

31 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

- Harvest is drawing to a close across many parts of Britain but is still being hampered by rain showers in others.
- Aphid abundance has increased by about 20% compared with last week in the STs. This increase, however, is almost entirely attributed to an increase in common sycamore aphid numbers.
- Monitoring of any remaining vulnerable crops is advised.

## CEREALS

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

## POTATOES

- The number of YWT samples received has continued to decrease this week across Britain. Samples were only received from the Grampian as well as Angus and Perthshire regions where **virus pressure is very low**.
- The peach–potato aphid was only recorded in ST samples from Kirton (19) and Hereford (1) this week. They were not recorded from YWT samples this week.
- Once again, only a single potato aphid was recorded from the ST this bulletin week – from Dundee (1). They were not recorded from YWT samples this week.
- 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 only caught at Dundee (9), Gogarbank (3) and Hereford (1) this week. They were also recorded in the YWT from the Grampian 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

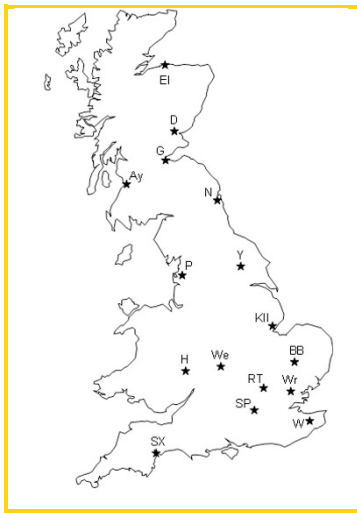
- The peach–potato aphid was only recorded in ST samples from Kirton (19) and Hereford (1) this week. They were not recorded from YWT samples this week.
- The mealy cabbage aphid was recorded from four sites in the ST this week but increasing at only Preston (8) and Kirton (26).
- A single currant-lettuce aphid was recorded from the Hereford ST this week.

## CARROTS

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

## PEAS and BEANS

- Single pea aphids were recorded from Dundee, York and Wye this week in the STs. The risk to crops has passed for this season.
- The black bean aphid was only caught at Dundee (9), Gogarbank (3) and Hereford (1) in the STs 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 **20: 20/8 – 26/8**.

‘\*’ 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		20/08-26/08		Accumulated until		26/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	6	2	5174	65	5013
Gogarbank (Edinburgh)	0	↓	5	1	360	308	511
Newcastle	0		0	1	66	61	257
York	0		0	/	242	168	/
Preston	0		0	1	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	0	261	291	306
Hereford	2	↑	0	1	189	180	537
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

Only two rose-grain aphids were recorded this week, both were from Hereford.

Bird cherry–oat aphid ( <i>Rhopalosiphum padi</i> )	Bulletin Week Totals 20/08-26/08				Accumulated until		26/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	33	↓	46	106	8857	142	2189
Gogarbank (Edinburgh)	34	↑	156	140	1801	386	1183
Newcastle	38	↑	84	42	413	238	560
York	18	↑	64	/	302	313	/
Preston	26	↑	48	64	128	1052	383
Kirton	7	↑	33	30	233	249	982
Broom's Barn (nr Bury St Edmunds)	5	↑	24	31	207	234	926
Wellesbourne	7	↓	59	46	269	302	476
Hereford	30	↑	69	66	94	258	650
Rothamsted (Harpenden)	2	↓	56	38	119	146	584
Writtle	4	↓	39	19	210	158	594
Silwood Park (nr Ascot)	2	↑	27	16	131	109	300
Wye	4	↑	40	21	97	217	406
Starcross (nr Exeter)	4	↑	52	56	327	333	783

The bird cherry–oat aphid was recorded from all sites this bulletin week, with numbers increasing at ten. The highest number recorded was from Newcastle (38).

Grain aphid ( <i>Sitobion avenae</i> )	Bulletin Week Totals 20/08-26/08				Accumulated until		26/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	4	↓	9	21	1903	57	1244
Gogarbank (Edinburgh)	8	↑	17	20	398	161	338
Newcastle	1	↓	5	7	216	56	196
York	0		0	/	1574	387	/
Preston	4	↑	1	4	329	267	256
Kirton	0		0	5	522	72	1344
Broom's Barn (nr Bury St Edmunds)	0		0	3	564	110	983
Wellesbourne	0	↓	0	4	231	100	627
Hereford	2	↓	2	11	211	102	741
Rothamsted (Harpenden)	0	↓	0	3	262	105	1062
Writtle	0	↓	0	2	629	158	1038
Silwood Park (nr Ascot)	0		0	1	227	58	232
Wye	0	↓	0	1	144	102	187
Starcross (nr Exeter)	0		0	2	134	150	291

The grain aphid was found in single figures at five sites this week but increasing at only Gogarbank and Preston. Gogarbank also recorded the highest number of these aphids (8).

Peach-potato aphid ( <i>Myzus persicae</i> )	Bulletin Week Totals		20/08-26/08		Accumulated until		26/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	1	1	65	93	36
Gogarbank (Edinburgh)	0	↓	1	0	31	97	26
Newcastle	0		0	1	65	263	48
York	0		0	/	464	867	/
Preston	0		0	1	157	63	130
Kirton	19	↓	7	2	983	751	787
Broom's Barn (nr Bury St Edmunds)	0		0	1	1132	1154	994
Wellesbourne	0		0	0	985	931	761
Hereford	1	↑	0	2	734	465	277
Rothamsted (Harpenden)	0		0	0	557	275	511
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	136	180

The peach-potato aphid was only recorded from Kirton (19) and Hereford (1) this week.

Potato aphid ( <i>Macrosiphum euphorbiae</i> )	Bulletin Week Totals		20/08-26/08		Accumulated until		26/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1		0	0	140	26	66
Gogarbank (Edinburgh)	0		1	0	67	73	59
Newcastle	0		0	0	13	33	23
York	0		0	0	27	34	0
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	35
Wellesbourne	0		0	0	8	52	46
Hereford	0		0	4	8	115	118
Rothamsted (Harpenden)	0		0	0	16	17	24
Writtle	0		0	1	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	1	49	36	42

Only a single potato aphid was recorded this bulletin week from Dundee (1).

Cabbage aphid ( <i>Brevicoryne brassicae</i> )	Bulletin Week Totals		20/08-26/08		Accumulated until		26/08
	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	11	36	7
Newcastle	1	↓	0	0	35	19	8
York	0	↓	0	/	417	33	/
Preston	8	↑	0	0	92	22	28
Kirton	26	↑	0	1	282	53	175
Broom's Barn (nr Bury St Edmunds)	0		0	0	319	113	147
Wellesbourne	0		0	0	540	82	981
Hereford	0	↓	0	7	767	165	310
Rothamsted (Harpenden)	0		0	1	199	4	86
Writtle	0		1	0	1445	24	215
Silwood Park (nr Ascot)	0		0	0	123	17	45
Wye	0		0	0	94	47	74
Starcross (nr Exeter)	1		0	2	203	84	233

The mealy cabbage aphid was recorded from four sites this week but increasing at only Preston (8) and Kirton (26).

Willow-carrot aphid ( <i>Cavariella aegopodii</i> )	Bulletin Week Totals		20/08-26/08		Accumulated until		26/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	4	↑	2	4	84	118	123
Gogarbank (Edinburgh)	0		0	1	58	187	125
Newcastle	0		0	0	19	167	112
York	0		0	/	184	743	/
Preston	0		0	3	89	610	675
Kirton	0		1	1	288	931	869
Broom's Barn (nr Bury St Edmunds)	0		0	1	1092	577	891
Wellesbourne	0		0	0	205	774	626
Hereford	0		0	0	54	842	493
Rothamsted (Harpenden)	0		0	0	136	120	480
Writtle	0		0	0	685	213	992
Silwood Park (nr Ascot)	0		0	0	169	101	303
Wye	0		0	0	189	135	425
Starcross (nr Exeter)	0		0	0	137	160	180

Four willow-carrot aphids were recorded this week from Dundee.

Pea aphid ( <i>Acyrtosiphon pisum</i> )	Bulletin Week Totals 20/08-26/08				Accumulated until		26/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1		0	2	335	12	98
Gogarbank (Edinburgh)	0	↓	1	1	75	6	40
Newcastle	0	↓	0	1	55	12	43
York	1	↓	0	/	349	9	/
Preston	0	↓	0	1	43	17	32
Kirton	0		2	2	967	141	1056
Broom's Barn (nr Bury St Edmunds)	0		0	1	329	144	607
Wellesbourne	0		2	0	268	185	332
Hereford	0		0	3	122	47	124
Rothamsted (Harpenden)	0	↓	0	1	327	144	416
Writtle	0		2	1	463	313	691
Silwood Park (nr Ascot)	0		0	0	140	44	82
Wye	1	↑	0	1	226	145	194
Starcross (nr Exeter)	0	↓	4	2	48	38	94

Single pea aphids were recorded from Dundee, York and Wye this week.

Black bean aphid ( <i>Aphis fabae</i> )	Bulletin Week Totals 20/08-26/08				Accumulated until		26/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	9	↑	4	8	379	15	105
Gogarbank (Edinburgh)	3	↑	8	7	53	68	52
Newcastle	0		1	1	8	20	46
York	0		0	/	54	107	/
Preston	0	↓	0	1	25	63	29
Kirton	0		0	0	98	39	203
Broom's Barn (nr Bury St Edmunds)	0		0	1	105	108	283
Wellesbourne	0		0	0	45	119	213
Hereford	1	↑	0	1	38	19	149
Rothamsted (Harpenden)	0		0	0	90	115	380
Writtle	0		0	0	124	86	327
Silwood Park (nr Ascot)	0		0	0	149	14	87
Wye	0		1	0	41	30	109
Starcross (nr Exeter)	0		0	0	56	235	129

The black bean aphid was only caught at Dundee (9), Gogarbank (3) and Hereford (1) this week.

## Further information

Please send information on crop aphids to: [alex.greenslade@rothamsted.ac.uk](mailto:alex.greenslade@rothamsted.ac.uk)

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

AHDB Potatoes: [Click here](#)

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