



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.

GENERAL – A warm and dry week saw the highest period of harvest clearance so far this summer. Aphid flight activity revived a little as the cereal aphids continue to leave mature crops to seek out fresh green plant material to bridge over this dry period.

WINTER AND SPRING CEREALS

Numbers of bird cherry–oat aphids rose a little across the UK this week, as they leave the remaining mature cereal crops. The winter barley harvest is 95% complete, the winter wheat harvest 40% complete and the spring barley harvest 20% complete. 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 except northern England where it is low to moderate. Aphid monitoring in seed potatoes is coming to an end in the southern half of UK, but continues in northern England and Scotland. SASA have indicated that any future aphid activity is extremely unlikely to present a risk to Scottish seed potatoes. Numbers of peach–potato aphid (*Myzus persicae*) and the potato aphid (*Macrosiphum euphorbiae*) are low in both ST and YWT this week. Further regional information on potato virus vectors can be accessed here: www.potato.org.uk/online-toolbox/aphid-monitoring.

WINTER and SPRING OILSEED RAPE

Aphids are no longer an issue in the 2015/16 crop. Rapid progress has been made with the winter OSR harvest which is now approximately 90% complete. Some crops of early sown 2016/17 oilseed rape are now starting to emerge.

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.

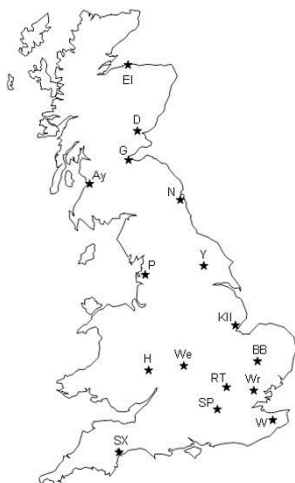
PEAS and BEANS

The field bean and pea harvest is in progress and it now seems unlikely that aphids will cause further significant problems.

The pea aphid (*Acyrtosiphon pisum*) was caught at nine sites with highest numbers at Kirton (22).

Numbers of the black bean aphid (*Aphis fabae*) in both ST and YWT remain 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 21: 08/8 – 14/8**.

- Numbers of bird cherry–oat aphids rose a little across the UK this week.
- The peach–potato aphid was caught in ones and twos at four sites this bulletin week.
- The numbers of willow–carrot aphid (*Cavariella aegopodii*) flying are low everywhere.
- Three currant-lettuce aphids (*Nasonovia ribisnigri*) were caught at Starcross.
- Numbers of parsnip aphids are low (*Cavariella pastinaceae* Y2, BB2, RT7 and SP4, *Cavariella theobaldi* SX1).
- Numbers of the black bean aphid (*Aphis fabae*) remain very low, it was caught at five sites, with highest numbers at Dundee (6).
- The pea aphid was caught at nine sites with highest numbers at Kirton (22).

*' 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		08/08-14/08		Accumulated until		14/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0	↓	/	138	67	/	5625
Gogarbank (Edinburgh)	1	↑	7	4	37	104	634
Newcastle	*0	↓	2	7	41	48	321
York	*28	↑	2	/	97	74	/
Preston	*0	↓	1	1	77	64	373
Kirton	*22	↓	1	2	184	195	1644
Broom's Barn (nr Bury St Edmunds)	*7	↓	0	0	239	232	1219
Wellesbourne	*0	↓	0	0	125	248	390
Hereford	*14	↑	2	3	67	268	564
Rothamsted (Harpenden)	3	↓	0	0	113	203	639
Writtle	*7	↑	0	0	128	111	670
Silwood Park (nr Ascot)	*2	↑	0	0	24	110	167
Wye	*0	↓	1	0	57	86	239
Starcross (nr Exeter)	*0	↓	1	0	66	372	339

The rose–grain aphid was caught at eight sites this week. Numbers were highest at York and Kirton, but generally there were decreases at most sites.

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		08/08-14/08		Accumulated until		14/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	42	↓	/	194	1076	/	2097
Gogarbank (Edinburgh)	58	↑	7	126	256	13	1134
Newcastle	*11	↑	8	45	369	14	504
York	*112	↑	13	/	279	54	/
Preston	*30	↑	4	41	166	32	226
Kirton	*152	↑	9	33	495	119	1012
Broom's Barn (nr Bury St Edmunds)	*47	↑	7	19	490	65	941
Wellesbourne	*166	↑	12	40	752	52	409
Hereford	*152	↑	18	89	824	93	537
Rothamsted (Harpenden)	60	↑	10	35	476	46	549
Writtle	*88	↑	13	17	745	74	595
Silwood Park (nr Ascot)	*20	↑	4	11	285	38	291
Wye	*25	↓	4	9	536	60	365
Starcross (nr Exeter)	*85	↑	30	58	1748	111	629

The bird cherry–oat aphid was caught at all sites this bulletin week. Numbers were a little up on last week's bulletin, with highest numbers at Wellesbourne (166), Kirton (152) and Hereford (152).

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		08/08-14/08		Accumulated until		14/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	6	↓	/	98	110	/	1405
Gogarbank (Edinburgh)	8	↑	40	50	53	96	532
Newcastle	*2	↓	21	28	59	61	248
York	*63	↑	32	/	205	405	/
Preston	*21	↑	21	11	92	96	355
Kirton	*29	↑	6	25	94	52	1510
Broom's Barn (nr Bury St Edmunds)	*8	↓	2	12	79	65	1095
Wellesbourne	*34	↑	2	10	150	87	975
Hereford	*51	↑	3	35	147	264	855
Rothamsted (Harpenden)	18		0	16	90	79	1113
Writtle	*32	↑	3	12	123	67	1123
Silwood Park (nr Ascot)	*4	↑	2	4	44	84	578
Wye	*4	↓	1	3	114	41	707
Starcross (nr Exeter)	*7	↓	2	4	158	395	707

The grain aphid was caught at all sites this week. Highest numbers were recorded at York (63) and Hereford (51), but the accumulated totals are well below the 10-yr means.

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		08/08-14/08		Accumulated until		14/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0	↓	/	6	29	/	28
Gogarbank (Edinburgh)	2	↑	1	1	19	33	15
Newcastle	*0	↓	1	1	20	45	23
York	*0	↓	2	/	261	379	/
Preston	*0		0	1	112	156	129
Kirton	*2	↑	0	4	201	2642	732
Broom's Barn (nr Bury St Edmunds)	*0	↓	0	4	376	2488	929
Wellesbourne	*0		0	0	1655	1276	524
Hereford	*1	↑	0	2	490	710	200
Rothamsted (Harpenden)	1	↑	0	3	301	1015	509
Writtle	*0		1	1	431	1453	831
Silwood Park (nr Ascot)	*0		0	0	33	138	70
Wye	*0	↓	0	1	66	647	273
Starcross (nr Exeter)	*0		3	1	50	759	180

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

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		08/08-14/08		Accumulated until		14/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0	↓	/	2	18	/	74
Gogarbank (Edinburgh)	1	↑	0	1	18	13	67
Newcastle	*0		1	1	3	12	25
York	*0		0	/	9	20	/
Preston	*0		0	1	30	33	33
Kirton	*0		0	0	15	67	72
Broom's Barn (nr Bury St Edmunds)	*0		0	0	5	19	45
Wellesbourne	*0		0	0	21	64	49
Hereford	*0		0	4	33	115	113
Rothamsted (Harpenden)	0		0	0	15	29	25
Writtle	*0		1	0	16	60	43
Silwood Park (nr Ascot)	*0		0	0	14	33	21
Wye	*0		0	0	3	6	17
Starcross (nr Exeter)	*0		1	0	10	62	48

A single potato aphid was caught at Edinburgh this week.

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		08/08-14/08		Accumulated until		14/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	1	1	/	6
Gogarbank (Edinburgh)	0		0	0	4	0	4
Newcastle	*0		0	0	0	3	9
York	*0	↓	3	/	57	97	/
Preston	*0		2	0	82	13	24
Kirton	*0		0	1	83	1370	185
Broom's Barn (nr Bury St Edmunds)	*0	↓	0	2	35	374	144
Wellesbourne	*0	↓	3	1	1355	3673	950
Hereford	*0		4	2	1104	1206	236
Rothamsted (Harpenden)	0		1	3	8	156	92
Writtle	*0		0	3	49	460	272
Silwood Park (nr Ascot)	*0		0	0	9	150	79
Wye	*0		0	0	21	303	140
Starcross (nr Exeter)	*2	↑	7	3	20	233	263

Two mealy cabbage aphids were caught at Starcross this week, but none elsewhere.

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		08/08-14/08		Accumulated until		14/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0	↓	/	5	179	/	103
Gogarbank (Edinburgh)	0	↓	1	0	158	231	105
Newcastle	*0		0	0	72	113	107
York	*0		2	/	488	461	/
Preston	*0	↓	1	1	1159	585	586
Kirton	*0		0	0	685	2210	774
Broom's Barn (nr Bury St Edmunds)	*1	↑	0	1	454	1955	859
Wellesbourne	*1	↑	0	0	451	1333	584
Hereford	*0		0	0	155	403	426
Rothamsted (Harpenden)	0		0	1	250	1345	500
Writtle	*0	↓	0	0	493	2119	993
Silwood Park (nr Ascot)	*0		0	0	103	742	323
Wye	*0		1	0	205	983	464
Starcross (nr Exeter)	*1	↓	0	0	148	344	182

Single willow-carrot aphids were caught at three sites this week.

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		08/08-14/08		Accumulated until		14/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	7	14	/	121
Gogarbank (Edinburgh)	0	↓	3	1	6	21	47
Newcastle	*0	↓	0	1	16	6	53
York	*5	↑	6	/	21	38	/
Preston	*0		1	0	7	13	48
Kirton	*22	↓	3	5	194	254	1227
Broom's Barn (nr Bury St Edmunds)	*13	↓	2	3	195	105	674
Wellesbourne	*0	↓	30	5	198	178	360
Hereford	*8	↑	17	5	114	69	151
Rothamsted (Harpenden)	6	↓	7	5	143	145	460
Writtle	*14	↑	0	2	149	132	756
Silwood Park (nr Ascot)	*1	↑	1	1	51	64	128
Wye	*5	↑	1	0	62	119	313
Starcross (nr Exeter)	*1	↑	7	1	59	227	114

The pea aphid was caught at nine sites with highest numbers at Kirton (22).

Black bean aphid (*Aphis fabae*)

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		08/08-14/08		Accumulated until		14/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	6	↓	/	17	33	/	111
Gogarbank (Edinburgh)	3	↓	10	5	17	18	45
Newcastle	*0		3	2	2	83	49
York	*5	↑	4	/	5	800	/
Preston	*0		1	1	3	102	30
Kirton	*0		0	1	7	1249	221
Broom's Barn (nr Bury St Edmunds)	*0		0	1	3	1407	294
Wellesbourne	*0		5	1	4	977	294
Hereford	*0		1	2	1	820	189
Rothamsted (Harpenden)	2	↑	1	1	10	900	386
Writtle	*0	↓	1	0	5	1675	361
Silwood Park (nr Ascot)	*0		0	0	17	255	99
Wye	*0		0	0	7	484	160
Starcross (nr Exeter)	*2	↑	0	0	221	183	100

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

Further information

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

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