

AHDB Aphid News

Suction-trap period 13 May – 19 May 2019

General

- Average air temperatures have once again exceeded the long-term average across Britain this bulletin week. The total number of aphids reported has increased considerably by around 360%. Many first flights have also continued to be recorded.
- Cereal aphid numbers have increased by around 280% compared to last week. All three species reached double figures in some traps. The thresholds to justify insecticide sprays for direct feeding damage is for 50% of tillers to be infested before GS61. Testing of cereal aphids from bulletin week no. 7 from five English suction-traps shows that around 3% are carrying BYDV.
- Peach–potato aphid numbers have increased across much of England.
- Potato aphid numbers have also increased at nine sites.
- Cabbage aphid numbers remain in single figures but increased at four sites.
- Currant-lettuce aphids were recorded from Dundee and Rothamsted.
- Willow–carrot aphid numbers have increased by around 560% across Britain this week, reaching three figures at York and Preston.
- Pea aphids remain in single figures but have increasing at six sites. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested.
- Black bean aphids were recorded in single figures and increasing at five sites. The threshold for black bean aphid in field and broad beans is 10% colonisation.

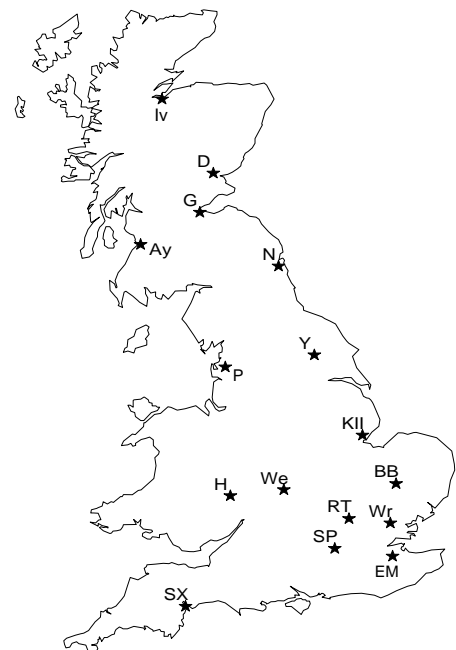
Monitoring crops is advised.

Suction-trap locations

AHDB Aphid News is based on information on aphid species and numbers from the Rothamsted Research/SASA suction-trap (ST) network. The traps are located at:

Inverness (Iv), Dundee (D), Gogarbank (G), Ayr (Ay), Newcastle (N), Preston (P), York (Y), Kirton (K), Broom's Barn (BB), Wellesbourne (We), Hereford (H), Rothamsted Tower (RT), Writtle (Wr), Silwood Park (SP), East Malling* (EM) and Starcross (SX).

* The East Malling (EM) trap will start operating during 2019.



Suction-trap data

'*' indicates where totals have been corrected proportionally to seven days, fewer days' samples having been processed, '#' indicates the first occurrence of this aphid species this year and **0 = none so far this year**.

Red text indicates an increase (↑) and blue text indicates a decrease (↓) in aphid numbers compared to last week. "/" indicates that we have no data from this trap.

| Rose-grain aphid (<i>Metopolophium dirhodum</i>) | Bulletin Week Totals | | | Accumulated until | | |
|---|----------------------|------|----------------------------|-------------------|------|----------------------------|
| | 2019 | 2018 | 10-year average 2009-18 | 2019 | 2018 | 10-year average 2009-18 |
| Dundee | 0 | 1 | 0 | 1 | 1 | 1 |
| Gogarbank (Edinburgh) | 1 | 0 | 1 | 8 | 0 | 1 |
| Newcastle | 1 # | 0 | 0 | 1 | 0 | 0 |
| York | 1 # | 0 | | 1 | 0 | |
| Preston | *11 | 0 | 1 | 19 | 1 | 3 |
| Kirton | 3 | 0 | 1 | 7 | 0 | 2 |
| Broom's Barn (Bury St Edmunds) | 3 | 0 | 0 | 6 | 0 | 2 |
| Wellesbourne | 19 # | 0 | 0 | 19 | 0 | 2 |
| Hereford | *4 # | 1 | 1 | 4 | 1 | 1 |
| Rothamsted (Harpenden) | 8 # | 1 | 1 | 8 | 1 | 2 |
| Writtle | 0 | 0 | 1 | 1 | 1 | 2 |
| Silwood Park (nr Ascot) | *8 | 1 | 2 | 18 | 1 | 4 |
| East Malling | / | | | 0 | | |
| Starcross (nr Exeter) | 7 | 4 | 8 | 11 | 8 | 11 |

| Bird cherry-oat aphid (<i>Rhopalosiphum padi</i>) | Bulletin Week Totals | | | Accumulated until | | |
|--|----------------------|------|----------------------------|-------------------|------|----------------------------|
| | 2019 | 2018 | 10-year average 2009-18 | 2019 | 2018 | 10-year average 2009-18 |
| Dundee | 6 | 0 | 1 | 11 | 0 | 1 |
| Gogarbank (Edinburgh) | 4 | 0 | 0 | 5 | 1 | 1 |
| Newcastle | 0 | 0 | 1 | 0 | 0 | 2 |
| York | 11 | 12 | | 17 | 12 | |
| Preston | *6 | 1 | 6 | 24 | 1 | 9 |
| Kirton | 4 | 5 | 3 | 17 | 6 | 8 |
| Broom's Barn (Bury St Edmunds) | 7 | 0 | 14 | 31 | 1 | 18 |
| Wellesbourne | 9 | 4 | 4 | 24 | 4 | 9 |
| Hereford | *6 | 4 | 3 | 16 | 6 | 7 |
| Rothamsted (Harpenden) | 17 | 5 | 8 | 42 | 5 | 11 |
| Writtle | 1 | 1 | 11 | 34 | 6 | 17 |
| Silwood Park (nr Ascot) | *14 | 8 | 21 | 51 | 11 | 32 |
| East Malling | / | | | 0 | | |
| Starcross (nr Exeter) | 13 | 2 | 29 | 47 | 3 | 44 |

| Grain aphid (<i>Sitobion avenae</i>) | Bulletin Week Totals | | | Accumulated until | | |
|---|----------------------|------|----------------------------|-------------------|------|----------------------------|
| | 2019 | 2018 | 10-year average 2009-18 | 2019 | 2018 | 10-year average 2009-18 |
| Dundee | 0 | 0 | 0 | 0 | 0 | 0 |
| Gogarbank (Edinburgh) | 4 | 0 | 0 | 6 | 0 | 0 |
| Newcastle | 1 # | 0 | 0 | 1 | 0 | 0 |
| York | 1 | 0 | | 3 | 0 | |
| Preston | *13 | 0 | 2 | 19 | 0 | 3 |
| Kirton | 2 | 0 | 1 | 3 | 0 | 1 |
| Broom's Barn (Bury St Edmunds) | 7 | 1 | 1 | 9 | 1 | 2 |
| Wellesbourne | 3 | 0 | 2 | 4 | 0 | 4 |
| Hereford | *1 | 0 | 1 | 3 | 0 | 2 |
| Rothamsted (Harpenden) | 0 | 1 | 1 | 2 | 1 | 2 |
| Writtle | 1 | 1 | 1 | 3 | 2 | 2 |
| Silwood Park (nr Ascot) | *5 | 0 | 3 | 9 | 0 | 5 |
| East Malling | / | | | 0 | | |
| Starcross (nr Exeter) | 3 | 1 | 6 | 9 | 1 | 10 |

| peach-potato aphid (<i>Myzus persicae</i>) | Bulletin Week Totals | | | Accumulated until | | |
|---|----------------------|------|----------------------------|-------------------|------|----------------------------|
| | 2019 | 2018 | 10-year average 2009-18 | 2019 | 2018 | 10-year average 2009-18 |
| Dundee | 0 | 0 | 0 | 2 | 0 | 0 |
| Gogarbank (Edinburgh) | 0 | 0 | 0 | 0 | 0 | 0 |
| Newcastle | 1 # | 0 | 0 | 1 | 0 | 0 |
| York | 9 | 1 | | 17 | 1 | |
| Preston | *1 # | 0 | 0 | 1 | 0 | 0 |
| Kirton | 0 | 0 | 1 | 4 | 0 | 2 |
| Broom's Barn (Bury St Edmunds) | 74 | 0 | 3 | 138 | 0 | 8 |
| Wellesbourne | 18 | 0 | 7 | 34 | 0 | 17 |
| Hereford | *15 | 0 | 2 | 19 | 0 | 2 |
| Rothamsted (Harpenden) | 26 | 1 | 2 | 44 | 2 | 4 |
| Writtle | 2 | 2 | 3 | 41 | 2 | 5 |
| Silwood Park (nr Ascot) | *12 | 1 | 2 | 25 | 1 | 4 |
| East Malling | / | | | 0 | | |
| Starcross (nr Exeter) | 5 | 1 | 9 | 9 | 1 | 13 |

| Potato aphid (<i>Macrosiphum euphorbiae</i>) | Bulletin Week Totals | | | Accumulated until | | |
|---|----------------------|------|----------------------------|-------------------|------|----------------------------|
| | 2019 | 2018 | 10-year average 2009-18 | 2019 | 2018 | 10-year average 2009-18 |
| Dundee | 1 | 0 | 0 | 2 | 0 | 0 |
| Gogarbank (Edinburgh) | 2 | 0 | 0 | 5 | 0 | 0 |
| Newcastle | 3 # | 1 | 0 | 3 | 1 | 0 |
| York | 1 # | 0 | | 1 | 0 | |
| Preston | *9 | 0 | 1 | 15 | 0 | 1 |
| Kirton | 1 | 1 | 1 | 2 | 1 | 2 |
| Broom's Barn (Bury St Edmunds) | 3 | 0 | 0 | 10 | 0 | 1 |
| Wellesbourne | 5 | 0 | 1 | 12 | 0 | 1 |
| Hereford | *6 | 0 | 1 | 10 | 0 | 1 |
| Rothamsted (Harpenden) | 7 | 0 | 0 | 8 | 0 | 1 |
| Writtle | 0 | 0 | 1 | 11 | 1 | 3 |
| Silwood Park (nr Ascot) | *6 | 0 | 2 | 18 | 0 | 4 |
| East Malling | / | | | 0 | | |
| Starcross (nr Exeter) | 5 | 1 | 2 | 12 | 3 | 3 |

| Cabbage aphid (<i>Brevicoryne brassicae</i>) | Bulletin Week Totals | | | Accumulated until | | |
|---|----------------------|------|----------------------------|-------------------|------|----------------------------|
| | 2019 | 2018 | 10-year average 2009-18 | 2019 | 2018 | 10-year average 2009-18 |
| Dundee | 0 | 0 | 0 | 0 | 0 | 0 |
| Gogarbank (Edinburgh) | 0 | 0 | 0 | 0 | 0 | 0 |
| Newcastle | 0 | 0 | 0 | 0 | 0 | 0 |
| York | 0 | 0 | | 0 | 0 | |
| Preston | *1 # | 0 | 0 | 1 | 0 | 0 |
| Kirton | 0 | 0 | 0 | 2 | 0 | 0 |
| Broom's Barn (Bury St Edmunds) | 0 | 0 | 0 | 3 | 0 | 0 |
| Wellesbourne | 6 | 0 | 4 | 7 | 0 | 9 |
| Hereford | *4 # | 0 | 0 | 4 | 0 | 0 |
| Rothamsted (Harpenden) | 3 # | 0 | 0 | 3 | 0 | 0 |
| Writtle | 0 | 0 | 0 | 6 | 0 | 0 |
| Silwood Park (nr Ascot) | *0 | 0 | 1 | 1 | 0 | 1 |
| East Malling | / | | | 0 | | |
| Starcross (nr Exeter) | 0 | 0 | 3 | 1 | 0 | 3 |

| Willow-carrot aphid (<i>Cavariella aegopodii</i>) | Bulletin Week Totals | | | Accumulated until | | |
|--|----------------------|------|----------------------------|-------------------|------|----------------------------|
| | 2019 | 2018 | 10-year average 2009-18 | 2019 | 2018 | 10-year average 2009-18 |
| Dundee | 14 | 0 | 0 | 16 | 0 | 0 |
| Gogarbank (Edinburgh) | 52 | 0 | 1 | 59 | 0 | 1 |
| Newcastle | 0 | 0 | 1 | 0 | 0 | 1 |
| York | 154 | 7 | | 164 | 8 | |
| Preston | *163 | 4 | 18 | 224 | 4 | 22 |
| Kirton | 16 | 12 | 40 | 22 | 13 | 46 |
| Broom's Barn (Bury St Edmunds) | 15 | 19 | 34 | 21 | 19 | 43 |
| Wellesbourne | 85 | 4 | 7 | 98 | 4 | 12 |
| Hereford | *75 | 1 | 5 | 83 | 1 | 5 |
| Rothamsted (Harpenden) | 19 | 3 | 9 | 23 | 3 | 13 |
| Writtle | 10 | 7 | 14 | 20 | 9 | 19 |
| Silwood Park (nr Ascot) | *23 | 7 | 45 | 54 | 8 | 54 |
| East Malling | / | | | 0 | | |
| Starcross (nr Exeter) | 22 | 3 | 13 | 62 | 4 | 18 |

| Pea aphid (<i>Acyrtosiphon pisum</i>) | Bulletin Week Totals | | | Accumulated until | | |
|--|----------------------|------|----------------------------|-------------------|------|----------------------------|
| | 2019 | 2018 | 10-year average 2009-18 | 2019 | 2018 | 10-year average 2009-18 |
| Dundee | 0 | 0 | 0 | 1 | 0 | 0 |
| Gogarbank (Edinburgh) | 0 | 0 | 0 | 0 | 0 | 0 |
| Newcastle | 1 | 0 | 0 | 2 | 0 | 0 |
| York | 0 | 0 | | 1 | 0 | |
| Preston | *0 | 0 | 0 | 2 | 0 | 1 |
| Kirton | 1 | 1 | 0 | 6 | 1 | 0 |
| Broom's Barn (Bury St Edmunds) | 6 | 0 | 0 | 11 | 0 | 1 |
| Wellesbourne | 6 | 0 | 2 | 11 | 0 | 3 |
| Hereford | *0 | 1 | 3 | 0 | 1 | 4 |
| Rothamsted (Harpenden) | 4 | 0 | 3 | 10 | 0 | 3 |
| Writtle | 0 | 0 | 1 | 12 | 0 | 2 |
| Silwood Park (nr Ascot) | *9 | 0 | 2 | 20 | 0 | 4 |
| East Malling | / | | | 0 | | |
| Starcross (nr Exeter) | 3 | 0 | 2 | 5 | 0 | 3 |

| Black bean aphid (<i>Aphis fabae</i>) | Bulletin Week Totals | | | Accumulated until | | |
|--|----------------------|------|----------------------------|-------------------|------|----------------------------|
| | 2019 | 2018 | 10-year average 2009-18 | 2019 | 2018 | 10-year average 2009-18 |
| Dundee | 0 | 0 | 0 | 2 | 0 | 0 |
| Gogarbank (Edinburgh) | 2 | 0 | 0 | 4 | 0 | 0 |
| Newcastle | 0 | 0 | 0 | 0 | 0 | 0 |
| York | 0 | 0 | | 0 | 0 | |
| Preston | *0 | 0 | 0 | 0 | 0 | 0 |
| Kirton | 0 | 0 | 0 | 0 | 0 | 0 |
| Broom's Barn (Bury St Edmunds) | 2 | 3 | 1 | 6 | 3 | 1 |
| Wellesbourne | 3 | 0 | 0 | 5 | 0 | 0 |
| Hereford | *1 | 0 | 0 | 3 | 0 | 0 |
| Rothamsted (Harpenden) | 4 | 0 | 0 | 6 | 0 | 0 |
| Writtle | 1 | 0 | 1 | 13 | 0 | 1 |
| Silwood Park (nr Ascot) | *2 | 0 | 1 | 25 | 0 | 1 |
| East Malling | / | | | 0 | | |
| Starcross (nr Exeter) | 2 | 0 | 1 | 3 | 0 | 1 |

Further information

Please send information on crop aphids to: alex.greenslade@rothamsted.ac.uk

insectsurvey.com

ahdb.org.uk/aphid-news

In partnership with



AHDB
Stoneleigh Park
Kenilworth
Warwickshire
CV8 2TL

T 024 7 669 2051
E info@ahdb.org.uk
W ahdb.org.uk
@TheAHDB

© Agriculture and Horticulture Development Board 2019. All rights reserved.