



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 – Most aphid flight activity decreased over the past week with the exception of cereal aphids. Generally, the numbers of aphid flying are low for the time of year. Most aphids trapped are now leaving ripening or mature crops and should only pose a threat to the most backward crops.

WINTER AND SPRING CEREALS

Numbers of cereal aphids flying from ripening crops are increasing, particularly in central and southern England, but the accumulated totals are still well below average for the time of year. Most crops in England are past the stage that damage is likely. The threshold is 66% of tillers infested from GS61 to two weeks before the end of grain filling, but most crops are beyond this now. The winter barley harvest has started across most of the UK.

POTATOES

Virus pressure is low across all regions. Numbers of peach–potato aphid (*Myzus persicae*) and the potato aphid (*Macrosiphum euphorbiae*) remain very low in both ST and YWT this week. In Scotland things are a little later and although cereal aphids are low at present, they may still pose a threat as vectors later on. Further regional information on potato virus vectors can be accessed here: www.potato.org.uk/online-toolbox/aphid-monitoring.

WINTER and SPRING OILSEED RAPE

Numbers of peach–potato aphid and mealy cabbage aphid are low or absent at most trap sites and are no longer an issue in these crops. The earliest crops in southern and eastern England have started to be harvested.

FIELD BRASSICAS and LEAFY VEGETABLES

All aphids affecting field brassicas and leafy vegetables are generally low in STs. The potential threat to crop production is diamond back moth in a range of brassicas. A number of growers have reported problems and a second generation of diamond back moth is emerging.

CARROTS and PARSNIPS

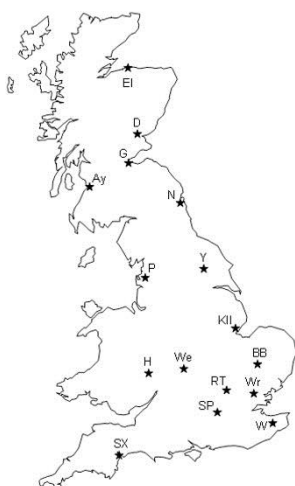
The numbers of willow–carrot aphid (*Cavariella aegopodii*) flying are now very low everywhere. Numbers of parsnip aphids (*Cavariella pastinaceae* 1 at Preston and 3 at Starcross but no *Cavariella theobaldi*), are also very low.

PEAS and BEANS

Pea aphid (*Acyrtosiphon pisum*) numbers are low in our trap catches compared to 10-year means for this time of year. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested. The vining pea harvest has already and it now seems unlikely that aphids will cause significant problems this season.

The threshold for black bean aphid (*Aphis fabae*) in field and broad beans is 10% colonisation at early flowering and 5% infested to prevent virus transmission. We have not received any field reports of crops requiring treatment so far. Numbers in both ST and YWT are conspicuously low both for the time of year and compared to the large migrations seen in 2015.

SUCTION-TRAPPING RESULTS



The information below relates to suction-trap samples collected during **Bulletin Week 17: 11/7 – 18/7**.

- Numbers of cereal aphids flying from ripening crops are increasing, particularly in central and southern England, but the accumulated totals are still well below average for the time of year.
- Numbers of peach–potato aphid (*Myzus persicae*) and the potato aphid (*Macrosiphum euphorbiae*) remain very low this week.
- The numbers of willow–carrot aphid (*Cavariella aegopodii*) flying are now very low everywhere.
- A single currant-lettuce aphid (*Nasonovia ribisnigri*) was caught at Rothamsted.
- Numbers of parsnip aphids (*Cavariella pastinaceae* 1 at Preston and 3 at Starcross but no *Cavariella theobaldi*), are also very low.
- Numbers of the black bean aphid (*Aphis fabae*) are conspicuously low, both for the time of year and compared to the large migrations seen in 2015.

*' 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		11/07-17/07		Accumulated until		17/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2	↓	/	708	63	/	1215
Gogarbank (Edinburgh)	3		40	139	32	74	463
Newcastle	0	↓	1	51	36	21	128
York	4	↑	5	/	35	55	/
Preston	0	↓	3	24	69	63	340
Kirton	4	↓	12	114	35	187	1188
Broom's Barn (nr Bury St Edmunds)	16	↑	8	188	54	227	1088
Wellesbourne	9	↑	5	49	66	244	372
Hereford	6	↑	18	120	41	252	498
Rothamsted (Harpenden)	5	↑	4	165	50	198	602
Writtle	18	↑	2	107	64	107	583
Silwood Park (nr Ascot)	0		5	41	16	106	164
Wye	11	↑	26	56	35	84	221
Starcross (nr Exeter)	4	↑	1	13	60	363	325

The rose–grain aphid was caught in low numbers at 11 sites this week. There were small increases at eight sites and the highest numbers were at Writtle and Broom's Barn, but numbers are well below the 10-yr means.

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		11/07-17/07		Accumulated until		17/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	67	↓	/	335	950	/	759
Gogarbank (Edinburgh)	9	↓	0	75	92	5	696
Newcastle	141	↑	0	30	271	5	286
York	8		6	/	78	23	/
Preston	10	↑	1	16	76	17	89
Kirton	4		15	64	197	92	700
Broom's Barn (nr Bury St Edmunds)	21	↑	5	91	296	50	775
Wellesbourne	37	↑	1	61	307	29	201
Hereford	21	↑	4	55	191	31	232
Rothamsted (Harpenden)	25	↑	1	49	236	23	352
Writtle	37	↑	4	56	473	55	442
Silwood Park (nr Ascot)	28	↑	4	29	176	28	197
Wye	81	↑	5	27	282	41	218
Starcross (nr Exeter)	68	↑	4	50	601	72	318

The bird cherry–oat aphid was caught at all sites this bulletin week. Numbers were up on last week's bulletin, with highest numbers at Newcastle (141), Wye (81) and Starcross (68), but generally they remain below the 10-yr means.

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		11/07-17/07		Accumulated until		17/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	13	↓	/	156	86	/	267
Gogarbank (Edinburgh)	1		17	56	24	26	192
Newcastle	3	↑	4	34	34	10	78
York	14	↑	44	/	45	253	/
Preston	9	↑	21	60	34	56	228
Kirton	0	↓	2	140	13	33	853
Broom's Barn (nr Bury St Edmunds)	6	↑	20	196	28	56	805
Wellesbourne	5	↑	30	282	62	76	679
Hereford	3	↑	89	209	23	215	525
Rothamsted (Harpenden)	1		9	271	24	61	858
Writtle	11	↑	12	241	36	52	803
Silwood Park (nr Ascot)	3	↑	9	286	26	61	452
Wye	10	↑	7	372	63	31	549
Starcross (nr Exeter)	10	↑	136	68	76	347	549

The grain aphid was caught in low numbers at 13 sites this week, with small increases at 10 sites, but numbers are well below the 10-yr means.

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		11/07-17/07		Accumulated until		17/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	1	↓	/	3	18	/	9
Gogarbank (Edinburgh)	3	↓	3	2	11	30	13
Newcastle	0		14	2	19	36	16
York	0		23	/	256	370	/
Preston	0	↓	10	3	112	148	121
Kirton	1		19	34	181	2630	642
Broom's Barn (nr Bury St Edmunds)	1		18	66	368	2486	824
Wellesbourne	0		20	11	1649	1272	518
Hereford	0		7	11	466	702	169
Rothamsted (Harpenden)	0		44	87	297	1003	457
Writtle	1	↓	6	71	419	1447	760
Silwood Park (nr Ascot)	4	↑	4	9	33	136	69
Wye	0	↓	12	17	63	639	263
Starcross (nr Exeter)	0		11	6	43	746	164

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

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		11/07-17/07		Accumulated until		17/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2	↑	/	6	17	/	18
Gogarbank (Edinburgh)	0		2	4	14	13	45
Newcastle	0	↓	0	3	3	10	16
York	0		0	/	9	19	/
Preston	0		1	1	30	33	27
Kirton	0		4	4	15	67	58
Broom's Barn (nr Bury St Edmunds)	0		0	7	4	19	42
Wellesbourne	0		4	7	21	62	46
Hereford	0		10	17	29	111	80
Rothamsted (Harpenden)	0		6	4	15	29	24
Writtle	0		2	3	16	58	41
Silwood Park (nr Ascot)	0		0	2	14	33	20
Wye	0		0	1	3	6	15
Starcross (nr Exeter)	2	↑	2	1	10	61	45

The potato aphid was recorded at two sites this week in low numbers.

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		11/07-17/07		Accumulated until		17/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	1	↑	/	2	1	/	2
Gogarbank (Edinburgh)	0	↓	0	0	3	0	2
Newcastle	0		0	0	0	3	6
York	0	↓	13	/	53	90	/
Preston	1	↑	0	1	82	10	18
Kirton	0		78	12	75	1344	171
Broom's Barn (nr Bury St Edmunds)	0		30	33	32	372	115
Wellesbourne	1	↓	686	130	1350	3595	911
Hereford	0		359	39	1100	1106	195
Rothamsted (Harpenden)	0		23	19	8	129	65
Writtle	0		20	32	44	453	214
Silwood Park (nr Ascot)	1	↑	39	14	8	128	73
Wye	2	↑	56	23	20	296	124
Starcross (nr Exeter)	2	↑	57	21	12	197	172

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

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		11/07-17/07		Accumulated until		17/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	1	↓	/	4	178	/	74
Gogarbank (Edinburgh)	0	↓	2	3	155	229	102
Newcastle	2	↓	5	4	72	111	103
York	4		1	/	483	452	/
Preston	4	↑	2	4	1157	584	581
Kirton	0	↓	8	5	684	2207	767
Broom's Barn (nr Bury St Edmunds)	1	↑	20	10	451	1954	854
Wellesbourne	0		2	1	447	1333	583
Hereford	0		2	6	153	399	423
Rothamsted (Harpenden)	0	↓	0	7	248	1343	497
Writtle	1		2	3	491	2116	991
Silwood Park (nr Ascot)	0		0	1	100	742	322
Wye	4	↑	1	1	205	980	463
Starcross (nr Exeter)	1	↑	0	2	144	337	179

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

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		11/07-17/07		Accumulated until		17/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	4	↑	/	18	10	/	52
Gogarbank (Edinburgh)	1	↑	8	4	3	17	33
Newcastle	0	↓	1	3	13	4	21
York	2	↑	6	/	11	25	/
Preston	0		1	1	7	12	42
Kirton	0		20	97	62	222	818
Broom's Barn (nr Bury St Edmunds)	8	↑	14	111	103	87	537
Wellesbourne	0		35	104	185	95	335
Hereford	1	↑	11	33	102	43	134
Rothamsted (Harpenden)	1	↓	15	104	113	92	352
Writtle	2	↑	18	149	107	100	611
Silwood Park (nr Ascot)	0		13	35	46	44	121
Wye	12	↑	29	104	45	99	281
Starcross (nr Exeter)	3	↑	20	17	36	199	99

The pea aphid was caught at nine sites with highest numbers at Broom's Barn and Wye.

Black bean aphid (*Aphis fabae*)

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		11/07-17/07		Accumulated until		17/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2	↑	/	9	6	/	14
Gogarbank (Edinburgh)	0		0	2	3	5	8
Newcastle	0		31	6	0	51	10
York	0		123	/	0	676	/
Preston	2	↑	20	4	3	97	24
Kirton	0		207	35	7	1188	178
Broom's Barn (nr Bury St Edmunds)	0		49	30	1	1401	281
Wellesbourne	0		117	62	2	923	275
Hereford	0		170	40	0	703	149
Rothamsted (Harpenden)	0	↓	138	47	6	820	352
Writtle	1		88	48	4	1649	339
Silwood Park (nr Ascot)	2	↑	66	20	17	240	86
Wye	2	↓	182	61	7	474	147
Starcross (nr Exeter)	4	↑	16	7	207	177	93

The black bean aphid was caught at six sites in very low numbers for the time of year.

Further information

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

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