

04<sup>th</sup> August 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, Pea and Winter Bean harvest is continuing in many areas of Britain in between the heavy showers with Winter OSR harvest nearing completion. 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 is low across the country from where samples were received this week.**
- Single peach–potato aphids (*Myzus persicae*) were caught at Gogarbank, Broom’s Barn and Hereford this week. Peach–potato aphids were also found in low numbers in the **YWT** across Scotland.
- Total numbers of cereal aphids, non-colonising vectors of PVY and PVA, decreased this week.
- Black bean aphids were caught in single figures at four sites this week in the **ST** as well as across Scotland and Northern England in **YWT** this week, with the highest number caught in the **ST** at Newcastle (3). 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).

## OILSEED RAPE, FIELD BRASSICAS and LEAFY VEGETABLES

- Single peach–potato aphids (*Myzus persicae*) were caught at Gogarbank, Broom’s Barn and Hereford this week. Tests show that up to 43% of these migrants are carrying Turnip yellows virus. Peach–potato aphids were also found in the **YWT** across Scotland.
- A single mealy cabbage aphid (*Brevicoryne brassicae*) was caught at Wye this week.
- A single currant-lettuce aphid (*Nasonovia ribisnigri*) was caught in the **ST** at Starcross this week.

## CARROTS and PARSNIPS

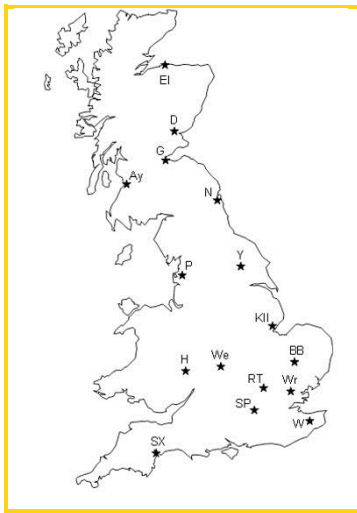
- Two willow–carrot aphids (*Cavariella aegopodii*) were caught at Preston this week.
- The parsnip aphid (*Cavariella pastinacae*) was caught at Broom’s Barn (1), Newcastle (4), Preston (2), Rothamsted (4), Wellesbourne (8), Wye (2) and York (4) this week.
- A single parsnip aphid (*Cavariella theobaldi*) was caught at Starcross 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

- The pea aphid was caught at six sites this week, with the highest number being caught at Wellesbourne (19) in the **ST**. The risk to crops has now passed for this season.
- Black bean aphids were caught in single figures at four sites this week in the **ST** as well as across Scotland and Northern England in **YWT** this week, with the highest number caught in the **ST** at Newcastle (3). 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 **18: 24/07 – 30/07**.

‘\*’ 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		24/07-30/07		Accumulated until		30/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0		2	1011	16	65	3174
Gogarbank (Edinburgh)	0	↓	2	54	212	36	558
Newcastle	1	↑	0	39	58	42	207
York	0	↓	6	/	171	53	/
Preston	2	↓	4	10	177	71	340
Kirton	2	↑	27	249	230	117	1485
Broom’s Barn (Bury St Edmunds)	0	↓	101	87	207	216	1046
Wellesbourne	2	↓	29	9	303	115	350
Hereford	5	↓	7	16	172	47	516
Rothamsted (Harpenden)	0	↓	23	16	91	98	599
Writtle	0	↓	21	52	91	204	631
Silwood Park (nr Ascot)	0	↓	1	1	34	19	146
Wye	0	↓	4	3	109	49	212
Starcross (nr Exeter)	4	↓	4	5	166	70	311

The rose-grain aphid was caught in single figures at six sites this bulletin week, decreasing at eleven. The highest number was caught at Hereford (5).

Bird cherry–oat aphid ( <i>Rhopalosiphum padi</i> )	Bulletin Week Totals 24/07-30/07				Accumulated until 30/07		
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*9	↑	22	365	21	974	1389
Gogarbank (Edinburgh)	4	↓	40	126	174	155	812
Newcastle	15		19	43	113	325	360
York	23	↓	32	/	174	139	/
Preston	28	↑	18	38	893	114	145
Kirton	24	↑	32	106	144	278	835
Broom's Barn (nr Bury St Edmunds)	10	↓	66	65	154	408	845
Wellesbourne	27	↑	135	77	239	533	358
Hereford	12	↑	186	90	151	520	395
Rothamsted (Harpenden)	2	↓	75	59	57	370	468
Writtle	2	↓	37	60	113	604	549
Silwood Park (nr Ascot)	1	↓	21	19	73	241	243
Wye	7	↓	96	67	167	432	346
Starcross (nr Exeter)	11	↓	68	93	246	1326	568

The bird cherry–oat aphid was caught at all fourteen sites this bulletin week. The highest number was caught at Preston (28).

Grain aphid ( <i>Sitobion avenae</i> )	Bulletin Week Totals 24/07-30/07				Accumulated until 30/07		
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*5	↑	7	487	13	92	849
Gogarbank (Edinburgh)	6	↓	8	141	133	38	380
Newcastle	3	↓	6	37	36	47	154
York	17	↓	35	/	373	115	/
Preston	6	↓	12	42	195	59	301
Kirton	4	↓	19	293	71	39	1256
Broom's Barn (nr Bury St Edmunds)	3	↓	20	122	107	66	911
Wellesbourne	11	↑	31	148	102	91	824
Hereford	4		35	91	76	68	635
Rothamsted (Harpenden)	3	↓	11	87	104	57	1004
Writtle	5	↓	24	172	166	101	982
Silwood Park (nr Ascot)	0	↓	4	35	57	38	494
Wye	2	↓	13	33	98	89	608
Starcross (nr Exeter)	1	↓	6	32	150	117	297

The grain aphid was caught at all sites except Silwood Park this week, decreasing at eleven. The highest number was caught at York (17).

Peach–potato aphid ( <i>Myzus persicae</i> )	Bulletin Week Totals		24/07-30/07		Accumulated until		30/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0	↓	2	6	63	22	18
Gogarbank (Edinburgh)	1	↓	1	1	92	16	14
Newcastle	1	↓	0	2	278	19	20
York	0		2	/	923	250	/
Preston	0		0	3	61	118	126
Kirton	0	↓	7	35	690	205	665
Broom's Barn (nr Bury St Edmunds)	0		2	47	1262	376	903
Wellesbourne	0	↓	4	3	1021	1565	672
Hereford	1		6	10	387	561	242
Rothamsted (Harpenden)	0		1	12	278	287	522
Writtle	0		3	28	136	427	842
Silwood Park (nr Ascot)	0		0	0	36	56	68
Wye	0		2	1	215	75	244
Starcross (nr Exeter)	0	↓	0	2	135	49	166

Single peach–potato aphids were caught at Gogarbank, Broom's Barn and Hereford this week.

Potato aphid ( <i>Macrosiphum euphorbiae</i> )	Bulletin Week Totals		24/07-30/07		Accumulated until		30/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0		0	27	10	17	51
Gogarbank (Edinburgh)	0		2	10	65	17	59
Newcastle	0		0	2	33	5	19
York	0		1	/	41	10	/
Preston	0		0	1	28	28	30
Kirton	0		0	5	66	16	65
Broom's Barn (nr Bury St Edmunds)	0	↓	1	1	22	5	34
Wellesbourne	0		0	1	54	19	45
Hereford	0		3	7	110	30	91
Rothamsted (Harpenden)	0		0	0	17	14	23
Writtle	0		0	1	56	16	41
Silwood Park (nr Ascot)	0		0	0	9	15	20
Wye	0		0	0	21	3	15
Starcross (nr Exeter)	0		0	1	39	11	43

No potato aphids were caught this bulletin week.

Cabbage aphid ( <i>Brevicoryne brassicae</i> )	Bulletin Week Totals		24/07-30/07		Accumulated until		30/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0		0	0	4	1	3
Gogarbank (Edinburgh)	0		1	1	21	4	3
Newcastle	0		0	1	18	1	7
York	0	↓	0	/	36	46	/
Preston	0		0	2	20	95	29
Kirton	0		1	4	47	74	171
Broom's Barn (nr Bury St Edmunds)	0		1	12	125	37	139
Wellesbourne	0		2	10	92	1276	992
Hereford	0	↓	1	12	141	989	314
Rothamsted (Harpenden)	0		0	10	4	7	82
Writtle	0	↓	0	28	25	44	263
Silwood Park (nr Ascot)	0		0	0	19	11	69
Wye	1	↑	0	4	48	24	121
Starcross (nr Exeter)	0	↓	3	37	84	14	221

A single mealy cabbage aphid was caught at Wye this bulletin week.

Willow-carrot aphid ( <i>Cavariella aegopodii</i> )	Bulletin Week Totals		24/07-30/07		Accumulated until		30/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0		0	4	14	176	92
Gogarbank (Edinburgh)	0	↓	0	2	74	156	110
Newcastle	0	↓	0	2	156	72	103
York	0		4	/	739	467	/
Preston	2	↑	0	1	534	1062	631
Kirton	0		1	3	1028	694	765
Broom's Barn (nr Bury St Edmunds)	0		1	2	594	449	867
Wellesbourne	0		1	0	927	428	562
Hereford	0		2	1	838	151	414
Rothamsted (Harpenden)	0		1	1	136	242	491
Writtle	0		1	0	250	483	1009
Silwood Park (nr Ascot)	0		0	0	113	126	295
Wye	0		0	0	154	247	433
Starcross (nr Exeter)	0		0	1	162	130	177

Two willow-carrot aphids were caught at Preston this week.

Pea aphid ( <i>Acyrtosiphon pisum</i> )	Bulletin Week Totals		24/07-30/07		Accumulated until		30/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*0		0	28	3	11	68
Gogarbank (Edinburgh)	0		0	9	4	5	38
Newcastle	0		0	11	6	12	29
York	0		0	/	9	14	/
Preston	0		0	5	18	6	43
Kirton	1	↓	34	338	146	134	1028
Broom's Barn (nr Bury St Edmunds)	0	↓	42	115	147	159	551
Wellesbourne	19	↓	7	16	185	184	323
Hereford	1	↓	3	4	43	107	111
Rothamsted (Harpenden)	3	↓	3	75	143	134	370
Writtle	2	↑	14	152	315	168	644
Silwood Park (nr Ascot)	1	↓	1	8	45	54	117
Wye	0	↓	4	35	163	50	274
Starcross (nr Exeter)	0	↓	1	4	33	51	105

The pea aphid was caught at six sites towards the south of the country this week, with numbers decreasing at eight sites. The highest number was caught at Wellesbourne (19).

Black bean aphid ( <i>Aphis fabae</i> )	Bulletin Week Totals		24/07-30/07		Accumulated until		30/07
	2017	Compared to last Bulletin week	2016	10-year average 2007-16	2017	2016	10-year average 2007-16
Dundee	*2	↑	8	24	2	14	48
Gogarbank (Edinburgh)	2	↓	2	14	51	8	25
Newcastle	3	↓	1	10	18	1	23
York	0		0	/	110	0	/
Preston	0		0	2	69	3	26
Kirton	0		0	18	46	8	192
Broom's Barn (nr Bury St Edmunds)	0	↓	1	4	110	2	268
Wellesbourne	0	↓	2	2	124	4	252
Hereford	1	↑	3	10	20	3	156
Rothamsted (Harpenden)	0	↓	1	11	115	9	365
Writtle	0		0	8	89	5	317
Silwood Park (nr Ascot)	0		0	1	14	14	87
Wye	0		0	2	28	7	137
Starcross (nr Exeter)	0		8	4	267	226	112

The black bean aphid was caught in single figures at four sites this week. The highest number caught was at Newcastle (3).

## Further information

Please send information on crop aphids to: [mark-s.taylor@rothamsted.ac.uk](mailto:mark-s.taylor@rothamsted.ac.uk)

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