

17 August 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

- Cereal and oilseed rape harvest is nearing completion. Pea, bean and potato harvest is continuing in Britain (in between the recent rainfall). The monitoring of vulnerable crops is advised.
- Aphid abundance has decreased to round a half of that of last week in the STs. The species reported on are continuing to decrease across most of the country in line with the harvest.
- The early harvest, together with the extremely dry weather conditions, may result in the lack of a green bridge for virus transmission this year, particularly in the South East of Britain.

CEREALS

- The numbers of cereal aphids have decreased substantially over most of Britain in the ST this week. The risk to crops is passing for this season.

POTATOES

- The number of YWT samples received has continued to decrease this week across Britain. **Virus pressure has also decreased in all regions.**
- The peach–potato aphid was only recorded from ST at York (2) and Kirton (14) this week. They were also found from YWT samples from the Grampian, northern England and Midlands regions.
- The potato aphid was only found from ST at Dundee (1) and Gogarbank (3) this bulletin week. They were also found from YWT samples from the Grampian, Borders and northern England regions this week.
- With regard to non-colonising vectors of PVY and PVA, the total numbers of cereal aphids, leaf curling plum aphids and willow-carrot aphid have all continued to decrease this week in the ST.
- The black bean aphid was only caught at Dundee (4), Gogarbank (11) and York (1) in the ST this week. They were also recorded from all regions across Britain, apart from the North of Scotland, the Midlands and East Anglia in the YWT. 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

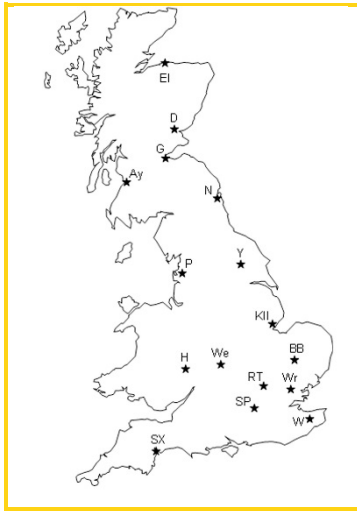
- The peach–potato aphid was only recorded from ST at York (2) and Kirton (14) this week. They were also found from YWT samples from the Grampian, northern England and Midlands regions.
- The mealy cabbage aphid was recorded from six ST sites this week but increasing at only three.
- One currant-lettuce aphid was recorded from the Hereford ST this week.

CARROTS

- Only a single willow–carrot aphid was recorded this week from York from the ST.

PEAS and BEANS

- The pea aphid was recorded in single figures from six ST sites this week, but increasing at only Wellesbourne. The risk to crops is passing for this season.
- The black bean aphid was only recorded from ST sites at Dundee (4), Gogarbank (11) and York (1) this week. The risk to crops is passing for this season.



Suction-trapping Results

The information below relates to suction-trap samples collected during Bulletin Week **18: 06/8 – 12/8**.

‘*’ 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 | | 06/08-12/08 | | Accumulated until | | 12/08 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 6 | ↓ | 3 | 526 | 5173 | 52 | 4998 |
| Gogarbank (Edinburgh) | 9 | ↓ | 1 | 3 | 358 | 302 | 508 |
| Newcastle | 0 | ↓ | 0 | 8 | 66 | 60 | 248 |
| York | 0 | ↓ | 0 | / | 242 | 168 | / |
| Preston | 0 | | 3 | 1 | 144 | 215 | 320 |
| Kirton | 0 | ↓ | 0 | 4 | 267 | 244 | 1543 |
| Broom’s Barn (Bury St Edmunds) | 0 | | 0 | 2 | 355 | 202 | 1074 |
| Wellesbourne | 0 | ↓ | 0 | 0 | 261 | 291 | 304 |
| Hereford | 0 | ↓ | 0 | 4 | 187 | 180 | 534 |
| Rothamsted (Harpenden) | 0 | | 0 | 1 | 198 | 91 | 608 |
| Writtle | 0 | | 0 | 1 | 354 | 88 | 634 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 130 | 33 | 135 |
| Wye | 0 | | 0 | 0 | 137 | 92 | 164 |
| Starcross (nr Exeter) | 0 | ↓ | 0 | 1 | 92 | 170 | 304 |

The rose-grain aphid was only recorded from Dundee (6) and Gogarbank (9) this week.

| Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>) | Bulletin Week Totals | | 06/08-12/08 | | Accumulated until | | 12/08 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 28 | ↓ | 12 | 245 | 8775 | 82 | 1901 |
| Gogarbank (Edinburgh) | 71 | ↑ | 5 | 78 | 1735 | 214 | 946 |
| Newcastle | 0 | ↓ | 7 | 53 | 364 | 137 | 459 |
| York | 2 | ↑ | 24 | / | 284 | 222 | / |
| Preston | 9 | ↑ | 44 | 32 | 79 | 981 | 274 |
| Kirton | 0 | ↓ | 41 | 42 | 224 | 184 | 916 |
| Broom's Barn (nr Bury St Edmunds) | 1 | ↓ | 41 | 27 | 201 | 192 | 872 |
| Wellesbourne | 7 | | 12 | 43 | 250 | 232 | 366 |
| Hereford | 10 | ↓ | 19 | 89 | 55 | 173 | 514 |
| Rothamsted (Harpenden) | 4 | ↑ | 8 | 40 | 114 | 68 | 522 |
| Writtle | 2 | ↓ | 0 | 18 | 198 | 119 | 562 |
| Silwood Park (nr Ascot) | 1 | ↓ | 3 | 13 | 129 | 76 | 271 |
| Wye | 0 | | 13 | 16 | 90 | 160 | 368 |
| Starcross (nr Exeter) | 1 | | 8 | 74 | 323 | 246 | 696 |

The bird cherry–oat aphid was recorded from eleven sites this bulletin week, with numbers increasing at four. The highest number recorded was from Gogarbank (71).

| Grain aphid (<i>Sitobion avenae</i>) | Bulletin Week Totals | | 06/08-12/08 | | Accumulated until | | 12/08 |
|---|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 18 | ↓ | 4 | 115 | 1889 | 43 | 1136 |
| Gogarbank (Edinburgh) | 20 | ↓ | 3 | 17 | 385 | 144 | 300 |
| Newcastle | 0 | ↓ | 4 | 26 | 211 | 43 | 162 |
| York | 1 | ↓ | 0 | / | 1574 | 385 | / |
| Preston | 5 | ↓ | 8 | 10 | 325 | 264 | 243 |
| Kirton | 0 | ↓ | 2 | 38 | 522 | 71 | 1329 |
| Broom's Barn (nr Bury St Edmunds) | 0 | ↓ | 1 | 15 | 564 | 110 | 976 |
| Wellesbourne | 6 | ↑ | 0 | 11 | 228 | 99 | 614 |
| Hereford | 3 | ↓ | 3 | 42 | 205 | 100 | 712 |
| Rothamsted (Harpenden) | 1 | ↓ | 2 | 21 | 261 | 105 | 1054 |
| Writtle | 0 | ↓ | 0 | 18 | 628 | 158 | 1033 |
| Silwood Park (nr Ascot) | 1 | ↑ | 0 | 1 | 227 | 58 | 229 |
| Wye | 0 | ↓ | 2 | 2 | 142 | 102 | 184 |
| Starcross (nr Exeter) | 0 | ↓ | 1 | 5 | 134 | 150 | 287 |

The grain aphid was found at eight sites this week and increasing at Wellesbourne and Silwood but decreasing elsewhere.

| Peach–potato aphid (<i>Myzus persicae</i>) | Bulletin Week Totals | | 06/08-12/08 | | Accumulated until | | 12/08 |
|---|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 0 | ↓ | 1 | 2 | 62 | 92 | 32 |
| Gogarbank (Edinburgh) | 0 | ↓ | 1 | 0 | 29 | 96 | 24 |
| Newcastle | 0 | ↓ | 0 | 1 | 65 | 263 | 47 |
| York | 2 | ↓ | 0 | / | 464 | 867 | / |
| Preston | 0 | | 0 | 0 | 157 | 63 | 129 |
| Kirton | 14 | ↓ | 2 | 4 | 944 | 743 | 784 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 0 | 7 | 1132 | 1154 | 992 |
| Wellesbourne | 0 | | 0 | 0 | 985 | 931 | 761 |
| Hereford | 0 | | 0 | 2 | 733 | 465 | 273 |
| Rothamsted (Harpenden) | 0 | | 0 | 3 | 557 | 275 | 511 |
| Writtle | 0 | ↓ | 0 | 4 | 826 | 128 | 797 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 119 | 37 | 67 |
| Wye | 0 | | 0 | 0 | 114 | 213 | 222 |
| Starcross (nr Exeter) | 0 | | 0 | 0 | 157 | 135 | 178 |

The peach–potato aphid was only recorded from York (2) and Kirton (14) this week.

| Potato aphid (<i>Macrosiphum euphorbiae</i>) | Bulletin Week Totals | | 06/08-12/08 | | Accumulated until | | 12/08 |
|---|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 1 | ↓ | 0 | 3 | 138 | 26 | 65 |
| Gogarbank (Edinburgh) | 3 | ↑ | 0 | 0 | 67 | 72 | 58 |
| Newcastle | 0 | ↓ | 0 | 1 | 13 | 33 | 22 |
| York | 0 | | 0 | / | 27 | 34 | / |
| Preston | 0 | | 0 | 0 | 13 | 30 | 30 |
| Kirton | 0 | | 0 | 0 | 11 | 62 | 65 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 0 | 0 | 3 | 22 | 34 |
| Wellesbourne | 0 | | 0 | 0 | 8 | 52 | 46 |
| Hereford | 0 | | 0 | 8 | 8 | 115 | 111 |
| Rothamsted (Harpenden) | 0 | | 0 | 0 | 16 | 17 | 23 |
| Writtle | 0 | | 0 | 0 | 16 | 58 | 43 |
| Silwood Park (nr Ascot) | 0 | | 1 | 0 | 5 | 7 | 19 |
| Wye | 0 | | 0 | 0 | 4 | 16 | 14 |
| Starcross (nr Exeter) | 0 | | 0 | 0 | 49 | 36 | 41 |

The potato aphid only found at Dundee (1) and Gogarbank (3) this bulletin week.

| Cabbage aphid (<i>Brevicoryne brassicae</i>) | Bulletin Week Totals | | 06/08-12/08 | | Accumulated until | | 12/08 |
|---|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 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) | 0 | ↓ | 0 | 0 | 10 | 36 | 6 |
| Newcastle | 0 | ↓ | 0 | 0 | 31 | 18 | 8 |
| York | 3 | ↓ | 0 | / | 412 | 33 | / |
| Preston | 1 | ↓ | 0 | 0 | 84 | 22 | 28 |
| Kirton | 22 | ↑ | 0 | 2 | 240 | 52 | 174 |
| Broom's Barn (nr Bury St Edmunds) | 0 | ↓ | 0 | 3 | 319 | 113 | 146 |
| Wellesbourne | 4 | ↑ | 0 | 3 | 540 | 82 | 980 |
| Hereford | 2 | ↓ | 0 | 4 | 766 | 164 | 299 |
| Rothamsted (Harpenden) | 1 | ↑ | 0 | 3 | 199 | 4 | 84 |
| Writtle | 0 | | 0 | 4 | 1445 | 23 | 214 |
| Silwood Park (nr Ascot) | 0 | ↓ | 0 | 0 | 123 | 17 | 44 |
| Wye | 0 | | 0 | 0 | 94 | 47 | 74 |
| Starcross (nr Exeter) | 0 | ↓ | 0 | 3 | 201 | 84 | 230 |

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

| Willow-carrot aphid (<i>Cavariella aegopodii</i>) | Bulletin Week Totals | | 06/08-12/08 | | Accumulated until | | 12/08 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 0 | | 1 | 7 | 79 | 115 | 114 |
| Gogarbank (Edinburgh) | 0 | | 0 | 0 | 58 | 187 | 125 |
| Newcastle | 0 | | 0 | 0 | 19 | 166 | 111 |
| York | 1 | ↑ | 0 | / | 184 | 743 | / |
| Preston | 0 | | 0 | 0 | 89 | 610 | 671 |
| Kirton | 0 | | 0 | 0 | 288 | 930 | 867 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 0 | 1 | 1092 | 577 | 890 |
| Wellesbourne | 0 | | 0 | 0 | 205 | 774 | 626 |
| Hereford | 0 | | 0 | 1 | 54 | 841 | 493 |
| Rothamsted (Harpenden) | 0 | | 0 | 1 | 136 | 120 | 480 |
| Writtle | 0 | | 0 | 0 | 685 | 213 | 991 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 169 | 101 | 303 |
| Wye | 0 | | 0 | 0 | 189 | 135 | 425 |
| Starcross (nr Exeter) | 0 | | 0 | 1 | 137 | 160 | 180 |

Only a single willow-carrot aphid was recorded this week from York.

| Pea aphid (<i>Acyrtosiphon pisum</i>) | Bulletin Week Totals | | 06/08-12/08 | | Accumulated until | | 12/08 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 2 | ↓ | 3 | 15 | 333 | 11 | 93 |
| Gogarbank (Edinburgh) | 2 | ↓ | 0 | 1 | 74 | 5 | 38 |
| Newcastle | 0 | ↓ | 1 | 2 | 54 | 11 | 40 |
| York | 5 | ↓ | 0 | / | 345 | 9 | / |
| Preston | 0 | | 0 | 0 | 42 | 17 | 31 |
| Kirton | 1 | ↓ | 2 | 13 | 967 | 139 | 1052 |
| Broom's Barn (nr Bury St Edmunds) | 0 | ↓ | 0 | 8 | 329 | 144 | 605 |
| Wellesbourne | 2 | ↑ | 0 | 6 | 268 | 183 | 328 |
| Hereford | 4 | ↓ | 0 | 7 | 122 | 46 | 118 |
| Rothamsted (Harpenden) | 0 | | 0 | 7 | 326 | 144 | 413 |
| Writtle | 0 | | 0 | 5 | 463 | 311 | 689 |
| Silwood Park (nr Ascot) | 0 | | 0 | 1 | 140 | 44 | 81 |
| Wye | 0 | ↓ | 0 | 2 | 225 | 145 | 193 |
| Starcross (nr Exeter) | 0 | | 0 | 1 | 47 | 34 | 92 |

The pea aphid was recorded in single figures from six sites this week, but increasing at only Wellesbourne.

| Black bean aphid (<i>Aphis fabae</i>) | Bulletin Week Totals | | 06/08-12/08 | | Accumulated until | | 12/08 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 4 | ↓ | 1 | 18 | 366 | 9 | 86 |
| Gogarbank (Edinburgh) | 11 | ↑ | 0 | 3 | 49 | 60 | 40 |
| Newcastle | 0 | ↓ | 0 | 3 | 8 | 17 | 42 |
| York | 1 | ↑ | 0 | / | 54 | 107 | / |
| Preston | 0 | ↓ | 0 | 0 | 24 | 63 | 29 |
| Kirton | 0 | | 0 | 3 | 98 | 39 | 203 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 0 | 0 | 105 | 108 | 282 |
| Wellesbourne | 0 | | 0 | 1 | 45 | 119 | 212 |
| Hereford | 0 | ↓ | 0 | 3 | 37 | 19 | 147 |
| Rothamsted (Harpenden) | 0 | | 0 | 1 | 90 | 115 | 380 |
| Writtle | 0 | | 0 | 0 | 124 | 86 | 326 |
| Silwood Park (nr Ascot) | 0 | | 0 | 0 | 149 | 14 | 87 |
| Wye | 0 | | 0 | 0 | 41 | 29 | 109 |
| Starcross (nr Exeter) | 0 | | 0 | 0 | 56 | 235 | 128 |

The black bean aphid was only caught at Dundee (4), Gogarbank (11) and York (1) this week.

Further information

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

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