

21st 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 underway 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.

CEREALS

- Numbers of the three cereal aphids in the ST have decreased this week at most sites and the risk to crops has now passed for this season.

POTATOES

- **Virus pressure remains moderate in the Grampian region but has fallen to low elsewhere in the country, with no YWT samples being received from the Midlands.**
- The peach–potato aphid (*Myzus persicae*) numbers decreased at most ST sites this week with the highest numbers being found at Wellesbourne (26). Higher than average numbers were found however at YWT sites in North Scotland and Grampian regions.
- Total numbers of cereal aphids, non-colonising vectors of PVY and PVA, decreased at most sites this week.
- Black bean aphids have been caught across the country in both ST and YWT this week, the highest number was caught in the ST at York (23). 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*) numbers decreased at most ST sites this week with the highest numbers found at Wellesbourne (26). Tests show that up to 62% of these migrants are carrying Turnip yellows virus.
- The mealy cabbage aphid was caught at seven ST sites this week, decreasing at twelve sites with the highest numbers caught at Wellesbourne (9) and Hereford (9). Lower numbers were also found in YWT compared to the previous two weeks.
- Currant-lettuce aphids (*Nasonovia ribisnigri*) were caught in ST at Wellesbourne (1), Hereford (1) and Starcross (1) this week.

CARROTS and PARSNIPS

- A single willow–carrot aphid was caught at Kirton and the parsnip aphids were also highest at Kirton:

	N	Y	P	K	BB	We	H	RT	Wr	SP	W	SX
<i>C.aegopodii</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>C.pastinaceae</i>	1	18	0	23	13	7	3	12	14	0	8	4
<i>C.theobaldi</i>	0	0	0	3	4	0	0	2	0	2	0	0

PEAS and BEANS

- The pea aphid was caught at seven sites this week, with the highest number caught at Writtle (97) in the ST. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% of plants are infested. Pea aphids can transmit viruses even with low numbers present.
- Black bean aphids have been caught across the country in both ST and YWT this week, with the highest number caught in the ST at York (23). The threshold for control of black bean aphid in field and broad beans is 10% plant colonisation at early flowering. A lower threshold of 5% infested is advised to prevent virus transmission.

Suction-trapping Results

The information below relates to suction-trap samples collected during Bulletin Week 16: 10/07 – 16/07.

* 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		10/07-16/07		Accumulated until		16/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*2	↑	3	589	16	63	1007
Gogarbank (Edinburgh)	1	↓	3	129	210	32	406
Newcastle	0	↓	0	36	57	39	106
York	2	↓	4	/	166	31	/
Preston	2	↓	0	22	170	67	312
Kirton	5	↓	4	195	228	36	1071
Broom's Barn (Bury St Edmunds)	1	↓	8	212	201	48	900
Wellesbourne	14	↓	8	45	293	59	322
Hereford	12	↓	4	130	161	38	457
Rothamsted (Harpenden)	0	↓	5	203	87	50	555
Writtle	7	↑	6	104	90	52	525
Silwood Park (nr Ascot)	0	↓	0	36	33	18	143
Wye	6	↓	10	56	108	36	192
Starcross (nr Exeter)	8	↓	3	14	154	65	299

The rose-grain aphid was caught at eleven sites this bulletin week, decreasing at all but Writtle and Dundee. The highest number caught at Wellesbourne (14).

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals 10/07-16/07				Accumulated until 16/07		
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0	↓	81	286	11	948	736
Gogarbank (Edinburgh)	2		6	75	136	89	625
Newcastle	2	↓	141	41	83	270	281
York	3	↓	4	/	111	73	/
Preston	6	↓	10	14	858	83	86
Kirton	13	↑	5	75	108	200	650
Broom's Barn (nr Bury St Edmunds)	11	↓	11	81	123	284	734
Wellesbourne	24	↓	30	53	190	291	206
Hereford	7	↓	11	52	133	199	237
Rothamsted (Harpenden)	3	↓	18	62	51	231	346
Writtle	6	↓	25	57	97	454	441
Silwood Park (nr Ascot)	5	↓	26	29	65	184	195
Wye	5	↓	68	30	144	284	226
Starcross (nr Exeter)	19	↑	46	49	204	584	342

The bird cherry–oat aphid was caught at thirteen sites this bulletin week, with numbers decreasing at 11. The highest number caught was at Wellesbourne (24).

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals 10/07-16/07				Accumulated until 16/07		
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0		18	128	6	84	220
Gogarbank (Edinburgh)	0	↓	0	46	112	23	165
Newcastle	3	↓	4	26	26	34	66
York	16	↓	6	/	331	33	/
Preston	4	↓	5	51	180	33	203
Kirton	9	↓	0	250	56	14	768
Broom's Barn (nr Bury St Edmunds)	20	↓	4	189	96	26	695
Wellesbourne	38	↑	3	233	84	52	547
Hereford	12	↓	3	180	68	25	411
Rothamsted (Harpenden)	16	↓	1	328	83	24	796
Writtle	60	↓	7	197	153	31	706
Silwood Park (nr Ascot)	6	↓	3	254	52	28	385
Wye	22	↓	7	264	90	60	409
Starcross (nr Exeter)	6	↓	9	60	143	75	222

The grain aphid was caught at twelve sites this week and only increasing at Wellesbourne. The highest number was caught at Writtle (60).

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		10/07-16/07		Accumulated until		16/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*9	↓	0	2	59	17	10
Gogarbank (Edinburgh)	0	↓	4	2	89	11	13
Newcastle	2	↓	0	2	271	19	16
York	1	↓	0	/	923	246	/
Preston	0	↓	0	3	61	118	120
Kirton	1	↓	1	63	689	193	599
Broom's Barn (nr Bury St Edmunds)	0	↓	1	66	1262	369	823
Wellesbourne	26	↓	0	10	1018	1558	664
Hereford	10	↓	0	11	385	543	216
Rothamsted (Harpenden)	3	↓	0	61	278	283	440
Writtle	7	↑	1	78	136	406	785
Silwood Park (nr Ascot)	0	↓	4	9	36	56	67
Wye	10	↓	0	14	215	73	235
Starcross (nr Exeter)	0	↓	0	5	134	44	153

The peach–potato aphid was caught at nine sites this week, decreasing at all but Writtle. The highest number caught was at Wellesbourne (26).

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		10/07-16/07		Accumulated until		16/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0		2	5	10	17	17
Gogarbank (Edinburgh)	0	↓	0	4	65	14	41
Newcastle	0		0	3	33	5	15
York	0		0	/	41	9	/
Preston	0		0	1	28	28	27
Kirton	0		0	4	66	15	53
Broom's Barn (nr Bury St Edmunds)	0		0	3	21	4	32
Wellesbourne	0		0	6	54	19	41
Hereford	0		0	16	110	27	76
Rothamsted (Harpenden)	0	↓	0	3	17	14	21
Writtle	1	↓	0	2	56	16	39
Silwood Park (nr Ascot)	0		0	1	9	15	20
Wye	0	↓	0	1	21	3	13
Starcross (nr Exeter)	2	↑	2	1	39	11	41

The potato aphid was caught in single figures at only two sites this bulletin week. The highest number was caught at Starcross (2) which was the only site with where numbers increased.

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		10/07-16/07		Accumulated until		16/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0	↓	1	2	4	1	2
Gogarbank (Edinburgh)	0	↓	0	0	21	3	2
Newcastle	0	↓	0	0	18	1	6
York	1	↓	0	/	32	46	/
Preston	0		1	1	20	95	26
Kirton	4	↓	0	16	47	69	161
Broom's Barn (nr Bury St Edmunds)	0	↓	0	38	125	34	115
Wellesbourne	9	↓	0	130	92	1272	961
Hereford	9	↓	0	41	131	985	289
Rothamsted (Harpenden)	0		0	18	4	7	60
Writtle	0	↓	0	35	23	41	215
Silwood Park (nr Ascot)	3	↓	1	14	19	10	62
Wye	7	↓	2	19	47	23	107
Starcross (nr Exeter)	8	↓	2	18	83	11	155

The mealy cabbage aphid was caught at seven sites this week, decreasing at twelve sites. The highest numbers were caught at Wellesbourne (9) and Hereford (9).

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		10/07-16/07		Accumulated until		16/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0		2	4	14	176	85
Gogarbank (Edinburgh)	0		0	2	73	155	106
Newcastle	0	↓	2	4	155	72	99
York	0		4	/	739	462	/
Preston	0	↓	4	4	532	1061	629
Kirton	1	↑	0	5	1028	693	760
Broom's Barn (nr Bury St Edmunds)	0		1	10	594	447	863
Wellesbourne	0	↓	0	2	927	426	561
Hereford	0	↓	0	6	838	149	412
Rothamsted (Harpenden)	0		0	8	136	240	488
Writtle	0		1	4	250	482	1007
Silwood Park (nr Ascot)	0		0	0	113	124	294
Wye	0		2	2	154	245	432
Starcross (nr Exeter)	0	↓	1	3	162	130	174

The willow-carrot aphid was only caught at Kirton this week (1).

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		10/07-16/07		Accumulated until		16/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0	↓	4	17	3	10	25
Gogarbank (Edinburgh)	0		1	5	4	3	23
Newcastle	0		0	3	6	11	11
York	0	↓	2	/	9	10	/
Preston	0	↓	0	1	18	6	32
Kirton	28	↓	0	117	138	64	383
Broom's Barn (nr Bury St Edmunds)	38	↓	6	115	145	94	337
Wellesbourne	13	↓	0	70	143	175	269
Hereford	0		1	23	39	104	83
Rothamsted (Harpenden)	28	↓	0	93	128	110	241
Writtle	97	↓	2	94	312	113	392
Silwood Park (nr Ascot)	9	↓	0	31	35	51	96
Wye	56	↑	9	83	155	43	196
Starcross (nr Exeter)	0		1	13	23	33	89

The pea aphid was caught at seven sites this week, with numbers decreasing at many sites. The highest number was at Writtle (97).

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		10/07-16/07		Accumulated until		16/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0		2	7	0	6	11
Gogarbank (Edinburgh)	12	↑	0	2	21	3	7
Newcastle	2		0	6	10	0	9
York	23	↓	0	/	110	0	/
Preston	0	↓	0	4	69	1	22
Kirton	9	↓	0	42	46	8	161
Broom's Barn (nr Bury St Edmunds)	1	↓	0	28	109	1	256
Wellesbourne	14		0	61	122	2	230
Hereford	2	↓	0	29	19	0	122
Rothamsted (Harpenden)	8	↓	0	59	114	6	331
Writtle	2	↓	1	42	89	4	301
Silwood Park (nr Ascot)	2	↑	2	17	14	14	75
Wye	1	↓	2	53	28	7	124
Starcross (nr Exeter)	4	↓	3	7	267	215	105

The black bean aphid was caught at twelve sites this week and decreasing at many sites. The highest number caught was at York (23).

Further information

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

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