

15<sup>th</sup> September 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** –The harvest is all but completed over most of Britain, aside from some regions in the north where heavy rainfall has hampered efforts. OSR is now emerging in the south, however there have been reports from ADAS and others that heavy showers are holding up cereal drilling in many parts of the country. The total number of aphids caught have generally decreased this week in the **ST** network.

## POTATOES

- Peach–potato aphids (*Myzus persicae*) were caught at five sites this bulletin week in the **ST**. The highest number was caught at Wellesbourne (4).
- Total numbers of cereal aphids, non-colonising vectors of PVY and PVA, decreased this week. With large declines of the bird cherry–oat aphid compared to last week.
- Black bean aphids were caught at four sites, with the highest number being caught at Preston (6) this week in the **ST**. 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](http://www.potato.org.uk/online-toolbox/aphid-monitoring).
- **No samples were received from the seed potato YWT network, where aphid monitoring has ended for this year.**

## OILSEED RAPE, FIELD BRASSICAS and LEAFY VEGETABLES

- Peach–potato aphids (*Myzus persicae*) were caught at five sites this bulletin week in the **ST**.
- Single mealy cabbage aphids (*Brevicoryne brassicae*) were caught at Kirton and Wellesbourne in the **ST** this bulletin week.
- No currant-lettuce aphid (*Nasonovia ribisnigri*) was caught in the **ST** this week.

## CARROTS and PARSNIPS

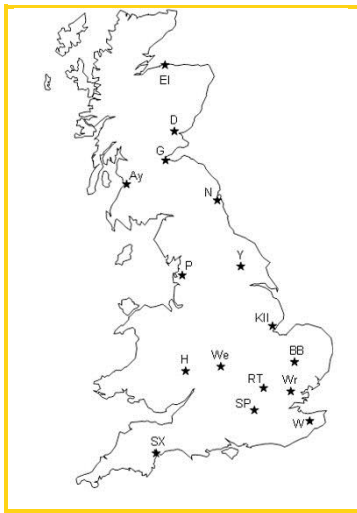
- Willow–carrot aphids (*Cavariella aegopodii*) were caught at Dundee (19), Kirton (2) and Wellesbourne (1) this week.
- The parsnip aphid (*Cavariella pastinacae*) was caught at Newcastle (5), York (2) and Preston (2) this week.
- The parsnip aphid (*Cavariella theobaldi*) was caught at Dundee (1), York (1) and Writtle (1) this week.

## CEREALS

- The total numbers of cereal aphids have decreased in the **ST** this week. The risk to crops has now passed for this season.

## PEAS and BEANS

- Single pea aphids were found at three sites this week in the **ST**. The risk to crops has now passed for this season.
- Black bean aphid was found at four sites this week in the **ST**. 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 **24: 04/09 – 10/09**.

‘\*’ 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		04/09-10/09		Accumulated until		10/09
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*2	↑	0	0	36	68	5017
Gogarbank (Edinburgh)	1		0	0	221	38	579
Newcastle	2	↑	2	2	62	56	304
York	0		0	/	175	111	/
Preston	0		0	1	182	76	346
Kirton	0		0	0	231	185	1512
Broom’s Barn (Bury St Edmunds)	0		0	0	208	253	1062
Wellesbourne	0		1	0	303	134	355
Hereford	0	↓	0	1	174	73	531
Rothamsted (Harpenden)	0		0	0	91	109	602
Writtle	0		0	0	92	208	634
Silwood Park (nr Ascot)	0		0	0	34	25	147
Wye	0		0	0	109	54	213
Starcross (nr Exeter)	0		0	0	166	73	314

The rose-grain aphid was caught in single figures in the north at: Dundee (2), Gogarbank (1) and Newcastle (2) this bulletin week.

Bird cherry–oat aphid ( <i>Rhopalosiphum padi</i> )	Bulletin Week Totals		04/09-10/09		Accumulated until		10/09
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*82	↑	349	190	266	1584	2563
Gogarbank (Edinburgh)	218	↓	1127	325	853	1683	1701
Newcastle	139	↓	275	149	638	699	852
York	88	↓	97	/	586	709	/
Preston	154	↑	49	279	1227	318	694
Kirton	9	↓	27	59	324	634	1098
Broom's Barn (nr Bury St Edmunds)	27	↓	32	47	311	652	1034
Wellesbourne	33	↓	67	100	447	1151	705
Hereford	46	↑	188	126	428	1499	939
Rothamsted (Harpenden)	12	↓	48	31	231	645	675
Writtle	50	↑	74	43	245	815	698
Silwood Park (nr Ascot)	15	↑	48	50	153	434	384
Wye	8	↓	39	43	298	667	477
Starcross (nr Exeter)	95	↑	88	104	501	1655	938

The bird cherry–oat aphid was caught at all sites this bulletin week. The highest number was caught at Gogarbank (218).

Grain aphid ( <i>Sitobion avenae</i> )	Bulletin Week Totals		04/09-10/09		Accumulated until		10/09
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*11	↓	36	7	67	171	1370
Gogarbank (Edinburgh)	7	↓	13	6	172	100	544
Newcastle	3	↓	6	7	62	84	270
York	0	↓	2	/	383	293	/
Preston	0	↓	0	2	210	101	343
Kirton	0		2	8	77	118	1405
Broom's Barn (nr Bury St Edmunds)	0		1	2	109	90	997
Wellesbourne	1	↑	9	6	105	205	875
Hereford	0		20	6	85	313	771
Rothamsted (Harpenden)	0		1	2	107	110	1073
Writtle	1		4	3	168	130	1044
Silwood Park (nr Ascot)	0		0	0	59	47	505
Wye	0		0	2	100	121	627
Starcross (nr Exeter)	0		0	1	153	145	315

The grain aphid was caught at five sites this week and mostly in single figures except Dundee which caught the highest number (11).

Peach–potato aphid ( <i>Myzus persicae</i> )	Bulletin Week Totals		04/09-10/09		Accumulated until		10/09
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*2	↓	12	3	74	39	39
Gogarbank (Edinburgh)	0		1	0	94	22	17
Newcastle	0		0	1	278	21	26
York	0		0	/	923	252	/
Preston	0		0	1	61	123	131
Kirton	3	↓	1	4	710	217	693
Broom's Barn (nr Bury St Edmunds)	0	↓	0	2	1263	377	936
Wellesbourne	4	↑	4	1	1026	1570	675
Hereford	0		5	2	387	571	254
Rothamsted (Harpenden)	0		0	0	278	288	530
Writtle	0		0	1	136	427	860
Silwood Park (nr Ascot)	0		0	0	36	56	68
Wye	1	↑	1	3	216	77	250
Starcross (nr Exeter)	2	↑	0	3	138	53	173

The peach–potato aphid was caught at five sites this bulletin week, the highest number was caught at Wellesbourne (4).

Potato aphid ( <i>Macrosiphum euphorbiae</i> )	Bulletin Week Totals		04/09-10/09		Accumulated until		10/09
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0		2	1	10	21	69
Gogarbank (Edinburgh)	0		1	0	66	19	64
Newcastle	0	↓	0	0	34	5	25
York	6	↑	0	/	47	13	/
Preston	3	↑	0	1	31	33	35
Kirton	0		0	0	66	17	68
Broom's Barn (nr Bury St Edmunds)	0		0	1	22	9	36
Wellesbourne	0		3	0	54	24	46
Hereford	0		2	0	111	50	109
Rothamsted (Harpenden)	0		2	0	17	16	24
Writtle	0		0	0	56	20	42
Silwood Park (nr Ascot)	0		4	1	10	21	22
Wye	0		0	0	21	3	15
Starcross (nr Exeter)	0		5	1	39	16	46

The potato aphid was caught at York (6) and Preston (3) this bulletin week.

Cabbage aphid ( <i>Brevicoryne brassicae</i> )	Bulletin Week Totals		04/09-10/09		Accumulated until		10/09
	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	12
Gogarbank (Edinburgh)	0		0	1	21	5	8
Newcastle	0		0	0	19	1	8
York	0		0	/	36	50	/
Preston	0		0	0	20	95	32
Kirton	1	↓	5	2	51	86	179
Broom's Barn (nr Bury St Edmunds)	0		0	0	125	41	147
Wellesbourne	1	↓	0	0	98	1278	998
Hereford	0		2	4	142	991	342
Rothamsted (Harpenden)	0		0	0	4	7	92
Writtle	0		0	1	25	45	275
Silwood Park (nr Ascot)	0		0	0	19	11	70
Wye	0		0	0	48	24	124
Starcross (nr Exeter)	0		2	4	84	31	250

Single mealy cabbage aphids were caught at Kirton and Wellesbourne this bulletin week.

Willow-carrot aphid ( <i>Cavariella aegopodii</i> )	Bulletin Week Totals		04/09-10/09		Accumulated until		10/09
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*19	↑	4	9	42	182	137
Gogarbank (Edinburgh)	0	↓	0	0	76	159	112
Newcastle	0		0	1	157	72	106
York	0		0	/	739	473	/
Preston	0	↓	5	4	536	1076	643
Kirton	2	↑	0	4	1032	699	774
Broom's Barn (nr Bury St Edmunds)	0	↓	0	11	596	454	886
Wellesbourne	1	↑	0	0	928	431	563
Hereford	0		0	0	839	151	417
Rothamsted (Harpenden)	0		0	1	136	245	494
Writtle	0		0	2	250	487	1012
Silwood Park (nr Ascot)	0		0	0	113	126	295
Wye	0		0	0	154	249	434
Starcross (nr Exeter)	0		0	0	162	134	178

Willow-carrot aphid was caught at Dundee (19), Kirton (2) and Wellesbourne (1) this week.

Pea aphid ( <i>Acyrtosiphon pisum</i> )	Bulletin Week Totals		04/09-10/09		Accumulated until		10/09
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0		4	1	7	17	111
Gogarbank (Edinburgh)	0		1	0	6	17	46
Newcastle	0		2	0	9	17	50
York	0		1	/	9	41	/
Preston	0		0	0	18	12	45
Kirton	1	↑	1	1	149	242	1139
Broom's Barn (nr Bury St Edmunds)	0		11	2	147	212	603
Wellesbourne	1	↑	6	2	189	214	341
Hereford	1	↑	4	2	44	144	129
Rothamsted (Harpenden)	0		4	1	143	164	417
Writtle	0	↓	24	4	321	210	676
Silwood Park (nr Ascot)	0		0	0	45	55	119
Wye	0	↓	0	3	165	74	283
Starcross (nr Exeter)	0	↓	1	2	39	56	112

Single pea aphids were found at Kirton, Wellesbourne and Hereford this week.

Black bean aphid ( <i>Aphis fabae</i> )	Bulletin Week Totals		04/09-10/09		Accumulated until		10/09
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*2	↓	5	4	17	44	142
Gogarbank (Edinburgh)	2	↑	15	12	66	71	75
Newcastle	1	↓	10	6	26	16	60
York	0		2	/	110	6	/
Preston	6	↑	2	3	75	9	33
Kirton	0		3	9	46	14	214
Broom's Barn (nr Bury St Edmunds)	0		0	2	110	2	277
Wellesbourne	0		8	1	124	18	255
Hereford	0		18	2	20	25	166
Rothamsted (Harpenden)	0		0	1	116	12	371
Writtle	0		1	1	89	11	325
Silwood Park (nr Ascot)	0		0	0	15	14	87
Wye	0		0	5	28	7	143
Starcross (nr Exeter)	0		0	1	268	234	114

Black bean aphid was found at four sites this week, the highest number was caught at Preston (6).

## Further information

Please send information on crop aphids to: [alex.greenslade@rothamsted.ac.uk](mailto:alex.greenslade@rothamsted.ac.uk)

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