

07 September 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 nearly complete across Britain and the aphid threat has largely passed for the 2017/18 crop.
- Aphid abundance has increased this week in the ST – particularly the bird cherry–oat aphid, which doubled in number compared with last week – while aphid diversity has decreased.

## CEREALS

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

## POTATOES

- YWT samples were only received from northern England, the Midlands and East Anglia this week. Trapping has almost finished for this year. Northern England was at moderate risk but the Midlands and East Anglia were at low risk.
- The peach–potato aphid was recorded from five ST sites this week, with numbers increasing at three towards the north of Britain. They were also recorded from a single YWT sample from northern England this week.
- No potato aphids were recorded this bulletin week from ST or YWT samples.
- 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 caught at four sites with single aphids found at all but Dundee (8) in the ST this week. They were also recorded in the YWT from the Midlands 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

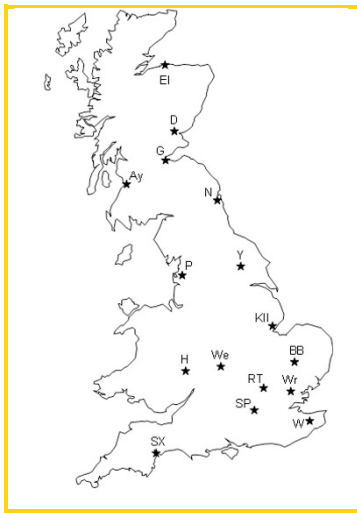
- The peach–potato aphid was recorded from five ST sites this week, with numbers increasing at three towards the north of Britain. They were also recorded from a single YWT sample from northern England this week.
- The mealy cabbage aphid was recorded from five sites this week but increasing at only three.
- No currant-lettuce aphids were recorded from the ST this week.

## CARROTS

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

## PEAS and BEANS

- Pea aphids were recorded from Preston (3), Wellesbourne (1) and Hereford (2) this week in the ST. The risk to crops has passed for this season.
- The black bean aphid was caught at four sites with single aphids found at all but Dundee (8) 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 **21: 27/8 – 2/9**.

‘\*’ 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		27/08-02/09		Accumulated until		02/09
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	1	↑	1	0	5175	66	5014
Gogarbank (Edinburgh)	1	↑	1	1	361	309	512
Newcastle	0		1	2	66	62	259
York	0		0	/	242	168	/
Preston	0		0	0	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	1	261	291	306
Hereford	0	↓	2	1	189	182	538
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

Single rose–grain aphids were recorded this week, from Dundee and Gogarbank.

Bird cherry–oat aphid ( <i>Rhopalosiphum padi</i> )	Bulletin Week Totals 27/08-02/09				Accumulated until		02/09
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	82	↑	82	110	8939	224	2300
Gogarbank (Edinburgh)	47	↑	228	118	1848	614	1301
Newcastle	30	↓	203	142	443	441	703
York	15	↓	192	/	317	505	/
Preston	42	↑	28	84	170	1080	467
Kirton	25	↑	42	16	258	291	998
Broom's Barn (nr Bury St Edmunds)	21	↑	47	22	228	281	947
Wellesbourne	36	↑	89	68	305	391	544
Hereford	71	↑	36	56	165	294	706
Rothamsted (Harpenden)	11	↑	66	27	130	212	611
Writtle	17	↑	25	15	227	183	609
Silwood Park (nr Ascot)	9	↑	19	18	140	128	318
Wye	29	↑	33	21	126	250	427
Starcross (nr Exeter)	12	↑	67	46	339	400	828

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

Grain aphid ( <i>Sitobion avenae</i> )	Bulletin Week Totals 27/08-02/09				Accumulated until		02/09
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	3	↓	13	8	1906	70	1252
Gogarbank (Edinburgh)	1	↓	9	7	399	170	346
Newcastle	3	↑	6	9	219	62	204
York	0		4	/	1574	391	/
Preston	0	↓	4	3	329	271	259
Kirton	0		0	1	522	72	1345
Broom's Barn (nr Bury St Edmunds)	0		0	0	564	110	983
Wellesbourne	0		1	3	231	101	630
Hereford	4	↑	0	7	215	102	748
Rothamsted (Harpenden)	0		0	2	262	105	1064
Writtle	0		1	1	629	159	1039
Silwood Park (nr Ascot)	0		0	0	227	58	232
Wye	0		0	2	144	102	189
Starcross (nr Exeter)	0		1	2	134	151	293

The grain aphid was found in single figures at four sites this week but increasing at only Newcastle and Hereford.

Peach–potato aphid ( <i>Myzus persicae</i> )	Bulletin Week Totals 27/08-02/09				Accumulated until 02/09		
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	8	↑	6	2	73	99	37
Gogarbank (Edinburgh)	0		0	0	31	97	26
Newcastle	1	↑	0	0	66	263	48
York	1	↑	0	/	465	867	/
Preston	0		0	1	157	63	130
Kirton	7	↓	8	2	990	759	789
Broom's Barn (nr Bury St Edmunds)	0		1	1	1132	1155	995
Wellesbourne	0		0	1	985	931	762
Hereford	1		0	1	735	465	277
Rothamsted (Harpenden)	0		0	0	557	275	512
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	137	181

The peach–potato aphid was recorded from five sites this week, with numbers increasing at three towards the north of Britain.

Potato aphid ( <i>Macrosiphum euphorbiae</i> )	Bulletin Week Totals 27/08-02/09				Accumulated until 02/09		
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	0	0	140	26	67
Gogarbank (Edinburgh)	0		0	0	67	73	59
Newcastle	0		1	1	13	34	24
York	0		0	/	27	34	/
Preston	0		0	0	13	30	31
Kirton	0		0	0	11	62	66
Broom's Barn (nr Bury St Edmunds)	0		0	0	3	22	35
Wellesbourne	0		0	0	8	52	46
Hereford	0		0	1	8	115	118
Rothamsted (Harpenden)	0		0	0	16	17	24
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	42

No potato aphids were recorded this bulletin week.

Cabbage aphid ( <i>Brevicoryne brassicae</i> )	Bulletin Week Totals		27/08-02/09		Accumulated until		02/09
	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)	5	↑	0	0	16	36	7
Newcastle	3	↑	0	0	38	19	8
York	0		0	/	417	33	/
Preston	6	↓	0	0	98	22	28
Kirton	3	↓	1	1	285	54	176
Broom's Barn (nr Bury St Edmunds)	0		0	0	319	113	147
Wellesbourne	1	↑	2	1	541	84	981
Hereford	0		0	3	767	165	313
Rothamsted (Harpenden)	0		0	1	199	4	87
Writtle	0		0	0	1445	24	215
Silwood Park (nr Ascot)	0		0	0	123	17	45
Wye	0		0	0	94	47	74
Starcross (nr Exeter)	0	↓	0	2	203	84	235

The mealy cabbage aphid was recorded from five sites this week but increasing at only three.

Willow-carrot aphid ( <i>Cavariella aegopodii</i> )	Bulletin Week Totals		27/08-02/09		Accumulated until		02/09
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	8	↑	7	8	92	125	131
Gogarbank (Edinburgh)	0		2	1	58	189	126
Newcastle	0		0	1	19	167	113
York	0		0	/	184	743	/
Preston	0		2	1	89	612	677
Kirton	0		2	2	288	933	871
Broom's Barn (nr Bury St Edmunds)	0		2	2	1092	579	894
Wellesbourne	0		0	0	205	774	626
Hereford	0		0	0	54	842	494
Rothamsted (Harpenden)	1	↑	0	0	137	120	481
Writtle	0		0	0	685	213	992
Silwood Park (nr Ascot)	0		0	0	169	101	303
Wye	0		0	0	189	135	426
Starcross (nr Exeter)	0		0	0	137	160	180

Willow-carrot aphids were only recorded this week from Dundee (8) and Rothamsted (1).

Pea aphid ( <i>Acyrtosiphon pisum</i> )	Bulletin Week Totals		27/08-02/09		Accumulated until		02/09
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	1	0	335	13	99
Gogarbank (Edinburgh)	0		0	1	75	6	41
Newcastle	0		0	0	55	12	43
York	0	↓	0	/	349	9	/
Preston	3	↑	0	0	46	17	32
Kirton	0		0	2	967	141	1058
Broom's Barn (nr Bury St Edmunds)	0		0	0	329	144	607
Wellesbourne	1	↑	0	2	269	185	333
Hereford	2	↑	0	0	124	47	124
Rothamsted (Harpenden)	0		0	1	327	144	417
Writtle	0		2	1	463	315	691
Silwood Park (nr Ascot)	0		0	0	140	44	82
Wye	0	↓	2	1	226	147	196
Starcross (nr Exeter)	0		1	1	48	39	95

Pea aphids were recorded from Preston (3), Wellesbourne (1) and Hereford (2) this week.

Black bean aphid ( <i>Aphis fabae</i> )	Bulletin Week Totals		27/08-02/09		Accumulated until		02/09
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	8	↓	4	5	387	19	110
Gogarbank (Edinburgh)	0	↓	3	4	53	71	56
Newcastle	1	↑	4	4	9	24	50
York	0		0	/	54	107	/
Preston	0		0	1	25	63	31
Kirton	0		0	1	98	39	204
Broom's Barn (nr Bury St Edmunds)	0		0	1	105	108	284
Wellesbourne	1	↑	0	1	46	119	214
Hereford	0	↓	0	0	38	19	149
Rothamsted (Harpenden)	1	↑	0	0	91	115	381
Writtle	0		0	0	124	86	327
Silwood Park (nr Ascot)	0		0	0	149	14	87
Wye	0		0	0	41	30	109
Starcross (nr Exeter)	0		0	0	56	235	129

The black bean aphid was caught at four sites this week with single aphids found at all but Dundee (8).

## 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](#)

AHDB Horticulture: [Click here](#)

Rothamsted Insect Survey: [Click here](#)

Science and Advice for Scottish Agriculture (SASA): [Click here](#)

In partnership with



AHDB publications are free to levy payers  
Electronic version can be downloaded at [cereals.ahdb.org.uk/aphidnews](http://cereals.ahdb.org.uk/aphidnews)  
To join the mailing lists, contact: [comms@ahdb.org.uk](mailto:comms@ahdb.org.uk)

While the Agriculture and Horticulture Development Board seeks to ensure that the information contained within this document is accurate at the time of printing, no warranty is given in respect thereof and, to the maximum extent permitted by law, the Agriculture and Horticulture Development Board accepts no liability for loss, damage or injury howsoever caused (including that caused by negligence) or suffered directly or indirectly in relation to information and opinions contained in or omitted from this document. Reference herein to trade names and proprietary products without stating that they are protected does not imply that they may be regarded as unprotected and thus free for general use. No endorsement of named products is intended, nor is any criticism implied of other alternative but unnamed products.

© Agriculture and Horticulture Development Board 2018. All rights reserved