



## Bean seed fly – 15 October 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 <sup>th</sup> March	Total in traps in garden in Tysoe, Warwickshire set up 28 <sup>th</sup> March
7 <sup>th</sup> -14 <sup>th</sup> Jan	28		
21 <sup>st</sup> Jan	4		
28 <sup>th</sup> Jan	5		
4 <sup>th</sup> Feb	32		
11 <sup>th</sup> Feb	11		
18 <sup>th</sup> Feb	12		
25 <sup>th</sup> 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 <sup>th</sup> March	Total in traps in garden in Tysoe, Warwickshire set up 28 <sup>th</sup> 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 <sup>th</sup> March 2020	Total in traps in garden in Tysoe, Warwickshire set up 28 <sup>th</sup> 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 <sup>th</sup> March 2020	Total in traps in garden in Tysoe, Warwickshire set up 28 <sup>th</sup> 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	-	-
26 June	7	-	-
30 June	24	-	-
3 July	30		
7 July	55		



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Date	Total in 3 traps near swedes at Wellesbourne
10 July	31
14 July	38
17 July	26
21 July	40
24 July	12
28 July	16
31 July	14
4 August	7
7 August	5
11 August	11
14 August	3
18 August	18
21 August	44
25 August	96
28 August	45
1 September	62
4 September	11
8 September	17
11 September	5
15 September	13
18 September	20
22 September	17
25 September	13
29 September	45



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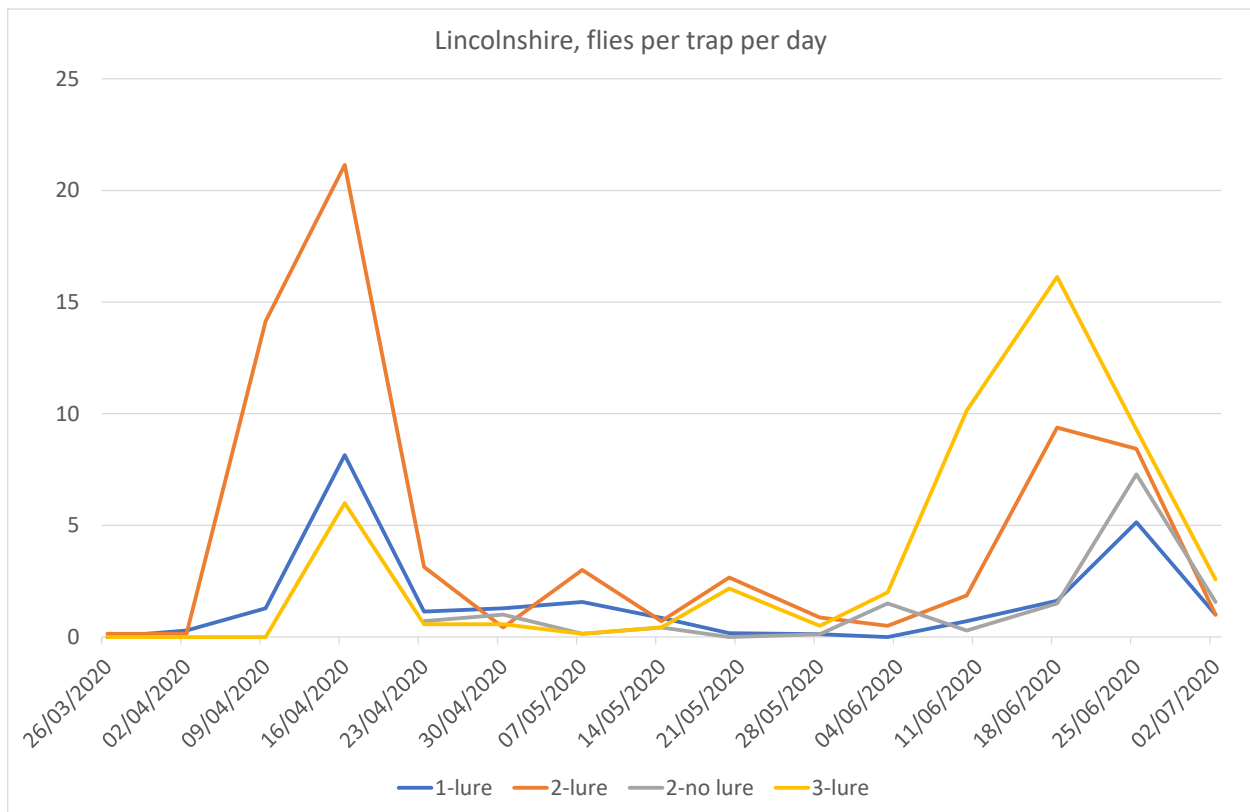
Date	Total in 3 traps near swedes at Wellesbourne
2 October	9
6 October	23
9 October	19
13 October	11



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**Trap captures in 2020 – information from the PGRO team – most of the traps have bean seed fly lures**



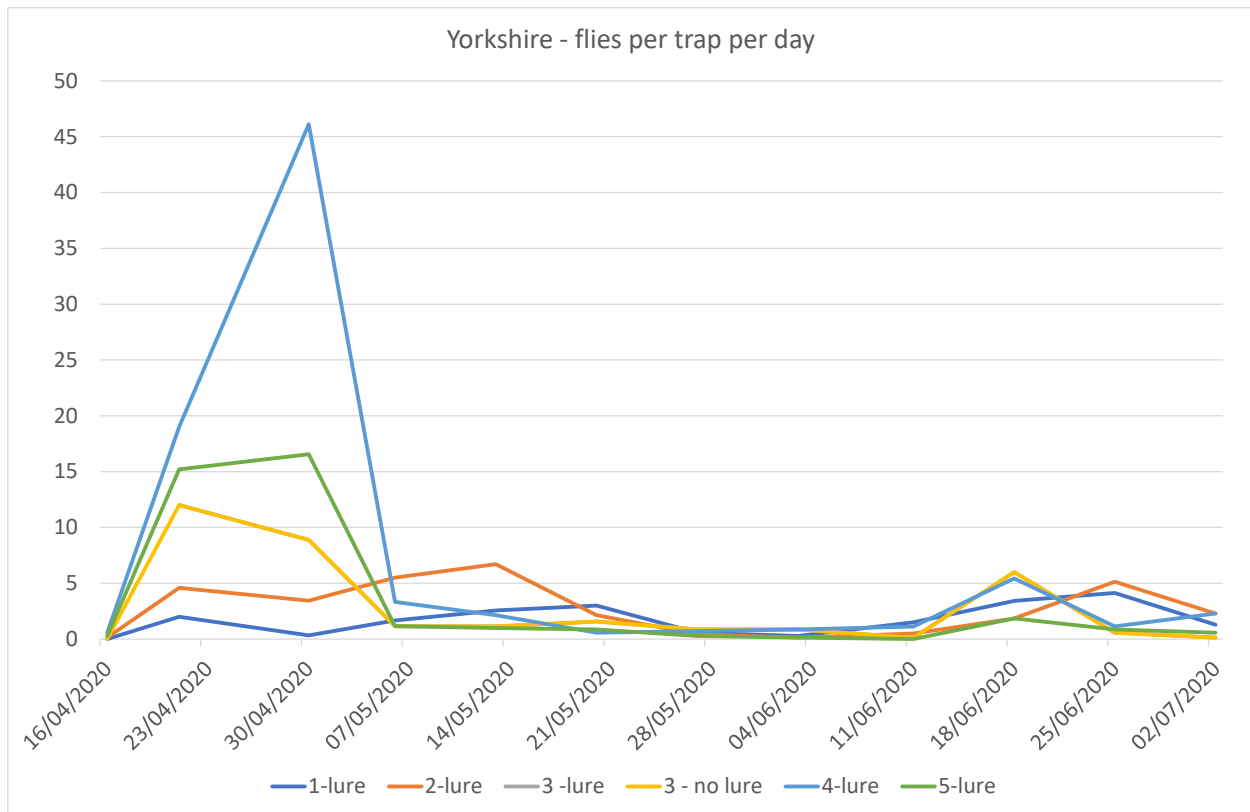




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**Trap captures in 2020 – information from the PGRO team – most of the traps have been seed fly lures**

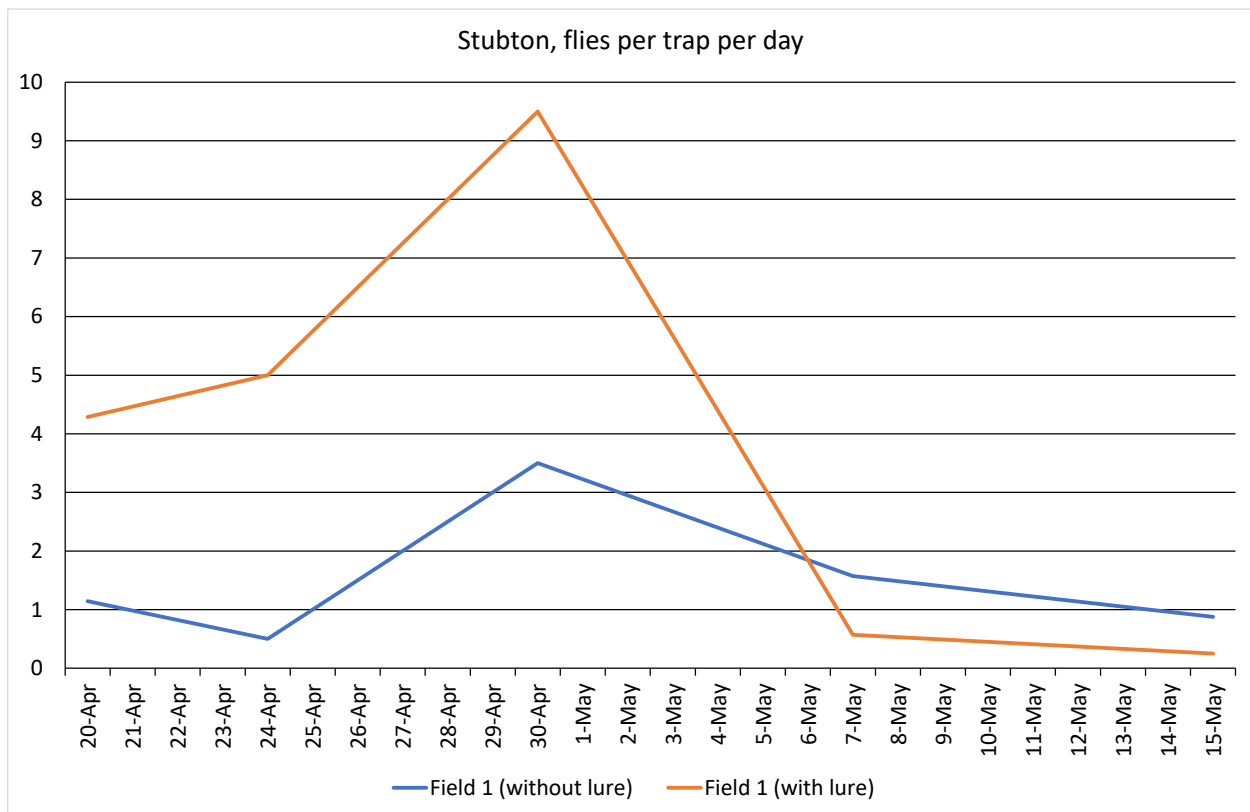




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**Trap captures in 2020 – information from the PGRO team**





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**For information, trap captures from 2019 are below**

**Trap captures at Wellesbourne 2019. Traps were set up on 26<sup>th</sup> February.**

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



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**Trap captures at Wellesbourne 2019.**

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



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**Trap captures at Wellesbourne 2019.**

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