



In partnership with



**CARROT FLY – 10<sup>th</sup> September 2019**

**Carrot fly forecasts**

The forecast outputs below are based on weather data collected by Plantsystems Limited and funded by Syngenta. The forecasts predict the timing of fly activity. They do not predict the number of insects present in the crop, as this depends on the size of the local fly population. For control purposes, we consider that the pest has become active when 10% of the insects have emerged/laid eggs and that the peak of activity has occurred when 50% have emerged/laid eggs. The predictions will change over time depending on weather conditions.

<b>Region</b>	<b>Second generation Forecast 10% EMERGENCE in 2019</b>	<b>Second generation Forecast 10% EGG-LAYING in 2019</b>	<b>Second generation Forecast 50% EGG-LAYING in 2019</b>	<b>Third generation Forecast 10% EMERGENCE in 2019</b>
Cornwall (Newquay)	25 July	1 August	15 August	12 October
Kent (Sittingbourne)	25 July	31 July	16 August	13 October
Suffolk (Woodbridge)	12 July	20 July	2 August	16 September
Wellesbourne (Warwick)	17 July	23 July	5 August	17 September
Norfolk (Norwich)	22 July	30 July	12 August	10 October
South Lincolnshire (Boston)	25 July	1 August	12 August	7 October
Nottingham (Bilsthorpe)	31 July	8 August	21 August	30 October
Lancashire (Ormskirk)	30 July	18 August	29 August	-
York (Market Weighton)	31 July	8 August	27 August	-
Scotland (Blairgowrie)	23 August	29 August	17 September	-



syngenta.

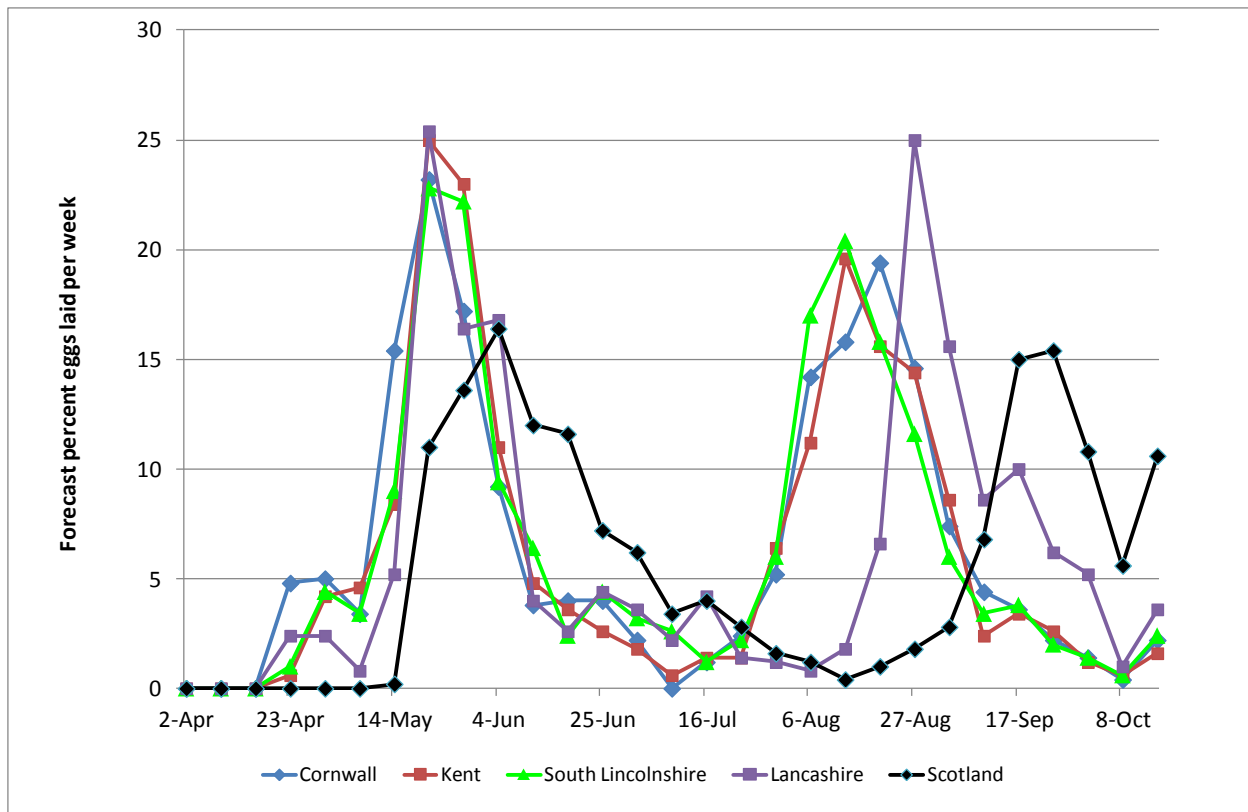
In partnership with



THE UNIVERSITY OF  
WARWICK



This graph shows the forecast pattern of egg-laying in 2019 for 5 sites from the table above.

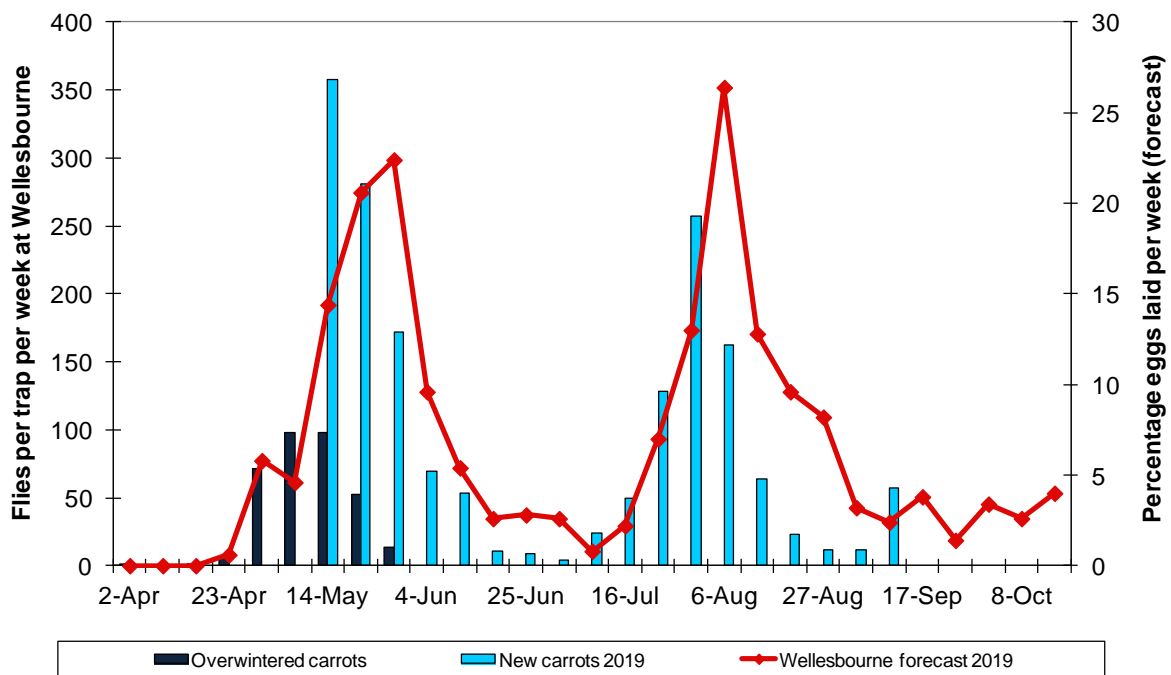




In partnership with



This graph shows the forecast pattern of **egg-laying in 2019** at Wellesbourne compared with fly captures on sticky traps in a plot of overwintered carrots and, later on, in a newly-sown plot of carrots.







syngenta.

In partnership with



Trap captures at Wellesbourne in 2019 are summarised below. The traps have been out all winter.

<b>Date</b>	<b>Adult carrot flies (overwintered carrots) (total on 3 traps)</b>	<b>Adult carrot flies (new carrots) (total on 3 traps)</b>
8 Jan	0	
5 Mar	0	
12 Mar	0	
19 Mar	0	
26 Mar	0	
2 April	1	
9 April	0	
16 April	4	
23 April	18	
26 April	36	
30 April	178	
3 May	89	
7 May	206	-
10 May	91	374
14 May	204	698
17 May	88	555
21 May	68	288
24 May	19	380
28 May	21	137
31 May	-	92
4 June		116
7 June		133
11 June		27



syngenta.

In partnership with



Trap captures at Wellesbourne in 2019 are summarised below. The traps have been out all winter.

<b>Date</b>	<b>Adult carrot flies (overwintered carrots) (total on 3 traps)</b>	<b>Adult carrot flies (new carrots) (total on 3 traps)</b>
14 June		4
18 June		27
21 June		15
25 June		11
28 June		5
2 July		6
5 July		8
9 July		63
12 July		59
16 July		89
19 July		58
23 July		326
26 July		360
30 July		413
2 August		232
6 August		254
9 August		133
13 August		57
16 August		22
20 August		46
23 August		27
27 August		8
30 August		10
3 September		26
6 September		50
10 September		122



syngenta.

In partnership with



Trap captures at Wellesbourne in 2018 are summarised below. **It is possible that the very hot weather affected the pattern of emergence of the second generation.**

Date	Adult carrot flies (overwintered carrots) (total on 3 traps)	Adult carrot flies (newly-sown carrots) (total on 3 traps)
8 Jan	0	
15 Jan	0	
22 Jan	0	
29 Jan	0	
5 Feb	0	
12 Feb	0	
19 Feb	0	
26 Feb	0	
6 Mar	0	
13 Mar	0	
20 Mar	0	
27 Mar	0	
3 Apr	0	
10 Apr	0	
17 Apr	0	
24 Apr	0	
27 Apr	5	
1 May	9	
4 May	121	
8 May	78	
11 May	116	51
15 May	154	215
18 May	117	200
22 May	23	321
25 May	4	128
29 May	1	28
1 June	-	19
5 June	-	47





syngenta.

In partnership with



THE UNIVERSITY OF  
WARWICK



Date	Adult carrot flies (overwintered carrots) (total on 3 traps)	Adult carrot flies (newly-sown carrots) (total on 3 traps)	Adult carrot flies (carrots sown in May 2018) (total on 3 traps)
8 June	-	20	
12 June	-	25	
15 June		14	
19 June		7	
22 June		3	
26 June		0	
29 June		3	
3 July		2	
6 July		2	
10 July		2	
13 July		4 (2 traps)	
17 July		5	
19 July		5	
24 July		11	
27 July		8	7
31 July		12	5
3 August		45	12
7 August		91	16
10 August		28	8
14 August		14	27
17 August		-	7
21 August		-	17



syngenta.

In partnership with



THE UNIVERSITY OF  
WARWICK



Date	Adult carrot flies (overwintered carrots) (total on 3 traps)	Adult carrot flies (newly-sown carrots) (total on 3 traps)	Adult carrot flies (carrots sown in May 2018) (total on 3 traps)
24 August	-	-	10
28 August	-	-	15
31 August	-	-	16
4 September	-	-	7
7 September	-	-	8
11 September	-	-	3
14 September	-	-	0
18 September	-	-	5
21 September	-	-	1
25 September	-	-	1
28 September			0
2 October			0
9 October			2
16 October			2
23 October			19
30 October			12
6 November			7
13 November			1
20 November			1
27 November			0
4 December			4
11 December			2
18 December			0