

24 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 –The harvest is nearing completion across many parts of southern Britain and continuing in the north particularly for cereals. The monitoring of any remaining vulnerable crops is still advised. Aphid abundance has increased by about a third of that of last week in the ST. The early harvest together with the extremely dry weather conditions experienced this summer may possibly result in the lack of a green bridge for virus transmission this year, particularly in the south east of Britain.

CEREALS

- The total number of cereal aphids recorded have increased slightly over most of Britain in the ST this week. This increase is due to an increased number of the Bird cherry - oat aphids being caught; the numbers of other cereal aphids have decreased. The risk to crops is has passed 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 Dundee (3), Gogarbank (2) and Kirton (20) this week. They were also found from YWT samples from East Anglia this week.
- Only a single potato aphid was recorded this bulletin week from Dundee (1). They were not recorded from YWT samples this week.
- With regards to non-colonising vectors of PVY and PVA; the total number of cereal aphids have increased this week but the leaf curling plum aphids have continued to decrease in the ST.
- The black bean aphid was only caught at Dundee (4), Gogarbank (1) and Preston (1) this week. They were also recorded from the Grampian region as well as Angus and Perthshire 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

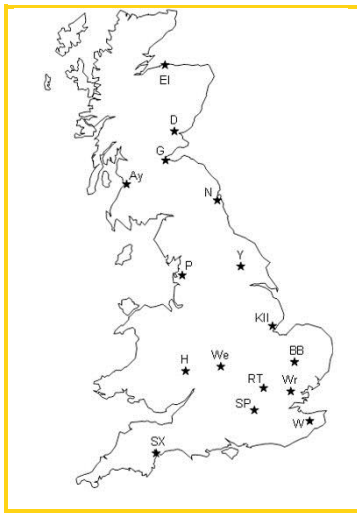
- The peach–potato aphid was only recorded from Dundee (3), Gogarbank (2) and Kirton (20) this week. They were also found from YWT samples from East Anglia this week.
- The mealy cabbage aphid was recorded from six sites this week but increasing at only four, mainly in northern Britain.
- No currant-lettuce aphids were recorded from the ST this week.

CARROTS

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

PEAS and BEANS

- The pea aphid was recorded in single figures from seven sites this week, but increasing at only four. The risk to crops has passed for this season.
- The black bean aphid was only caught at Dundee (4), Gogarbank (1) and Preston (1) in the ST 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 **19: 13/8 – 19/8**.

‘*’ 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		13/08-19/08		Accumulated until		19/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↓	7	14	5174	59	5012
Gogarbank (Edinburgh)	2	↓	1	2	360	303	510
Newcastle	0		1	8	66	61	256
York	0		0	/	242	168	/
Preston	0		2	1	144	217	321
Kirton	0		0	2	267	244	1545
Broom’s Barn (Bury St Edmunds)	0		0	0	355	202	1074
Wellesbourne	0		0	1	261	291	305
Hereford	0		0	1	187	180	536
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	164
Starcross (nr Exeter)	0		0	0	92	170	304

The rose-grain aphid was only recorded from Dundee (1) and Gogarbank (2) this week.

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals 13/08-19/08				Accumulated until		19/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	49	↑	14	182	8824	96	2083
Gogarbank (Edinburgh)	32	↓	16	98	1767	230	1043
Newcastle	11	↑	17	60	375	154	519
York	0	↓	27	/	284	249	/
Preston	22	↑	23	45	102	1004	319
Kirton	2	↑	32	35	226	216	952
Broom's Barn (nr Bury St Edmunds)	1		18	23	202	210	895
Wellesbourne	13	↑	11	65	262	243	430
Hereford	9	↓	16	69	64	189	583
Rothamsted (Harpenden)	3	↓	22	24	117	90	546
Writtle	8	↑	0	13	206	119	575
Silwood Park (nr Ascot)	0	↓	6	13	129	82	284
Wye	3	↑	17	18	93	177	386
Starcross (nr Exeter)	0	↓	35	30	323	281	727

The bird cherry–oat aphid was recorded from eleven sites this bulletin week, with numbers increasing at seven. The highest number recorded was from Gogarbank (49).

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals 13/08-19/08				Accumulated until		19/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	10	↓	5	87	1899	48	1223
Gogarbank (Edinburgh)	5	↓	0	18	390	144	318
Newcastle	4	↑	8	27	215	51	189
York	0	↓	2	/	1574	387	/
Preston	0	↓	2	9	325	266	252
Kirton	0		1	11	522	72	1340
Broom's Barn (nr Bury St Edmunds)	0		0	5	564	110	980
Wellesbourne	3	↓	1	9	231	100	623
Hereford	4	↑	0	18	209	100	731
Rothamsted (Harpenden)	1		0	6	262	105	1060
Writtle	1	↑	0	2	629	158	1035
Silwood Park (nr Ascot)	0	↓	0	2	227	58	231
Wye	1	↑	0	2	144	102	186
Starcross (nr Exeter)	0		0	2	134	150	289

The grain aphid was found at eight sites this week but increasing at only four.

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		13/08-19/08		Accumulated until		19/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	3	↑	0	2	65	92	34
Gogarbank (Edinburgh)	2	↑	0	1	31	96	25
Newcastle	0		0	1	65	263	47
York	0	↓	0	/	464	867	/
Preston	0		0	0	157	63	129
Kirton	20	↑	1	2	964	744	785
Broom's Barn (nr Bury St Edmunds)	0		0	1	1132	1154	993
Wellesbourne	0		0	0	985	931	761
Hereford	0		0	1	733	465	274
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		0	1	157	135	179

The peach–potato aphid was only recorded from Dundee (3), Gogarbank (2) and Kirton (20) this week.

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		13/08-19/08		Accumulated until		19/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1		0	1	139	26	66
Gogarbank (Edinburgh)	0	↓	0	1	67	72	59
Newcastle	0		0	1	13	33	23
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	3	8	115	114
Rothamsted (Harpenden)	0		0	0	16	17	23
Writtle	0		0	0	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	0	49	36	41

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

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		13/08-19/08		Accumulated until		19/08
	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)	1	↑	0	0	11	36	6
Newcastle	3	↑	1	0	34	19	8
York	6	↑	0	/	417	33	/
Preston	0	↓	0	0	84	22	28
Kirton	16	↓	1	0	256	53	174
Broom's Barn (nr Bury St Edmunds)	0		0	1	319	113	147
Wellesbourne	0	↓	0	1	540	82	981
Hereford	1	↓	1	3	767	165	302
Rothamsted (Harpenden)	0	↓	0	1	199	4	85
Writtle	0		0	1	1445	23	215
Silwood Park (nr Ascot)	0		0	0	123	17	44
Wye	0		0	0	94	47	74
Starcross (nr Exeter)	1	↑	0	1	202	84	232

The mealy cabbage aphid was recorded from six sites this week but increasing at only four, mainly in northern Britain.

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		13/08-19/08		Accumulated until		19/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↑	1	5	80	116	120
Gogarbank (Edinburgh)	0		0	0	58	187	125
Newcastle	0		1	1	19	167	112
York	0	↓	0	/	184	743	/
Preston	0		0	1	89	610	672
Kirton	0		0	1	288	930	868
Broom's Barn (nr Bury St Edmunds)	0		0	0	1092	577	890
Wellesbourne	0		0	0	205	774	626
Hereford	0		1	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

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

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		13/08-19/08		Accumulated until		19/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↓	1	3	334	12	96
Gogarbank (Edinburgh)	1	↓	0	1	75	5	39
Newcastle	1	↑	1	3	55	12	42
York	3	↓	0	/	348	9	/
Preston	1	↑	0	0	43	17	31
Kirton	0	↓	0	2	967	139	1054
Broom's Barn (nr Bury St Edmunds)	0		0	1	329	144	606
Wellesbourne	0	↓	0	4	268	183	331
Hereford	0	↓	1	3	122	47	121
Rothamsted (Harpenden)	1	↑	0	2	327	144	415
Writtle	0		0	1	463	311	689
Silwood Park (nr Ascot)	0		0	0	140	44	81
Wye	0		0	0	225	145	193
Starcross (nr Exeter)	1	↑	0	1	48	34	92

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

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		13/08-19/08		Accumulated until		19/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	4		2	11	370	11	97
Gogarbank (Edinburgh)	1	↓	0	5	50	60	45
Newcastle	0		2	3	8	19	45
York	0	↓	0	/	54	107	/
Preston	1	↑	0	0	25	63	29
Kirton	0		0	0	98	39	203
Broom's Barn (nr Bury St Edmunds)	0		0	1	105	108	282
Wellesbourne	0		0	0	45	119	213
Hereford	0		0	1	37	19	148
Rothamsted (Harpenden)	0		0	0	90	115	380
Writtle	0		0	1	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	129

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

Further information

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

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

AHDB Potatoes: [Click here](#)

AHDB Horticulture: [Click here](#)

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