



## 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](http://www.potato.org.uk/online-toolbox/aphid-monitoring).

**GENERAL** – Although the mean temperature has been 1°C above the average, sunshine hours across all parts of the UK are below average and the amount of precipitation in some locations is close to record-breaking. However, apart from eastern Scotland, the rest of Scotland and the north-west have experienced relatively low rainfall compared to the June average. Elsewhere in the UK, patchy, thundery downpours have caused disruption locally. Consequently, aphid flight activity remains relatively low for the month, although if crops have been colonised, populations will still increase along with the number of natural enemies.

### WINTER AND SPRING CEREALS

All three aphids colonising wheat and other cereals are low in number, except those of the bird cherry–oat aphid at Dundee (ST) and the Grampian region (YWT). 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 still low for this time of year and way below the 10-year mean, particularly in the south. In YWTs, higher numbers have been observed in the Midlands, Northern England and the Grampians. Virus pressure is falling back to normal levels or is even lower than expected for the time of year in most regions, except in Northern England where very high levels have been recorded (x3 times the average), caused by the peach–potato aphid. The potato aphid (*Macrosiphum euphorbiae*) and the glasshouse and potato aphid (*Aulacorthum solani*) are recorded in single figures in the STs and are unlikely to be a cause for concern.

Cereal aphid and black bean numbers remain low but may still pose a threat later on. Further regional information on potato virus vectors can be accessed here: [www.potato.org.uk/online-toolbox/aphid-monitoring](http://www.potato.org.uk/online-toolbox/aphid-monitoring).

### WINTER and SPRING OILSEED RAPE

Peach–potato aphid and mealy cabbage aphid numbers in STs are generally low but higher numbers of peach–potato aphids are being recorded in YWT in the North. Aphids are now unlikely to pose a threat but crop inspection may be necessary further north if infestations are suspected.

### FIELD BRASSICAS and LEAFY VEGETABLES

Peach–potato aphid and mealy cabbage aphid numbers are generally low in STs. Higher numbers peach-potato aphids were recorded in YWTs from East Anglia to the Grampians. A single currant-lettuce aphid (*Nasonovia ribisnigri*) was caught at the Kirton ST this week. Brassica growers need to remain vigilant to the additional threat of the diamond back moth caterpillars that have hatched as a result of the recent migration.

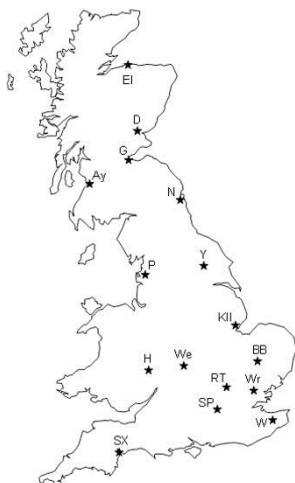
### CARROTS and PARSNIPS

Numbers of willow–carrot aphid fell throughout the network. In YWTs, willow-carrot aphid numbers are high in northern England and the Grampians. Numbers of parsnip aphids (*Cavariella pastinaceae*, *Cavariella theobaldi*) did not hit double figures anywhere in the network and are low.

### PEAS and BEANS

The pea aphid is on the decline at the majority of sites and numbers observed were generally small. Combining peas should be sprayed when around 20% of plants are infested and vining peas when 15% are infested. The black bean aphid was very low in number in our STs but, again, Starcross was the exception. 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 network samples collected during **Bulletin Week 14: 20/6 – 26/6**.

- Numbers of the cereal aphids in the suction-traps were low, with the exception of a bird cherry–oat aphid hotspot at Dundee (453).
- Numbers of the peach–potato aphid are increasing in the North but falling in the South.
- The mealy cabbage aphid is very low in number across the network.
- The willow–carrot aphid fell in number across the network, except at Newcastle.
- The pea aphid fell in number at many sites and only at Broom’s Barn did it hit double figures.
- Black bean aphids are generally low in number although Starcross still recorded reasonable numbers.
- A single currant-lettuce aphid (*Nasonovia ribisnigri*) was caught at Kirton this week.
- Numbers of parsnip aphids (*Cavariella pastinaceae*, *Cavariella theobaldi*) are very low.

\*’ 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		20/06-26/06		Accumulated until		26/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	27	↑	/	14	39	/	19
Gogarbank (Edinburgh)	6	↑	0	26	25	3	42
Newcastle	15	↑	5	13	29	6	27
York	0	↓	6	/	27	14	/
Preston	4	↑	20	164	65	47	247
Kirton	6	↑	46	144	24	74	219
Broom’s Barn (nr Bury St Edmunds)	2	↓	63	128	29	97	236
Wellesbourne	*11	↑	101	73	57	121	133
Hereford	0	↓	85	79	35	121	140
Rothamsted (Harpenden)	2	↓	80	55	39	104	110
Writtle	2	↑	36	66	44	62	140
Silwood Park (nr Ascot)	0		25	27	16	59	74
Wye	*7	↑	25	29	14	36	44
Starcross (nr Exeter)	2	↓	79	61	54	262	252

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 again 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		20/06-26/06		Accumulated until		26/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	453	↑	/	51	579	/	90
Gogarbank (Edinburgh)	42	↑	0	43	67	4	71
Newcastle	21	↑	3	51	35	4	126
York	8	↑	0	/	58	7	/
Preston	4	↓	0	17	58	9	49
Kirton	13	↓	22	99	188	42	330
Broom's Barn (nr Bury St Edmunds)	4	↓	8	69	260	21	251
Wellesbourne	*4	↓	12	17	260	23	103
Hereford	8		5	32	158	18	85
Rothamsted (Harpenden)	8	↑	2	41	191	15	107
Writtle	6	↓	20	91	421	39	190
Silwood Park (nr Ascot)	4	↓	1	7	137	20	128
Wye	*1	↓	0	7	167	19	131
Starcross (nr Exeter)	10	↓	2	29	494	39	196

The bird cherry–oat aphid was caught at all sites this bulletin week. Numbers tended to be down on last week's bulletin but the North saw rises with a hotspot at Dundee (453). Numbers are below 10-yr means across England.

**Grain aphid (*Sitobion avenae*)**

Grain aphid ( <i>Sitobion avenae</i> )	Bulletin Week Totals		20/06-26/06		Accumulated until		26/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	15	↑	/	9	32	/	24
Gogarbank (Edinburgh)	5	↓	0	7	21	1	17
Newcastle	13	↑	1	4	26	2	17
York	0	↓	33	/	23	59	/
Preston	5	↑	4	14	21	9	41
Kirton	1	↓	0	16	12	1	30
Broom's Barn (nr Bury St Edmunds)	0		5	26	22	8	41
Wellesbourne	*4	↓	14	32	53	14	74
Hereford	0	↓	18	30	19	22	53
Rothamsted (Harpenden)	0	↓	12	27	18	16	40
Writtle	0		2	57	21	12	74
Silwood Park (nr Ascot)	4	↑	7	9	23	12	48
Wye	*2	↑	6	10	42	6	25
Starcross (nr Exeter)	16	↑	8	44	58	24	25

The grain aphid was caught in low numbers at 9 sites this week.

**Peach–potato aphid (*Myzus persicae*)**

Peach–potato aphid ( <i>Myzus persicae</i> )	Bulletin Week Totals		20/06-26/06		Accumulated until		26/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	7	↑	/	0	10	/	3
Gogarbank (Edinburgh)	3	↑	0	1	3	1	4
Newcastle	12	↑	8	3	18	9	10
York	60	↑	75	/	256	103	/
Preston	0	↓	4	9	110	26	29
Kirton	22	↓	1355	175	177	1510	242
Broom's Barn (nr Bury St Edmunds)	10	↓	1025	170	366	1646	486
Wellesbourne	*39	↓	427	107	1649	1114	423
Hereford	10	↓	217	35	466	467	99
Rothamsted (Harpenden)	3	↓	471	74	297	769	212
Writtle	6	↓	690	118	416	1287	408
Silwood Park (nr Ascot)	0	↓	26	8	29	117	48
Wye	*5	↓	248	89	59	523	212
Starcross (nr Exeter)	0		14	17	43	87	79

The peach–potato aphid was recorded at all sites apart from Preston, Silwood and Starcross, but numbers were down south of York.

**Potato aphid (*Macrosiphum euphorbiae*)**

Potato aphid ( <i>Macrosiphum euphorbiae</i> )	Bulletin Week Totals		20/06-26/06		Accumulated until		26/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	4	↑	/	2	13	/	7
Gogarbank (Edinburgh)	3		3	4	14	4	20
Newcastle	0		7	2	1	8	10
York	4	↑	1	/	9	5	/
Preston	5	↑	14	4	30	22	18
Kirton	0	↓	10	4	15	35	15
Broom's Barn (nr Bury St Edmunds)	0		3	4	4	14	13
Wellesbourne	*4	↓	40	11	21	56	30
Hereford	2	↓	30	11	29	59	30
Rothamsted (Harpenden)	0	↓	4	4	15	13	14
Writtle	0		6	4	16	40	27
Silwood Park (nr Ascot)	0		7	2	14	32	17
Wye	*0		0	3	2	6	11
Starcross (nr Exeter)	0	↓	8	4	8	27	34

The potato aphid was caught at six sites in low numbers.

**Mealy Cabbage aphid (*Brevicoryne brassicae*)**

Cabbage aphid ( <i>Brevicoryne brassicae</i> )	Bulletin Week Totals		20/06-26/06		Accumulated until		26/06
	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)	1	↑	0	0	2	0	2
Newcastle	0		0	0	0	0	6
York	4	↑	9	/	49	31	/
Preston	4		2	1	81	4	13
Kirton	0	↓	374	39	75	430	65
Broom's Barn (nr Bury St Edmunds)	0		26	6	32	50	27
Wellesbourne	*7	↓	1155	256	1346	1788	487
Hereford	8	↓	160	19	1100	293	87
Rothamsted (Harpenden)	0		24	6	8	35	18
Writtle	0	↓	58	14	44	179	103
Silwood Park (nr Ascot)	0		13	8	7	21	30
Wye	*0		38	41	18	84	64
Starcross (nr Exeter)	0		44	38	10	85	123

The mealy cabbage aphid was either low in number or absent across the network.

**Willow-carrot aphid (*Cavariella aegopodii*)**

Willow-carrot aphid ( <i>Cavariella aegopodii</i> )	Bulletin Week Totals		20/06-26/06		Accumulated until		26/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	13	↓	/	2	173	/	65
Gogarbank (Edinburgh)	14	↓	26	12	149	200	85
Newcastle	39	↑	26	15	50	85	83
York	44	↓	67	/	475	339	/
Preston	16	↓	59	35	1149	461	534
Kirton	21	↓	890	129	683	1760	675
Broom's Barn (nr Bury St Edmunds)	10	↓	366	67	446	1775	797
Wellesbourne	*14	↓	435	95	446	1204	547
Hereford	0	↓	74	25	153	343	386
Rothamsted (Harpenden)	9	↓	244	48	243	1292	463
Writtle	10	↓	218	52	489	2064	954
Silwood Park (nr Ascot)	0	↓	61	14	100	730	315
Wye	*7	↓	130	55	195	950	444
Starcross (nr Exeter)	2	↓	32	16	143	315	151

The willow-carrot aphid numbers fell at all but one site. Numbers were larger in the north compared to the south.

**Pea aphid (*Acyrtosiphon pisum*)**

Pea aphid ( <i>Acyrtosiphon pisum</i> )	Bulletin Week Totals		20/06-26/06		Accumulated until		26/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	3	↑	/	0	3	/	4
Gogarbank (Edinburgh)	1	↑	1	2	2	1	12
Newcastle	4	↓	0	1	11	0	6
York	0	↓	12	/	9	13	/
Preston	0		0	3	7	0	31
Kirton	6	↓	61	36	61	65	147
Broom's Barn (nr Bury St Edmunds)	14	↑	6	23	95	16	127
Wellesbourne	*0	↓	14	25	184	24	131
Hereford	2		10	9	101	15	50
Rothamsted (Harpenden)	2	↓	8	21	110	25	117
Writtle	4	↓	2	27	105	24	180
Silwood Park (nr Ascot)	0	↓	6	10	46	22	57
Wye	*2	↑	9	30	31	44	70
Starcross (nr Exeter)	0	↓	4	7	31	25	53

The pea aphid was caught at 9 sites this week all in low numbers.

**Black bean aphid (*Aphis fabae*)**

Black bean aphid ( <i>Aphis fabae</i> )	Bulletin Week Totals		20/06-26/06		Accumulated until		26/06
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	1	↑	/	0	3	/	3
Gogarbank (Edinburgh)	0		0	0	3	0	2
Newcastle	0		0	0	0	0	1
York	0		13	/	0	13	/
Preston	0		0	2	1	2	4
Kirton	0	↓	104	14	7	107	16
Broom's Barn (nr Bury St Edmunds)	0		279	41	1	331	56
Wellesbourne	*0	↓	262	59	2	286	76
Hereford	0		32	8	0	48	28
Rothamsted (Harpenden)	2	↑	103	49	5	147	72
Writtle	2	↑	510	66	2	636	94
Silwood Park (nr Ascot)	2	↑	46	11	14	69	31
Wye	*1	↑	85	20	2	103	31
Starcross (nr Exeter)	28	↓	20	5	198	78	58

The black bean aphid continues to do well at Starcross, but elsewhere this aphid was uncommon.

## Further information

Please send information on crop aphids to: [mark-s.taylor@rothamsted.ac.uk](mailto:mark-s.taylor@rothamsted.ac.uk)

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