



## APHID ALERT SUMMARY

This alert summarises up-to-date results from the Rothamsted/SASA suction-trap (ST) network and the FERA yellow water-pan trap (YWT) network. Further details of the ST results can be found below and further details of the YWT results can be found at [www.potato.org.uk/online-toolbox/aphid-monitoring](http://www.potato.org.uk/online-toolbox/aphid-monitoring).

**GENERAL** – The weather last week was wet in the north and west but much drier in the south and east. Aphid flight activity as registered by our suction-traps and yellow water-traps fell markedly. Most aphids trapped are now leaving mature crops and thus should have little impact.

### WINTER AND SPRING CEREALS

The numbers of all three cereal aphids caught in our traps fell across the country. The winter barley harvest is 90% complete and the winter wheat harvest 5% complete, overall progress is similar to 2015, but a little behind the 5-year average. This summer low levels of aphids have been recorded in cereal crops from early in the season but they never reached threshold levels.

### POTATOES

Virus pressure is low across all regions. Numbers of peach–potato aphid (*Myzus persicae*) and the potato aphid (*Macrosiphum euphorbiae*) are low in both ST and YWT this week. In Scotland the potato crop is that much later and the three main cereal aphids may still contribute to the PVY vector pressure later in August, but their numbers are falling and below average at present. Further regional information on potato virus vectors can be accessed here: [www.potato.org.uk/online-toolbox/aphid-monitoring](http://www.potato.org.uk/online-toolbox/aphid-monitoring).

### WINTER and SPRING OILSEED RAPE

Aphids are no longer an issue. Rapid progress has been made with the winter OSR harvest which is now approximately 80% complete, which is a little behind the five-year average.

### FIELD BRASSICAS and LEAFY VEGETABLES

All aphids affecting field brassicas and leafy vegetables are generally low in ST and YWT.

### CARROTS and PARSNIPS

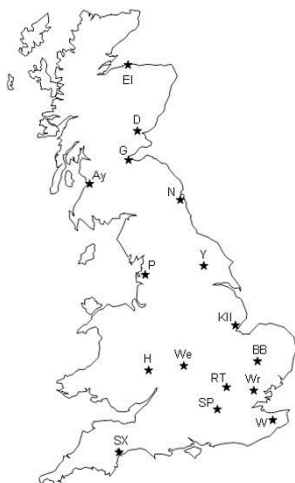
The numbers of willow–carrot aphid (*Cavariella aegopodii*) flying are now very low everywhere. Numbers of parsnip aphids are also low.

### PEAS and BEANS

The pea aphid (*Acyrtosiphon pisum*) was caught at eight sites with highest numbers at Kirton (48). The pea harvest is in progress and it now seems unlikely that aphids will cause significant problems this season.

Numbers of the black bean aphid (*Aphis fabae*) in both ST and YWT are very low compared to the large migrations seen in 2015.

# SUCTION-TRAPPING RESULTS



The information below relates to suction-trap samples collected during **Bulletin Week 20: 01/8 – 07/8**.

- Numbers of all three cereal aphids fell this week.
- The peach-potato aphid was caught in ones and twos at seven sites this bulletin week.
- The numbers of willow-carrot aphid (*Cavariella aegopodii*) flying are low everywhere.
- Two currant-lettuce aphids (*Nasonovia ribisnigri*) were caught at York.
- Numbers of parsnip aphids are low (*Cavariella pastinaceae* P1, RT3, SP1 and W1, *Cavariella theobaldi* SP1 and W1).
- Numbers of the black bean aphid (*Aphis fabae*) remain very low, it was caught at five sites, with highest numbers at Dundee (13).
- The pea aphid was caught at eight sites with highest numbers at Kirton (48).

\*' indicates where totals have been corrected proportionally to seven days, fewer days' samples having been processed.

## Rose-grain aphid (*Metopolophium dirhodum*)

Rose-grain aphid ( <i>Metopolophium dirhodum</i> )	Bulletin Week Totals		01/08-07/08		Accumulated until		07/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2		/	1866	67	/	5487
Gogarbank (Edinburgh)	*0	↓	8	10	36	97	630
Newcastle	1	↑	2	86	41	46	313
York	10	↑	3	/	69	72	/
Preston	4	↓	0	3	77	63	373
Kirton	33	↓	0	14	162	194	1642
Broom's Barn (nr Bury St Edmunds)	19	↓	1	11	232	232	1219
Wellesbourne	5	↓	0	1	125	248	390
Hereford	*0	↓	0	5	53	266	561
Rothamsted (Harpenden)	6	↓	0	1	110	203	639
Writtle	2	↓	2	1	121	111	669
Silwood Park (nr Ascot)	0	↓	1	0	22	110	167
Wye	1	↓	0	0	57	85	239
Starcross (nr Exeter)	1	↓	1	2	66	371	339

The rose-grain aphid was caught at 11 sites this week. Numbers were highest at Kirton, generally there were decreases at most sites.

**Bird cherry–oat aphid (*Rhopalosiphum padi*)**

Bird cherry–oat aphid ( <i>Rhopalosiphum padi</i> )	Bulletin Week Totals		01/08-07/08		Accumulated until		07/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	45	↑	/	437	1034	/	1903
Gogarbank (Edinburgh)	*36	↓	1	112	198	6	1009
Newcastle	10	↓	1	92	359	6	459
York	32	↓	15	/	167	41	/
Preston	21		3	33	136	28	185
Kirton	48	↑	2	73	344	110	980
Broom's Barn (nr Bury St Edmunds)	32	↓	0	38	443	58	922
Wellesbourne	34	↓	5	36	587	40	369
Hereford	*117	↓	20	78	672	75	448
Rothamsted (Harpenden)	42	↓	7	46	416	36	515
Writtle	11	↓	4	26	658	61	578
Silwood Park (nr Ascot)	12	↓	2	37	265	34	280
Wye	40	↓	4	20	511	56	356
Starcross (nr Exeter)	47	↓	2	81	1663	81	570

The bird cherry–oat aphid was caught at all sites this bulletin week. Numbers were down on last week's bulletin, with highest numbers at Hereford (117).

**Grain aphid (*Sitobion avenae*)**

Grain aphid ( <i>Sitobion avenae</i> )	Bulletin Week Totals		01/08-07/08		Accumulated until		07/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	7	↓	/	317	104	/	1307
Gogarbank (Edinburgh)	*6	↓	15	55	45	56	482
Newcastle	3	↓	8	52	57	40	220
York	24	↓	23	/	142	373	/
Preston	9	↓	7	15	71	75	344
Kirton	27	↑	0	82	65	46	1485
Broom's Barn (nr Bury St Edmunds)	11	↓	0	51	70	63	1083
Wellesbourne	17	↓	2	16	116	85	966
Hereford	*23	↓	10	41	96	261	820
Rothamsted (Harpenden)	18	↑	4	32	72	79	1097
Writtle	6	↓	0	33	92	64	1111
Silwood Park (nr Ascot)	2	↓	0	3	41	82	574
Wye	4	↓	0	8	111	40	704
Starcross (nr Exeter)	11	↓	3	5	151	393	704

The grain aphid was caught in low numbers at all sites this week. Numbers decreased at most sites and are well below the accumulated 10-yr means.

**Peach–potato aphid (*Myzus persicae*)**

Peach–potato aphid ( <i>Myzus persicae</i> )	Bulletin Week Totals		01/08-07/08		Accumulated until		07/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2		/	5	29	/	23
Gogarbank (Edinburgh)	*1		0	0	17	32	15
Newcastle	1	↑	1	2	20	44	23
York	2	↓	2	/	261	377	/
Preston	0		0	2	112	156	128
Kirton	2	↓	0	12	199	2642	728
Broom’s Barn (nr Bury St Edmunds)	1	↓	0	21	376	2488	925
Wellesbourne	0	↓	0	1	1655	1276	523
Hereford	*0	↓	1	4	489	710	198
Rothamsted (Harpenden)	0	↓	2	5	300	1015	506
Writtle	0	↓	0	13	431	1452	830
Silwood Park (nr Ascot)	0		0	0	33	138	70
Wye	1	↓	4	2	66	647	272
Starcross (nr Exeter)	0		0	1	50	756	179

The peach–potato aphid was caught in ones and twos at seven sites this bulletin week.

**Potato aphid (*Macrosiphum euphorbiae*)**

Potato aphid ( <i>Macrosiphum euphorbiae</i> )	Bulletin Week Totals		01/08-07/08		Accumulated until		07/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	1	↑	/	13	18	/	71
Gogarbank (Edinburgh)	*0	↓	0	2	17	13	66
Newcastle	0		0	3	3	11	23
York	0		0	/	9	20	/
Preston	0		0	2	30	33	32
Kirton	0		0	2	15	67	72
Broom’s Barn (nr Bury St Edmunds)	0	↓	0	1	5	19	45
Wellesbourne	0		0	0	21	64	49
Hereford	*0	↓	0	5	33	115	109
Rothamsted (Harpenden)	0		0	0	15	29	25
Writtle	0		0	0	16	59	43
Silwood Park (nr Ascot)	0		0	0	14	33	21
Wye	0		0	0	3	6	17
Starcross (nr Exeter)	0		0	1	10	61	48

A single potato aphid was recorded at Dundee this week.

**Mealy Cabbage aphid (*Brevicoryne brassicae*)**

Cabbage aphid ( <i>Brevicoryne brassicae</i> )	Bulletin Week Totals		01/08-07/08		Accumulated until		07/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	2	1	/	5
Gogarbank (Edinburgh)	*0		0	0	4	0	4
Newcastle	0		0	1	0	3	8
York	4	↑	3	/	57	94	/
Preston	0		1	2	82	11	24
Kirton	0	↓	0	3	83	1370	184
Broom's Barn (nr Bury St Edmunds)	1	↑	0	4	35	374	143
Wellesbourne	1	↓	4	4	1355	3670	949
Hereford	*0	↓	1	7	1104	1202	234
Rothamsted (Harpenden)	0		1	4	8	155	89
Writtle	0		1	6	49	460	270
Silwood Park (nr Ascot)	0		0	0	9	150	78
Wye	0		0	1	21	303	139
Starcross (nr Exeter)	0	↓	5	14	18	226	260

The mealy cabbage aphid was caught at three sites in low numbers this bulletin week.

**Willow-carrot aphid (*Cavariella aegopodii*)**

Willow-carrot aphid ( <i>Cavariella aegopodii</i> )	Bulletin Week Totals		01/08-07/08		Accumulated until		07/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	1	↑	/	16	179	/	98
Gogarbank (Edinburgh)	*2	↑	0	1	158	230	105
Newcastle	0		0	1	72	113	107
York	0	↓	0	/	488	459	/
Preston	1	↑	0	1	1159	584	585
Kirton	0	↓	0	1	685	2210	773
Broom's Barn (nr Bury St Edmunds)	0	↓	0	0	453	1955	858
Wellesbourne	0	↓	0	0	450	1333	584
Hereford	*0	↓	1	1	155	403	426
Rothamsted (Harpenden)	0		0	1	250	1345	500
Writtle	1	↓	0	0	493	2119	993
Silwood Park (nr Ascot)	0		0	0	103	742	323
Wye	0		0	0	205	982	464
Starcross (nr Exeter)	3	↑	0	1	147	344	182

The willow-carrot aphid was caught at five sites this week, but numbers are low everywhere.

**Pea aphid (*Acyrtosiphon pisum*)**

Pea aphid ( <i>Acyrtosiphon pisum</i> )	Bulletin Week Totals		01/08-07/08		Accumulated until		07/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	33	14	/	117
Gogarbank (Edinburgh)	*1	↑	0	3	6	18	46
Newcastle	2	↑	0	18	16	6	51
York	0		1	/	16	32	/
Preston	0		0	1	7	12	48
Kirton	48	↑	0	70	172	251	1226
Broom's Barn (nr Bury St Edmunds)	16	↓	3	37	182	103	674
Wellesbourne	2	↓	17	6	198	148	358
Hereford	*0	↓	6	4	106	52	149
Rothamsted (Harpenden)	9	↑	11	33	137	138	458
Writtle	2	↓	5	21	135	132	756
Silwood Park (nr Ascot)	0	↓	3	1	50	63	128
Wye	3	↓	1	2	57	118	313
Starcross (nr Exeter)	0	↓	0	1	58	220	113

The pea aphid was caught at eight sites with highest numbers at Kirton (48).

**Black bean aphid (*Aphis fabae*)**

Black bean aphid ( <i>Aphis fabae</i> )	Bulletin Week Totals		01/08-07/08		Accumulated until		07/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	13	↑	/	40	27	/	94
Gogarbank (Edinburgh)	*6	↑	0	5	14	8	40
Newcastle	0	↓	7	21	2	80	47
York	0		5	/	0	796	/
Preston	0		0	1	3	101	29
Kirton	0		3	9	7	1249	220
Broom's Barn (nr Bury St Edmunds)	0	↓	0	2	3	1407	293
Wellesbourne	0	↓	1	0	4	972	293
Hereford	*0	↓	2	3	1	819	187
Rothamsted (Harpenden)	1	↓	2	3	8	899	385
Writtle	1	↑	2	4	5	1674	360
Silwood Park (nr Ascot)	0		0	0	17	255	99
Wye	0		0	0	7	484	159
Starcross (nr Exeter)	0	↓	0	0	219	183	100

The black bean aphid was caught at four sites in low numbers.

## 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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