

29 June 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

The weather has been warm and very dry. Several aphid species have increased in number across the majority of ST across Britain, compared with last week. It should be noted, however, that the accumulated numbers of many species are still at or below their respective 10-year means. **Monitoring all crops is advised.**

CEREALS

- Although the numbers of cereal aphids in the ST this week have increased markedly, the accumulated numbers are still mostly below the 10-year mean for this stage in the year.
- No field reports have been received this week. The thresholds to justify insecticide sprays for direct feeding damage is for 50% of tillers to be infested before GS61, increasing to 66% of tillers infested from GS61 to two weeks before the end of grain filling. Most damage occurs when grain aphids colonise the ears between GS61 to GS73.
- **Monitoring crops is advised.**

POTATOES

- The peach–potato aphid was caught at 10 ST sites this week, but with numbers increasing at only five. The highest number recorded was from Broom’s Barn (67). They were also found in the Grampian region and across England in YWT.
- The potato aphid was caught at six sites in single figures this bulletin week, increasing in number at four. They were also found from the Grampian region and all regions in England, apart from the South West, in the YWT.
- Virus pressure has decreased in five of the YWT regions over the last week, but increased in Northern England, Midlands and East Anglia. Virus pressure is lower than the overall average for previous years in all regions.
- With regards to non-colonising vectors of PVY and PVA; the numbers of cereal aphids and willow-carrot aphids has increased this week in the ST. However, the leaf curling plum aphid has decreased slightly compared with last week.
- Black bean aphids have been caught across southern England up to Kirton in the ST and from south West England to the Borders 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

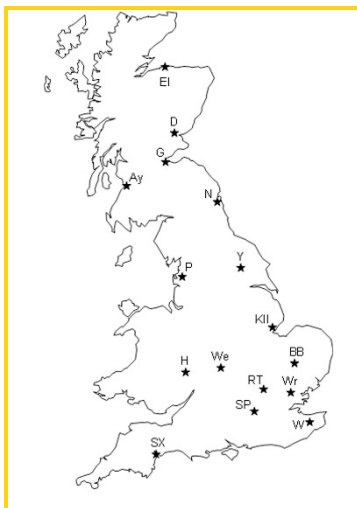
- The peach–potato aphid was caught at 10 ST sites across the country this week, but with numbers increasing at only five. The highest number recorded was from Broom’s Barn (67). They were also found in the Grampian region and across England in YWT.
- The mealy cabbage aphid was caught from 11 ST sites in England this week, increasing at 10. There was a hotspot at Starcross (46).
- No currant-lettuce aphids were recorded from the ST this week.

CARROTS

- The willow–carrot aphid was caught at 11 ST sites this week, with numbers increasing across England. The highest number found was at York (29) and Broom’s Barn (25).

PEAS and BEANS

- The pea aphid was recorded from, and increasing in number at, 11 ST sites this week. The highest number caught was from Rothamsted (41).
- No field reports of pea aphids have been received this week. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested. Pea aphids can transmit viruses even with low numbers present.
- The black bean aphid was caught at eight ST sites this week and increasing in number at seven across England. We have had reports that thresholds have been met for this aphid in some winter bean crops in Bedfordshire. Individuals have also been spotted in spring beans. The threshold for black bean aphid in field and broad beans is 10% colonisation. A lower threshold of 5% infested is advised to prevent virus transmission.



Suction-trapping Results

The information below relates to suction-trap samples collected during Bulletin Week **11: 18/6 – 24/6**.

‘*’ 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 (<i>Metopolophium dirhodum</i>) | Bulletin Week Totals | | 18/06-24/06 | | Accumulated until | | 24/06 |
|---|----------------------|--------------------------------|-------------|-------------------------|-------------------|------|-------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 6 | ↑ | 0 | 12 | 10 | 45 | 20 |
| Gogarbank (Edinburgh) | 2 | ↑ | 6 | 18 | 5 | 292 | 61 |
| Newcastle | 3 | ↑ | 13 | 11 | 4 | 51 | 26 |
| York | 11 | ↑ | 32 | / | 17 | 111 | / |
| Preston | 4 | | 10 | 56 | 16 | 198 | 144 |
| Kirton | 15 | ↑ | 73 | 111 | 25 | 211 | 185 |
| Broom’s Barn (Bury St Edmunds) | 63 | ↑ | 49 | 102 | 77 | 129 | 197 |
| Wellesbourne | 22 | ↑ | 60 | 41 | 44 | 111 | 85 |
| Hereford | 2 | ↓ | 49 | 56 | 28 | 122 | 107 |
| Rothamsted (Harpenden) | 26 | ↑ | 14 | 37 | 48 | 53 | 86 |
| Writtle | 39 | ↑ | 10 | 50 | 59 | 74 | 116 |
| Silwood Park (nr Ascot) | 10 | ↑ | 5 | 14 | 20 | 22 | 57 |
| Wye | 20 | ↑ | 27 | 15 | 23 | 41 | 26 |
| Starcross (nr Exeter) | 7 | ↓ | 6 | 47 | 63 | 126 | 213 |

The rose-grain aphid was caught at all sites and increased in number at 11 sites across the country this bulletin week. There was also a hotspot at Broom’s Barn (63).

| Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>) | Bulletin Week Totals | | 18/06-24/06 | | Accumulated until | | 24/06 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 9 | ↑ | 2 | 62 | 67 | 48 | 99 |
| Gogarbank (Edinburgh) | 2 | ↑ | 8 | 40 | 54 | 156 | 79 |
| Newcastle | 4 | ↑ | 5 | 63 | 10 | 85 | 111 |
| York | 21 | ↑ | 18 | / | 47 | 95 | / |
| Preston | 0 | ↓ | 34 | 14 | 12 | 843 | 125 |
| Kirton | 15 | ↑ | 9 | 102 | 41 | 65 | 309 |
| Broom's Barn (nr Bury St Edmunds) | 18 | ↑ | 12 | 54 | 48 | 71 | 221 |
| Wellesbourne | 15 | ↑ | 22 | 18 | 37 | 88 | 122 |
| Hereford | 2 | ↑ | 1 | 15 | 9 | 106 | 70 |
| Rothamsted (Harpenden) | 7 | ↑ | 5 | 25 | 40 | 33 | 92 |
| Writtle | 6 | ↑ | 12 | 19 | 29 | 75 | 129 |
| Silwood Park (nr Ascot) | 3 | | 14 | 8 | 39 | 49 | 130 |
| Wye | 6 | ↑ | 38 | 9 | 17 | 81 | 144 |
| Starcross (nr Exeter) | 39 | ↓ | 14 | 14 | 215 | 158 | 223 |

The bird cherry–oat aphid was caught at 13 sites this bulletin week, with numbers increasing at 11 sites across Britain. As with last week, there was a hotspot at Starcross (39).

| Grain aphid (<i>Sitobion avenae</i>) | Bulletin Week Totals | | 18/06-24/06 | | Accumulated until | | 24/06 |
|---|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 3 | ↑ | 2 | 4 | 5 | 25 | 10 |
| Gogarbank (Edinburgh) | 1 | | 23 | 7 | 11 | 115 | 26 |
| Newcastle | 3 | ↑ | 4 | 5 | 6 | 17 | 18 |
| York | 8 | ↑ | 106 | / | 12 | 199 | / |
| Preston | 4 | | 6 | 8 | 20 | 214 | 50 |
| Kirton | 2 | ↑ | 10 | 9 | 13 | 22 | 21 |
| Broom's Barn (nr Bury St Edmunds) | 55 | ↑ | 4 | 15 | 64 | 19 | 28 |
| Wellesbourne | 5 | ↑ | 9 | 11 | 11 | 21 | 37 |
| Hereford | 0 | ↓ | 8 | 10 | 12 | 42 | 27 |
| Rothamsted (Harpenden) | 4 | ↑ | 3 | 9 | 10 | 10 | 22 |
| Writtle | 5 | ↑ | 2 | 27 | 11 | 13 | 41 |
| Silwood Park (nr Ascot) | 1 | ↓ | 6 | 4 | 12 | 11 | 36 |
| Wye | 1 | ↑ | 2 | 2 | 5 | 7 | 13 |
| Starcross (nr Exeter) | 1 | ↓ | 25 | 15 | 16 | 67 | 63 |

The grain aphid was caught at 13 sites this week, increasing at nine sites across the country with a hotspot at Broom's Barn (55).

| Peach–potato aphid (<i>Myzus persicae</i>) | Bulletin Week Totals | | 18/06-24/06 | | Accumulated until | | 24/06 |
|---|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 0 | ↓ | 15 | 3 | 1 | 41 | 7 |
| Gogarbank (Edinburgh) | 0 | | 27 | 4 | 0 | 79 | 12 |
| Newcastle | 0 | | 114 | 15 | 0 | 161 | 26 |
| York | 7 | | 444 | / | 18 | 790 | / |
| Preston | 0 | | 28 | 9 | 2 | 49 | 38 |
| Kirton | 15 | ↑ | 236 | 141 | 27 | 668 | 239 |
| Broom's Barn (nr Bury St Edmunds) | 67 | ↑ | 101 | 180 | 128 | 1115 | 540 |
| Wellesbourne | 15 | ↓ | 104 | 97 | 133 | 732 | 617 |
| Hereford | 2 | ↓ | 79 | 35 | 46 | 365 | 157 |
| Rothamsted (Harpenden) | 33 | ↑ | 30 | 71 | 68 | 237 | 201 |
| Writtle | 30 | ↓ | 10 | 129 | 145 | 113 | 363 |
| Silwood Park (nr Ascot) | 6 | ↑ | 3 | 6 | 27 | 19 | 47 |
| Wye | 13 | ↑ | 19 | 62 | 59 | 153 | 167 |
| Starcross (nr Exeter) | 8 | ↓ | 31 | 10 | 67 | 122 | 77 |

The peach–potato aphid was caught at 10 sites across the country this week, but with numbers increasing at only five. The highest number recorded was again from Broom's Barn (67).

| Potato aphid (<i>Macrosiphum euphorbiae</i>) | Bulletin Week Totals | | 18/06-24/06 | | Accumulated until | | 24/06 |
|---|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 1 | | 4 | 2 | 8 | 24 | 8 |
| Gogarbank (Edinburgh) | 0 | ↓ | 3 | 4 | 18 | 66 | 25 |
| Newcastle | 0 | | 2 | 2 | 2 | 31 | 12 |
| York | 4 | ↑ | 4 | / | 5 | 29 | / |
| Preston | 3 | ↑ | 1 | 4 | 10 | 30 | 20 |
| Kirton | 0 | ↓ | 0 | 3 | 6 | 59 | 19 |
| Broom's Barn (nr Bury St Edmunds) | 0 | | 5 | 3 | 2 | 20 | 12 |
| Wellesbourne | 1 | ↑ | 0 | 10 | 1 | 50 | 32 |
| Hereford | 0 | | 18 | 9 | 5 | 110 | 35 |
| Rothamsted (Harpenden) | 0 | | 4 | 3 | 6 | 12 | 12 |
| Writtle | 1 | ↑ | 3 | 5 | 14 | 55 | 28 |
| Silwood Park (nr Ascot) | 0 | | 1 | 2 | 5 | 6 | 15 |
| Wye | 0 | ↓ | 0 | 1 | 2 | 14 | 10 |
| Starcross (nr Exeter) | 1 | ↓ | 1 | 2 | 46 | 34 | 31 |

The potato aphid was caught at six sites in single figures this bulletin week, increasing in number at four. A first arrival was recorded from Wellesbourne (22/6), the potato aphid has now been caught from all ST this year.

| Cabbage aphid (<i>Brevicoryne brassicae</i>) | Bulletin Week Totals | | 18/06-24/06 | | Accumulated until | | 24/06 |
|---|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 0 | | 0 | 0 | 0 | 5 | 1 |
| Gogarbank (Edinburgh) | 0 | | 3 | 1 | 0 | 33 | 5 |
| Newcastle | 0 | | 5 | 1 | 0 | 11 | 6 |
| York | 2 | ↑ | 16 | / | 2 | 16 | / |
| Preston | 1 | ↑ | 10 | 2 | 3 | 22 | 23 |
| Kirton | 2 | | 14 | 11 | 5 | 35 | 28 |
| Broom's Barn (nr Bury St Edmunds) | 4 | ↑ | 10 | 7 | 8 | 95 | 28 |
| Wellesbourne | 9 | ↑ | 20 | 184 | 12 | 47 | 538 |
| Hereford | 2 | ↑ | 8 | 19 | 21 | 92 | 148 |
| Rothamsted (Harpenden) | 4 | ↑ | 2 | 5 | 6 | 2 | 11 |
| Writtle | 23 | ↑ | 6 | 13 | 128 | 14 | 43 |
| Silwood Park (nr Ascot) | 4 | ↑ | 0 | 2 | 6 | 2 | 19 |
| Wye | 10 | ↑ | 7 | 9 | 18 | 8 | 27 |
| Starcross (nr Exeter) | 46 | ↑ | 5 | 7 | 77 | 54 | 88 |

The mealy cabbage aphid was caught from 11 sites in England this week, increasing at 10 and included a first arrival from York (22/6). There was also a hotspot at Starcross (46).

| Willow-carrot aphid (<i>Cavariella aegopodii</i>) | Bulletin Week Totals | | 18/06-24/06 | | Accumulated until | | 24/06 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 0 | ↓ | 0 | 6 | 64 | 113 | 81 |
| Gogarbank (Edinburgh) | 0 | ↓ | 3 | 15 | 52 | 184 | 103 |
| Newcastle | 6 | ↑ | 44 | 23 | 15 | 146 | 84 |
| York | 29 | ↑ | 4 | / | 165 | 719 | / |
| Preston | 4 | ↑ | 5 | 28 | 69 | 598 | 612 |
| Kirton | 14 | ↑ | 15 | 102 | 284 | 922 | 732 |
| Broom's Barn (nr Bury St Edmunds) | 25 | ↑ | 14 | 71 | 1083 | 575 | 810 |
| Wellesbourne | 19 | ↑ | 4 | 73 | 185 | 764 | 578 |
| Hereford | 0 | ↓ | 2 | 28 | 47 | 835 | 452 |
| Rothamsted (Harpenden) | 12 | ↑ | 2 | 51 | 125 | 120 | 434 |
| Writtle | 9 | ↑ | 0 | 54 | 676 | 213 | 945 |
| Silwood Park (nr Ascot) | 10 | ↑ | 0 | 14 | 150 | 101 | 296 |
| Wye | 14 | ↑ | 0 | 28 | 179 | 135 | 394 |
| Starcross (nr Exeter) | 2 | ↓ | 1 | 16 | 129 | 158 | 148 |

The willow-carrot aphid was caught at 11 sites this week, with numbers increasing at 10 sites across England. The highest number found was at York (29) and Broom's Barn (25).

| Pea aphid (<i>Acyrtosiphon pisum</i>) | Bulletin Week Totals | | 18/06-24/06 | | Accumulated until | | 24/06 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 2 | ↑ | 1 | 1 | 3 | 7 | 2 |
| Gogarbank (Edinburgh) | 0 | | 1 | 2 | 2 | 4 | 5 |
| Newcastle | 0 | | 3 | 2 | 1 | 9 | 4 |
| York | 2 | ↑ | 0 | / | 10 | 1 | / |
| Preston | 4 | ↑ | 0 | 2 | 9 | 9 | 6 |
| Kirton | 8 | ↑ | 29 | 28 | 14 | 59 | 49 |
| Broom's Barn (nr Bury St Edmunds) | 19 | ↑ | 9 | 22 | 40 | 47 | 61 |
| Wellesbourne | 7 | ↑ | 65 | 25 | 20 | 73 | 68 |
| Hereford | 0 | | 1 | 6 | 11 | 34 | 31 |
| Rothamsted (Harpenden) | 41 | ↑ | 25 | 16 | 55 | 47 | 53 |
| Writtle | 18 | ↑ | 19 | 22 | 26 | 77 | 70 |
| Silwood Park (nr Ascot) | 3 | ↑ | 2 | 3 | 19 | 10 | 37 |
| Wye | 28 | ↑ | 8 | 4 | 54 | 28 | 24 |
| Starcross (nr Exeter) | 5 | ↑ | 2 | 6 | 27 | 23 | 48 |

The pea aphid was recorded from and increasing in number at 11 sites this week across Britain. The highest number caught was from Rothamsted (41).

| Black bean aphid (<i>Aphis fabae</i>) | Bulletin Week Totals | | 18/06-24/06 | | Accumulated until | | 24/06 |
|--|----------------------|-----------------------------------|-------------|-------------------------------|-------------------|------|-------------------------------|
| | 2018 | Compared to last Bulletin week | 2017 | 10-year average 2008-17 | 2018 | 2017 | 10-year average 2008-17 |
| Dundee | 0 | | 0 | 0 | 1 | 6 | 3 |
| Gogarbank (Edinburgh) | 0 | ↓ | 0 | 0 | 2 | 16 | 4 |
| Newcastle | 0 | | 4 | 1 | 0 | 4 | 1 |
| York | 0 | ↓ | 22 | / | 2 | 27 | / |
| Preston | 0 | | 29 | 4 | 5 | 35 | 6 |
| Kirton | 6 | ↑ | 6 | 4 | 6 | 8 | 6 |
| Broom's Barn (nr Bury St Edmunds) | 13 | ↑ | 25 | 20 | 41 | 100 | 38 |
| Wellesbourne | 5 | ↑ | 24 | 28 | 8 | 74 | 48 |
| Hereford | 0 | ↓ | 1 | 5 | 1 | 4 | 8 |
| Rothamsted (Harpenden) | 21 | ↑ | 24 | 45 | 23 | 64 | 68 |
| Writtle | 18 | ↑ | 11 | 66 | 28 | 80 | 83 |
| Silwood Park (nr Ascot) | 11 | ↑ | 6 | 9 | 25 | 11 | 27 |
| Wye | 15 | ↑ | 1 | 12 | 20 | 19 | 23 |
| Starcross (nr Exeter) | 13 | ↓ | 45 | 15 | 39 | 169 | 88 |

The black bean aphid was caught at eight sites this week and increasing in number at seven across England. A first arrival was recorded from Kirton (18/6).

Further information

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

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

AHDB Potatoes: [Click here](#)

AHDB Horticulture: [Click here](#)

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