

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 was somewhat wet and windy last week and on average some 3 °C cooler than the previous week, resulting in less aphids being caught in the traps. However, there was a noticeable increase in the range of species dropping into the traps, and those which are already in crops will be multiplying as conditions improve.

WINTER CEREALS

Numbers of all three cereal aphids are above normal for this early stage in the year. The growing season has been noticeably stop-start this year with many cereal crops exhibiting very variable growth even within field. Winter wheat is typically at GS 37-39 and winter barley GS 39-49 and both are now past the stage when further BYDV infection is likely to be a problem.

SPRING CEREALS

Numbers of all three cereal aphids are above normal for this early stage in the year. 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 is a potential BYDV threat to backward spring barley if conditions allow above average migrations to continue and crop inspection is highly recommended until crops reach GS31.** Beyond this growth stage insecticide is only required in winter and spring cereals to prevent direct feeding damage when aphid numbers are increasing and there are more than 50% of tillers infested before GS61.

POTATOES

Early peach-potato aphids (*Myzus persicae*) have been caught throughout eastern and southern England, but not yet in Scotland. Virus pressure is high for the time of year in East Anglia and the south east.

The potato aphid (*Macrosiphum euphorbiae*) has been caught in low numbers as far north as Ayr.

Various other vectors of PVY and PVA are flying, for example willow-carrot aphid (*Cavariella aegopodii*), the black bean aphid (*Aphis fabae*), the mealy cabbage aphid (*Brevicoryne brassicae*) and all three cereal aphids. 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 is >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. The first currant-lettuce aphids (*Nasonovia ribisnigri*) have been caught in the Hereford and Wye suction-traps this week.

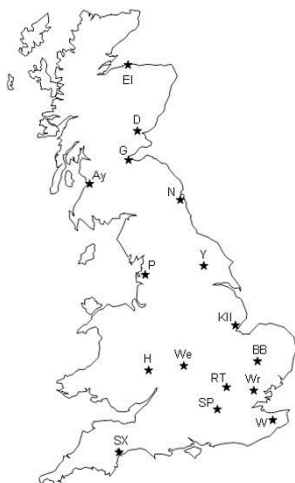
CARROTS

The willow-carrot aphid is flying throughout England, with numbers highest in eastern England and the south west. YWT catches are also picking up the peach-potato aphids in some Yorkshire carrot fields.

PEAS and BEANS

Field reports of aphids in peas and beans in relatively high numbers have been received with many peas and spring beans still at early crop growth stages. Both pea aphid and black bean aphid are present, and while both are virus vectors, the pea aphid is the primary vector for most viruses in both peas and beans. Viruses are often transmitted into crops by low numbers of aphids prior to flowering. **The risk for this may be high in 2016.** The pea aphid was caught at eight ST sites this week, increasing at six sites with hotspots at Hereford (21) and Rothamsted (21).

SUCTION-TRAPPING RESULTS



The information below relates to suction-trap samples collected during **Bulletin Week 8: 9/5 – 15/5**.

- Numbers of all three cereal aphids are above average for this time of year. Numbers of the bird cherry–oat aphid numbers fell slightly from the previous week but both the grain aphid and the rose–grain aphid increased.
- The peach–potato aphid was caught at ten sites this week, including a first arrival York (15/5), and hotspots at Writtle (27) and Starcross (23).
- The pea aphid was caught at eight sites this week, increasing at six sites with hotspots at Hereford (21) and Rothamsted (21).
- The willow–carrot aphid was caught at 11 sites this week, with highest numbers in southern and eastern England.
- The mealy cabbage aphid has started flying and was caught in low numbers at seven sites this week.
- Six black bean aphids were caught at Starcross this week, and also a first arrival at Kirton (15/5).
- The first currant-lettuce aphids (*Nasonovia ribisnigri*) have been caught in the Hereford and Wye suction-traps this week.
- Sycamore aphids are beginning to dominate our current suction-trap samples.

Rose–grain aphid (*Metopolophium dirhodum*)

Rose–grain aphid (<i>Metopolophium dirhodum</i>)	Bulletin Week Totals		09/05-15/05		Accumulated until		15/05
	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	1
Newcastle	0		0	1	0	0	1
York	0		0	/	0	1	/
Preston	1	↑	0	1	1	0	3
Kirton	2	↑	0	2	3	2	3
Broom’s Barn (nr Bury St Edmunds)	6	↑	0	1	10	0	3
Wellesbourne	1		1	0	7	1	2
Hereford	5	↑	0	0	7	0	1
Rothamsted (Harpenden)	2	↓	0	0	7	0	1
Writtle	5	↑	0	2	14	0	3
Silwood Park (nr Ascot)	7	↑	0	1	8	2	4
Wye	3	↑	0	0	3	1	1
Starcross (nr Exeter)	36	↑	6	3	41	7	9

The rose–grain aphid was caught at ten sites this bulletin week, including a first arrival at Preston (11/5). There was a hotspot at Starcross (36) this week.

Bird cherry–oat aphid (*Rhopalosiphum padi*)

Bird cherry–oat aphid (<i>Rhopalosiphum padi</i>)	Bulletin Week Totals		09/05-15/05		Accumulated until		15/05
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	4	↑	/	1	4	/	1
Gogarbank (Edinburgh)	0	↓	0	1	1	0	2
Newcastle	1	↓	0	2	5	0	3
York	0	↓	0	/	1	1	/
Preston	1	↓	0	2	3	0	6
Kirton	8	↓	2	8	29	4	15
Broom's Barn (nr Bury St Edmunds)	88	↑	0	2	141	0	11
Wellesbourne	11	↑	0	5	25	0	11
Hereford	21	↑	0	2	31	1	6
Rothamsted (Harpenden)	29	↓	0	4	65	2	10
Writtle	57	↑	1	13	118	2	22
Silwood Park (nr Ascot)	38	↓	2	11	100	2	25
Wye	52	↓	0	4	111	4	9
Starcross (nr Exeter)	67	↓	4	12	288	6	60

The bird cherry–oat aphid was caught at 12 sites this bulletin week, with hotspots at Broom's Barn (88) and Starcross (67).

Grain aphid (*Sitobion avenae*)

Grain aphid (<i>Sitobion avenae</i>)	Bulletin Week Totals		09/05-15/05		Accumulated until		15/05
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	1	↑	/	1	1	/	1
Gogarbank (Edinburgh)	0		0	0	0	0	0
Newcastle	4	↑	0	1	4	0	2
York	1		1	/	2	1	/
Preston	0		0	1	0	0	2
Kirton	2	↓	0	1	5	0	1
Broom's Barn (nr Bury St Edmunds)	5	↓	0	1	13	0	2
Wellesbourne	9	↑	0	5	20	0	8
Hereford	5	↑	1	1	8	1	2
Rothamsted (Harpenden)	2	↓	0	0	8	0	1
Writtle	7	↑	0	1	11	2	3
Silwood Park (nr Ascot)	7	↑	0	2	10	0	5
Wye	14	↑	0	1	28	0	2
Starcross (nr Exeter)	13	↑	1	2	24	3	2

The grain aphid was caught at 12 sites this week, including a first arrival at Newcastle (10/5).

Peach–potato aphid (*Myzus persicae*)

Peach–potato aphid (<i>Myzus persicae</i>)	Bulletin Week Totals		09/05-15/05		Accumulated until		15/05
	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	1	↑	0	/	1	0	/
Preston	0		0	0	0	0	1
Kirton	1	↓	0	3	7	1	4
Broom’s Barn (nr Bury St Edmunds)	6	↑	1	12	10	3	22
Wellesbourne	5	↑	0	21	5	0	34
Hereford	5	↑	0	1	9	1	3
Rothamsted (Harpenden)	9	↑	1	8	15	2	14
Writtle	27	↑	4	10	40	4	28
Silwood Park (nr Ascot)	1		3	2	4	3	5
Wye	2	↓	1	3	7	1	6
Starcross (nr Exeter)	23	↑	5	2	31	5	15

The peach–potato aphid was caught at ten sites this week, including a first arrival York (15/5), and hotspots at Writtle (27) and Starcross (23).

Potato aphid (*Macrosiphum euphorbiae*)

Potato aphid (<i>Macrosiphum euphorbiae</i>)	Bulletin Week Totals		09/05-15/05		Accumulated until		15/05
	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	1	0	0	1
Newcastle	0		0	1	0	0	1
York	1	↑	0	/	1	0	/
Preston	1	↑	1	0	1	1	1
Kirton	0		0	1	0	2	2
Broom’s Barn (nr Bury St Edmunds)	0		1	2	0	2	3
Wellesbourne	0	↓	0	4	1	0	4
Hereford	0		0	1	0	0	2
Rothamsted (Harpenden)	1	↓	1	1	4	1	2
Writtle	4	↑	1	2	6	2	4
Silwood Park (nr Ascot)	1	↑	0	3	1	2	5
Wye	2	↑	0	1	2	0	1
Starcross (nr Exeter)	2	↑	2	2	2	3	8

The potato aphid was caught at seven sites in low numbers this bulletin week, including first arrivals at York (5/5), Preston (10/5), Silwood (9/5), Wye (9/5) and Starcross (9/5).

Mealy Cabbage aphid (*Brevicoryne brassicae*)

Cabbage aphid (<i>Brevicoryne brassicae</i>)	Bulletin Week Totals		09/05-15/05		Accumulated until		15/05
	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	1
Kirton	1	↑	0	1	1	0	1
Broom's Barn (nr Bury St Edmunds)	1	↑	0	1	1	0	4
Wellesbourne	1	↑	0	5	1	0	13
Hereford	3	↑	0	1	3	0	3
Rothamsted (Harpenden)	0		0	1	0	0	2
Writtle	3	↑	1	3	3	1	6
Silwood Park (nr Ascot)	0		0	1	0	0	2
Wye	8	↑	0	0	12	0	1
Starcross (nr Exeter)	3	↑	0	4	3	0	14

The mealy cabbage aphid was caught in low numbers at seven sites this week, six of which were first arrivals (Kirton 9/5, Broom's Barn 14/5, Wellesbourne 14/5, Hereford 13/5, Writtle 11/5 and Starcross 12/5).

Willow-carrot aphid (*Cavariella aegopodii*)

Willow-carrot aphid (<i>Cavariella aegopodii</i>)	Bulletin Week Totals		09/05-15/05		Accumulated until		15/05
	2016	Compared to last Bulletin week	2015	10-year average 2006-15	2016	2015	10-year average 2006-15
Dundee	2	↑	/	1	2	/	1
Gogarbank (Edinburgh)	0		0	0	0	1	1
Newcastle	0		0	0	0	0	1
York	0	↓	4	/	3	5	/
Preston	2	↑	1	20	3	2	40
Kirton	33	↓	28	59	74	42	75
Broom's Barn (nr Bury St Edmunds)	22	↑	19	46	31	34	70
Wellesbourne	4	↓	25	12	9	33	20
Hereford	1	↓	8	10	6	8	12
Rothamsted (Harpenden)	12	↓	39	20	26	47	28
Writtle	32	↑	100	73	46	107	93
Silwood Park (nr Ascot)	13	↑	71	65	17	84	81
Wye	51	↑	16	17	64	20	26
Starcross (nr Exeter)	42	↑	20	13	54	21	22

The willow-carrot aphid was caught at 11 sites this week, with highest numbers in southern and eastern England.

Pea aphid (*Acyrtosiphon pisum*)

Pea aphid (<i>Acyrtosiphon pisum</i>)	Bulletin Week Totals		09/05-15/05		Accumulated until		15/05
	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	0	1	0	1
Kirton	0	↓	0	1	1	0	2
Broom's Barn (nr Bury St Edmunds)	2		0	1	4	0	2
Wellesbourne	6	↓	0	1	15	0	4
Hereford	21	↑	0	1	33	0	2
Rothamsted (Harpenden)	21	↑	0	0	27	0	4
Writtle	9	↑	0	1	9	2	4
Silwood Park (nr Ascot)	11	↑	1	1	14	1	4
Wye	9	↑	0	0	12	0	3
Starcross (nr Exeter)	15	↑	2	2	15	2	7

The pea aphid was caught at eight sites this week, including first arrivals at Writtle (10/5) and Starcross (10/5) and hotspots at Hereford (21) and Rothamsted (21).

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	0	4/6	7/6
K = Kirton	15/5	3/6	13/6
BB = Bury St Edmunds	0	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

Six black bean aphids were caught at Starcross this week, and also a first arrival at Kirton (15/5).

Further information

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

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