up to 18/05		
2014	2013	04-13			2014	2013	04-13
<b>1</b>	0	0	Dundee	↑	1	0	2
1	0	1	Gogarbank (Edinburgh)	↑	2	0	4
0	0	1	Newcastle		0	0	4
0	0	0	Preston	↓	1	0	1
<b>6</b>	0	1	Kirton	↑	<b>9</b>	0	2
<b>5</b>	0	1	Broom’s Barn (nr Bury St Edmunds)	↑	<b>10</b>	0	4
<b>*5</b>	/	/	Wellesbourne	↑	5	/	/
<b>3</b>	0	1	Hereford	↑	4	0	5
1	1	1	Rothamsted (Harpenden)	↑	<b>4</b>	1	3
<b>4</b>	0	2	Writtle	↑	6	0	7
0	1	3	Silwood Park (nr Ascot)		3	1	7
<b>*5</b>	0	1	Wye	↑	<b>6</b>	0	3
<b>*5</b>	0	3	Starcross (nr Exeter)	↑	5	0	13

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

### Cabbage aphid (*Brevicoryne brassicae*)

Current totals		12/05-18/05	Cabbage aphid	Compared to last week	Accumulated up to 18/05		
2014	2013	04-13			2014	2013	04-13
0	0	0	Dundee		0	0	0
0	0	0	Gogarbank (Edinburgh)		0	0	0
0	0	0	Newcastle		0	0	0
0	0	1	Preston		0	0	3
4	0	1	Kirton	↑	4	0	14
10	0	1	Broom's Barn (nr Bury St Edmunds)	↑	10	0	9
0	/	/	Wellesbourne		0	/	/
1	0	3	Hereford	↑	1	0	28
0	0	0	Rothamsted (Harpenden)		0	0	6
5	0	7	Writtle	↑	5	0	45
0	0	2	Silwood Park (nr Ascot)		0	0	12
0	0	1	Wye		1	0	11
*2	0	8	Starcross (nr Exeter)	↑	3	0	27

The cabbage aphid was caught at five sites this week, four of which were first arrivals, two to three weeks earlier than the first arrival 10-year means.

### Willow-carrot aphid (*Cavariella aegopodii*)

Current totals		12/05-18/05	Willow-carrot aphid	Compared to last week	Accumulated up to 18/05		
2014	2013	04-13			2014	2013	04-13
5	0	1	Dundee	↑	5	0	5
0	0	1	Gogarbank (Edinburgh)		0	0	4
*16	0	1	Newcastle	↑	16	0	2
*168	0	14	Preston	↑	180	0	86
487	0	58	Kirton	↑	501	0	247
200	1	85	Broom's Barn (nr Bury St Edmunds)	↑	233	1	351
*63	/	/	Wellesbourne	↑	66	/	/
18	0	11	Hereford	↑	19	0	97
42	0	34	Rothamsted (Harpenden)	↑	44	0	171
55	0	99	Writtle	↑	63	0	364
*4	0	78	Silwood Park (nr Ascot)	↑	13	1	176
*19	0	22	Wye	↑	22	0	148
*4	0	13	Starcross (nr Exeter)	↑	7	0	54

The willow-carrot aphid was caught at all sites this week except Edinburgh, with numbers increasing everywhere. There were noticeable hotspots at Preston (168), Kirton (487) and Broom's Barn (200).

## Pea aphid (*Acyrtosiphon pisum*)

Current totals		12/05-18/05	Pea aphid	Compared to last week	Accumulated up to 18/05		
2014	2013	04-13			2014	2013	04-13
0	0	0	Dundee		0	0	0
0	0	0	Gogarbank (Edinburgh)		0	0	0
0	0	0	Newcastle		0	0	0
*2	0	0	Preston	↑	2	0	0
1	0	1	Kirton	↑	1	0	3
8	0	0	Broom's Barn (nr Bury St Edmunds)	↑	10	0	4
*2	/	/	Wellesbourne	↑	4	/	/
1	0	1	Hereford	↑	1	0	4
6	0	1	Rothamsted (Harpenden)	↑	8	0	6
4	0	1	Writtle	↑	5	0	7
*2	0	2	Silwood Park (nr Ascot)	↑	7	0	6
*2	0	1	Wye	↑	5	0	4
*2	0	3	Starcross (nr Exeter)	↑	2	0	12

The pea aphid was caught at ten sites this week, four of which were first arrivals.



### Further information

[www.hgca.com/pests](http://www.hgca.com/pests)

[Rothamsted Insect Survey](#)

[www.potato.org.uk/online-toolbox/aphid-monitoring](http://www.potato.org.uk/online-toolbox/aphid-monitoring)

[HDC pest bulletin](#)

### Please send information on crop aphids to

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