

28st July 2017

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, Winter OSR, Pea and Winter Bean harvest is continuing in between the showers in many areas of Britain. Monitoring other crops is still advised, however the total numbers of aphids have generally decreased this week in the ST network.

POTATOES

- **Virus pressure in YWT remains moderate in the Grampian region but is still low elsewhere in the country.**
- The peach–potato aphid (*Myzus persicae*) was caught in single figures at seven **ST** sites this week with the highest number being caught at Newcastle (4). Higher than average numbers were found however at **YWT** sites in the Grampian region.
- Total numbers of cereal aphids, non-colonising vectors of PVY and PVA, increased slightly this week.
- Black bean aphids were caught at five sites in the **ST** and across the country in **YWT** this week, with the highest number caught in the **ST** at Gogarbank (28). This species transmits PVA very efficiently and growers of PVA susceptible varieties (Desiree, King Edward, Maris Peer, Marfona etc.) may want to factor this into decision making. Further regional information on potato virus vectors and the FERA yellow water-pan trap (**YWT**) network can be accessed here: www.potato.org.uk/online-toolbox/aphid-monitoring.

OILSEED RAPE, FIELD BRASSICAS and LEAFY VEGETABLES

- The peach–potato aphid (*Myzus persicae*) was caught in single figures at seven **ST** sites this week with the highest number being caught at Newcastle (4). Tests show that up to 52% of these migrants are carrying Turnip yellows virus.
- The mealy cabbage aphid was caught at four sites this week. The highest number caught was at Hereford (10). Mealy cabbage aphids are also still being found in **YWT** in the Grampian and North of Scotland regions, the latter of which has found them in higher than average numbers.
- Currant-lettuce aphids (*Nasonovia ribisnigri*) were caught in **ST** at York (4), and Kirton (1) this week.

CARROTS and PARSNIPS

- Single individuals of the willow–carrot aphid were caught at Gogarbank and Newcastle this week. The highest number of parsnip aphids were caught at York:

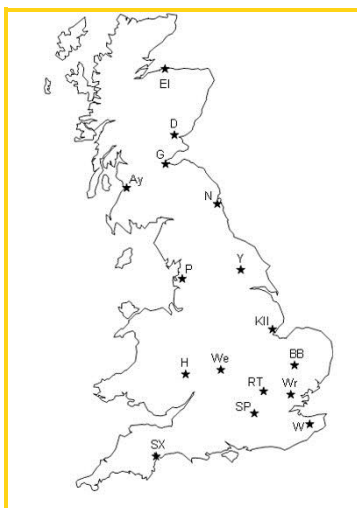
	N	Y	P	K	BB	We	H	RT	Wr	SP	W	SX
<i>C.aegopodii</i>	1	0	0	0	0	0	0	0	0	0	0	0
<i>C.pastinaceae</i>	14	33	6	2	2	7	5	7	0	1	1	0
<i>C.theobaldi</i>	1	0	2	0	0	0	0	0	1	0	0	0

CEREALS

- Total numbers of cereal aphids have increased slightly in the **ST** this week but the risk to crops has now passed for this season.

PEAS and BEANS

- The pea aphid was caught at nine sites this week, with the highest number being caught at Wellesbourne (23) in the **ST**. The risk to crops has now passed for this season.
- Black bean aphids were caught at five sites in the **ST** and across the country in **YWT** this week, with the highest number caught in the **ST** at Gogarbank (28). The risk to crops has now passed for this season.



Suction-trapping Results

The information below relates to suction-trap samples collected during Bulletin Week 17: 17/07 – 23/07.

‘*’ 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		17/07-23/07		Accumulated until		23/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0	↓	0	1156	16	63	2163
Gogarbank (Edinburgh)	2	↑	2	99	212	34	504
Newcastle	0		3	62	57	42	168
York	5	↑	16	/	171	47	/
Preston	5	↑	0	18	175	67	331
Kirton	0	↓	54	165	228	90	1237
Broom’s Barn (Bury St Edmunds)	6	↑	67	58	207	115	958
Wellesbourne	*8	↓	27	19	301	86	341
Hereford	6	↓	2	43	167	40	500
Rothamsted (Harpenden)	4	↑	25	28	91	75	583
Writtle	1	↓	131	53	91	183	579
Silwood Park (nr Ascot)	1	↑	0	2	34	18	145
Wye	1	↓	9	17	109	45	209
Starcross (nr Exeter)	8		1	7	162	66	306

The rose-grain aphid was caught at eleven sites this bulletin week. The highest number caught at Wellesbourne (8) and Starcross (8).

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		17/07-23/07		Accumulated until		23/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	1	↑	4	289	12	952	1025
Gogarbank (Edinburgh)	34	↑	26	61	170	115	685
Newcastle	15	↑	36	36	98	306	317
York	40	↑	34	/	151	107	/
Preston	7	↑	13	21	865	96	107
Kirton	12	↓	46	79	120	246	729
Broom's Barn (nr Bury St Edmunds)	21	↑	58	45	144	342	779
Wellesbourne	*22	↓	107	76	212	398	282
Hereford	6	↓	135	68	139	334	305
Rothamsted (Harpenden)	4	↑	64	63	55	295	409
Writtle	14	↑	113	47	111	567	489
Silwood Park (nr Ascot)	7	↑	36	28	72	220	224
Wye	16	↑	52	54	160	336	279
Starcross (nr Exeter)	31	↑	674	133	235	1258	475

The bird cherry–oat aphid was caught at all fourteen sites this bulletin week; with numbers increasing at all but Kirton, Wellesbourne and Hereford. The highest number caught was at York (40).

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		17/07-23/07		Accumulated until		23/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	2	↑	1	142	8	85	362
Gogarbank (Edinburgh)	15	↑	7	74	127	30	239
Newcastle	7	↑	7	50	33	41	117
York	25	↑	47	/	356	80	/
Preston	9	↑	14	57	189	47	260
Kirton	11	↑	6	194	67	20	963
Broom's Barn (nr Bury St Edmunds)	8	↓	20	95	104	46	789
Wellesbourne	*7	↓	8	129	91	60	676
Hereford	4	↓	8	133	72	33	544
Rothamsted (Harpenden)	18	↑	22	121	101	46	917
Writtle	8	↓	46	104	161	77	810
Silwood Park (nr Ascot)	5	↓	6	73	57	34	459
Wye	6	↓	16	166	96	76	575
Starcross (nr Exeter)	6		36	43	149	111	265

The grain aphid was caught at all sites this week, increasing in the north but mostly decreasing in the south of the country. The highest number was caught at York (25).

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		17/07-23/07		Accumulated until		23/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	4	↓	3	3	63	20	13
Gogarbank (Edinburgh)	2	↑	4	1	91	15	14
Newcastle	6	↑	0	2	277	19	18
York	0	↓	2	/	923	248	/
Preston	0		0	2	61	118	123
Kirton	1		5	31	690	198	630
Broom's Barn (nr Bury St Edmunds)	0		5	33	1262	374	856
Wellesbourne	*2	↓	3	6	1021	1561	669
Hereford	1	↓	12	15	386	555	232
Rothamsted (Harpenden)	0	↓	3	70	278	286	511
Writtle	0	↓	18	30	136	424	815
Silwood Park (nr Ascot)	0		0	1	36	56	68
Wye	0	↓	0	8	215	73	243
Starcross (nr Exeter)	1	↑	5	11	135	49	164

The peach–potato aphid was caught in single figures at seven sites this week. The highest number caught was at Newcastle (4).

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		17/07-23/07		Accumulated until		23/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0		0	7	10	17	24
Gogarbank (Edinburgh)	0		1	8	65	15	49
Newcastle	0		0	3	33	5	18
York	0		0	/	41	9	/
Preston	0		0	2	28	28	29
Kirton	0		1	7	66	16	60
Broom's Barn (nr Bury St Edmunds)	1	↑	0	1	22	4	33
Wellesbourne	*0		0	3	54	19	44
Hereford	0		0	9	110	27	84
Rothamsted (Harpenden)	0		0	1	17	14	22
Writtle	0	↓	0	1	56	16	40
Silwood Park (nr Ascot)	0		0	1	9	15	20
Wye	0		0	2	21	3	15
Starcross (nr Exeter)	0	↓	0	1	39	11	42

A single potato aphid was caught at Broom's Barn this bulletin week.

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		17/07-23/07		Accumulated until		23/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0		0	1	4	1	3
Gogarbank (Edinburgh)	0		0	0	21	3	3
Newcastle	0		0	0	18	1	6
York	4	↑	0	/	36	46	/
Preston	0		0	2	20	95	27
Kirton	0	↓	4	6	47	73	167
Broom's Barn (nr Bury St Edmunds)	0		2	12	125	36	127
Wellesbourne	*0	↓	2	21	92	1274	982
Hereford	10	↑	3	14	141	988	303
Rothamsted (Harpenden)	0		0	13	4	7	73
Writtle	2	↑	3	21	25	44	236
Silwood Park (nr Ascot)	0	↓	1	6	19	11	68
Wye	0	↓	1	10	47	24	117
Starcross (nr Exeter)	1	↓	0	29	84	11	184

The mealy cabbage aphid was caught at four sites this week. The highest number caught was at Hereford (10).

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		17/07-23/07		Accumulated until		23/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0		0	3	14	176	88
Gogarbank (Edinburgh)	1	↑	1	1	74	156	108
Newcastle	1	↑	0	2	156	72	101
York	0		1	/	739	463	/
Preston	0		1	2	532	1062	631
Kirton	0	↓	0	2	1028	693	762
Broom's Barn (nr Bury St Edmunds)	0		1	2	594	448	865
Wellesbourne	*0		1	1	927	427	562
Hereford	0		0	1	838	149	413
Rothamsted (Harpenden)	0		1	2	136	241	490
Writtle	0		0	1	250	482	1008
Silwood Park (nr Ascot)	0		2	1	113	126	295
Wye	0		2	1	154	247	433
Starcross (nr Exeter)	0		0	2	162	130	176

Single individuals of the willow-carrot aphid were caught at Gogarbank and Newcastle this week.

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		17/07-23/07		Accumulated until		23/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0		1	15	3	11	40
Gogarbank (Edinburgh)	0		2	6	4	5	29
Newcastle	0		1	7	6	12	18
York	0		4	/	9	14	/
Preston	0		0	6	18	6	38
Kirton	7	↓	36	308	145	100	691
Broom's Barn (nr Bury St Edmunds)	2	↓	23	100	147	117	436
Wellesbourne	*23	↑	2	39	166	177	307
Hereford	3	↑	0	23	42	104	107
Rothamsted (Harpenden)	12	↓	21	54	140	131	295
Writtle	1	↓	41	99	313	154	492
Silwood Park (nr Ascot)	9		2	13	44	53	109
Wye	8	↓	3	43	163	46	239
Starcross (nr Exeter)	10	↑	17	12	33	50	101

The pea aphid was caught at nine sites in the south of the country this week, with numbers decreasing at five sites. The highest number was caught at Wellesbourne (23).

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		17/07-23/07		Accumulated until		23/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	0		0	13	0	6	24
Gogarbank (Edinburgh)	28	↑	3	5	49	6	12
Newcastle	5	↑	0	4	15	0	13
York	0	↓	0	/	110	0	/
Preston	0		2	3	69	3	25
Kirton	0	↓	0	13	46	8	174
Broom's Barn (nr Bury St Edmunds)	1		0	9	110	1	265
Wellesbourne	*1	↓	0	19	124	2	249
Hereford	0	↓	0	24	19	0	145
Rothamsted (Harpenden)	1	↓	2	24	115	8	354
Writtle	0	↓	1	8	89	5	309
Silwood Park (nr Ascot)	0	↓	0	11	14	14	86
Wye	0	↓	0	12	28	7	136
Starcross (nr Exeter)	0	↓	3	4	267	218	108

The black bean aphid was caught at five sites this week, decreasing at nine sites but increasing at two in the north of the country. The highest number caught was at Gogarbank (28).

Further information

Please send information on crop aphids to: mark-s.taylor@rothamsted.ac.uk

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