

# AHDB Aphid News

Trap period 08 June – 14 June 2020

## General

In response to the Covid-19 pandemic; the Rothamsted Insect Survey is at this time operating at reduced capacity. The team will process as many samples as possible to produce weekly results, but substantial disruption to the normal reporting service is expected. Some of the suction-trap network is still operating on a weekly trapping regime.

- Due to technical difficulties relating to the current situation, 10-year average data will be displayed on the data tables below and on the Rothamsted Insect Survey website from 2009 – 2018. The data from Scottish sites can also not be displayed this reporting period due to technical issues.
- Due the substantial gap in available data from Preston first arrival data are unreliable and is therefore not later referred to.
- Average air temperatures have once again risen above the long-term average during this period. The total number of aphids recorded across available sites appear to have generally increased compared to the previous reporting period. There were two first arrivals recorded from York.
- Cereal aphid numbers have generally increased. With some declines of Bird cherry-oat aphid in the south and north of England being offset by increases of Rose-grain aphid and Grain aphid to double figures in many cases.
- The thresholds to justify insecticide sprays for direct feeding damage is for 50% of tillers to be infested before GS61.
- Peach-potato aphid numbers appear to have declined across England, aside from three figure hotspots at York and Wellesbourne.
- Potato aphid conversely increased over most of the available sites compared to the last reporting period aside from the southernmost traps.
- Cabbage aphid was recorded in three figures from Wellesbourne and Rothamsted with a hotspot at Broom's Barn.
- Willow-carrot aphid has shown a pronounced north south contrast this reporting period with Wellesbourne to York reaching three figures but with sites further south remaining in double figures and declining.
- Pea aphid reached double figures from Wellesbourne. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested.
- There was a hotspot for Black bean aphid at Starcross. The threshold for Black bean aphid in field and broad beans is 10% plant colonisation.
- For those interested in suction-trap data for prior periods, the tables on the insect survey website: [insectsurvey.com/aphid-bulletin](https://insectsurvey.com/aphid-bulletin)

**Cereal and OSR crops are potentially at risk, crop inspections are advised.**

## 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.

Only tables for species reported upon that have been recorded so far this year are displayed.

| Rose-grain aphid<br>( <i>Metopolophium dirhodum</i> ) | Bulletin Week Totals |      |                            | Accumulated until |      |                            |
|---|----------------------|------|----------------------------|-------------------|------|----------------------------|
|   | 2020                 | 2018 | 10-year average<br>2009-18 | 2020              | 2018 | 10-year average<br>2009-18 |
| Dundee  | /                    | 2    | 2                          | 0                 | 4    | 8                          |
| Gogarbank (Edinburgh)                                 | /                    | 0    | 7                          | 1                 | 2    | 40                         |
| Newcastle   | /                    | 0    | 2                          | 0                 | 2    | 7                          |
| York  | 15 #                 | 5    |                            | 15                | 5    |                            |
| Preston   | 6                    | 2    | 38                         | 20                | 8    | 80                         |
| Kirton  | 16                   | 4    | 39                         | 31                | 7    | 63                         |
| Broom's Barn (Bury St Edmunds)                        | *15                  | 8    | 37                         | 33                | 11   | 91                         |
| Wellesbourne  | *35                  | 4    | 16                         | 57                | 22   | 39                         |
| Hereford  | /                    | 3    | 21                         | 0                 | 26   | 45                         |
| Rothamsted (Harpenden)                                | 13                   | 4    | 24                         | 32                | 18   | 47                         |
| Writtle   | /                    | 5    | 34                         | 4                 | 19   | 63                         |
| Silwood Park (nr Ascot)                               | /                    | 3    | 17                         | 24                | 11   | 37                         |
| East Malling  | 6                    |      |                            | 22                |      |                            |
| Starcross (nr Exeter)                                 | 7                    | 13   | 66                         | 45                | 50   | 153                        |

| Bird cherry-oat aphid<br>( <i>Rhopalosiphum padi</i> ) | Bulletin Week Totals |      |                            | Accumulated until |      |                            |
|--|----------------------|------|----------------------------|-------------------|------|----------------------------|
|  | 2020                 | 2018 | 10-year average<br>2009-18 | 2020              | 2018 | 10-year average<br>2009-18 |
| Dundee   | /                    | 4    | 19                         | 9                 | 58   | 40                         |
| Gogarbank (Edinburgh)                                  | /                    | 0    | 10                         | 0                 | 52   | 36                         |
| Newcastle  | /                    | 1    | 13                         | 0                 | 21   | 33                         |
| York   | 10                   | 4    |                            | 24                | 31   |                            |
| Preston  | 21                   | 1    | 19                         | 49                | 9    | 103                        |
| Kirton   | 14                   | 1    | 109                        | 85                | 22   | 190                        |
| Broom's Barn (Bury St Edmunds)                         | *12                  | 4    | 39                         | 90                | 31   | 161                        |
| Wellesbourne   | *21                  | 1    | 14                         | 73                | 20   | 95                         |
| Hereford   | /                    | 1    | 11                         | 0                 | 14   | 50                         |
| Rothamsted (Harpenden)                                 | 9                    | 1    | 12                         | 41                | 24   | 63                         |
| Writtle  | /                    | 3    | 17                         | 13                | 24   | 99                         |
| Silwood Park (nr Ascot)                                | /                    | 5    | 18                         | 45                | 45   | 111                        |
| East Malling   | 14                   |      |                            | 162               |      |                            |
| Starcross (nr Exeter)                                  | 20                   | 48   | 23                         | 458               | 159  | 140                        |

| Grain aphid<br>( <i>Sitobion avenae</i> ) | Bulletin Week Totals |      |                         | 08/06-14/06 |      |                         | Accumulated until |      |                         | 14/06 |
|---|----------------------|------|-------------------------|-------------|------|-------------------------|-------------------|------|-------------------------|-------|
|   | 2020                 | 2018 | 10-year average 2009-18 | 2020        | 2018 | 10-year average 2009-18 | 2020              | 2018 | 10-year average 2009-18 |       |
| Dundee                                    | /                    | 1    | 1                       | 2           | 2    | 5                       |                   |      |                         |       |
| Gogarbank (Edinburgh)                     | /                    | 1    | 4                       | 0           | 10   | 16                      |                   |      |                         |       |
| Newcastle                                 | /                    | 0    | 1                       | 0           | 1    | 4                       |                   |      |                         |       |
| York                                      | 13                   | 1    |                         | 15          | 4    |                         |                   |      |                         |       |
| Preston                                   | 19                   | 2    | 5                       | 20          | 9    | 38                      |                   |      |                         |       |
| Kirton                                    | 12                   | 1    | 3                       | 26          | 8    | 11                      |                   |      |                         |       |
| Broom's Barn (Bury St Edmunds)            | *15                  | 3    | 5                       | 20          | 6    | 13                      |                   |      |                         |       |
| Wellesbourne                              | *7                   | 0    | 4                       | 20          | 7    | 23                      |                   |      |                         |       |
| Hereford                                  | /                    | 1    | 4                       | 0           | 9    | 15                      |                   |      |                         |       |
| Rothamsted (Harpenden)                    | 7                    | 1    | 5                       | 10          | 7    | 13                      |                   |      |                         |       |
| Writtle                                   | /                    | 0    | 6                       | 5           | 8    | 13                      |                   |      |                         |       |
| Silwood Park (nr Ascot)                   | /                    | 4    | 11                      | 22          | 9    | 24                      |                   |      |                         |       |
| East Malling                              | 26                   |      |                         | 52          |      |                         |                   |      |                         |       |
| Starcross (nr Exeter)                     | 15                   | 3    | 11                      | 51          | 12   | 34                      |                   |      |                         |       |

| Peach-potato aphid<br>( <i>Myzus persicae</i> ) | Bulletin Week Totals |      |                         | 08/06-14/06 |      |                         | Accumulated until |      |                         | 14/06 |
|---|----------------------|------|-------------------------|-------------|------|-------------------------|-------------------|------|-------------------------|-------|
|   | 2020                 | 2018 | 10-year average 2009-18 | 2020        | 2018 | 10-year average 2009-18 | 2020              | 2018 | 10-year average 2009-18 |       |
| Dundee  | /                    | 1    | 2                       | 0           | 1    | 4                       |                   |      |                         |       |
| Gogarbank (Edinburgh)                           | /                    | 0    | 1                       | 0           | 0    | 5                       |                   |      |                         |       |
| Newcastle                                       | /                    | 0    | 3                       | 0           | 0    | 5                       |                   |      |                         |       |
| York  | 267                  | 4    |                         | 306         | 7    |                         |                   |      |                         |       |
| Preston   | 93                   | 2    | 13                      | 194         | 2    | 19                      |                   |      |                         |       |
| Kirton  | 25                   | 9    | 41                      | 674         | 13   | 83                      |                   |      |                         |       |
| Broom's Barn (Bury St Edmunds)                  | *56                  | 53   | 92                      | 4157        | 78   | 340                     |                   |      |                         |       |
| Wellesbourne                                    | *522                 | 26   | 215                     | 1105        | 99   | 516                     |                   |      |                         |       |
| Hereford  | /                    | 10   | 47                      | 0           | 40   | 121                     |                   |      |                         |       |
| Rothamsted (Harpenden)                          | 63                   | 12   | 43                      | 822         | 35   | 124                     |                   |      |                         |       |
| Writtle   | /                    | 46   | 89                      | 320         | 120  | 227                     |                   |      |                         |       |
| Silwood Park (nr Ascot)                         | /                    | 1    | 11                      | 195         | 20   | 39                      |                   |      |                         |       |
| East Malling                                    | 121                  |      |                         | 639         |      |                         |                   |      |                         |       |
| Starcross (nr Exeter)                           | 15                   | 29   | 17                      | 219         | 55   | 62                      |                   |      |                         |       |

| Potato aphid<br><i>(Macrosiphum euphorbiae)</i> | Bulletin Week Totals |      |                            | Accumulated until |      |                            |
|---|----------------------|------|----------------------------|-------------------|------|----------------------------|
|   | 2020                 | 2018 | 10-year average<br>2009-18 | 2020              | 2018 | 10-year average<br>2009-18 |
| Dundee  | /                    | 1    | 1                          | 4                 | 7    | 6                          |
| Gogarbank (Edinburgh)                           | /                    | 2    | 4                          | 0                 | 18   | 19                         |
| Newcastle                                       | /                    | 0    | 0                          | 0                 | 2    | 6                          |
| York  | 4                    | 0    |                            | 5                 | 1    |                            |
| Preston   | 9 #                  | 4    | 3                          | 9                 | 9    | 16                         |
| Kirton  | 16                   | 2    | 4                          | 51                | 5    | 15                         |
| Broom's Barn (Bury St Edmunds)                  | *16                  | 0    | 2                          | 43                | 2    | 8                          |
| Wellesbourne                                    | *21                  | 0    | 4                          | 48                | 3    | 20                         |
| Hereford  | /                    | 0    | 7                          | 1                 | 3    | 25                         |
| Rothamsted (Harpenden)                          | 13                   | 0    | 3                          | 35                | 3    | 9                          |
| Writtle   | /                    | 0    | 5                          | 16                | 12   | 21                         |
| Silwood Park (nr Ascot)                         | /                    | 0    | 2                          | 27                | 5    | 12                         |
| East Malling                                    | 10                   |      |                            | 80                |      |                            |
| Starcross (nr Exeter)                           | 19                   | 8    | 5                          | 74                | 38   | 21                         |

| Cabbage aphid<br><i>(Brevicoryne brassicae)</i> | Bulletin Week Totals |      |                            | Accumulated until |      |                            |
|---|----------------------|------|----------------------------|-------------------|------|----------------------------|
|   | 2020                 | 2018 | 10-year average<br>2009-18 | 2020              | 2018 | 10-year average<br>2009-18 |
| Dundee  | /                    | 0    | 0                          | 0                 | 0    | 1                          |
| Gogarbank (Edinburgh)                           | /                    | 0    | 0                          | 0                 | 0    | 3                          |
| Newcastle                                       | /                    | 0    | 0                          | 0                 | 0    | 1                          |
| York  | 1 #                  | 0    |                            | 1                 | 1    |                            |
| Preston   | 1 #                  | 0    | 1                          | 1                 | 1    | 16                         |
| Kirton  | 24                   | 2    | 3                          | 133               | 3    | 14                         |
| Broom's Barn (Bury St Edmunds)                  | *439                 | 1    | 3                          | 1109              | 3    | 20                         |
| Wellesbourne                                    | *144                 | 1    | 135                        | 568               | 1    | 323                        |
| Hereford  | /                    | 2    | 21                         | 0                 | 17   | 123                        |
| Rothamsted (Harpenden)                          | 124                  | 1    | 1                          | 454               | 2    | 5                          |
| Writtle   | /                    | 8    | 11                         | 345               | 119  | 34                         |
| Silwood Park (nr Ascot)                         | /                    | 0    | 2                          | 50                | 3    | 15                         |
| East Malling                                    | 60                   |      |                            | 216               |      |                            |
| Starcross (nr Exeter)                           | 46                   | 12   | 35                         | 81                | 32   | 66                         |

| Willow-carrot aphid<br>( <i>Cavariella aegopodii</i> ) | Bulletin Week Totals |      |                            | Accumulated until |      |                            |
|--|----------------------|------|----------------------------|-------------------|------|----------------------------|
|  | 2020                 | 2018 | 10-year average<br>2009-18 | 2020              | 2018 | 10-year average<br>2009-18 |
| Dundee   | /                    | 3    | 6                          | 118               | 64   | 74                         |
| Gogarbank (Edinburgh)                                  | /                    | 4    | 20                         | 36                | 52   | 79                         |
| Newcastle  | /                    | 1    | 12                         | 0                 | 10   | 57                         |
| York   | 166                  | 15   |                            | 836               | 123  |                            |
| Preston  | 114                  | 3    | 74                         | 153               | 76   | 508                        |
| Kirton   | 299                  | 16   | 100                        | 1729              | 225  | 614                        |
| Broom's Barn (Bury St Edmunds)                         | *153                 | 8    | 79                         | 1087              | 728  | 781                        |
| Wellesbourne   | *277                 | 9    | 77                         | 533               | 283  | 514                        |
| Hereford   | /                    | 1    | 25                         | 1                 | 44   | 293                        |
| Rothamsted (Harpenden)                                 | 75                   | 3    | 62                         | 197               | 112  | 364                        |
| Writtle  | /                    | 9    | 45                         | 110               | 569  | 900                        |
| Silwood Park (nr Ascot)                                | /                    | 7    | 50                         | 32                | 210  | 272                        |
| East Malling   | 23                   |      |                            | 116               |      |                            |
| Starcross (nr Exeter)                                  | 19                   | 17   | 13                         | 106               | 117  | 125                        |

| Pea aphid<br>( <i>Acyrtosiphon pisum</i> ) | Bulletin Week Totals |      |                            | Accumulated until |      |                            |
|--|----------------------|------|----------------------------|-------------------|------|----------------------------|
|  | 2020                 | 2018 | 10-year average<br>2009-18 | 2020              | 2018 | 10-year average<br>2009-18 |
| Dundee                                     | /                    | 0    | 1                          | 0                 | 0    | 1                          |
| Gogarbank (Edinburgh)                      | /                    | 0    | 1                          | 0                 | 2    | 3                          |
| Newcastle                                  | /                    | 0    | 1                          | 0                 | 2    | 2                          |
| York                                       | 1                    | 2    |                            | 3                 | 8    |                            |
| Preston                                    | 2 #                  | 2    | 1                          | 2                 | 7    | 5                          |
| Kirton                                     | 5                    | 4    | 13                         | 16                | 9    | 21                         |
| Broom's Barn (Bury St Edmunds)             | *6                   | 8    | 20                         | 10                | 16   | 38                         |
| Wellesbourne                               | *14                  | 3    | 13                         | 22                | 12   | 41                         |
| Hereford                                   | /                    | 0    | 6                          | 0                 | 11   | 25                         |
| Rothamsted (Harpenden)                     | 6                    | 9    | 16                         | 16                | 13   | 37                         |
| Writtle                                    | /                    | 5    | 18                         | 7                 | 8    | 43                         |
| Silwood Park (nr Ascot)                    | /                    | 4    | 11                         | 7                 | 14   | 31                         |
| East Malling                               | 6                    |      |                            | 32                |      |                            |
| Starcross (nr Exeter)                      | 5                    | 3    | 13                         | 36                | 17   | 34                         |

| Black bean aphid<br>( <i>Aphis fabae</i> ) | Bulletin Week Totals |      |  | Accumulated until |      |  |
|--|----------------------|------|--|-------------------|------|--|
|  | 2020                 | 2018 | 08/06-14/06<br>10-year<br>average<br>2009-18 | 2020              | 2018 | 14/06<br>10-year<br>average<br>2009-18 |
| Dundee                                     | /                    | 0    | 0  | 0                 | 1    | 3                                      |
| Gogarbank (Edinburgh)                      | /                    | 1    | 0  | 0                 | 2    | 3                                      |
| Newcastle                                  | /                    | 0    | 0  | 0                 | 0    | 0                                      |
| York                                       | 0                    | 2    |  | 0                 | 2    |  |
| Preston                                    | 0                    | 0    | 1  | 3                 | 2    | 2                                      |
| Kirton                                     | 4                    | 0    | 1  | 6                 | 0    | 2                                      |
| Broom's Barn (Bury St Edmunds)             | *0                   | 6    | 7  | 10                | 23   | 18                                     |
| Wellesbourne                               | *0                   | 1    | 12   | 0                 | 4    | 18                                     |
| Hereford                                   | /                    | 1    | 1  | 0                 | 1    | 2                                      |
| Rothamsted (Harpenden)                     | 8                    | 0    | 11   | 9                 | 1    | 17                                     |
| Writtle                                    | /                    | 5    | 6  | 4                 | 8    | 13                                     |
| Silwood Park (nr Ascot)                    | /                    | 4    | 7  | 0                 | 11   | 17                                     |
| East Malling                               | 9                    |      |  | 14                |      |  |
| Starcross (nr Exeter)                      | 48                   | 18   | 22   | 69                | 24   | 36                                     |

### Further information

Please send information on crop aphids to: [alex.greenslade@rothamsted.ac.uk](mailto:alex.greenslade@rothamsted.ac.uk)

[insectsurvey.com/aphid-bulletin](http://insectsurvey.com/aphid-bulletin)

[ahdb.org.uk/aphid-news](http://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](mailto:info@ahdb.org.uk)  
**W** [ahdb.org.uk](http://ahdb.org.uk)  
**T** @TheAHDB

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