



Bean seed fly – 25 June 2020

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Introduction

Bean seed flies overwinter as pupae in the soil. In early spring (March-April), flies start to emerge and after feeding and mating, the female lays her eggs just below the soil surface, generally singly. Females may lay as many as 40 eggs in a day. There is generally a period of several days before a further batch of eggs is laid. In the absence of a suitable host plant, the larva is able to complete development by feeding on decomposing organic matter. The larvae pupate in the soil at varying depths. The rate of development, and therefore the number of generations, depends on the ambient temperature. Bean seed flies can complete between 3 and 6 generations during the year according to the climate. Females prefer to lay eggs in freshly disturbed soil, especially where there are residues of vegetable matter or where large amounts of farmyard manure have been applied. The presence of plants is not required for bean seed flies to lay eggs. Crops affected include: onion, bean, cucurbits, spinach, Brassica, radish, beet, asparagus and sweetcorn.

A bean seed fly forecast has not been developed but the numbers captured in water traps at are recorded below.

We first set up the traps in some overwintered swedes at Wellesbourne but because of COVID-19 the traps are now in the village allotments and in a garden at Tysoe in south Warwickshire. They are now back at Wellesbourne.



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Trap captures in Warwickshire 2020. Traps have been running all winter.

Date	Total in 3 traps near overwintered swedes at Wellesbourne	Total in 3 traps in Tysoe Allotments, Warwickshire set up 26 th March	Total in traps in garden in Tysoe, Warwickshire set up 28 th March
7 th -14 th Jan	28		
21 st Jan	4		
28 th Jan	5		
4 th Feb	32		
11 th Feb	11		
18 th Feb	12		
25 th Feb	7		
3 Mar	4		
10 Mar	16		
17 Mar	28		
27 Mar		4	
28 Mar		0	
29 Mar		0	
30 Mar		1	14 (5 traps)
31 Mar		1	3 (6 traps)
1 Apr		2	2 (6 traps)
2 Apr		2	8 (6 Traps)



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Date	Total in 3 traps near overwintered swedes at Wellesbourne	Total in 3 traps in Tysoe Allotments, Warwickshire set up 26 th March	Total in traps in garden in Tysoe, Warwickshire set up 28 th March (6 traps)
03-Apr	-	2	5
04-Apr	-	6	7
05-Apr	-	3	24
06-Apr	-	3	10
07-Apr	-	4	3
08-Apr	-	0	0
09-Apr	-	0	2
10-Apr	-	1	1
11-Apr	-	2	1
12-Apr	-	2	0
13-Apr	-	1	3
14-Apr	-	2	2
15-Apr	-	4	4
16-Apr	-	1	3
17-Apr	-	5	10
18-Apr	-	0	0
19-Apr	-	6	4
20-Apr	-	3	5
21-Apr	-	4	35
22-Apr	-	8	9
23-Apr	-	0	0



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Date	Total in 3 traps near overwintered swedes at Wellesbourne	Total in 3 traps in Tysoe Allotments, Warwickshire set up 26 th March 2020	Total in traps in garden in Tysoe, Warwickshire set up 28 th March 2020 (6 traps)
24-Apr	-	0	0
25-Apr	-	0	0
26-Apr	-	1	0
27-Apr	-	1	3
28-Apr	-	1	1
29-Apr	-	6	11
30-Apr	-	3	1
1-May	-	3	8
2-May	-	4	5
3-May	-	1	1
4-May	-	2	2
5-May	-	0	9
6-May	-	4	6
7-May	-	1	0
8 & 9 May	-	0	1
10 & 11 May	-	4	4
12-May	-	1	1
13-May	-	2	1



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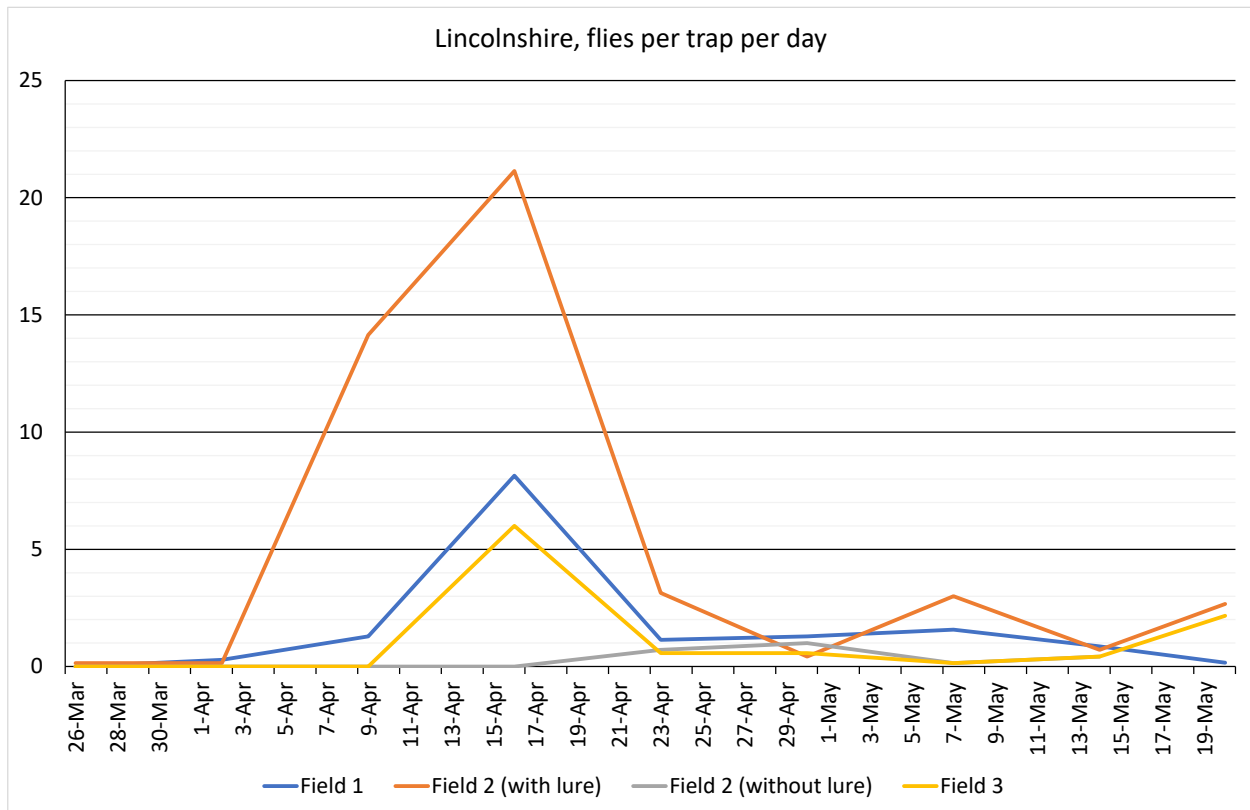
Date	Total in 3 traps near swedes at Wellesbourne	Total in 3 traps in Tysoe Allotments, Warwickshire set up 26 th March 2020	Total in traps in garden in Tysoe, Warwickshire set up 28 th March 2020 (6 traps)
14 May	-	0	1
15 May	-	1	0
16 May	-	8	2
17 May	-	0	1
18 May	-	5	0
19 May	Traps set up	3	0
20 May	-	12	0
21 May		3	0
22 May	8	0	0
26 May	8	-	-
29 May	4	-	-
2 June	10	-	-
5 June	8	-	-
9 June	27	-	-
12 June	21	-	-
16 June	19	-	-
19 June	27		
23 June	57		



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Trap captures in 2020 – information from the PGRO team

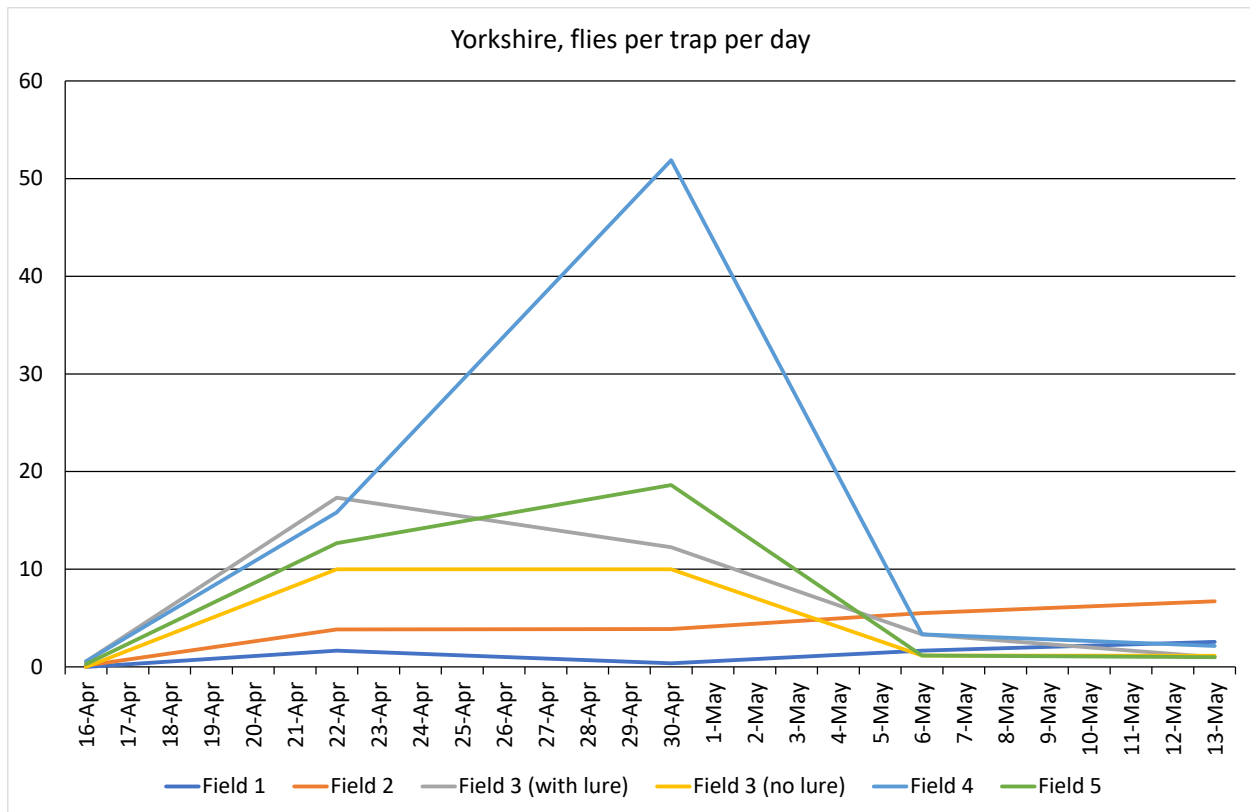




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Trap captures in 2020 – information from the PGRO team

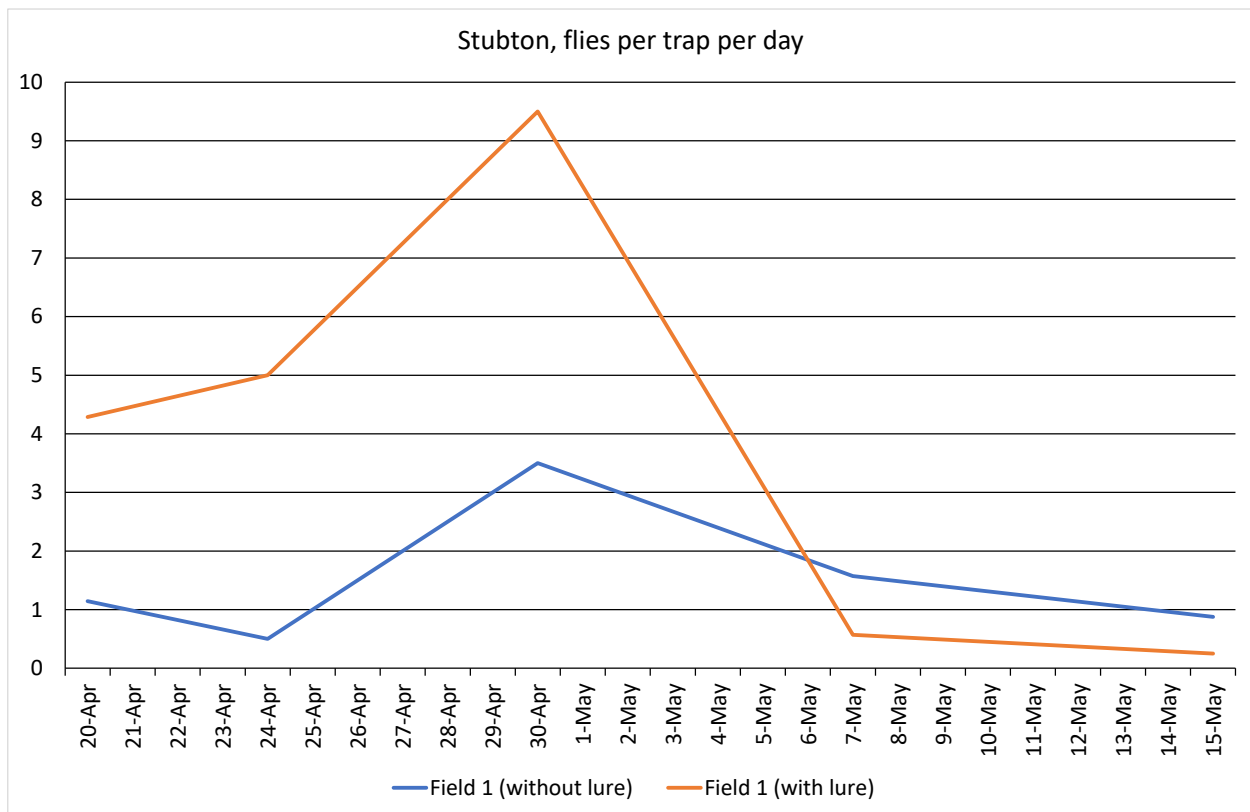




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Trap captures in 2020 – information from the PGRO team





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For information, trap captures from 2019 are below

Trap captures at Wellesbourne 2019. Traps were set up on 26th February.

Date	Total in 3 traps near overwintered swedes
5 th March	6
12 th March	8
19 th March	26
26 th March	33
2 nd April	24
9 th April	305
16 th April	116
23 rd April	23
26 th April	74
30 th April	129
3 rd May	34/32 (old swedes/new swedes)
7 th May	34/47
10 th May	38/38
14 th May	29/74
17 th May	7/17
21 st May	2/18
24 th May	32 (new swedes only from now onwards)
28 th May	24
31 st May	26
4 th June	17



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Trap captures at Wellesbourne 2019.

Date	Total in 3 traps near overwintered swedes
7 th June	37
11 th June	70
14 th June	70
18 th June	97
21 st June	25
25 th June	9
28 th June	30
2 nd July	8
5 th July	10
9 th July	29
12 th July	50
15 th July	75
19 th July	34
23 rd July	83
26 th July	61
30 th July	72
2 nd August	71
6 th August	23
9 th August	23
13 th August	48
16 th August	44
20 th August	63
23 rd August	26
27 th August	15
30 th August	14



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Trap captures at Wellesbourne 2019.

Date	Total in 3 traps near overwintered swedes
3 rd September	26
6 th September	25
10 th September	50
13 th September	35
17 th September	44
20 th September	47
24 th September	55
27 th September	80
1 st October	121
4 th October	36
7 th October	99
11 th October	48
15 th October	54
18 th October	34
22 nd October	29
25 th October	21
29 th October	49
5 th November	99
12 th November	72
19 th November	37
26 th November	36
3 rd December	30
10 th December	55
17 th December	15
7 th January	152