

07 September 2018

This news sheet summarises up-to-date results from the Rothamsted/SASA suction-trap (ST) network and the FERA yellow water-pan trap (YWT) network.

GENERAL

- Harvest is nearly complete across Britain and the aphid threat has largely passed for the 2017/18 crop.
- Aphid abundance has increased this week in the ST – particularly the bird cherry–oat aphid, which doubled in number compared with last week – while aphid diversity has decreased.

CEREALS

- The total number of cereal aphids recorded has increased over most of Britain in the ST this week. Most of this increase is, once again, attributed to an increased number of bird cherry–oat aphids being caught. The number of grain aphids has decreased slightly. The risk to crops has passed for this season.

POTATOES

- YWT samples were only received from northern England, the Midlands and East Anglia this week. Trapping has almost finished for this year. Northern England was at moderate risk but the Midlands and East Anglia were at low risk.
- The peach–potato aphid was recorded from five ST sites this week, with numbers increasing at three towards the north of Britain. They were also recorded from a single YWT sample from northern England this week.
- No potato aphids were recorded this bulletin week from ST or YWT samples.
- With regard to non-colonising vectors of PVY and PVA, the total number of cereal aphids, leaf curling plum aphids and willow–carrot aphids have increased this week in the ST.
- The black bean aphid was caught at four sites with single aphids found at all but Dundee (8) in the ST this week. They were also recorded in the YWT from the Midlands region. This species transmits PVA very efficiently. Further regional information on potato virus vectors and the FERA yellow water-pan trap (YWT) network can be accessed here: <http://aphmon.fera.defra.gov.uk/>

OILSEED RAPE, FIELD BRASSICAS and LEAFY VEGETABLES

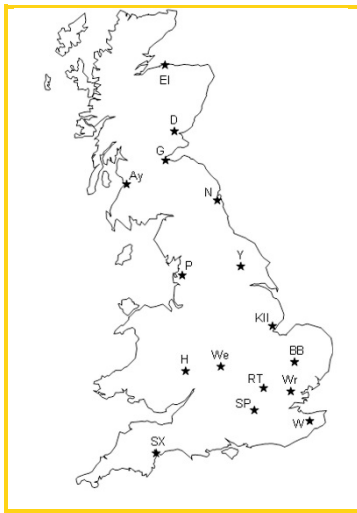
- The peach–potato aphid was recorded from five ST sites this week, with numbers increasing at three towards the north of Britain. They were also recorded from a single YWT sample from northern England this week.
- The mealy cabbage aphid was recorded from five sites this week but increasing at only three.
- No currant-lettuce aphids were recorded from the ST this week.

CARROTS

- Only four willow–carrot aphids were recorded this week from Dundee in the ST.

PEAS and BEANS

- Pea aphids were recorded from Preston (3), Wellesbourne (1) and Hereford (2) this week in the ST. The risk to crops has passed for this season.
- The black bean aphid was caught at four sites with single aphids found at all but Dundee (8) in the ST this week. The risk to crops has passed for this season.



Suction-trapping Results

The information below relates to suction-trap samples collected during Bulletin Week **21: 27/8 – 2/9**.

‘*’ indicates where totals have been corrected proportionally to seven days, fewer days’ samples having been processed and **0 = none so far this year.**

| Rose-grain aphid (Metopolophium dirhodum) | Bulletin Week Totals | | 27/08-02/09 | | Accumulated until | | 02/09 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 1 | ↑ | 1 | 0 | 5175 | 66 | 5014 |
| Gogarbank (Edinburgh) | 1 | ↑ | 1 | 1 | 361 | 309 | 512 |
| Newcastle | 0 | | 1 | 2 | 66 | 62 | 259 |
| York | 0 | | 0 | / | 242 | 168 | / |
| Preston | 0 | | 0 | 0 | 144 | 217 | 321 |
| Kirton | 0 | | 0 | 0 | 267 | 244 | 1545 |
| Broom’s Barn (Bury St Edmunds) | 0 | | 0 | 0 | 355 | 202 | 1074 |
| Wellesbourne | 0 | | 0 | 1 | 261 | 291 | 306 |
| Hereford | 0 | ↓ | 2 | 1 | 189 | 182 | 538 |
| Rothamsted (Harpenden) | 0 | | 0 | 0 | 198 | 91 | 608 |
| Writtle | 0 | | 0 | 0 | 354 | 88 | 635 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 130 | 33 | 135 |
| Wye | 0 | | 0 | 0 | 137 | 92 | 165 |
| Starcross (nr Exeter) | 0 | | 0 | 0 | 92 | 170 | 305 |

Single rose-grain aphids were recorded this week, from Dundee and Gogarbank.

| Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>) | Bulletin Week Totals 27/08-02/09 | | | | Accumulated until | | 02/09 |
|--|----------------------------------|--------------------------------|------|-------------------------|-------------------|------|-------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 82 | ↑ | 82 | 110 | 8939 | 224 | 2300 |
| Gogarbank (Edinburgh) | 47 | ↑ | 228 | 118 | 1848 | 614 | 1301 |
| Newcastle | 30 | ↓ | 203 | 142 | 443 | 441 | 703 |
| York | 15 | ↓ | 192 | / | 317 | 505 | / |
| Preston | 42 | ↑ | 28 | 84 | 170 | 1080 | 467 |
| Kirton | 25 | ↑ | 42 | 16 | 258 | 291 | 998 |
| Broom's Barn (nr Bury St Edmunds) | 21 | ↑ | 47 | 22 | 228 | 281 | 947 |
| Wellesbourne | 36 | ↑ | 89 | 68 | 305 | 391 | 544 |
| Hereford | 71 | ↑ | 36 | 56 | 165 | 294 | 706 |
| Rothamsted (Harpenden) | 11 | ↑ | 66 | 27 | 130 | 212 | 611 |
| Writtle | 17 | ↑ | 25 | 15 | 227 | 183 | 609 |
| Silwood Park (nr Ascot) | 9 | ↑ | 19 | 18 | 140 | 128 | 318 |
| Wye | 29 | ↑ | 33 | 21 | 126 | 250 | 427 |
| Starcross (nr Exeter) | 12 | ↑ | 67 | 46 | 339 | 400 | 828 |

The bird cherry–oat aphid was recorded from all ST this bulletin week, with numbers increasing at all sites apart from Newcastle and York. The highest number recorded was from Dundee (82).

| Grain aphid (<i>Sitobion avenae</i>) | Bulletin Week Totals 27/08-02/09 | | | | Accumulated until | | 02/09 |
|---|----------------------------------|--------------------------------|------|-------------------------|-------------------|------|-------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 3 | ↓ | 13 | 8 | 1906 | 70 | 1252 |
| Gogarbank (Edinburgh) | 1 | ↓ | 9 | 7 | 399 | 170 | 346 |
| Newcastle | 3 | ↑ | 6 | 9 | 219 | 62 | 204 |
| York | 0 | | 4 | / | 1574 | 391 | / |
| Preston | 0 | ↓ | 4 | 3 | 329 | 271 | 259 |
| Kirton | 0 | | 0 | 1 | 522 | 72 | 1345 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 0 | 0 | 564 | 110 | 983 |
| Wellesbourne | 0 | | 1 | 3 | 231 | 101 | 630 |
| Hereford | 4 | ↑ | 0 | 7 | 215 | 102 | 748 |
| Rothamsted (Harpenden) | 0 | | 0 | 2 | 262 | 105 | 1064 |
| Writtle | 0 | | 1 | 1 | 629 | 159 | 1039 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 227 | 58 | 232 |
| Wye | 0 | | 0 | 2 | 144 | 102 | 189 |
| Starcross (nr Exeter) | 0 | | 1 | 2 | 134 | 151 | 293 |

The grain aphid was found in single figures at four sites this week but increasing at only Newcastle and Hereford.

| Peach–potato aphid (<i>Myzus persicae</i>) | Bulletin Week Totals 27/08-02/09 | | | | Accumulated until 02/09 | | |
|---|----------------------------------|--------------------------------|------|-------------------------|-------------------------|------|-------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 8 | ↑ | 6 | 2 | 73 | 99 | 37 |
| Gogarbank (Edinburgh) | 0 | | 0 | 0 | 31 | 97 | 26 |
| Newcastle | 1 | ↑ | 0 | 0 | 66 | 263 | 48 |
| York | 1 | ↑ | 0 | / | 465 | 867 | / |
| Preston | 0 | | 0 | 1 | 157 | 63 | 130 |
| Kirton | 7 | ↓ | 8 | 2 | 990 | 759 | 789 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 1 | 1 | 1132 | 1155 | 995 |
| Wellesbourne | 0 | | 0 | 1 | 985 | 931 | 762 |
| Hereford | 1 | | 0 | 1 | 735 | 465 | 277 |
| Rothamsted (Harpenden) | 0 | | 0 | 0 | 557 | 275 | 512 |
| Writtle | 0 | | 0 | 0 | 826 | 128 | 797 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 119 | 37 | 67 |
| Wye | 0 | | 0 | 0 | 114 | 213 | 223 |
| Starcross (nr Exeter) | 0 | | 1 | 1 | 157 | 137 | 181 |

The peach–potato aphid was recorded from five sites this week, with numbers increasing at three towards the north of Britain.

| Potato aphid (<i>Macrosiphum euphorbiae</i>) | Bulletin Week Totals 27/08-02/09 | | | | Accumulated until 02/09 | | |
|---|----------------------------------|--------------------------------|------|-------------------------|-------------------------|------|-------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 0 | ↓ | 0 | 0 | 140 | 26 | 67 |
| Gogarbank (Edinburgh) | 0 | | 0 | 0 | 67 | 73 | 59 |
| Newcastle | 0 | | 1 | 1 | 13 | 34 | 24 |
| York | 0 | | 0 | / | 27 | 34 | / |
| Preston | 0 | | 0 | 0 | 13 | 30 | 31 |
| Kirton | 0 | | 0 | 0 | 11 | 62 | 66 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 0 | 0 | 3 | 22 | 35 |
| Wellesbourne | 0 | | 0 | 0 | 8 | 52 | 46 |
| Hereford | 0 | | 0 | 1 | 8 | 115 | 118 |
| Rothamsted (Harpenden) | 0 | | 0 | 0 | 16 | 17 | 24 |
| Writtle | 0 | | 0 | 0 | 16 | 58 | 43 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 5 | 7 | 19 |
| Wye | 0 | | 0 | 0 | 4 | 16 | 14 |
| Starcross (nr Exeter) | 0 | | 0 | 0 | 49 | 36 | 42 |

No potato aphids were recorded this bulletin week.

| Cabbage aphid (<i>Brevicoryne brassicae</i>) | Bulletin Week Totals | | 27/08-02/09 | | Accumulated until | | 02/09 |
|---|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 0 | | 0 | 0 | 5 | 7 | 3 |
| Gogarbank (Edinburgh) | 5 | ↑ | 0 | 0 | 16 | 36 | 7 |
| Newcastle | 3 | ↑ | 0 | 0 | 38 | 19 | 8 |
| York | 0 | | 0 | / | 417 | 33 | / |
| Preston | 6 | ↓ | 0 | 0 | 98 | 22 | 28 |
| Kirton | 3 | ↓ | 1 | 1 | 285 | 54 | 176 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 0 | 0 | 319 | 113 | 147 |
| Wellesbourne | 1 | ↑ | 2 | 1 | 541 | 84 | 981 |
| Hereford | 0 | | 0 | 3 | 767 | 165 | 313 |
| Rothamsted (Harpenden) | 0 | | 0 | 1 | 199 | 4 | 87 |
| Writtle | 0 | | 0 | 0 | 1445 | 24 | 215 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 123 | 17 | 45 |
| Wye | 0 | | 0 | 0 | 94 | 47 | 74 |
| Starcross (nr Exeter) | 0 | ↓ | 0 | 2 | 203 | 84 | 235 |

The mealy cabbage aphid was recorded from five sites this week but increasing at only three.

| Willow-carrot aphid (<i>Cavariella aegopodii</i>) | Bulletin Week Totals | | 27/08-02/09 | | Accumulated until | | 02/09 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 8 | ↑ | 7 | 8 | 92 | 125 | 131 |
| Gogarbank (Edinburgh) | 0 | | 2 | 1 | 58 | 189 | 126 |
| Newcastle | 0 | | 0 | 1 | 19 | 167 | 113 |
| York | 0 | | 0 | / | 184 | 743 | / |
| Preston | 0 | | 2 | 1 | 89 | 612 | 677 |
| Kirton | 0 | | 2 | 2 | 288 | 933 | 871 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 2 | 2 | 1092 | 579 | 894 |
| Wellesbourne | 0 | | 0 | 0 | 205 | 774 | 626 |
| Hereford | 0 | | 0 | 0 | 54 | 842 | 494 |
| Rothamsted (Harpenden) | 1 | ↑ | 0 | 0 | 137 | 120 | 481 |
| Writtle | 0 | | 0 | 0 | 685 | 213 | 992 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 169 | 101 | 303 |
| Wye | 0 | | 0 | 0 | 189 | 135 | 426 |
| Starcross (nr Exeter) | 0 | | 0 | 0 | 137 | 160 | 180 |

Willow-carrot aphids were only recorded this week from Dundee (8) and Rothamsted (1).

| Pea aphid (<i>Acyrtosiphon pisum</i>) | Bulletin Week Totals | | 27/08-02/09 | | Accumulated until | | 02/09 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 0 | ↓ | 1 | 0 | 335 | 13 | 99 |
| Gogarbank (Edinburgh) | 0 | | 0 | 1 | 75 | 6 | 41 |
| Newcastle | 0 | | 0 | 0 | 55 | 12 | 43 |
| York | 0 | ↓ | 0 | / | 349 | 9 | / |
| Preston | 3 | ↑ | 0 | 0 | 46 | 17 | 32 |
| Kirton | 0 | | 0 | 2 | 967 | 141 | 1058 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 0 | 0 | 329 | 144 | 607 |
| Wellesbourne | 1 | ↑ | 0 | 2 | 269 | 185 | 333 |
| Hereford | 2 | ↑ | 0 | 0 | 124 | 47 | 124 |
| Rothamsted (Harpenden) | 0 | | 0 | 1 | 327 | 144 | 417 |
| Writtle | 0 | | 2 | 1 | 463 | 315 | 691 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 140 | 44 | 82 |
| Wye | 0 | ↓ | 2 | 1 | 226 | 147 | 196 |
| Starcross (nr Exeter) | 0 | | 1 | 1 | 48 | 39 | 95 |

Pea aphids were recorded from Preston (3), Wellesbourne (1) and Hereford (2) this week.

| Black bean aphid (<i>Aphis fabae</i>) | Bulletin Week Totals | | 27/08-02/09 | | Accumulated until | | 02/09 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 8 | ↓ | 4 | 5 | 387 | 19 | 110 |
| Gogarbank (Edinburgh) | 0 | ↓ | 3 | 4 | 53 | 71 | 56 |
| Newcastle | 1 | ↑ | 4 | 4 | 9 | 24 | 50 |
| York | 0 | | 0 | / | 54 | 107 | / |
| Preston | 0 | | 0 | 1 | 25 | 63 | 31 |
| Kirton | 0 | | 0 | 1 | 98 | 39 | 204 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 0 | 1 | 105 | 108 | 284 |
| Wellesbourne | 1 | ↑ | 0 | 1 | 46 | 119 | 214 |
| Hereford | 0 | ↓ | 0 | 0 | 38 | 19 | 149 |
| Rothamsted (Harpenden) | 1 | ↑ | 0 | 0 | 91 | 115 | 381 |
| Writtle | 0 | | 0 | 0 | 124 | 86 | 327 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 149 | 14 | 87 |
| Wye | 0 | | 0 | 0 | 41 | 30 | 109 |
| Starcross (nr Exeter) | 0 | | 0 | 0 | 56 | 235 | 129 |

The black bean aphid was caught at four sites this week with single aphids found at all but Dundee (8).

Further information

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

AHDB Cereals and Oilseeds: [Click here](#)

AHDB Potatoes: [Click here](#)

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