

Late aphid flights

There was a good deal of late aphid flight activity during Bulletin week 14: 22-28/7, but overall numbers are low compared with previous years. Aphids are leaving maturing plants and many crops are now beyond the point where damage is likely. It has not been possible to identify all the aphids this week so priority has been given to sites where insecticide resistance testing is especially important.

The tables below show current and accumulated numbers for species of importance to field vegetables and sugar beet with comparisons to previous years. A '/' indicates that identifications have not been completed and a '*' where totals are corrected to seven days.

Cabbage aphid – *Brevicoryne brassicae*

Current totals			Cabbage aphid	Compared to last week	Accumulated up to 28/07		
2013	2012	03-12			2013	2012	03-12
0	0	3	Dundee		0	0	9
0	0	1	Gogarbank (Edinburgh)		0	1	5
/	0	1	Newcastle		0	0	12
/	0	4	Preston		0	2	35
*7	0	4	Kirton	↑	7	4	109
35	0	12	Broom's Barn (nr Bury St Edmunds)	↑	49	44	303
/	/	/	Wellesbourne		0	/	/
31	0	9	Hereford	↑	44	114	229
40	1	8	Rothamsted (Harpenden)	↑	62	26	270
95	0	27	Writtle	↑	227	31	668
/	/	2	Silwood Park (nr Ascot)		0	/	66
/	/	8	Wye		0	/	143
/	0	14	Starcross (nr Exeter)		41	114	233

The cabbage aphid was caught at five sites this week, with numbers increasing and above the ten year means with a hotspot at Writtle (95). Accumulated numbers are well below the ten year means.

Willow-carrot aphid – *Cavariella aegopodii*

Current totals 22-28/07			Willow-carrot aphid	Compared to last week	Accumulated up to 28/07		
2013	2012	03-12			2013	2012	03-12
18	2	4	Dundee	↑	49	41	70
5	2	1	Gogarbank (Edinburgh)	↑	11	167	94
/	0	2	Newcastle		3	241	111
/	3	2	Preston		316	408	474
*11	3	2	Kirton	↓	172	227	622
4	1	1	Broom's Barn (nr Bury St Edmunds)	↓	720	1091	800
/	/	/	Wellesbourne		498	/	/
5	2	1	Hereford	↓	483	691	355
0	1	1	Rothamsted (Harpenden)	↓	265	778	426
2	1	1	Writtle	↓	386	2316	919
/	/	0	Silwood Park (nr Ascot)		117	/	217
/	/	1	Wye		49	/	345
/	0	1	Starcross (nr Exeter)		715	121	117

The willow-carrot aphid was caught at six sites with numbers decreasing in England, but increasing in Scotland. Current numbers are above the ten year mean for this week because of the lateness of the season. Accumulated numbers at Hereford and Starcross are above the accumulated ten year means.

Currant-lettuce aphid – *Nasonovia ribisnigri*

Current totals 22-28/07			Currant-lettuce aphid	Compared to last week	Accumulated up to 28/07		
2013	2012	03-12			2013	2012	03-12
0	0	1	Dundee		0	1	3
2	0	0	Gogarbank (Edinburgh)	↑	2	2	1
/	0	0	Newcastle		0	0	1
/	0	0	Preston		0	2	4
0	0	0	Kirton		0	1	2
1	0	0	Broom's Barn (nr Bury St Edmunds)	↓	13	0	1
/	/	/	Wellesbourne		6	/	/
1	0	1	Hereford	↑	4	1	9
2	0	0	Rothamsted (Harpenden)		8	2	6
0	0	0	Writtle		4	1	2
/	/	1	Silwood Park (nr Ascot)		0	/	3
/	/	0	Wye		0	/	2
/	0	0	Starcross (nr Exeter)		12	0	5

The currant-lettuce aphid was caught at four sites this week. Accumulated numbers are high at Broom's Barn and Starcross.

Potato aphid – *Macrosiphum euphorbiae*

Current totals 22-28/07			Potato aphid	Compared to last week	Accumulated up to 28/07		
2013	2012	03-12			2013	2012	03-12
52	1	22	Dundee	↑	84	13	76
61	0	7	Gogarbank (Edinburgh)	↑	95	34	79
/	0	1	Newcastle		12	26	24
/	1	2	Preston		31	27	36
*33	1	6	Kirton	↑	59	27	80
4	1	2	Broom's Barn (nr Bury St Edmunds)	↓	35	8	58
/	/	/	Wellesbourne		20	/	/
10	3	12	Hereford	↓	50	16	103
1	0	1	Rothamsted (Harpenden)	↓	18	4	29
4	0	2	Writtle	↑	36	5	54
/	/	0	Silwood Park (nr Ascot)		1	/	17
/	/	0	Wye		0	/	20
/	0	1	Starcross (nr Exeter)		44	17	49

Potato aphids were caught at seven sites this week, with numbers increasing at four sites. Both the current and accumulated totals are high in Scotland compared to the ten year means.

Peach-potato aphid – *Myzus persicae*

Current totals 22-28/07			Peach-potato aphid	Compared to last week	Accumulated up to 28/07		
2013	2012	03-12			2013	2012	03-12
1	2	259	Dundee		5	23	1263
1	0	1	Gogarbank (Edinburgh)		2	9	14
/	3	2	Newcastle		0	14	23
/	1	2	Preston		3	186	118
*268	4	23	Kirton	↑	291	326	466
283	2	18	Broom's Barn (nr Bury St Edmunds)	↑	523	536	711
/	/	/	Wellesbourne		0	/	/
25	46	13	Hereford	↑	47	219	145
103	3	9	Rothamsted (Harpenden)	↓	762	235	359
73	10	27	Writtle	↓	404	265	730
/	/	0	Silwood Park (nr Ascot)		0	/	55
/	/	4	Wye		11	/	220
/	4	0	Starcross (nr Exeter)		59	128	85

The peach-potato aphid was caught at seven sites this week, with numbers increasing at three sites and with hotspots at Kirton (268), Broom's Barn (283) and Rothamsted (103). Numbers are above the ten year mean for this week in England but remain low in Scotland. Accumulated numbers at Rothamsted are above the ten year mean.

Summary:

- Peach–potato aphid suction trap numbers are increasing in England, but remain scarce in Scottish samples. However, the number of potato aphids in Scotland increased markedly this bulletin week.
- A total of 146 suction trap peach–potato aphids have been tested for insecticide resistance so far this year, and 140 have tested positive for MACE (these are resistant to pirimicarb) and 137 also tested positive for super Kdr (these are resistant to pyrethroids).
- Yellow water trays placed by Broom’s Barn at twenty eight sites in sugar beet areas caught 19 peach–potato aphids and no potato aphids during the period 24/7–30/7, roughly the same as the previous week.
- Pea and cabbage aphid numbers are increasing in central and southern England.
- The migration of willow–carrot aphid is now all but complete, with just some late stragglers north of the border.
- Currant–lettuce aphids were caught at four sites, and accumulated numbers are above the ten year means at four sites in central and southern England.
- **THIS IS THE LAST APHID NEWS SHEET FOR 2013. We will update you immediately if anything relevant occurs later in the year.**

This news sheet is accompanied by aphid data bulletin no.14: 22/7 - 28/7/2013 , which you can view at <http://www.rothamsted.ac.uk/insect-survey/> .

Please feed back any information on aphid in crops.

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