



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 started mainly warm and dry but gave way to wet and very windy conditions over the weekend. This resulted in an overall drop in aphid flight activity and thus the likely impact of aphids is low at present.

POTATOES

Virus pressure is very low across all regions. 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 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 low.

PEAS and BEANS

The winter bean harvest now very much in full swing and the spring bean harvesting 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.

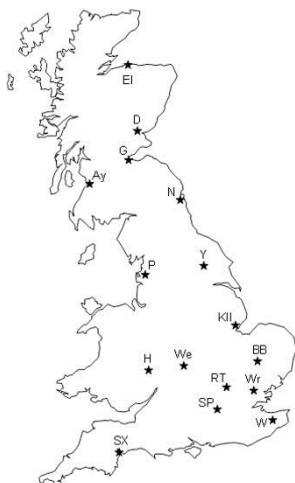
CEREALS

Numbers of the three cereal aphid species fell across the UK this week. The winter barley harvest is 99% complete, winter wheat harvest 60%, spring barley 35% and oats 50% complete.

OILSEED RAPE

Aphids are no longer an issue in the 2015/16 crop. The winter OSR harvest which is now approximately 97% 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 22: 15/8 – 21/8**.

- Numbers of the three cereal aphid species fell across the UK this week.
- The peach–potato aphid was caught at five sites in low numbers 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* N1, P2, K2, RT1, SP1 and W3, *Cavariella theobaldi* RT1, W2 and SX1).
- The black bean aphid (*Aphis fabae*) was caught at three sites with a hotspot at Edinburgh (24).
- The pea aphid was caught at ten sites with highest numbers at Hereford (14).

*' 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		15/08-21/08		Accumulated until		21/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*0		/	10	67	/	5635
Gogarbank (Edinburgh)	1		10	3	38	114	637
Newcastle	2	↑	2	7	43	50	328
York	20	↓	0	/	117	74	/
Preston	1	↑	5	1	78	69	374
Kirton	3	↓	0	1	187	195	1644
Broom's Barn (nr Bury St Edmunds)	0	↓	0	0	239	232	1219
Wellesbourne	/		0	0	125	248	390
Hereford	*2	↓	0	1	70	268	565
Rothamsted (Harpenden)	0	↓	2	0	113	205	639
Writtle	0	↓	2	0	128	113	670
Silwood Park (nr Ascot)	0	↓	0	0	24	110	167
Wye	0		0	0	57	86	239
Starcross (nr Exeter)	2	↑	0	0	68	372	339

The rose–grain aphid was caught at seven sites this week. Numbers were highest at York, but generally there were decreases at most sites and 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		15/08-21/08		Accumulated until		21/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*32	↓	/	220	1107	/	2317
Gogarbank (Edinburgh)	138	↑	4	106	394	17	1241
Newcastle	28	↑	12	55	397	26	559
York	81	↓	34	/	360	88	/
Preston	36	↑	34	52	202	66	278
Kirton	25	↓	20	28	520	139	1041
Broom's Barn (nr Bury St Edmunds)	37	↓	1	21	527	66	962
Wellesbourne	/		5	22	752	57	431
Hereford	*223	↑	27	58	1047	120	595
Rothamsted (Harpenden)	24	↓	13	22	500	59	572
Writtle	23	↓	10	14	768	84	608
Silwood Park (nr Ascot)	33	↑	1	9	318	39	300
Wye	36	↑	17	13	572	77	378
Starcross (nr Exeter)	40	↓	9	36	1788	120	665

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 Edinburgh (138) and Hereford (223).

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		15/08-21/08		Accumulated until		21/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*4	↓	/	92	114	/	1497
Gogarbank (Edinburgh)	19	↑	34	33	72	130	565
Newcastle	6	↑	12	23	65	73	271
York	20	↓	18	/	225	423	/
Preston	7	↓	7	6	99	103	361
Kirton	2	↓	0	10	96	52	1520
Broom's Barn (nr Bury St Edmunds)	1	↓	1	3	80	66	1098
Wellesbourne	/		0	2	150	87	977
Hereford	*40	↓	0	13	187	264	868
Rothamsted (Harpenden)	5	↓	2	5	95	81	1118
Writtle	3	↓	0	2	126	67	1125
Silwood Park (nr Ascot)	4	↑	0	0	48	84	578
Wye	5	↑	0	1	119	41	708
Starcross (nr Exeter)	1	↓	0	3	159	395	708

The grain aphid was caught at all sites this week. Highest numbers were recorded at Edinburgh (19), York (20) and Hereford (40), 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		15/08-21/08		Accumulated until		21/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*0		/	6	29	/	34
Gogarbank (Edinburgh)	1	↓	1	1	20	34	16
Newcastle	1	↑	0	1	21	45	24
York	0		2	/	261	381	/
Preston	1	↑	0	0	113	156	130
Kirton	0	↓	0	1	201	2642	733
Broom’s Barn (nr Bury St Edmunds)	0		0	1	376	2488	930
Wellesbourne	/		0	0	1655	1276	524
Hereford	*5	↑	0	2	495	710	201
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	0	66	647	273
Starcross (nr Exeter)	1	↑	0	0	51	759	180

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

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		15/08-21/08		Accumulated until		21/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*0		/	1	18	/	74
Gogarbank (Edinburgh)	0	↓	2	1	18	15	68
Newcastle	0		2	1	3	14	26
York	3	↑	4	/	12	24	/
Preston	1	↑	0	0	31	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	21	64	49
Hereford	*14	↑	0	3	47	115	116
Rothamsted (Harpenden)	0		0	0	15	29	26
Writtle	0		0	0	16	60	43
Silwood Park (nr Ascot)	2	↑	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 Hereford (14).

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		15/08-21/08		Accumulated until		21/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*0		/	5	1	/	11
Gogarbank (Edinburgh)	0		0	2	4	0	5
Newcastle	0		0	0	0	3	9
York	0		0	/	57	97	/
Preston	0		0	0	82	13	24
Kirton	0		0	0	83	1370	185
Broom's Barn (nr Bury St Edmunds)	1	↑	0	1	36	374	145
Wellesbourne	/		0	1	1355	3673	950
Hereford	*0		0	6	1104	1206	241
Rothamsted (Harpenden)	0		0	1	8	156	93
Writtle	0		0	1	49	460	273
Silwood Park (nr Ascot)	0		0	0	9	150	79
Wye	0		0	0	21	303	140
Starcross (nr Exeter)	1	↓	0	2	21	233	264

Single mealy cabbage aphids were caught at Broom's Barn and Starcross this week.

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		15/08-21/08		Accumulated until		21/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*0		/	7	179	/	110
Gogarbank (Edinburgh)	0		1	0	158	232	106
Newcastle	0		0	1	72	113	108
York	2	↑	0	/	490	461	/
Preston	0		3	2	1159	588	587
Kirton	1	↑	0	1	686	2210	775
Broom's Barn (nr Bury St Edmunds)	1	↓	0	0	455	1955	859
Wellesbourne	/		0	0	451	1333	584
Hereford	*0		0	0	155	403	426
Rothamsted (Harpenden)	0		0	0	250	1345	500
Writtle	1	↑	0	0	494	2119	993
Silwood Park (nr Ascot)	0		0	0	103	742	323
Wye	0		0	0	205	983	464
Starcross (nr Exeter)	0	↓	0	0	148	344	183

The willow-carrot aphid was caught at four sites this week in low numbers.

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		15/08-21/08		Accumulated until		21/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*0		/	4	14	/	122
Gogarbank (Edinburgh)	7	↑	0	1	13	21	48
Newcastle	1	↑	0	2	17	6	54
York	6	↑	2	/	27	40	/
Preston	2	↑	1	0	9	14	49
Kirton	3	↓	1	1	197	255	1228
Broom's Barn (nr Bury St Edmunds)	1	↓	0	0	196	105	675
Wellesbourne	/		12	2	198	190	360
Hereford	*14	↑	10	2	128	79	152
Rothamsted (Harpenden)	5	↓	2	1	148	147	460
Writtle	3	↓	0	1	152	132	757
Silwood Park (nr Ascot)	0	↓	0	0	51	64	129
Wye	3	↓	0	0	65	119	314
Starcross (nr Exeter)	0	↓	1	1	59	228	115

The pea aphid was caught at ten sites with highest numbers at Hereford (14).

Black bean aphid (*Aphis fabae*)

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		15/08-21/08		Accumulated until		21/08
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*6	↓	/	24	39	/	134
Gogarbank (Edinburgh)	24	↑	15	9	41	33	53
Newcastle	0		2	3	2	85	53
York	0	↓	0	/	5	800	/
Preston	0		2	0	3	104	30
Kirton	0		0	1	7	1249	221
Broom's Barn (nr Bury St Edmunds)	0		0	1	3	1407	295
Wellesbourne	/		1	0	4	978	295
Hereford	*0		2	1	1	822	190
Rothamsted (Harpenden)	0	↓	1	0	10	901	386
Writtle	0		0	1	5	1675	361
Silwood Park (nr Ascot)	0		0	0	17	255	99
Wye	0		0	0	7	484	160
Starcross (nr Exeter)	3	↑	0	0	224	183	100

The black bean aphid was caught at three sites with a hotspot at Edinburgh (24).

Further information

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

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