

## 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 not very suitable for aphid flight this week so not many were caught in the traps. However, the weather will not have caused significant mortality in the field and the return to favourable conditions will mean that those already in crops will be multiplying fast and more will be flying in. Natural enemies will have plenty to feed on and this may lead to a strong second generation capable of keeping aphid populations in check later in the year. Interactions between weather, crops, aphids and natural enemies are complex, though, and this optimistic outlook will need constant review.

### WINTER CEREALS

Numbers flying are currently low. 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 if these continue to build in number.

### 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 East Anglia and the South East.

The potato aphid (*Macrosiphum euphorbiae*) and glasshouse-potato aphid have been caught as far north as Elgin.

Various other vectors of PVY and PVA are flying, for example willow-carrot aphid (*Cavariella aegopodii*) and leaf-curling plum aphid (*Brachycaudus helichrysi*). 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

No further mealy cabbage aphids have been caught in the traps this week but many will have made it through the mild winter on the crop. The threshold for control is >13% plants infested before petal fall.

### SPRING OILSEED RAPE

No further mealy cabbage aphids have been caught in the traps this week. The threshold for control is >4% plants infested before petal fall.

### FIELD BRASSICAS

Peach-potato aphid is flying earlier and in larger numbers than usual. No further mealy cabbage aphids have been caught in the traps this week.

### CARROTS

Willow-carrot aphid is flying throughout England.

### PEAS

Just two pea aphids were caught in the traps this week – in Elgin!

# SUCTION-TRAPPING RESULTS



The information below relates to suction-trap samples collected during Bulletin Week 6: 5/5-11/5.

- Aphid flight activity decreased temporarily this week because of a period of adverse weather, but is sure to be picking up soon. This is still looking like an early, large start to the aphid season.
- Numbers of the main cereal aphids are low, with field reports of low numbers of grain aphid in wheat crops in Norfolk, and on volunteer cereals within other crops.
- The peach–potato aphid (*Myzus persicae*) was caught at five sites. Field reports of this species on untreated sugar beet and on baby leaf brassicas were received from eastern England.
- Two potato aphids (*Macrosiphum euphorbiae*) were caught, including a first arrival at Preston.
- Two pea aphids (*Acyrtosiphon pisum*) were caught at Elgin but none elsewhere this week.
- No cabbage aphids (*Brevicoryne brassicae*) were found in our UK traps this week, but a field report from eastern England of large numbers on game cover kale was received.
- The willow–carrot aphid (*Cavariella aegopodii*) was caught at six sites in low numbers.

## Suction-trap sites

The tables below show species of importance which have appeared for the first time at specific sites, together with forecast dates where available, their time of first arrival last year, and the average time of their first arrival over the last ten years.

## Rose–grain aphid (*Metopolophium dirhodum*)

Rose–grain aphid	FIRST ARRIVALS			
	2014	forecast	2013	04-13
D= Dundee	0	24/5	Na	24/5
G= Edinburgh	28/4	15/5	29/5	21/5
N= Newcastle	0	22/5	21/6	24/5
P = Preston	3-9/3	11/5	17/5	27/4
K = Kirton	30/4	25/4	3/6	14/5
BB = nr Bury St Edmunds	24/4	23/4	9/6	6/5
We = Wellesbourne	0	Na	10/6	29/4
H = Hereford	0	7/5	30/5	14/5
RT = Harpenden	24/4	24/4	16/5	8/5
WR = Writtle	17-21/4	1/4	9/6	29/4
SP = nr Ascot	24/4	12/4	5/6	23/4
W = Wye	1/5	7/4	10/6	3/5
SX = nr Exeter	17-23/2	17/3	16/5	27/3

Single rose–grain aphids were caught at four sites this week.

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

Bird cherry–oat aphid	FIRST ARRIVALS			
	2014	forecast	2013	04-13
D= Dundee	0	18/5	15/6	19/5
G= Edinburgh	0	10/5	19/5	10/5
N= Newcastle	0	14/5	8/6	12/5
P = Preston	10/4	8/5	29/5	5/5
K = Kirton	16/4	25/3	22/5	13/4
BB = nr Bury St Edmunds	13/4	11/4	16/5	23/4
We = Wellesbourne	0	Na	15/4	11/4
H = Hereford	10/4	6/4	29/5	13/3
RT = Harpenden	24/4	19/4	6/5	28/4
WR = Writtle	13-19/1	4/4	27/5	19/4
SP = nr Ascot	28/4	11/4	16/5	24/4
W = Wye	8/4	27/3	26/5	8/4
SX = nr Exeter	10-16/3	7/3	25/5	4/3

The bird cherry–oat aphid was caught at five sites this week in low numbers.

### Grain aphid (*Sitobion avenae*)

Grain aphid	FIRST ARRIVALS			
	2014	forecast	2013	04-13
D= Dundee	0	26/5	4/6	30/5
G= Edinburgh	0	16/5	20/5	22/5
N= Newcastle	0	20/5	10/7	1/6
P = Preston	23/4	21/5	7/6	17/5
K = Kirton	0	23/4	10/6	17/5
BB = nr Bury St Edmunds	24/4	22/4	14/5	13/5
We = Wellesbourne	31/3	Na	9/6	16/4
H = Hereford	0	26/4	5/6	16/5
RT = Harpenden	16/4	23/4	19/6	19/5
WR = Writtle	9/4	10/4	16/6	30/4
SP = nr Ascot	28/4	27/4	31/5	4/5
W = Wye	14/4	15/4	13/6	20/5
SX = nr Exeter	18/4	3/4	29/5	12/4

Single grain aphids were caught at two sites this week.

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

Peach–potato aphid	FIRST ARRIVALS			
	2014	forecast	2013	04-13
D= Dundee	0	1/6	7/7	11/6
G= Edinburgh	0	27/5	20/7	20/6
N= Newcastle	0	31/5	22/7	14/6
P = Preston	16/4	20/5	18/6	27/5
K = Kirton	17-23/3	27/4	16/6	16/5
BB = nr Bury St Edmunds	9/4	18/4	16/6	13/5
We = Wellesbourne	29/4	Na	21/6	24/4
H = Hereford	0	1/5	1/7	24/5
RT = Harpenden	29/4	15/4	20/6	20/5
WR = Writtle	17-21/4	4/4	14/6	2/5
SP = nr Ascot	29/4	28/4	19/6	10/5
W = Wye	24-30/3	10/4	14/6	26/4
SX = nr Exeter	31/3	7/4	2/6	20/4

The peach–potato aphid was caught at five sites this week, with minor hotspots at Broom’s Barn (5) and Writtle (8).

### Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid	FIRST ARRIVALS			
	2014	forecast	2013	04-13
D= Dundee	0	17/5	18/6	28/5
G= Edinburgh	29/4	8/5	5/6	19/5
N= Newcastle	0	22/5	12/6	31/5
P = Preston	10/5	22/5	5/6	17/5
K = Kirton	11/4	24/4	21/6	20/5
BB = nr Bury St Edmunds	1/4	27/4	16/6	17/5
We = Wellesbourne	0	Na	31/5	9/5
H = Hereford	18/4	27/4	19/6	13/5
RT = Harpenden	11/4	29/4	16/5	14/5
WR = Writtle	24/4	8/4	27/5	30/4
SP = nr Ascot	29/4	22/4	18/5	5/5
W = Wye	27/4	27/4	29/6	16/5
SX = nr Exeter	0	16/4	25/5	30/4

Single potato aphids were caught at two sites this week, including a first arrival at Preston a week earlier than the 10-year mean.

### Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid	FIRST ARRIVALS			
	2014	forecast	2013	04-13
D= Dundee	0	7/7	Na	7/7
G= Edinburgh	0	17/6	Na	14/6
N= Newcastle	0	24/6	7/8	30/6
P = Preston	0	2/7	Na	30/5
K = Kirton	0	4/5	24/7	7/6
BB = nr Bury St Edmunds	0	10/5	27/6	31/5
We = Wellesbourne	0	Na	1/7	19/5
H = Hereford	0	12/5	11/7	1/6
RT = Harpenden	0	4/5	6/7	31/5
WR = Writtle	0	21/4	19/6	25/5
SP = nr Ascot	0	18/5	Na	22/5
W = Wye	23/4	27/4	25/6	3/6
SX = nr Exeter	29/4	21/4	3/6	2/5

No cabbage aphids (*Brevicoryne brassicae*) were caught in our UK traps this week.

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

Willow-carrot aphid	FIRST ARRIVALS		
	2014	2013	04-13
D= Dundee	0	16/6	23/5
G= Edinburgh	0	16/6	9/5
N= Newcastle	0	12/6	20/5
P = Preston	29/4	26/5	10/5
K = Kirton	1/5	26/5	4/5
BB = nr Bury St Edmunds	24/4	18/5	1/5
We = Wellesbourne	24/4	22/5	3/5
H = Hereford	1-4/5	4/1	27/4
RT = Harpenden	24/4	28/5	2/5
WR = Writtle	28/4	19/5	28/4
SP = nr Ascot	27/4	20/4	29/4
W = Wye	24/4	25/5	2/5
SX = nr Exeter	5/4	21/5	29/4

The willow-carrot aphid was caught at six sites this week in low numbers.

## Pea aphid (*Acyrtosiphon pisum*)

Pea aphid	FIRST ARRIVALS		
	2014	2013	04-13
D= Dundee	0	Na	13/6
G= Edinburgh	0	17/6	1/6
N= Newcastle	0	24/6	14/6
P = Preston	0	29/6	30/5
K = Kirton	0	5/7	24/5
BB = nr Bury St Edmunds	29/4	26/6	18/5
We = Wellesbourne	21/4	18/6	7/5
H = Hereford	0	18/6	11/5
RT = Harpenden	24/4	14/6	18/5
WR = Writtle	23/4	14/6	6/5
SP = nr Ascot	28/4	20/6	6/5
W = Wye	14/4	19/6	12/5
SX = nr Exeter	0	29/5	9/5

Two pea aphids were caught at our Elgin trap this week (not shown in the above tables) but none elsewhere.



### Further information

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

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

[Rothamsted Insect Survey](#)

[HDC pest bulletin](#)

### Please send information on crop aphids to

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