



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 – The weather is only slowly warming but there was still plenty of aphid flight activity in between showers. Numbers will increase rapidly if things really start to warm up. The diversity of species in the traps continues to increase with many tree aphids now migrating.

WINTER AND SPRING CEREALS

Numbers of the bird cherry–oat aphid were above the 10yr mean for this early stage in the year. Field reports indicate low to moderate numbers of cereal aphids in many crops in eastern England. **Monitoring crops is advised** and the threshold for control against direct feeding damage is 50% of tillers infested before GS61 increasing to 66% of tillers infested from GS61 to two weeks before the end of grain filling. BYDV problems in spring-sown cereals arise generally from primary infection through large numbers of flying aphids, not through secondary spread via their offspring.

There remains a potential BYDV threat to backward spring barley until they reach GS31, which typical spring crops are now approaching. Winter wheat is now past the stage when further BYDV infection is likely to be a problem.

POTATOES

Peach–potato aphids (*Myzus persicae*) have been caught throughout central, eastern and southern England, but not yet in Scotland. Virus pressure is high for this time of year in the north of Scotland, East Anglia and the South East.

The potato aphid (*Macrosiphum euphorbiae*) and the glasshouse and potato aphid (*Aulacorthum solani*) have been caught in low numbers in both ST and YWT.

Various other vectors of PVY and PVA are flying, for example willow–carrot aphid (*Cavariella aegopodii*), the leaf-curling plum aphid (*Brachycaudus helichrysi*), the black bean aphid (*Aphis fabae*), the mealy cabbage aphid (*Brevicoryne brassicae*) and all three cereal aphids. These are non-colonisers but can pose a threat as virus vectors through sheer weight of numbers on young plants. 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 aphids are now flying and many will have made it through the winter on the crop. The threshold for mealy cabbage aphid control is >13% plants infested before petal fall in winter OSR and >4% plants infested before petal fall in spring OSR.

FIELD BRASSICAS and LEAFY VEGETABLES

Low numbers of peach–potato aphid are flying in central and southern England. Mealy cabbage aphid has overwintered on some oilseed rape crops and is now flying in low numbers. A single currant-lettuce aphid (*Nasonovia ribisnigri*) was caught in the Hereford suction-trap this week.

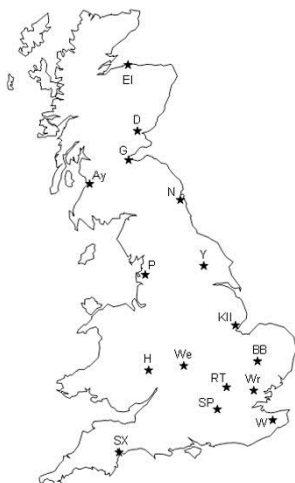
CARROTS

The willow–carrot aphid is flying throughout England, with numbers increasing at most suction-trap sites and highest numbers in eastern England.

PEAS and BEANS

Field reports of large numbers of pea aphids in pulse crops are only likely to increase once the temperatures reach >18°C. Many pulse crops were drilled late and are behind in terms of growth, so viruses will have a bigger potential impact this year. The pea aphid was caught at nine suction-trap sites this week, increasing at five sites with hotspots at Writtle (41), Broom's Barn (24) and Wellesbourne (19).

SUCTION-TRAPPING RESULTS



The information below relates to suction-trap samples collected during **Bulletin Week 9: 16/5 – 22/5**.

- Numbers of the bird cherry–oat aphid were above the 10yr mean for this bulletin week. Numbers of the grain aphid and the rose–grain aphid were about normal.
- The peach–potato aphid was caught at nine sites this week, with hotspots at Writtle (58) and Broom’s Barn (36).
- The pea aphid was caught at nine sites this week, including a first arrival York (18/5) and hotspots at Writtle (41), Broom’s Barn (24) and Wellesbourne (19).
- The willow–carrot aphid was caught at all sites this week, with hotspots at Kirton (137), Broom's Barn (97) and Writtle (81).
- The mealy cabbage aphid was caught at five sites this week, with hotspots at Kirton (35) and Wellesbourne (24).
- Single black bean aphids were caught at four sites this week.
- A single currant-lettuce aphid (*Nasonovia ribisnigri*) was caught in the Hereford suction-trap this week.
- Sycamore aphids are beginning to dominate our current suction-trap samples.

*' 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		16/05-22/05		Accumulated until		22/05
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*0		/	1	0	/	1
Gogarbank (Edinburgh)	0		0	0	0	0	1
Newcastle	3	↑	0	1	3	0	2
York	*2	↑	0	/	2	1	/
Preston	2	↑	0	2	3	0	5
Kirton	8	↑	1	1	11	3	4
Broom’s Barn (nr Bury St Edmunds)	*1	↓	1	2	11	1	5
Wellesbourne	7	↑	0	1	14	1	3
Hereford	5		0	2	12	0	3
Rothamsted (Harpenden)	8	↑	1	1	15	1	3
Writtle	14	↑	3	1	28	3	4
Silwood Park (nr Ascot)	3	↓	0	2	11	2	5
Wye	1	↓	1	1	4	2	2
Starcross (nr Exeter)	*0	↓	4	4	41	11	13

The rose–grain aphid was caught at 11 sites this bulletin week, including first arrivals at Newcastle (21/5) and York (18/5). There were small increases at seven sites with a small hotspot at Writtle (14) this week.

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		16/05-22/05		Accumulated until		22/05
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*4	↓	/	1	8	/	2
Gogarbank (Edinburgh)	2	↑	0	2	3	0	3
Newcastle	0	↓	0	3	5	0	6
York	*11	↑	1	/	12	2	/
Preston	6	↑	0	4	9	0	10
Kirton	54	↑	1	10	83	5	25
Broom's Barn (nr Bury St Edmunds)	*35	↓	1	9	176	1	20
Wellesbourne	47	↑	1	10	72	1	20
Hereford	16	↓	0	5	47	1	11
Rothamsted (Harpenden)	23	↓	1	7	88	3	16
Writtle	104	↑	2	8	222	4	30
Silwood Park (nr Ascot)	2	↓	0	6	102	2	31
Wye	32	↓	3	31	143	7	40
Starcross (nr Exeter)	*9	↓	0	16	297	6	75

The bird cherry–oat aphid was caught at 13 sites this bulletin week, with a hotspot at Writtle (104).

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		16/05-22/05		Accumulated until		22/05
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*4	↑	/	0	5	/	1
Gogarbank (Edinburgh)	0		0	1	0	0	1
Newcastle	1	↓	0	3	5	0	4
York	*2	↑	0	/	4	1	/
Preston	0		0	1	0	0	2
Kirton	2		0	1	7	0	3
Broom's Barn (nr Bury St Edmunds)	*1	↓	0	0	14	0	2
Wellesbourne	3	↓	0	6	23	0	14
Hereford	0	↓	1	2	8	2	4
Rothamsted (Harpenden)	6	↑	0	1	14	0	2
Writtle	7		0	1	18	2	3
Silwood Park (nr Ascot)	2	↓	0	1	12	0	6
Wye	5	↓	0	1	33	0	3
Starcross (nr Exeter)	*0	↓	0	2	24	3	3

The grain aphid was caught in low numbers at 10 sites this week.

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		16/05-22/05		Accumulated until		22/05
	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	0	0	0
Newcastle	0		0	1	0	0	1
York	*7	↑	0	/	8	0	/
Preston	0		0	0	0	0	1
Kirton	16	↑	0	3	23	1	8
Broom’s Barn (nr Bury St Edmunds)	*36	↑	8	48	46	11	71
Wellesbourne	8	↑	2	16	13	2	50
Hereford	1	↓	2	5	10	3	8
Rothamsted (Harpenden)	11	↑	0	14	26	2	28
Writtle	58	↑	3	23	98	7	50
Silwood Park (nr Ascot)	4	↑	1	4	8	4	8
Wye	1	↓	3	19	8	4	25
Starcross (nr Exeter)	*0	↓	1	9	31	6	24

The peach–potato aphid was caught at nine sites this week, with hotspots at Writtle (58) and Broom’s Barn (36).

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		16/05-22/05		Accumulated until		22/05
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*0		/	1	0	/	1
Gogarbank (Edinburgh)	0		0	0	0	0	2
Newcastle	0		0	2	0	0	3
York	*2	↑	0	/	3	0	/
Preston	7	↑	0	0	8	1	1
Kirton	4	↑	0	1	4	2	3
Broom’s Barn (nr Bury St Edmunds)	*0		1	1	0	3	4
Wellesbourne	1	↑	0	2	2	0	6
Hereford	0		1	1	0	1	3
Rothamsted (Harpenden)	0	↓	1	2	4	2	3
Writtle	4		2	2	10	4	6
Silwood Park (nr Ascot)	1		1	1	2	3	6
Wye	0	↓	0	1	2	0	2
Starcross (nr Exeter)	*0	↓	0	2	2	3	10

The potato aphid was caught at six sites in low numbers this bulletin week, including a first arrival at Kirton (16/5).

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		16/05-22/05		Accumulated until		22/05
	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	0	0	0
Newcastle	0		0	0	0	0	0
York	*0		0	/	0	0	/
Preston	0		0	1	0	0	2
Kirton	35	↑	0	3	36	0	4
Broom's Barn (nr Bury St Edmunds)	*0	↓	0	3	1	0	7
Wellesbourne	24	↑	2	14	25	2	26
Hereford	2	↓	3	7	5	3	10
Rothamsted (Harpenden)	1	↑	0	2	1	0	4
Writtle	6	↑	0	10	9	1	16
Silwood Park (nr Ascot)	0		0	5	0	0	7
Wye	0	↓	0	2	12	0	2
Starcross (nr Exeter)	*0	↓	3	4	3	3	18

The mealy cabbage aphid was caught at five sites this week, including a first arrival at Rothamsted (20/5) and hotspots at Kirton (35) and Wellesbourne (24).

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		16/05-22/05		Accumulated until		22/05
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	*4	↑	/	6	6	/	7
Gogarbank (Edinburgh)	1	↑	2	1	1	3	3
Newcastle	1	↑	0	5	1	0	6
York	*37	↑	12	/	40	17	/
Preston	56	↑	0	66	59	2	106
Kirton	137	↑	48	132	211	90	207
Broom's Barn (nr Bury St Edmunds)	*97	↑	170	141	128	204	212
Wellesbourne	43	↑	48	31	52	81	51
Hereford	8	↑	33	46	14	41	58
Rothamsted (Harpenden)	14	↑	64	66	40	111	94
Writtle	81	↑	296	130	127	403	223
Silwood Park (nr Ascot)	4	↓	73	41	21	157	123
Wye	30	↓	135	57	94	155	83
Starcross (nr Exeter)	*30	↓	33	13	84	54	36

The willow-carrot aphid was caught at all sites this week, with hotspots at Kirton (137), Broom's Barn (97) and Writtle (81) and a first arrival at Newcastle (21/5).

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		16/05-22/05		Accumulated until		22/05
	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	0	0	0
Newcastle	0		0	0	0	0	0
York	*4	↑	0	/	4	0	/
Preston	0		0	0	1	0	1
Kirton	6	↑	0	1	7	0	3
Broom's Barn (nr Bury St Edmunds)	*24	↑	0	1	28	0	5
Wellesbourne	19	↑	2	2	34	2	7
Hereford	1	↓	0	1	34	0	4
Rothamsted (Harpenden)	8	↓	0	3	35	0	8
Writtle	41	↑	0	2	50	2	9
Silwood Park (nr Ascot)	6	↓	0	2	20	1	6
Wye	2	↓	3	3	14	3	4
Starcross (nr Exeter)	*0	↓	0	3	15	2	10

The pea aphid was caught at nine sites this week, including a first arrival at York (18/5) and hotspots at Writtle (41), Broom's Barn (24) and Wellesbourne (19).

Black bean aphid (*Aphis fabae*)

Black bean aphid	FIRST ARRIVALS		
	2016	2015	2006-15
D = Dundee	0	26/6	2/6
G = Edinburgh	0	1/7	1/6
N = Newcastle	0	30/6	29/6
Y = York	0	20/6	N/A
P = Preston	18/5	4/6	7/6
K = Kirton	15/5	3/6	13/6
BB = Bury St Edmunds	17/5	11/5	21/5
We = Wellesbourne	0	21/5	2/6
H = Hereford	0	16/5	29/5
RT = Harpenden	0	13/5	3/6
WR = Writtle	0	8/5	20/5
SP = nr Ascot	0	8/5	20/5
W = Wye	0	13/5	3/6
SX = nr Exeter	3/5	21/5	21/5

Single black bean aphids were caught at four sites this week, including first arrivals at Preston (18/5) and Broom's Barn (17/5).

Further information

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

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