

20 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

- Cereal and oilseed rape harvest is underway in Britain. Monitoring of vulnerable crops (particularly potatoes) is still advised. Aphid abundance has generally decreased slightly this week in the STs.

CEREALS

- The overall numbers of cereal aphids have increased in the ST this week, predominantly due to a substantial increase in grain aphid numbers. However, the risk to crops is starting to pass for this season.

POTATOES

- Virus pressure has increased in all regions, except the Midlands, South West and the Borders. **Virus pressure is four times higher than the overall average for previous years in North Scotland, five times higher in Grampian, twice as high in Angus and Perthshire, and four times the average for Northern England.**
- The peach–potato aphid was recorded from all ST sites this week, with numbers increasing at six. The highest number was recorded from Hereford (445). They were also found in the Grampian region and across England in YWT, with the highest number recorded from the Northern England region.
- The potato aphid was caught at nine ST sites this bulletin week, with increasing numbers at eight. Numbers reached double figures at Dundee (32) and Gogarbank (14). They were also found in all regions across Britain in the YWTs except from the South-West.
- With regard to non-colonising vectors of PVY and PVA, the total numbers of cereal aphids have increased this week in the ST. However, leaf curling plum aphids and willow-carrot aphid numbers have continued to decrease in relation to last week.
- The black bean aphid was caught at twelve ST sites this week, increasing at eight. The highest number recorded was from Silwood (65). They were also recorded across Britain 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

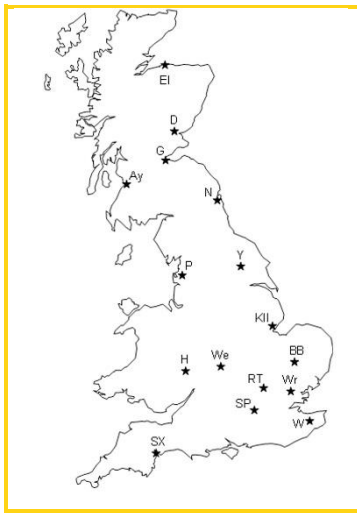
- The peach–potato aphid was recorded from all ST sites this week, with numbers increasing at six. The highest number was recorded from Hereford (445). They were also found in the Grampian region and across England in YWT, with the highest number recorded from the Northern England region.
- The mealy cabbage aphid was recorded from twelve ST sites this week and increasing at six, but decreasing in the South. There was also a hotspot at Hereford (529).
- Currant-lettuce aphids were recorded from six STs this week across Britain, most of the sites also recorded more than single individuals.

CARROTS

- The willow–carrot aphid was caught at ten ST sites in single figures this week, with numbers increasing at six.

PEAS and BEANS

- The pea aphid was recorded from all ST sites this week and increased in number at eight. Numbers reached three figures at Writtle (189) and Kirton (131).
- No field reports for this species 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 twelve ST sites this week, increasing in number at eight. The highest number recorded was from Silwood (65). No field reports for this species 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 **14: 9/7 – 15/7**.

‘*’ 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		09/07-15/07		Accumulated until		15/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	588	↑	1	631	1162	47	970
Gogarbank (Edinburgh)	77	↑	1	102	167	299	380
Newcastle	19	↑	0	26	35	59	88
York	74	↑	6	/	179	159	/
Preston	25	↓	2	16	133	205	308
Kirton	52	↑	3	309	117	239	1083
Broom’s Barn (Bury St Edmunds)	17	↓	5	277	339	195	905
Wellesbourne	56	↓	18	23	251	282	274
Hereford	74	↑	10	142	179	167	461
Rothamsted (Harpenden)	23	↓	4	231	194	87	560
Writtle	36	↓	5	145	349	84	525
Silwood Park (nr Ascot)	5	↓	0	33	130	32	130
Wye	35	↓	6	42	135	91	145
Starcross (nr Exeter)	5	↓	10	17	86	158	289

The rose-grain aphid was recorded from all sites and increased in number at six this bulletin week particularly towards the north of Britain. There was also a hotspot at Dundee (588).

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		09/07-15/07		Accumulated until		15/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1414	↓	5	273	2993	57	703
Gogarbank (Edinburgh)	522	↑	2	72	985	165	629
Newcastle	142	↑	2	38	257	95	278
York	39	↓	7	/	220	123	/
Preston	18	↓	6	14	65	889	171
Kirton	45	↑	9	80	153	90	645
Broom's Barn (nr Bury St Edmunds)	22	↓	17	85	136	108	700
Wellesbourne	21	↓	10	25	202	157	173
Hereford	4	↓	5	50	24	126	213
Rothamsted (Harpenden)	17	↓	1	66	103	46	323
Writtle	32	↓	14	54	142	101	414
Silwood Park (nr Ascot)	13	↓	7	18	116	63	179
Wye	27	↑	8	21	78	111	212
Starcross (nr Exeter)	18	↓	7	50	315	180	334

The bird cherry–oat aphid was recorded from all sites this bulletin week, but with numbers increasing at only four. There was a hotspot at Dundee (1414).

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		09/07-15/07		Accumulated until		15/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	306	↑	3	104	389	29	154
Gogarbank (Edinburgh)	68	↑	0	36	114	118	158
Newcastle	12	↓	3	15	41	29	54
York	448	↑	20	/	554	339	/
Preston	111	↑	8	19	202	241	164
Kirton	102	↑	17	294	155	51	755
Broom's Barn (nr Bury St Edmunds)	61	↓	22	212	450	95	690
Wellesbourne	95	↑	28	118	166	71	302
Hereford	133	↑	14	189	166	81	399
Rothamsted (Harpenden)	80	↓	18	340	205	79	789
Writtle	182	↓	62	209	458	139	699
Silwood Park (nr Ascot)	105	↑	6	104	210	51	192
Wye	48	↑	15	45	99	85	108
Starcross (nr Exeter)	43	↓	8	63	114	142	209

The grain aphid was found at all sites this week, increasing at nine. The highest number was recorded from York (448).

Peach-potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		09/07-15/07		Accumulated until		15/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	6	↑	10	3	8	84	18
Gogarbank (Edinburgh)	1		0	2	2	92	22
Newcastle	30	↑	4	3	30	256	41
York	114	↑	1	/	182	867	/
Preston	90	↑	0	2	148	63	125
Kirton	86	↓	1	86	211	739	704
Broom's Barn (nr Bury St Edmunds)	79	↓	0	72	1006	1154	877
Wellesbourne	329	↓	26	14	977	924	751
Hereford	445	↑	14	13	723	463	241
Rothamsted (Harpenden)	66	↓	3	60	548	275	414
Writtle	142	↓	11	95	801	128	719
Silwood Park (nr Ascot)	32	↓	0	8	117	37	65
Wye	32	↑	11	12	111	210	211
Starcross (nr Exeter)	4	↓	0	5	154	134	164

The peach-potato aphid was recorded from all sites this week, with numbers increasing at six. The highest number was recorded from Hereford (445). There was also a first arrival for Newcastle (9/7), this species has now been recorded from all ST this year.

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		09/07-15/07		Accumulated until		15/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	32	↑	0	4	48	24	15
Gogarbank (Edinburgh)	14	↑	0	3	42	72	46
Newcastle	2	↑	0	2	5	33	16
York	4	↑	0	/	9	34	/
Preston	0		0	1	11	30	28
Kirton	0	↓	0	3	9	62	58
Broom's Barn (nr Bury St Edmunds)	1	↑	0	3	3	21	31
Wellesbourne	3	↑	0	3	4	52	41
Hereford	4	↑	0	17	8	114	84
Rothamsted (Harpenden)	2	↓	0	3	15	17	21
Writtle	2	↑	1	3	16	58	40
Silwood Park (nr Ascot)	0		0	0	5	6	18
Wye	0		0	1	2	16	12
Starcross (nr Exeter)	0	↓	2	2	48	36	38

The potato aphid was caught at nine sites this bulletin week, with increasing numbers at eight. Numbers reached double figures at Dundee (32) and Gogarbank (14).

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		09/07-15/07		Accumulated until		15/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↑	0	0	1	6	1
Gogarbank (Edinburgh)	0	↓	0	0	1	36	6
Newcastle	0		0	0	0	18	7
York	100	↑	1	/	112	29	/
Preston	24	↑	0	1	28	22	27
Kirton	26	↑	8	25	51	52	162
Broom's Barn (nr Bury St Edmunds)	63	↓	4	40	244	113	113
Wellesbourne	220	↑	7	123	402	80	937
Hereford	529	↑	16	41	738	153	258
Rothamsted (Harpenden)	49	↓	0	18	186	4	53
Writtle	346	↓	0	34	1400	21	151
Silwood Park (nr Ascot)	21	↓	3	11	109	17	38
Wye	21	↓	6	5	69	45	62
Starcross (nr Exeter)	36	↓	9	20	161	83	158

The mealy cabbage aphid was recorded from twelve sites this week and increasing at six, but decreasing in the south. There was also a hotspot at Hereford (529) and a first arrival at Dundee (14/7).

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		09/07-15/07		Accumulated until		15/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	6	↑	0	4	72	113	88
Gogarbank (Edinburgh)	2	↑	0	1	55	186	120
Newcastle	0	↓	0	3	17	165	107
York	8	↑	0	/	181	743	/
Preston	2		0	5	83	608	667
Kirton	2	↑	1	7	286	930	860
Broom's Barn (nr Bury St Edmunds)	0	↓	0	10	1088	577	884
Wellesbourne	1	↓	0	3	205	774	624
Hereford	0		0	8	52	841	489
Rothamsted (Harpenden)	1	↑	0	8	136	120	476
Writtle	0	↓	0	6	685	213	989
Silwood Park (nr Ascot)	1	↑	0	1	169	101	302
Wye	1		0	2	185	135	424
Starcross (nr Exeter)	1	↓	0	6	137	160	177

The willow-carrot aphid was caught at ten sites in single figures this week, with numbers increasing at six. The highest number found was at York (8).

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		09/07-15/07		Accumulated until		15/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	84	↑	0	10	125	8	14
Gogarbank (Edinburgh)	4	↓	0	5	15	4	23
Newcastle	7	↑	0	2	13	9	9
York	23	↑	0	/	71	9	/
Preston	10	↓	0	1	37	17	27
Kirton	131	↑	28	127	184	129	372
Broom's Barn (nr Bury St Edmunds)	54	↓	58	143	230	134	341
Wellesbourne	80	↓	13	37	256	144	223
Hereford	28	↑	0	23	104	42	80
Rothamsted (Harpenden)	87	↓	32	102	305	129	238
Writtle	189	↑	162	154	384	293	407
Silwood Park (nr Ascot)	64	↑	13	13	128	34	60
Wye	29	↑	42	46	121	123	112
Starcross (nr Exeter)	2	↓	0	6	46	24	77

The pea aphid was recorded from all sites this week and increased in number at eight. Numbers reached three figures at Writtle (189) and Kirton (131).

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		09/07-15/07		Accumulated until		15/07
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	44	↑	0	5	52	6	9
Gogarbank (Edinburgh)	6	↑	12	4	10	28	9
Newcastle	0		4	6	0	9	9
York	22	↑	23	/	25	103	/
Preston	4	↑	4	3	12	63	24
Kirton	30	↑	7	55	44	37	164
Broom's Barn (nr Bury St Edmunds)	4	↓	1	34	75	107	264
Wellesbourne	12	↑	14	34	43	114	194
Hereford	11	↑	2	33	31	18	105
Rothamsted (Harpenden)	0	↓	10	107	79	111	334
Writtle	13	↓	2	52	112	86	303
Silwood Park (nr Ascot)	65	↑	2	16	145	13	72
Wye	4		1	12	32	29	81
Starcross (nr Exeter)	2	↓	4	11	55	234	122

The black bean aphid was caught at twelve sites this week, increasing in number at eight. The highest number recorded was from Silwood (65).

Further information

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

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

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