

10 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

- Cereal, oilseed rape (OSR), pea, bean and potato harvest is underway.
- Monitoring of vulnerable crops is still advised.
- Aphid abundance has decreased to a half of that of last week in the ST.
- All aphid species reported are decreasing across most of the country.
- The early harvest, together with the extremely dry weather conditions, may result in the lack of a green bridge for virus transmission this year, particularly in the South East.

CEREALS

- The numbers of cereal aphids have decreased substantially over most of Britain in the ST this week. The risk to crops is passing for this season.

POTATOES

- The number of YWT samples received decreased this week. **Virus pressure has also decreased in all regions.**
- The peach-potato aphid was recorded from six ST sites this week, increasing at Newcastle. There was a hotspot at Kirton (67). They were also found from YWT across all regions in Scotland, as well as in northern England.
- The potato aphid was recorded from Dundee, Gogarbank and Newcastle in the ST this bulletin week, with numbers increasing at only Newcastle. They were also found in YWT samples, from Grampian, Angus and Perthshire, as well as northern England this week.
- With regard to non-colonising vectors of PVY and PVA, the total numbers of cereal aphids, leaf curling plum aphids and willow-carrot aphid have all decreased this week in the ST.
- The black bean aphid was caught at five ST sites this week. There was a hotspot at Dundee (32). They were also recorded from all regions across Britain, apart from the north of Scotland, the Midlands and East Anglia 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

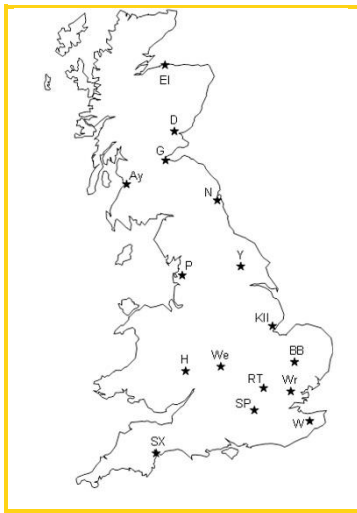
- The peach-potato aphid was recorded from six ST sites this week and increasing at Newcastle. There was a hotspot at Kirton (67). They were also found from YWT across all regions in Scotland as well as in northern England.
- The mealy cabbage aphid was recorded from 10 ST sites this week but decreasing across the country, apart from Hereford (where there was an increase).
- One currant-lettuce aphid was recorded from the Kirton ST this week.

CARROTS

- No willow-carrot aphids were recorded this week from the ST.

PEAS and BEANS

- The pea aphid was recorded from nine ST sites this week but increasing at only Newcastle and Hereford. The highest number was recorded from York (42). The risk to crops is now passing for this season.
- The black bean aphid was caught at five ST sites this week. There was a hotspot at Dundee (32). The risk to crops is now passing for this season.



Suction-trapping Results

The information below relates to suction-trap samples collected during Bulletin Week **17: 30/7 – 5/8**.

‘*’ 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		30/07-05/08		Accumulated until		05/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	79	↓	2	1521	5167	49	4471
Gogarbank (Edinburgh)	20	↓	0	9	349	301	505
Newcastle	3	↓	0	83	66	60	240
York	2	↓	4	/	242	168	/
Preston	0	↓	0	2	144	212	319
Kirton	2	↓	1	35	267	244	1539
Broom’s Barn (Bury St Edmunds)	0	↓	1	17	355	202	1072
Wellesbourne	1	↓	0	3	261	291	304
Hereford	3		0	7	187	180	530
Rothamsted (Harpenden)	0		0	4	198	91	607
Writtle	0		1	4	354	88	634
Silwood Park (nr Ascot)	0		0	1	130	33	135
Wye	0		0	1	137	92	164
Starcross (nr Exeter)	1	↓	0	2	92	170	303

The rose-grain aphid was recorded from eight sites this week with numbers across the country, particularly in the north. The highest number recorded was from Dundee (79).

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals				Accumulated until		
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	117	↓	3	351	8747	70	1656
Gogarbank (Edinburgh)	48	↓	6	99	1664	209	868
Newcastle	23	↓	5	65	364	130	405
York	0	↓	16	/	282	198	/
Preston	0		17	31	70	937	242
Kirton	5	↓	15	78	224	143	875
Broom's Barn (nr Bury St Edmunds)	5	↓	10	46	200	151	845
Wellesbourne	7	↑	3	28	243	220	322
Hereford	14	↑	9	79	45	154	425
Rothamsted (Harpenden)	0		6	47	110	60	483
Writtle	3	↓	2	34	196	119	544
Silwood Park (nr Ascot)	2	↑	2	31	128	73	258
Wye	0	↓	14	28	90	147	352
Starcross (nr Exeter)	1		5	76	322	238	622

The bird cherry–oat aphid was recorded from ten sites this bulletin week, but with numbers only increasing at three sites towards the south of Britain and decreasing elsewhere, particularly in the north. There was a hotspot at Dundee (117).

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals				Accumulated until		
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	165	↓	5	303	1871	39	1022
Gogarbank (Edinburgh)	32	↓	2	30	365	141	283
Newcastle	33	↓	0	35	211	39	136
York	20	↓	8	/	1573	385	/
Preston	14	↓	0	13	320	256	233
Kirton	3	↓	3	106	522	69	1291
Broom's Barn (nr Bury St Edmunds)	1	↓	1	74	564	109	961
Wellesbourne	5	↓	1	18	222	99	603
Hereford	8	↓	6	54	202	97	670
Rothamsted (Harpenden)	4	↓	1	39	260	103	1033
Writtle	4	↓	0	40	628	158	1015
Silwood Park (nr Ascot)	0		2	3	226	58	228
Wye	4	↓	1	7	142	100	181
Starcross (nr Exeter)	2	↓	0	11	134	149	282

The grain aphid was found at all sites apart from Silwood this week but decreasing across the country. There was a hotspot at Dundee (165).

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		30/07-05/08		Accumulated until		05/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	2	↓	2	6	62	91	30
Gogarbank (Edinburgh)	7	↓	0	1	29	95	24
Newcastle	10	↑	0	2	65	263	46
York	10	↓	0	/	462	867	/
Preston	0		0	0	157	63	128
Kirton	67	↓	1	18	930	741	779
Broom's Barn (nr Bury St Edmunds)	0	↓	0	28	1132	1154	985
Wellesbourne	0	↓	1	1	985	931	761
Hereford	0	↓	0	5	733	465	271
Rothamsted (Harpenden)	0	↓	0	5	557	275	508
Writtle	2	↓	0	13	826	128	793
Silwood Park (nr Ascot)	0		0	0	119	37	67
Wye	0		0	2	114	213	222
Starcross (nr Exeter)	0	↓	0	1	157	135	178

The peach–potato aphid was recorded from six ST sites this week, increasing at Newcastle but decreasing elsewhere. There was a hotspot at Kirton (67).

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		30/07-05/08		Accumulated until		05/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	7	↓	0	17	137	26	62
Gogarbank (Edinburgh)	2	↓	0	1	64	72	58
Newcastle	2	↑	0	2	13	33	21
York	0	↓	0	/	27	34	/
Preston	0		0	0	13	30	30
Kirton	0		0	1	11	62	65
Broom's Barn (nr Bury St Edmunds)	0		0	0	3	22	34
Wellesbourne	0	↓	0	0	8	52	45
Hereford	0		1	3	8	115	103
Rothamsted (Harpenden)	0		0	1	16	17	23
Writtle	0		0	0	16	58	42
Silwood Park (nr Ascot)	0		0	0	5	6	19
Wye	0		0	0	4	16	14
Starcross (nr Exeter)	0	↓	0	1	49	36	41

The potato aphid was caught at Dundee, Gogarbank and Newcastle this bulletin week, with numbers increasing at only Newcastle.

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		30/07-05/08		Accumulated until		05/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	0	1	5	7	3
Gogarbank (Edinburgh)	3	↓	0	0	10	36	6
Newcastle	10	↓	0	0	31	18	8
York	14	↓	0	/	409	33	/
Preston	11	↓	0	1	83	22	28
Kirton	21	↓	0	2	218	52	172
Broom's Barn (nr Bury St Edmunds)	1	↓	0	4	319	113	143
Wellesbourne	1	↓	0	2	536	82	977
Hereford	5	↑	0	9	764	164	295
Rothamsted (Harpenden)	0	↓	0	4	198	4	81
Writtle	0	↓	0	7	1445	23	210
Silwood Park (nr Ascot)	1	↓	0	0	123	17	44
Wye	0	↓	1	1	94	47	74
Starcross (nr Exeter)	3	↓	0	15	201	84	228

The mealy cabbage aphid was recorded from ten sites this week and decreasing across the country apart from Hereford where there was an increase.

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		30/07-05/08		Accumulated until		05/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	0	↓	1	13	79	114	108
Gogarbank (Edinburgh)	0	↓	0	1	58	187	124
Newcastle	0	↓	0	1	19	166	111
York	0	↓	0	/	183	743	/
Preston	0	↓	0	1	89	610	670
Kirton	0		0	2	288	930	867
Broom's Barn (nr Bury St Edmunds)	0		0	0	1092	577	889
Wellesbourne	0		0	0	205	774	625
Hereford	0	↓	0	1	54	841	492
Rothamsted (Harpenden)	0		0	0	136	120	479
Writtle	0		0	0	685	213	991
Silwood Park (nr Ascot)	0		0	0	169	101	303
Wye	0		0	0	189	135	425
Starcross (nr Exeter)	0		0	1	137	160	179

No willow-carrot aphids were recorded this week.

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		30/07-05/08		Accumulated until		05/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	26	↓	0	27	331	8	78
Gogarbank (Edinburgh)	14	↓	1	4	72	5	37
Newcastle	27	↑	1	17	54	10	38
York	42	↓	0	/	340	9	/
Preston	0	↓	0	1	42	17	31
Kirton	4	↓	0	108	966	137	1039
Broom's Barn (nr Bury St Edmunds)	2	↓	0	48	329	144	597
Wellesbourne	1	↓	0	5	266	183	322
Hereford	10	↑	0	4	118	46	111
Rothamsted (Harpenden)	0	↓	0	40	326	144	406
Writtle	0	↓	0	25	463	311	684
Silwood Park (nr Ascot)	0		0	1	140	44	81
Wye	4	↓	0	3	225	145	191
Starcross (nr Exeter)	0		0	1	47	34	91

The pea aphid was recorded from nine sites this week but increasing at only Newcastle and Hereford. The highest number was recorded from York (42).

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		30/07-05/08		Accumulated until		05/08
	2018	Compared to last Bulletin week	2017	10-year average 2008-17	2018	2017	10-year average 2008-17
Dundee	32	↓	1	31	362	8	68
Gogarbank (Edinburgh)	3	↓	3	13	38	60	37
Newcastle	1	↓	0	19	8	17	39
York	0	↓	0	/	53	107	/
Preston	4		0	0	24	63	29
Kirton	0	↓	0	10	98	39	199
Broom's Barn (nr Bury St Edmunds)	0	↓	0	4	105	108	281
Wellesbourne	0		0	0	45	119	211
Hereford	2	↓	0	4	37	19	144
Rothamsted (Harpenden)	0	↓	1	5	90	115	379
Writtle	0		0	6	124	86	325
Silwood Park (nr Ascot)	0		1	0	149	14	86
Wye	0	↓	0	0	41	29	109
Starcross (nr Exeter)	0	↓	1	1	56	235	128

The black bean aphid was caught at five sites this week but decreasing across the country. There was a hotspot at Dundee (32).

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](#)

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