



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 week of scattered heavy showers has made crop harvesting difficult at times. Most aphids trapped are now leaving ripening or mature crops and thus should have little impact.

WINTER AND SPRING CEREALS

Numbers of cereal aphids flying from ripening crops continued to increase, particularly the bird cherry-oat aphid (*Rhopalosiphum padi*) in suction-traps in central and southern England. The winter barley harvest is 60% complete and the winter wheat harvest has begun. This summer low levels of aphids have been recorded in cereal crops from early in the season but they have 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. The bird cherry-oat aphid (*Rhopalosiphum padi*) is contributing a little to the albeit low virus pressure in some areas. 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 below average at present. 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 most crops. The winter OSR harvest is approximately 40% complete, which is a little behind the five-year average for the first week in August.

FIELD BRASSICAS and LEAFY VEGETABLES

All aphids affecting field brassicas and leafy vegetables are generally low in STs. The potential threat in a range of brassicas is the diamond back moth, as reports of a second generation flight continue to come in.

CARROTS and PARSNIPS

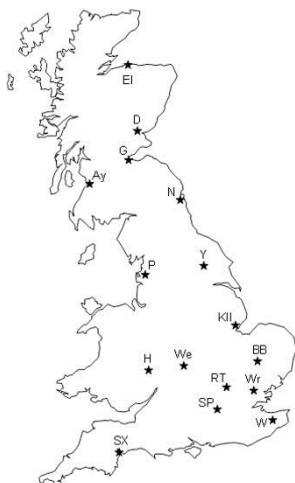
The numbers of willow-carrot aphid (*Cavariella aegopodii*) flying are now very low everywhere. Numbers of parsnip aphids are also low.

PEAS and BEANS

The pea aphid (*Acyrtosiphon pisum*) was caught at nine sites across central and southern England, with highest numbers at Kirton (28) and Broom's Barn (42). The pea harvest has begun and it now seems unlikely that aphids will cause significant problems this season.

We have not received any field reports of crops requiring treatment for black bean aphid (*Aphis fabae*) so far. Numbers in both ST and YWT are low both for the time of year and compared to the large migrations seen in 2015, but we are now catching them right across the UK in the suction-traps.

SUCTION-TRAPPING RESULTS



The information below relates to suction-trap samples collected during **Bulletin Week 19: 25/7 – 31/7**.

- Cereal aphids continue to fly from ripening crops, with numbers in the traps highest in central England.
- Numbers of peach–potato aphid (*Myzus persicae*) increased very slightly on last week, with highest numbers at Kirton (11).
- The numbers of willow–carrot aphid (*Cavariella aegopodii*) flying are low everywhere.
- A single currant-lettuce aphid (*Nasonovia ribisnigri*) was caught at Edinburgh.
- Numbers of parsnip aphids are low (*Cavariella pastinaceae* N1, Y6, P2, BB1, RT2, WR1, W1 and SX3, but no *Cavariella theobaldi*).
- Numbers of the black bean aphid (*Aphis fabae*) remain very low, but it was caught at eight sites spread right across the UK this week.
- The pea aphid was caught at nine sites with highest numbers at Kirton(28) and Broom’s Barn(42).

*’ 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		25/07-31/07		Accumulated until		31/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2	↑	/	848	65	/	3621
Gogarbank (Edinburgh)	*1	↓	5	53	36	89	620
Newcastle	*0	↓	20	40	40	44	227
York	*7	↓	9	/	59	69	/
Preston	*5	↑	0	6	73	63	369
Kirton	*35	↓	5	238	129	194	1628
Broom’s Barn (nr Bury St Edmunds)	*103	↑	0	63	213	231	1208
Wellesbourne	*26	↓	3	6	120	248	389
Hereford	*9	↑	3	17	53	266	556
Rothamsted (Harpenden)	*27		2	12	104	203	637
Writtle	*22	↓	1	40	119	109	668
Silwood Park (nr Ascot)	*6	↑	3	1	22	109	167
Wye	*7	↓	1	2	56	85	239
Starcross (nr Exeter)	*4	↑	1	4	65	370	337

The rose–grain aphid was caught at 13 sites this week. There were small increases at six sites and a hotspot at Broom’s Barn (103).

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		25/07-31/07		Accumulated until		31/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	25	↑	/	349	989	/	1467
Gogarbank (Edinburgh)	*44	↑	0	132	161	5	896
Newcastle	*16	↓	0	42	349	5	367
York	*47	↑	2	/	135	26	/
Preston	*21	↑	8	37	115	25	152
Kirton	*41	↓	14	114	296	108	907
Broom's Barn (nr Bury St Edmunds)	*75	↑	1	58	411	58	884
Wellesbourne	*142	↑	1	67	553	35	334
Hereford	*189	↑	15	76	555	55	371
Rothamsted (Harpenden)	*83	↑	2	54	374	29	469
Writtle	*39	↓	2	59	647	57	552
Silwood Park (nr Ascot)	*27	↓	2	17	253	32	243
Wye	*124	↑	7	59	471	52	336
Starcross (nr Exeter)	*85	↓	2	91	1616	79	489

The bird cherry–oat aphid was caught at all sites this bulletin week. Numbers were up on last week's bulletin at nine sites, with highest numbers at Wellesbourne (142), Hereford (189) and Wye (124).

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		25/07-31/07		Accumulated until		31/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	8	↑	/	413	97	/	990
Gogarbank (Edinburgh)	*9	↑	7	148	39	41	427
Newcastle	*7	↓	17	33	54	32	169
York	*40	↑	71	/	118	350	/
Preston	*14		7	32	62	68	329
Kirton	*23	↑	8	315	38	46	1403
Broom's Barn (nr Bury St Edmunds)	*19	↑	1	111	59	63	1032
Wellesbourne	*34	↑	3	160	99	83	950
Hereford	*36	↑	12	98	73	251	779
Rothamsted (Harpenden)	*13	↓	5	81	54	75	1065
Writtle	*27	↑	4	153	86	64	1078
Silwood Park (nr Ascot)	*5	↓	2	37	39	82	571
Wye	*21	↓	3	28	107	40	696
Starcross (nr Exeter)	*13	↓	8	31	140	390	696

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

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		25/07-31/07		Accumulated until		31/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2	↓	/	6	27	/	18
Gogarbank (Edinburgh)	*1	↓	1	1	16	32	14
Newcastle	*0		5	2	19	43	20
York	*2	↑	5	/	259	375	/
Preston	*0		0	2	112	156	126
Kirton	*11	↑	6	33	197	2642	716
Broom’s Barn (nr Bury St Edmunds)	*1	↓	1	40	375	2488	904
Wellesbourne	*4	↑	0	1	1655	1276	523
Hereford	*5	↓	4	8	489	709	194
Rothamsted (Harpenden)	*1		2	12	300	1013	502
Writtle	*4	↓	1	26	431	1452	817
Silwood Park (nr Ascot)	*0		0	0	33	138	70
Wye	*2	↑	0	0	65	643	271
Starcross (nr Exeter)	*0	↓	1	2	50	756	178

The peach–potato aphid was caught at 10 sites this bulletin week. There were small increases at four sites, with highest numbers at Kirton (11).

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		25/07-31/07		Accumulated until		31/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	27	17	/	59
Gogarbank (Edinburgh)	*2	↑	0	8	17	13	64
Newcastle	*0		0	1	3	11	21
York	*0		1	/	9	20	/
Preston	*0		0	1	30	33	30
Kirton	*0		0	5	15	67	70
Broom’s Barn (nr Bury St Edmunds)	*1	↑	0	1	5	19	44
Wellesbourne	*0		0	1	21	64	49
Hereford	*4	↑	2	8	33	115	103
Rothamsted (Harpenden)	*0		0	1	15	29	25
Writtle	*0		0	1	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	47

The potato aphid was recorded at three sites this week.

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		25/07-31/07		Accumulated until		31/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	0	1	/	3
Gogarbank (Edinburgh)	*0	↓	0	1	4	0	3
Newcastle	*0		0	1	0	3	8
York	*0		1	/	53	91	/
Preston	*0		0	2	82	10	22
Kirton	*2	↓	12	4	83	1370	181
Broom's Barn (nr Bury St Edmunds)	*0	↓	1	11	34	374	138
Wellesbourne	*1	↓	10	10	1354	3666	945
Hereford	*1	↓	28	14	1104	1201	227
Rothamsted (Harpenden)	*0		2	9	8	154	85
Writtle	*0	↓	0	25	49	459	263
Silwood Park (nr Ascot)	*0	↓	0	0	9	150	78
Wye	*0	↓	0	5	21	303	138
Starcross (nr Exeter)	*5	↑	4	27	18	221	246

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

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		25/07-31/07		Accumulated until		31/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	4	178	/	82
Gogarbank (Edinburgh)	*0	↓	0	2	156	230	104
Newcastle	*0		2	2	72	113	106
York	*5	↑	7	/	488	459	/
Preston	*0	↓	0	1	1158	584	583
Kirton	*1	↑	1	3	685	2210	772
Broom's Barn (nr Bury St Edmunds)	*1	↑	1	2	453	1955	857
Wellesbourne	*1	↓	0	0	450	1333	584
Hereford	*2	↑	3	1	155	402	424
Rothamsted (Harpenden)	*0	↓	1	1	250	1345	499
Writtle	*1	↑	1	0	492	2119	993
Silwood Park (nr Ascot)	*0	↓	0	0	103	742	323
Wye	*0		0	0	205	982	464
Starcross (nr Exeter)	*0		2	1	144	344	182

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

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		25/07-31/07		Accumulated until		31/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0	↓	/	25	14	/	110
Gogarbank (Edinburgh)	*0	↓	1	9	5	18	45
Newcastle	*0	↓	1	10	14	6	49
York	*0	↓	2	/	16	31	/
Preston	*0		0	5	7	12	48
Kirton	*28	↓	19	333	124	251	1222
Broom's Barn (nr Bury St Edmunds)	*42	↑	3	98	166	100	671
Wellesbourne	*7	↑	7	12	196	131	352
Hereford	*4	↑	3	5	106	46	144
Rothamsted (Harpenden)	*4	↓	6	69	128	127	453
Writtle	*14	↑	3	122	133	127	754
Silwood Park (nr Ascot)	*1	↓	2	6	50	60	128
Wye	*9	↑	14	30	54	117	313
Starcross (nr Exeter)	*1	↓	8	4	58	220	112

The pea aphid was caught at nine sites with highest numbers at Kirton (28) and Broom's Barn (42).

Black bean aphid (*Aphis fabae*)

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		25/07-31/07		Accumulated until		31/07
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	8	↑	/	21	14	/	54
Gogarbank (Edinburgh)	2	↓	3	21	8	8	35
Newcastle	2	↑	19	11	2	73	26
York	0		48	/	0	791	/
Preston	0		0	1	3	101	29
Kirton	0		27	19	7	1246	211
Broom's Barn (nr Bury St Edmunds)	1	↑	0	5	3	1407	291
Wellesbourne	2	↑	8	3	4	971	293
Hereford	1	↑	20	11	1	817	184
Rothamsted (Harpenden)	1	↑	25	9	7	897	382
Writtle	0		5	8	4	1672	356
Silwood Park (nr Ascot)	0		6	1	17	255	99
Wye	0		2	2	7	484	159
Starcross (nr Exeter)	9	↑	0	3	219	183	100

The black bean aphid was caught at eight sites in 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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