

06th July 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 – Despite the continued warm but extremely dry weather conditions this week, aphid abundance has yet again increased in the ST. It should be noted however that the accumulated numbers of many species are still at or below their respective 10 year means, however **monitoring all crops is advised**.

CEREALS

- Although the numbers of the three main cereal aphids in the ST this week has yet again increased, the accumulated numbers are still mostly below the 10yr 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 GS 61-73.
- **Monitoring crops is advised.**

POTATOES

- The peach–potato aphid was caught at eleven sites across England this week, with numbers increasing at eight. There was a hotspot at Wellesbourne (134). They were also found across England in YWT, with the highest number recorded from the Midlands region.
- The potato aphid was caught at five sites in single figures this bulletin week, increasing in number at three. They were also found from the Borders region and across England apart from the South West regions in the YWT.
- Virus pressure has decreased in the Borders, Northern England and East Anglia. It has remained the same in Angus and Perthshire and South West but increased in North Scotland, Grampian and Midlands regions. Virus pressure is higher than the overall average for previous years in the Midlands region.
- With regards to non-colonising vectors of PVY and PVA; the numbers of cereal aphids and leaf curling plum aphids have increased this week in the ST. However, the willow-carrot aphid numbers have 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

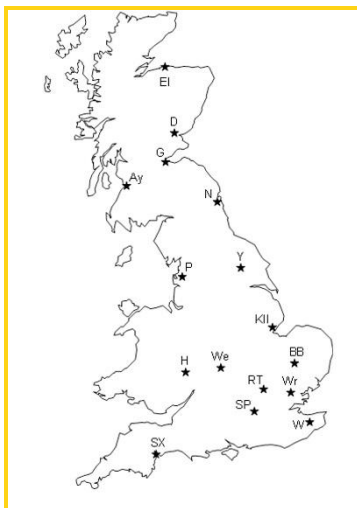
- The peach–potato aphid was caught at eleven sites across England this week, with numbers increasing at eight. There was a hotspot at Wellesbourne (134). They were also found across England in YWT, with the highest number recorded from the Midlands region.
- The mealy cabbage aphid was recorded from eleven sites in England this week, increasing at six. The highest number caught was from Writtle (87).
- A single currant-lettuce aphid was recorded from the ST at Starcross this week.

CARROTS

- The willow–carrot aphid was caught at twelve sites this week, with numbers increasing at five sites. The highest number found was from Silwood (19).

PEAS and BEANS

- The pea aphid was recorded from twelve sites this week across Britain and increasing in number at nine. The highest number caught was from Rothamsted (48).
- 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 thirteen sites this week and increasing in number at nine across Britain. No field reports have been received this week. 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 **12: 25/6 – 1/7**.

‘*’ 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		25/06-01/07		Accumulated until		01/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	23	↑	1	86	33	46	106
Gogarbank (Edinburgh)	21	↑	3	68	26	295	129
Newcastle	/	↓	5	24	4	56	49
York	52	↑	38	/	69	149	/
Preston	42	↑	1	137	58	199	281
Kirton	12	↓	7	210	37	218	394
Broom’s Barn (Bury St Edmunds)	49	↓	25	226	126	154	423
Wellesbourne	71	↑	69	89	115	180	173
Hereford	36	↑	12	101	64	134	208
Rothamsted (Harpenden)	45	↑	16	89	93	69	175
Writtle	95	↑	1	139	154	75	255
Silwood Park (nr Ascot)	86	↑	4	36	107	26	93
Wye	12	↓	16	22	34	57	49
Starcross (nr Exeter)	6	↓	4	40	69	130	252

The rose-grain aphid was recorded from all sites apart from Newcastle and increasing in number at nine sites across the country this bulletin week. The highest number was recorded from Writtle (95).

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		25/06-01/07		Accumulated until		01/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	82	↑	1	130	149	49	229
Gogarbank (Edinburgh)	62	↑	5	104	116	161	182
Newcastle	/	↓	5	69	10	90	180
York	33	↑	13	/	80	108	/
Preston	16	↑	20	22	28	863	147
Kirton	29	↑	4	98	70	69	406
Broom's Barn (nr Bury St Edmunds)	15	↓	4	256	63	75	477
Wellesbourne	15		9	7	52	97	129
Hereford	7	↑	3	53	16	109	123
Rothamsted (Harpenden)	7		4	92	47	37	184
Writtle	43	↑	6	135	72	81	264
Silwood Park (nr Ascot)	36	↑	3	17	75	52	147
Wye	9	↑	10	21	26	91	165
Starcross (nr Exeter)	20	↓	6	38	235	164	260

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

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		25/06-01/07		Accumulated until		01/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	8	↑	0	5	13	25	15
Gogarbank (Edinburgh)	7	↑	2	30	18	117	56
Newcastle	/	↓	2	10	6	19	29
York	29	↑	68	/	41	267	/
Preston	36	↑	5	22	56	219	72
Kirton	12	↑	2	91	25	24	112
Broom's Barn (nr Bury St Edmunds)	102	↑	18	245	165	37	273
Wellesbourne	9	↑	6	37	21	27	74
Hereford	10	↑	3	69	22	45	96
Rothamsted (Harpenden)	22	↑	7	113	32	17	135
Writtle	37	↑	10	183	48	23	225
Silwood Park (nr Ascot)	33	↑	25	43	45	36	80
Wye	13	↑	33	12	18	40	25
Starcross (nr Exeter)	7	↑	46	56	23	113	118

The grain aphid was caught and increasing at thirteen sites across the country this week with a hotspot at Broom's Barn (102).

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		25/06-01/07		Accumulated until		01/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0		12	2	1	53	9
Gogarbank (Edinburgh)	0		8	4	0	87	16
Newcastle	/		63	8	0	224	34
York	8	↑	56	/	26	846	/
Preston	43	↑	2	25	45	51	63
Kirton	3	↓	48	197	30	716	437
Broom's Barn (nr Bury St Edmunds)	53	↓	19	167	181	1134	707
Wellesbourne	134	↑	86	87	267	818	704
Hereford	85	↑	44	40	131	409	197
Rothamsted (Harpenden)	62	↑	25	63	130	262	264
Writtle	68	↑	2	160	213	115	523
Silwood Park (nr Ascot)	15	↑	3	4	42	22	52
Wye	6	↓	20	16	65	173	183
Starcross (nr Exeter)	24	↑	6	68	91	128	145

The peach–potato aphid was caught at eleven sites across England this week, with numbers increasing at eight. There was a hotspot at Wellesbourne (134).

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		25/06-01/07		Accumulated until		01/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	0	1	8	24	9
Gogarbank (Edinburgh)	3	↑	5	7	21	71	32
Newcastle	/		2	1	2	33	13
York	0	↓	5	/	5	34	/
Preston	1	↓	0	3	11	30	23
Kirton	1	↑	1	16	7	60	35
Broom's Barn (nr Bury St Edmunds)	0		1	14	2	21	26
Wellesbourne	0	↓	2	4	1	52	36
Hereford	0		4	14	5	114	50
Rothamsted (Harpenden)	3	↑	1	3	9	13	15
Writtle	0	↓	0	7	14	55	34
Silwood Park (nr Ascot)	0		0	1	5	6	17
Wye	0		0	0	2	14	10
Starcross (nr Exeter)	1		0	4	47	34	34

The potato aphid was caught at five sites in single figures this bulletin week, increasing in number at three.

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		25/06-01/07		Accumulated until		01/07
	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		1	0	0	34	6
Newcastle	/		6	1	0	17	7
York	1	↓	8	/	3	24	/
Preston	1		0	1	4	22	24
Kirton	1	↓	7	55	6	42	83
Broom's Barn (nr Bury St Edmunds)	11	↑	8	27	19	103	55
Wellesbourne	23	↑	6	156	35	53	694
Hereford	72	↑	9	38	93	101	186
Rothamsted (Harpenden)	23	↑	2	11	29	4	22
Writtle	87	↑	1	35	215	15	78
Silwood Park (nr Ascot)	51	↑	3	1	58	5	20
Wye	8	↓	7	5	26	15	32
Starcross (nr Exeter)	11	↓	4	38	88	58	126

The mealy cabbage aphid was recorded from eleven sites in England this week, increasing at six. The highest number caught was from Writtle (87).

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		25/06-01/07		Accumulated until		01/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↑	0	1	65	113	82
Gogarbank (Edinburgh)	1	↑	2	8	53	186	111
Newcastle	/	↓	8	13	15	154	96
York	8	↓	24	/	173	743	/
Preston	11	↑	6	36	79	604	648
Kirton	0	↓	5	101	284	927	833
Broom's Barn (nr Bury St Edmunds)	1	↓	2	48	1084	577	858
Wellesbourne	7	↓	6	41	192	770	619
Hereford	5	↑	4	13	52	839	466
Rothamsted (Harpenden)	10	↓	0	25	135	120	459
Writtle	8	↓	0	29	684	213	974
Silwood Park (nr Ascot)	19	↑	0	4	168	101	300
Wye	4	↓	0	22	183	135	416
Starcross (nr Exeter)	1	↓	0	14	130	158	162

The willow-carrot aphid was caught at twelve sites this week, with numbers increasing at five sites. The highest number found was from Silwood (19).

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		25/06-01/07		Accumulated until		01/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	0	1	3	7	3
Gogarbank (Edinburgh)	3	↑	0	3	5	4	8
Newcastle	/		0	1	1	9	6
York	18	↑	0	/	28	1	/
Preston	6	↑	0	7	15	9	13
Kirton	7	↓	8	60	21	67	109
Broom's Barn (nr Bury St Edmunds)	13	↓	9	55	53	56	116
Wellesbourne	29	↑	8	31	49	81	100
Hereford	44	↑	8	12	55	42	43
Rothamsted (Harpenden)	48	↑	14	37	102	61	89
Writtle	45	↑	2	72	71	79	142
Silwood Park (nr Ascot)	32	↑	2	3	50	12	40
Wye	19	↓	19	9	73	47	33
Starcross (nr Exeter)	6	↑	1	18	33	24	67

The pea aphid was recorded from twelve sites this week across Britain and increasing in number at nine. The highest number caught was from Rothamsted (48).

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		25/06-01/07		Accumulated until		01/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↑	0	0	2	6	3
Gogarbank (Edinburgh)	1	↑	0	1	3	16	5
Newcastle	/		1	1	0	5	2
York	1	↑	29	/	3	56	/
Preston	4	↑	14	9	8	49	15
Kirton	5	↓	6	47	11	14	53
Broom's Barn (nr Bury St Edmunds)	2	↓	0	74	43	100	112
Wellesbourne	13	↑	16	60	21	90	108
Hereford	12	↑	6	30	13	10	38
Rothamsted (Harpenden)	22	↑	21	73	45	85	141
Writtle	25	↑	0	86	53	80	169
Silwood Park (nr Ascot)	29	↑	0	21	54	11	48
Wye	4	↓	1	15	24	20	38
Starcross (nr Exeter)	6	↓	15	8	45	184	96

The black bean aphid was caught at thirteen sites this week and increasing in number at nine across Britain.

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](#)

Rothamsted Insect Survey: [Click here](#)

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