



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 – Last week’s weather was wet and warm. The North East received the most rainfall while the South East and Scotland received only a small amount. Aphid threat is likely to be low.

POTATOES

Aphid monitoring in seed potatoes is coming to an end in the southern half of GB but continues in northern England and Scotland. Virus pressure was low in all regions. 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 very 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.

FIELD BRASSICAS and LEAFY VEGETABLES

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

CARROTS and PARSNIPS

The numbers of willow–carrot aphid (*Cavariella aegopodii*) and the parsnip aphids are increasing.

PEAS and BEANS

The winter bean harvest is now very much in full swing and the spring bean harvest in the south only days away. The pea harvest is progressing well and it now seems unlikely that aphids will cause further significant problems to either crop.

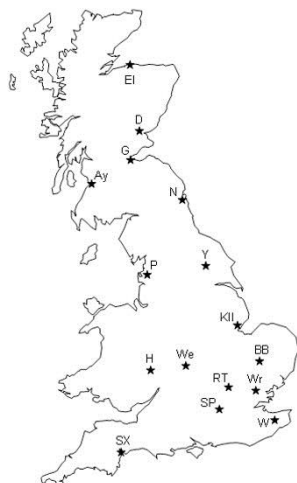
CEREALS

Numbers of the three cereal aphid species remain stable across the UK this week. The winter barley harvest is virtually complete, winter wheat harvest 70%, spring barley 30% and oats 50% complete.

OILSEED RAPE

Aphids are no longer an issue in the 2015/16 crop. The winter OSR harvest which is now almost complete. Some crops of early sown 2016/17 oilseed rape are now starting to emerge, but aphid numbers are very low and therefore the risk to emerging crops is low at present.

SUCTION-TRAPPING RESULTS



The information below relates to suction-trap samples collected during **Bulletin Week 23: 22/8 – 28/8**.

- Numbers of the three cereal aphid species are stable across the UK this week.
- The peach–potato aphid was caught in low numbers this bulletin week at three sites.
- The willow–carrot aphid (*Cavariella aegopodii*) was caught at eight sites this week, with the highest numbers at Preston (11).
- One currant-lettuce aphid (*Nasonovia ribisnigri*) was caught at Broom’s Barn.
- Parsnip aphids (*Cavariella pastinaceae*) were caught at: G1, P12, BB8, RT1, SP4 and W2, *Cavariella theobaldi* at: K2, Wr2, SP2, W2 and SX1).
- The black bean aphid (*Aphis fabae*) was caught at six sites, with highest numbers at Edinburgh (11).
- The pea aphid was caught at 11 sites, with highest numbers at Kirton (25).

*’ 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		22/08-28/08		Accumulated until		28/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	1	↑	/	1	68	/	5635
Gogarbank (Edinburgh)	0	↓	4	1	38	118	639
Newcastle	/		0	1	43	50	329
York	*5	↓	0	/	122	74	/
Preston	*0	↓	2	0	78	71	375
Kirton	*1	↓	0	1	188	195	1645
Broom’s Barn (nr Bury St Edmunds)	*5	↑	0	0	244	232	1219
Wellesbourne	*5		0	0	130	248	391
Hereford	*0	↓	0	1	70	268	565
Rothamsted (Harpenden)	*2	↑	0	0	115	205	639
Writtle	*0		0	0	128	113	670
Silwood Park (nr Ascot)	*0		0	0	24	110	167
Wye	*0		0	0	57	86	239
Starcross (nr Exeter)	*0	↓	0	0	68	372	340

Single figures of the rose–grain aphid was caught at six sites this week. Accumulated totals are below the 10-yr mean this summer.

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		22/08-28/08		Accumulated until		28/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	63	↑	/	77	1170	/	2395
Gogarbank (Edinburgh)	116	↓	21	127	510	38	1368
Newcastle	/		13	45	397	39	604
York	*210	↑	46	/	570	134	/
Preston	*56	↑	53	60	258	119	337
Kirton	*98	↑	11	23	618	150	1064
Broom's Barn (nr Bury St Edmunds)	*76	↑	2	19	602	68	981
Wellesbourne	*105		4	40	857	61	471
Hereford	*274	↑	8	51	1321	128	646
Rothamsted (Harpenden)	*74	↑	2	26	574	61	598
Writtle	*65	↑	3	12	834	87	620
Silwood Park (nr Ascot)	*53	↑	0	9	371	39	309
Wye	*50	↑	0	11	622	77	389
Starcross (nr Exeter)	*56	↑	13	49	1844	133	714

The bird cherry–oat aphid was caught at all sites this bulletin week. Numbers were up on last week's bulletin at all sites except Gogarbank. Highest numbers at Hereford (274) and York (210).

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		22/08-28/08		Accumulated until		28/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	14	↑	/	13	128	/	1509
Gogarbank (Edinburgh)	14	↓	33	17	86	163	583
Newcastle	/		7	7	65	80	278
York	*72	↑	4	/	297	427	/
Preston	*11	↑	2	4	110	105	365
Kirton	*13	↑	0	4	109	52	1524
Broom's Barn (nr Bury St Edmunds)	*1	↑	0	2	81	66	1100
Wellesbourne	*14		0	2	164	87	979
Hereford	*123	↑	0	5	309	264	872
Rothamsted (Harpenden)	*11	↑	1	3	105	82	1121
Writtle	*9	↑	0	2	136	67	1127
Silwood Park (nr Ascot)	*0	↓	0	3	48	84	581
Wye	*3	↓	0	1	122	41	709
Starcross (nr Exeter)	*2	↑	0	2	161	395	709

The grain aphid was caught at all sites with the exception of Silwood. Highest numbers were recorded at Hereford (123), York (72), but the accumulated totals are still below the 10-yr means.

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		22/08-28/08		Accumulated until		28/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2	↑	/	1	31	/	35
Gogarbank (Edinburgh)	1		0	0	21	34	16
Newcastle	/		0	1	21	45	25
York	*0		0	/	261	381	/
Preston	*0	↓	1	1	113	157	131
Kirton	*0		1	1	201	2643	735
Broom’s Barn (nr Bury St Edmunds)	*0		0	1	376	2488	930
Wellesbourne	*0		0	0	1655	1276	524
Hereford	*0	↓	0	2	495	710	204
Rothamsted (Harpenden)	*0		0	0	301	1015	509
Writtle	*0		0	0	431	1453	832
Silwood Park (nr Ascot)	*0		0	0	33	138	70
Wye	*0		0	1	66	647	273
Starcross (nr Exeter)	*1	↑	1	1	52	760	181

The peach–potato aphid was caught in low numbers this bulletin week at three sites.

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		22/08-28/08		Accumulated until		28/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	1	18	/	75
Gogarbank (Edinburgh)	0		1	1	18	16	69
Newcastle	/		1	0	3	15	26
York	*0	↓	0	/	12	24	/
Preston	*6	↑	0	0	37	33	34
Kirton	*0		0	0	15	67	72
Broom’s Barn (nr Bury St Edmunds)	*5	↑	0	0	10	19	45
Wellesbourne	*0		0	0	21	64	49
Hereford	*5	↓	0	2	51	115	119
Rothamsted (Harpenden)	*0		0	0	15	29	26
Writtle	*5	↑	0	0	21	60	44
Silwood Park (nr Ascot)	*0	↓	0	0	16	33	21
Wye	*0		0	0	3	6	17
Starcross (nr Exeter)	*0		0	0	10	62	49

The potato aphid was caught at four sites this week, with highest numbers at Preston (6).

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		22/08-28/08		Accumulated until		28/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	1	1	/	12
Gogarbank (Edinburgh)	1	↑	0	0	5	0	6
Newcastle	/		0	0	0	3	9
York	*0		0	/	57	97	/
Preston	*0		0	1	82	13	25
Kirton	*2	↑	0	0	86	1370	186
Broom's Barn (nr Bury St Edmunds)	*0	↓	0	0	36	374	145
Wellesbourne	*0		0	0	1355	3673	950
Hereford	*0		0	7	1104	1206	248
Rothamsted (Harpenden)	*0		0	0	8	156	93
Writtle	*0		0	0	49	460	273
Silwood Park (nr Ascot)	*0		0	0	9	150	79
Wye	*0		0	0	21	303	140
Starcross (nr Exeter)	*5	↑	0	2	26	233	267

Mealy cabbage aphids were caught in low numbers at three sites this week, the most at Starcross (5).

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		22/08-28/08		Accumulated until		28/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	4	179	/	113
Gogarbank (Edinburgh)	1	↑	1	1	159	233	106
Newcastle	/		0	0	72	113	109
York	*5	↑	2	/	494	463	/
Preston	*11	↑	4	3	1170	592	590
Kirton	*5	↑	0	1	691	2210	776
Broom's Barn (nr Bury St Edmunds)	*2	↑	0	2	457	1955	861
Wellesbourne	*0		0	0	451	1333	584
Hereford	*0		0	0	155	403	426
Rothamsted (Harpenden)	*2	↑	0	0	253	1345	500
Writtle	*5	↑	1	1	498	2120	994
Silwood Park (nr Ascot)	*0		0	0	103	742	323
Wye	*3	↑	0	0	208	983	464
Starcross (nr Exeter)	*0		0	0	148	344	183

The willow-carrot aphid was caught at eight sites this week with the highest numbers at Preston (11).

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		22/08-28/08		Accumulated until		28/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2	↑	/	1	16	/	123
Gogarbank (Edinburgh)	3	↓	2	1	16	23	49
Newcastle	/		0	1	17	6	54
York	*19	↑	4	/	46	44	/
Preston	*6	↑	0	0	14	14	49
Kirton	*25	↑	1	1	222	256	1228
Broom's Barn (nr Bury St Edmunds)	*6	↑	0	0	202	105	675
Wellesbourne	*0		0	0	198	190	360
Hereford	*15	↑	0	1	143	79	153
Rothamsted (Harpenden)	*5	↓	0	1	153	147	461
Writtle	*5	↑	0	1	156	132	757
Silwood Park (nr Ascot)	*0		0	0	51	64	129
Wye	*8	↑	0	1	74	119	314
Starcross (nr Exeter)	*4	↑	0	1	63	228	116

The pea aphid was caught at 11 sites with highest numbers at Kirton (25).

Black bean aphid (*Aphis fabae*)

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		22/08-28/08		Accumulated until		28/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0	↓	/	8	39	/	142
Gogarbank (Edinburgh)	11	↓	37	6	52	70	59
Newcastle	/		8	3	2	93	56
York	*0		0	/	5	800	/
Preston	*6	↑	0	0	9	104	30
Kirton	*0		0	1	7	1249	223
Broom's Barn (nr Bury St Edmunds)	*0		0	0	3	1407	295
Wellesbourne	*5		0	0	9	978	295
Hereford	*2	↑	0	0	4	822	191
Rothamsted (Harpenden)	*0		0	1	10	901	387
Writtle	*5	↑	0	0	10	1675	362
Silwood Park (nr Ascot)	*0		0	0	17	255	99
Wye	*0		0	0	7	484	160
Starcross (nr Exeter)	*1	↓	0	0	226	183	100

The black bean aphid was caught at six sites with highest numbers at Edinburgh (11).

Further information

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

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