

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 – More stop/start weather as the weather pattern returned to warm and wet, resulting in a drop in aphid flight activity compared to the previous week's big highs. However, temperatures were 1°C above normal and hence aphid numbers already on the crop will be building, as will the number of natural enemies trying to keep them in check.

WINTER AND SPRING CEREALS

Numbers of the cereal aphids in the suction-traps were again relatively stable this week, but the accumulated numbers of the bird cherry–oat aphid remain above the 10yr mean for this stage in the year. Field reports indicate that cereal aphid numbers in the crop are below the threshold for control, and no reports of spraying have been received. The threshold is 66% of tillers infested from GS61 to two weeks before the end of grain filling. Most damage occurs when grain aphids colonise the ears between GS 61-73.

POTATOES

Numbers of the peach–potato aphid (*Myzus persicae*) are down, but remain high in the midlands (ST+YWT) and northern England (YWT). Virus pressure is very high in the midlands and northern England and moderate in most of Scotland, East Anglia and southwest England, principally due to the numbers of peach–potato aphids. The potato aphid (*Macrosiphum euphorbiae*) and the glasshouse and potato aphid (*Aulacorthum solani*) have been caught in low numbers in both ST and YWT.

Numbers of non-colonising vectors of PVY and PVA are also contributing to the overall virus pressure. These include the willow-carrot aphid and the leaf curling plum aphid in northern regions, the mealy cabbage aphid in the midlands and the bird cherry-oat aphid in parts of Scotland. Although relatively low at present, the other cereal aphids and the black bean aphid may also pose a threat 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

Peach–potato aphid and mealy cabbage aphid numbers in both ST and YWT are down, but remain high in the midlands and are thought to be moving away from maturing winter OSR. Field reports indicate mealy cabbage aphid numbers are below the threshold of >4% plants infested before petal fall in spring OSR.

FIELD BRASSICAS and LEAFY VEGETABLES

Peach–potato aphid and mealy cabbage aphid numbers in both ST and YWT are down, but remain high in the midlands. A single currant-lettuce aphid (*Nasonovia ribisnigri*) was caught at the Wellesbourne ST this week. Brassica growers thoughts will be dominated by the recent exceptionally high numbers of diamondback moths arriving in the UK and their resultant offspring see link :- <http://www.rothamsted.ac.uk/news-views/exceptionally-high-numbers-diamondback-moths-are-arriving-uk>

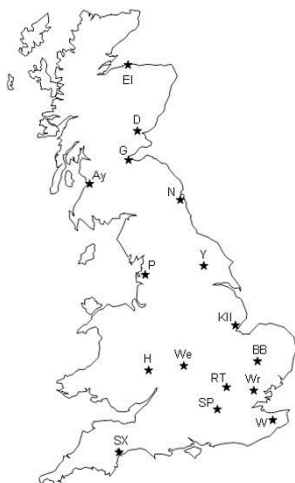
CARROTS and PARSNIPS

The willow–carrot aphid was caught at most sites this week, with numbers increasing in the North, but falling elsewhere. Numbers of parsnip aphids were down (*Cavariella pastinaceae* at Preston 22, Wellesbourne 2, York 12 and Wye 2) and (*Cavariella theobaldi* at Preston 6 and Starcross 1).

PEAS and BEANS

The pea aphid was caught at 11 ST sites this week, with highest numbers at Wellesbourne (28) and Kirton (24). Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested. The black bean aphid has been caught in YWT samples from all English regions, but, with the exception of a hotspot at Starcross, seems rather shy of the STs so far. The threshold for black bean aphid in field and broad beans is 10% colonisation at early flowering and 5% infested to prevent virus transmission.

SUCTION-TRAPPING RESULTS



The information below relates to suction-trap samples collected during **Bulletin Week 13: 13/6 – 19/6**.

- Numbers of the cereal aphids in the suction traps were relatively unchanged this week, with the exception of a bird cherry-oat aphid hotspot at Dundee (104).
- Numbers of the peach-potato aphid were down on last week's highs, but still with hotspots at Wellesbourne (278) and Kirton (107).
- The mealy cabbage aphid was caught at six sites this week, with a hotspot at Wellesbourne (108).
- The willow-carrot aphid was caught at all sites this week, with numbers increasing in the North, but generally falling elsewhere. There were hotspots at York (103) and Kirton (105).
- The pea aphid was caught at 11 sites this week, with highest numbers at Wellesbourne (28) and Kirton (24).
- Starcross continues as a very distinctive hotspot for black bean aphids, elsewhere it has been reluctant to visit our suction traps.
- A single currant-lettuce aphid (*Nasonovia ribisnigri*) was caught at Wellesbourne this week.
- Numbers of parsnip aphids were down (*Cavariella pastinaceae* at Preston 22, Wellesbourne 2, York 12 and Wye 2 plus *Cavariella theobaldi* at Preston 20 and Starcross 1).

'*' 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 13/06-19/06				Accumulated until 19/06		
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	10	↑	/	3	12	/	6
Gogarbank (Edinburgh)	5	↓	0	7	19	3	16
Newcastle	*5	↑	0	6	14	1	14
York	2	↓	7	/	27	8	/
Preston	2	↓	18	50	61	27	82
Kirton	2	↓	14	51	18	28	75
Broom's Barn (nr Bury St Edmunds)	3	↑	18	48	27	34	108
Wellesbourne	5	↓	9	35	47	20	60
Hereford	5	↓	27	29	35	36	60
Rothamsted (Harpenden)	3	↑	18	31	37	24	55
Writtle	0		16	36	42	26	74
Silwood Park (nr Ascot)	0		22	17	16	34	47
Wye	3	↑	7	9	7	11	15
Starcross (nr Exeter)	5	↑	105	90	52	183	191

The rose-grain aphid was caught at 12 sites in low numbers this bulletin week. There were small increases at six sites and the highest numbers were at Dundee, but generally numbers are below the 10-yr means.

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		13/06-19/06		Accumulated until		19/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	104	↑	/	22	126	/	40
Gogarbank (Edinburgh)	15	↑	4	7	25	4	28
Newcastle	*5	↑	0	44	14	1	75
York	4	↓	2	/	50	7	/
Preston	16	↑	5	12	54	9	32
Kirton	18	↓	10	101	175	20	231
Broom's Barn (nr Bury St Edmunds)	6	↓	3	42	256	13	182
Wellesbourne	14	↓	8	17	256	11	86
Hereford	8	↓	6	15	150	13	53
Rothamsted (Harpenden)	3	↓	1	13	183	13	66
Writtle	14	↓	0	21	415	19	99
Silwood Park (nr Ascot)	5	↓	2	10	133	19	121
Wye	3	↓	2	14	166	19	124
Starcross (nr Exeter)	20	↓	7	25	484	37	168

The bird cherry–oat aphid was caught at all sites this bulletin week. Numbers were down on last week at ten sites, but slightly up in the north with a hotspot at Dundee (104). Numbers are above the accumulated 10-yr means across much of England.

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		13/06-19/06		Accumulated until		19/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	7	↑	/	7	17	/	15
Gogarbank (Edinburgh)	6		0	3	16	1	10
Newcastle	*5	↑	0	2	13	1	13
York	4	↓	11	/	23	26	/
Preston	2	↓	2	7	16	5	27
Kirton	2	↑	0	5	11	1	14
Broom's Barn (nr Bury St Edmunds)	0	↓	0	6	22	3	15
Wellesbourne	4	↓	0	10	50	0	42
Hereford	7	↑	2	7	19	4	23
Rothamsted (Harpenden)	1	↓	0	5	18	4	13
Writtle	0	↓	4	8	21	10	17
Silwood Park (nr Ascot)	1	↓	1	20	19	5	39
Wye	1	↑	0	6	40	0	15
Starcross (nr Exeter)	6	↓	3	17	42	16	15

The grain aphid was caught in low numbers at 12 sites this week.

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		13/06-19/06		Accumulated until		19/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2	↑	/	1	3	/	2
Gogarbank (Edinburgh)	0		0	1	0	1	3
Newcastle	*4	↑	0	1	6	1	7
York	25	↓	25	/	196	28	/
Preston	42	↓	0	3	110	22	20
Kirton	107	↑	124	30	155	155	67
Broom’s Barn (nr Bury St Edmunds)	69	↓	406	100	356	621	315
Wellesbourne	278	↓	457	129	1611	687	316
Hereford	64	↓	144	20	456	250	65
Rothamsted (Harpenden)	36	↓	215	42	294	298	138
Writtle	42	↓	478	92	410	597	290
Silwood Park (nr Ascot)	1	↓	58	11	29	91	40
Wye	11	↓	214	40	54	275	123
Starcross (nr Exeter)	0	↓	25	12	43	73	62

The peach–potato aphid was caught at 12 sites this week, with numbers down on last week’s highs, but still with hotspots at Wellesbourne (278) and Kirton (107).

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		13/06-19/06		Accumulated until		19/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2		/	1	9	/	5
Gogarbank (Edinburgh)	3	↓	0	3	11	1	17
Newcastle	*0		0	1	1	1	9
York	0		3	/	5	4	/
Preston	2	↓	6	3	25	8	14
Kirton	1	↓	20	4	15	25	11
Broom’s Barn (nr Bury St Edmunds)	0	↓	2	2	4	11	10
Wellesbourne	9	↑	9	5	17	16	19
Hereford	6	↓	8	5	27	29	19
Rothamsted (Harpenden)	2	↓	5	3	15	9	10
Writtle	0	↓	22	7	16	34	23
Silwood Park (nr Ascot)	0	↓	6	3	14	25	14
Wye	0		2	3	2	6	9
Starcross (nr Exeter)	5	↑	4	6	8	19	30

The potato aphid was caught at eight sites in low numbers this bulletin week.

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		13/06-19/06		Accumulated until		19/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	0	0	/	0
Gogarbank (Edinburgh)	0		0	0	1	0	2
Newcastle	*0		0	1	0	0	5
York	1	↓	22	/	45	22	/
Preston	4	↓	0	0	77	2	13
Kirton	7	↓	23	4	75	56	26
Broom's Barn (nr Bury St Edmunds)	0	↓	12	3	32	24	21
Wellesbourne	108	↓	434	115	1339	633	231
Hereford	20	↓	81	16	1092	133	67
Rothamsted (Harpenden)	0	↓	2	1	8	11	11
Writtle	2	↓	98	14	44	121	89
Silwood Park (nr Ascot)	0	↓	4	3	7	8	21
Wye	0	↓	44	9	18	46	23
Starcross (nr Exeter)	0	↓	24	40	10	41	85

The mealy cabbage aphid was caught at six sites this week, with numbers down on last week's, but still with a hotspot at Wellesbourne (108).

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		13/06-19/06		Accumulated until		19/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	46	↑	/	4	160	/	63
Gogarbank (Edinburgh)	60	↑	37	13	135	174	72
Newcastle	*7	↑	28	18	11	59	68
York	103	↓	40	/	431	272	/
Preston	57	↓	128	49	1133	402	498
Kirton	105	↓	335	83	662	870	546
Broom's Barn (nr Bury St Edmunds)	49	↓	353	76	436	1409	731
Wellesbourne	48	↓	246	80	432	769	452
Hereford	33	↓	82	27	153	269	362
Rothamsted (Harpenden)	16	↓	233	50	234	1048	415
Writtle	17	↓	190	38	479	1846	902
Silwood Park (nr Ascot)	7	↓	179	38	100	669	302
Wye	19	↑	98	21	188	820	390
Starcross (nr Exeter)	6	↓	51	22	141	283	134

The willow-carrot aphid was caught at all sites this week, with numbers increasing in the north, but generally falling elsewhere. There were hotspots at York (103) and Kirton (105).

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		13/06-19/06		Accumulated until		19/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	0	0	/	1
Gogarbank (Edinburgh)	0	↓	0	1	1	0	5
Newcastle	*7	↑	0	1	7	0	3
York	2	↑	1	/	9	1	/
Preston	0		0	2	7	0	7
Kirton	24	↑	4	12	55	4	55
Broom's Barn (nr Bury St Edmunds)	7	↓	7	18	81	10	62
Wellesbourne	28	↓	3	13	184	10	56
Hereford	2	↓	4	6	99	5	28
Rothamsted (Harpenden)	8	↓	11	12	108	17	58
Writtle	14	↑	18	13	101	22	72
Silwood Park (nr Ascot)	4	↑	7	6	46	16	42
Wye	2	↓	13	7	29	35	48
Starcross (nr Exeter)	2	↓	0	15	31	21	45

The pea aphid was caught at 11 sites this week, with highest numbers at Wellesbourne (28) and Kirton (24).

Black bean aphid (*Aphis fabae*)

Black bean aphid (<i>Aphis fabae</i>)	Bulletin Week Totals		13/06-19/06		Accumulated until		19/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	0		/	1	2	/	3
Gogarbank (Edinburgh)	0	↓	0	0	3	0	2
Newcastle	*0		0	0	0	0	1
York	0		0	/	0	0	/
Preston	0		0	0	1	2	2
Kirton	5	↑	1	1	7	3	2
Broom's Barn (nr Bury St Edmunds)	0		21	7	1	52	15
Wellesbourne	2	↑	13	9	2	24	18
Hereford	0		7	13	0	16	20
Rothamsted (Harpenden)	0		11	13	3	44	23
Writtle	0		108	18	0	126	28
Silwood Park (nr Ascot)	1	↓	12	6	12	23	21
Wye	1	↑	8	4	1	18	12
Starcross (nr Exeter)	77		32	16	170	58	53

The black bean aphid was caught at five sites this week. Starcross continues as a very distinctive hotspot for this species at present.

Further information

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

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