

ARC-Small Grain False Armyworm moth numbers
Magogong, Hartswater, Modderrivier, Luckhoff and Douglas
Week 44 - 47

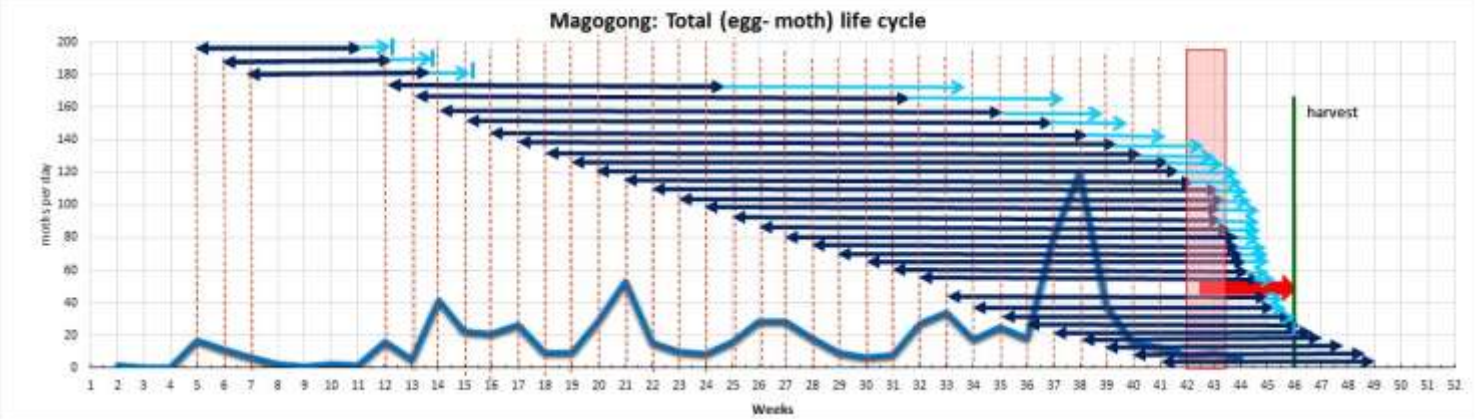
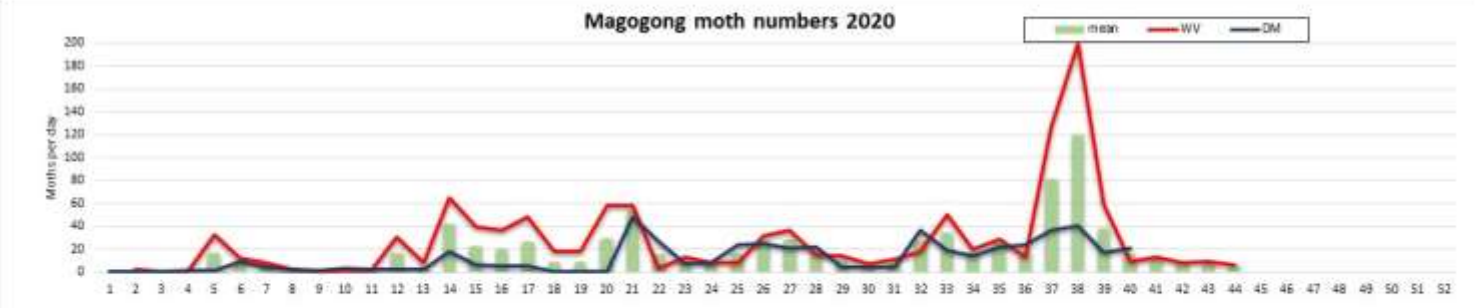
Prepared by Goddy Prinsloo and Pinkie Radebe – ARC Small Grain



Magogong moth traps

First graph indicates the original data recieved from the farmers.

- The second graph indicates the mean number of moths, while the dark blue arrows indicate the life cycles as forecasted by the average mean daily temperatures. Light blue arrows indicate the extension or reduction of the forecasted life cycle as calculated according to current temperatures.
- According to the model there could be an outbreak. The peak that occurred between week 36 and 40 could probably be the expected peak meaning that the calculation could be different from what really happened. Since the weather station is not present at the trap site this could add to the difference.
- Table indicate the dates when larvae will be present (left) and when the new moth flights could be happen.



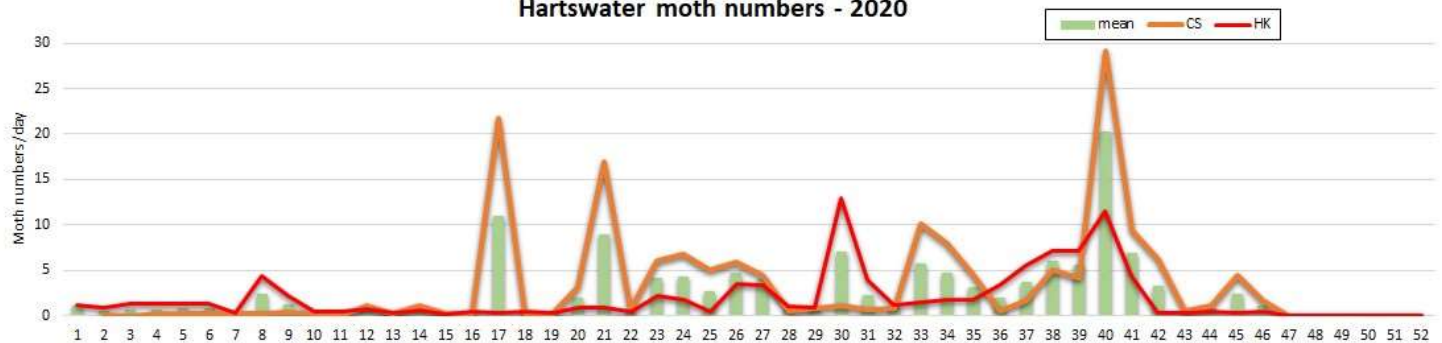
Magogong 2020 Larvae									Magogong 2020 New moth peaks												
Week	Mean temperature				Real temperature				Difference	Week	Mean temperature				Real temperature				Difference		
	Start	Week	Larvae end	Days	Week	Start	Week	Larvae end			Days	Week	Start	Week	New moths	Days	Week	Start		Week	New moths
5	30-Jan	8	22-Feb	24	5	30-Jan	8	22-Feb	24	0	5	30-Jan	11	14-Mar	45	5	30-Jan	12	16-Mar	47	2
6	06-Feb	9	29-Feb	24	6	06-Feb	10	03-Mar	27	3	6	06-Feb	13	22-Mar	46	6	06-Feb	13	26-Mar	50	4
7	14-Feb	11	09-Mar	25	7	14-Feb	11	11-Mar	27	2	7	14-Feb	14	31-Mar	47	7	14-Feb	15	07-Apr	54	7
12	19-Mar	17	19-Apr	32	12	19-Mar	17	22-Apr	35	3	12	19-Mar	24	10-Jun	84	12	19-Mar	34	22-Aug	156	72
13	26-Mar	18	30-Apr	36	13	26-Mar	19	05-May	41	5	13	26-Mar	31	31-Jul	128	13	26-Mar	37	08-Sep	158	30
14	02-Apr	20	11-May	40	14	02-Apr	21	19-May	48	8	14	02-Apr	34	22-Aug	143	14	02-Apr	38	17-Sep	169	26
15	09-Apr	21	22-May	44	15	09-Apr	23	02-Jun	55	11	15	09-Apr	36	05-Sep	150	15	09-Apr	39	24-Sep	169	19
16	16-Apr	23	04-Jun	50	16	16-Apr	28	07-Jul	83	33	16	16-Apr	38	15-Sep	153	16	16-Apr	41	04-Oct	174	21
17	23-Apr	26	26-Jun	65	17	23-Apr	32	05-Aug	105	40	17	23-Apr	39	21-Sep	152	17	23-Apr	42	14-Oct	175	23
18	30-Apr	29	16-Jul	78	18	30-Apr	35	26-Aug	119	41	18	30-Apr	40	28-Sep	152	18	30-Apr	42	17-Oct	171	19
19	07-May	32	05-Aug	91	19	07-May	36	05-Sep	122	31	19	07-May	41	05-Oct	152	19	07-May	43	20-Oct	167	15
20	14-May	34	16-Aug	95	20	14-May	37	09-Sep	119	24	20	14-May	41	09-Oct	149	20	14-May	43	23-Oct	163	14
21	21-May	35	25-Aug	97	21	21-May	38	13-Sep	116	19	21	21-May	42	13-Oct	146	21	21-May	43	24-Oct	157	11
22	28-May	36	02-Sep	98	22	28-May	38	17-Sep	113	15	22	28-May	42	16-Oct	142	22	28-May	44	26-Oct	152	10
23	05-Jun	37	07-Sep	95	23	05-Jun	39	20-Sep	108	13	23	05-Jun	43	19-Oct	137	23	05-Jun	44	27-Oct	145	8
24	11-Jun	37	10-Sep	92	24	11-Jun	39	24-Sep	106	14	24	11-Jun	43	20-Oct	132	24	11-Jun	44	29-Oct	141	9
25	18-Jun	37	12-Sep	87	25	18-Jun	39	24-Sep	100	13	25	18-Jun	43	21-Oct	126	25	18-Jun	44	29-Oct	134	8
26	25-Jun	38	15-Sep	83	26	25-Jun	39	25-Sep	93	10	26	25-Jun	43	22-Oct	120	26	25-Jun	44	29-Oct	127	7
27	02-Jul	38	17-Sep	78	27	02-Jul	39	25-Sep	86	8	27	02-Jul	43	23-Oct	114	27	02-Jul	44	29-Oct	120	6
28	09-Jul	38	18-Sep	72	28	09-Jul	40	30-Sep	84	12	28	09-Jul	43	24-Oct	108	28	09-Jul	44	30-Oct	114	6
29	16-Jul	39	21-Sep	68	29	16-Jul	40	02-Oct	79	11	29	16-Jul	44	26-Oct	103	29	16-Jul	44	31-Oct	108	5
30	23-Jul	39	23-Sep	63	30	23-Jul	40	03-Oct	73	10	30	23-Jul	44	26-Oct	96	30	23-Jul	44	31-Oct	101	5
31	30-Jul	39	25-Sep	58	31	30-Jul	41	05-Oct	68	10	31	30-Jul	44	27-Oct	90	31	30-Jul	45	01-Nov	95	5
32	06-Aug	40	28-Sep	54	32	06-Aug	41	08-Oct	64	10	32	06-Aug	44	29-Oct	85	32	06-Aug	45	03-Nov	90	5
33	13-Aug	40	01-Oct	50	33	13-Aug	41	09-Oct	58	8	33	13-Aug	44	31-Oct	80	33	13-Aug	45	04-Nov	84	4
34	20-Aug	41	06-Oct	48	34	20-Aug	42	11-Oct	53	5	34	20-Aug	45	03-Nov	76	34	20-Aug	45	05-Nov	78	2
35	27-Aug	41	09-Oct	44	35	27-Aug	42	14-Oct	49	5	35	27-Aug	45	06-Nov	72	35	27-Aug	45	07-Nov	73	1
36	03-Sep	42	13-Oct	40	36	03-Sep	42	16-Oct	44	4	36	03-Sep	46	08-Nov	67	36	03-Sep	46	08-Nov	67	0
37	10-Sep	42	17-Oct	38	37	10-Sep	43	20-Oct	41	3	37	10-Sep	46	11-Nov	63	37	10-Sep	46	08-Nov	60	-3
38	17-Sep	43	21-Oct	35	38	17-Sep	43	24-Oct	38	3	38	17-Sep	47	15-Nov	60	38	17-Sep				-60
39	24-Sep	44	27-Oct	34	39	24-Sep	44	28-Oct	35	1	39	24-Sep	47	20-Nov	58	39	24-Sep				-58
40	01-Oct	45	01-Nov	32	40	01-Oct	44	31-Oct	31	-1	40	01-Oct	48	25-Nov	56	40	01-Oct				-56
41	08-Oct	45	06-Nov	30	41	08-Oct	45	04-Nov	28	-2	41	08-Oct	49	29-Nov	53	41	08-Oct				-53
42	15-Oct	46	12-Nov	29	42	15-Oct	46	09-Nov	26	-3	42	15-Oct	49	03-Dec	50	42	15-Oct				-50
43	22-Oct	47	19-Nov	29	43	22-Oct				-29	43	22-Oct	50	10-Dec	50	43	22-Oct				-50
44	29-Oct	48	25-Nov	28	44	29-Oct				-28	44	29-Oct	51	15-Dec	48	44	29-Oct				-48

Hartswater moth traps

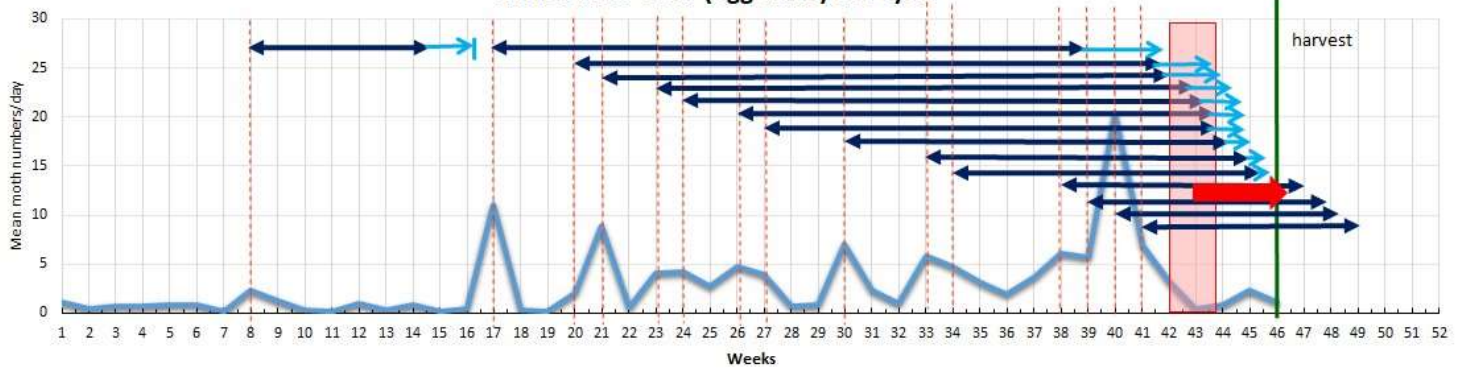
First graph indicates the original data recieved from the farmers.

- The second graph indicates the mean number of moths, while the dark blue arrows indicate the life cycles as forecasted by the average mean daily temperatures. Light blue arrows indicate the extension or reduction of the forecasted life cycle as calculated according to current temperatures.
- According to the model there is a slight possibility for an outbreak which was not experienced. The peak between week 39 and 41 could probably be, which means that it happened earlier than forecasted.
- Table indicate the dates when larvae will be present (left) and when the new moth flights could be happen.

Hartswater moth numbers - 2020



Hartswater: Total (egg-adult) life cycle



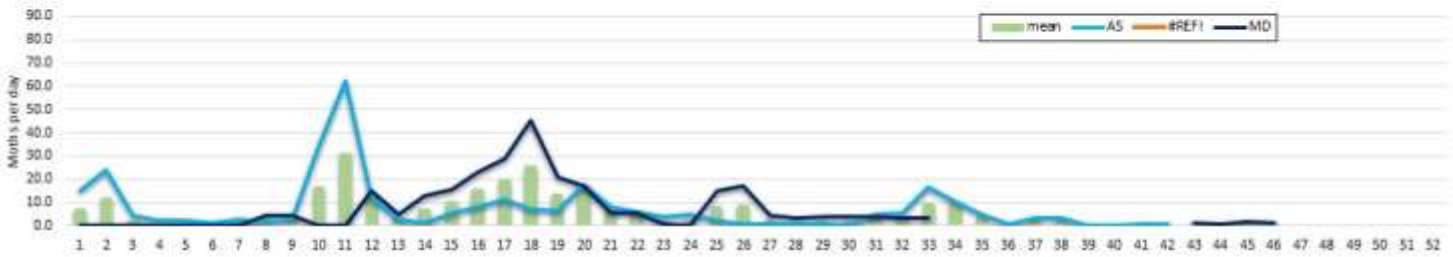
Hartswater 2020 Larvae											Hartswater 2020 New moth peaks										
Mean temperature					Real temperature					Difference	Mean temperature					Real temperature					Difference
Week	Start	Week	Larvae en	Days	Week	Start	Week	Larvae en	Days		Week	Start	Week	New moth	Days	Week	Start	Week	New moth	Days	
8	18-Feb	11	13-Mar	25	8	18-Feb	12	16-Mar	28	3	8	18-Feb	15	05-Apr	48	8	18-Feb	16	14-Apr	57	9
17	20-Apr	25	17-Jun	59	17	20-Apr	30	23-Jul	95	36	17	20-Apr	38	18-Sep	152	17	20-Apr	41	08-Oct	172	20
20	11-May	33	13-Aug	95	20	11-May	37	07-Sep	120	25	20	11-May	41	07-Oct	150	20	11-May	43	21-Oct	164	14
21	18-May	34	21-Aug	96	21	18-May	37	11-Sep	117	21	21	18-May	42	11-Oct	147	21	18-May	43	23-Oct	159	12
23	02-Jun	37	06-Sep	97	23	02-Jun	38	19-Sep	110	13	23	02-Jun	43	18-Oct	139	23	02-Jun	44	26-Oct	147	8
24	10-Jun	37	09-Sep	92	24	10-Jun	39	23-Sep	105	13	24	10-Jun	43	20-Oct	133	24	10-Jun	44	28-Oct	141	8
26	23-Jun	38	14-Sep	84	26	23-Jun	39	24-Sep	93	9	26	23-Jun	43	21-Oct	121	26	23-Jun	44	29-Oct	129	8
27	29-Jun	38	16-Jan	80	27	29-Jun	39	25-Sep	89	9	27	29-Jun	43	23-Oct	117	27	29-Jun	44	29-Oct	123	6
30	21-Jul	39	22-Sep	64	30	21-Jul	40	02-Oct	74	10	30	21-Jul	44	26-Oct	98	30	21-Jul	44	31-Oct	103	5
33	12-Aug	40	01-Oct	51	33	12-Aug	41	09-Oct	59	8	33	12-Aug	44	31-Oct	81	33	12-Aug	45	04-Nov	85	4
34	19-Aug	41	05-Oct	48	34	19-Aug	42	11-Oct	54	6	34	19-Aug	45	03-Nov	77	34	19-Aug	45	05-Nov	79	2
38	15-Sep	43	20-Oct	36	38	15-Sep	43	24-Oct	40	4	38	15-Sep	47	14-Nov	61	38	15-Sep				-61
39	23-Sep	44	26-Oct	34	39	23-Sep	44	27-Oct	36	2	39	23-Sep	47	20-Nov	59	39	23-Sep				-59
40	28-Sep	44	30-Oct	33	40	28-Sep	44	30-Oct	33	0	40	28-Sep	48	23-Nov	57	40	28-Sep				-57
41	06-Oct	45	05-Nov	31	41	06-Oct	45	03-Nov	29	-2	41	06-Oct	48	28-Nov	54	41	06-Oct				-54

Modderrivier moth traps

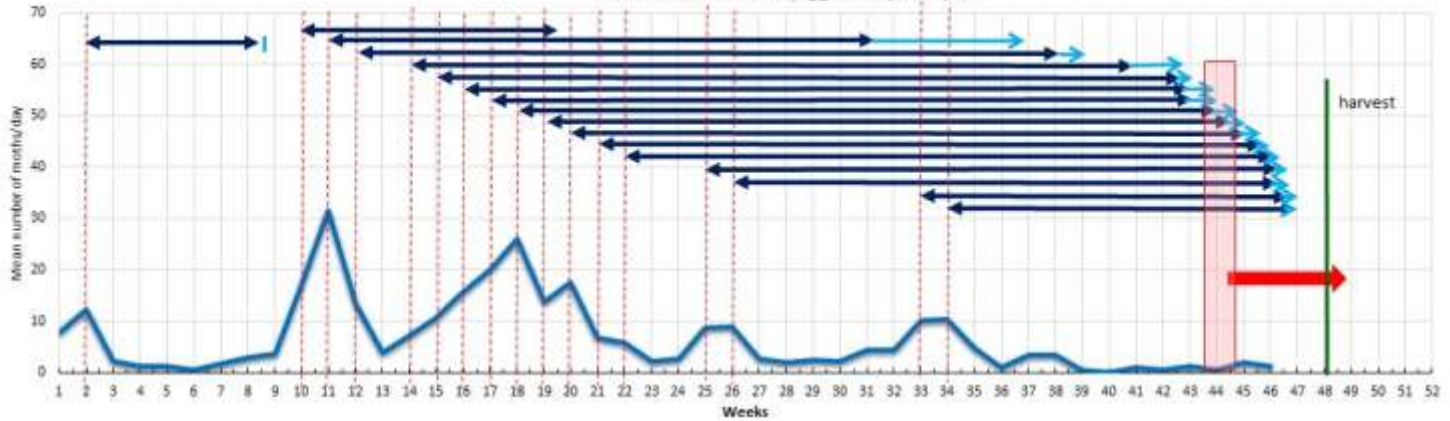
First graph indicates the original data recieved from the farmers.

- The second graph indicates the mean number of moths, while the dark blue arrows indicate the life cycles as forecasted by the average mean daily temperatures. Light blue arrows indicate the extension or reduction of the forecasted life cycle as calculated according to current temperatures.
- We have passed the possibility for an outbreak probably because low temperatures that occurred during winter could have killed larvae .
- Table indicate the dates when larvae will be present (left) and when the new moth flights could be happen.

Modderrivier moth numbers 2020



Modderrivier: Total (egg-adult) lifecycle



Modderrivier 2020 Larvae										Modderrivier 2020 New moth peaks											
Week	Mean temperature				Real temperature				Difference	Week	Mean temperature				Real temperature				Difference		
	Start	Week	Larvae er	Days	Week	Start	Week	Larvae er			Days	Week	Start	Week	New moth	Days	Week	Start		Week	New moth
2	08-Jan	5	31-Jan	24	2	08-Jan	5	31-Jan	24	0	2	08-Jan	8	21-Feb	45	2	08-Jan	8	19-Feb	43	-2
10	04-Mar	14	01-Apr	29	10	04-Mar	14	04-Apr	32	3	10	04-Mar	20	15-May	73	10	04-Mar	23	06-Jun	95	22
11	11-Mar	15	11-Apr	32	11	11-Mar	16	15-Apr	36	4	11	11-Mar	31	27-Jul	139	11	11-Mar	36	04-Sep	178	39
12	20-Mar	18	27-Apr	39	12	20-Mar	18	28-Apr	40	1	12	20-Mar	37	11-Sep	176	12	20-Mar	39	20-Sep	185	9
14	02-Apr	21	21-May	50	14	02-Apr	23	03-Jun	63	13	14	02-Apr	40	02-Oct	184	14	02-Apr	42	15-Oct	197	13
15	08-Apr	23	04-Jun	58	15	08-Apr	28	09-Jul	94	36	15	08-Apr	41	08-Oct	184	15	08-Apr	43	18-Oct	194	10
16	15-Apr	32	02-Aug	110	16	15-Apr	35	24-Aug	132	22	16	15-Apr	42	15-Oct	184	16	15-Apr	43	23-Oct	192	8
17	21-Apr	34	19-Aug	121	17	21-Apr	36	05-Sep	138	17	17	21-Apr	43	18-Oct	181	17	21-Apr	44	25-Oct	188	7
18	28-Apr	36	30-Aug	125	18	28-Apr	37	11-Sep	137	12	18	28-Apr	43	22-Oct	178	18	28-Apr	44	29-Oct	185	7
19	05-May	37	09-Sep	128	19	05-May	38	18-Sep	137	9	19	05-May	44	26-Oct	175	19	05-May	45	02-Nov	181	6
20	13-May	38	16-Sep	127	20	13-May	39	24-Sep	135	8	20	13-May	44	31-Oct	172	20	13-May	45	04-Nov	176	4
21	19-May	39	20-Sep	125	21	19-May	40	27-Sep	132	7	21	19-May	45	03-Nov	169	21	19-May	45	06-Nov	172	3
22	27-May	39	26-Sep	123	22	27-May	41	06-Oct	133	10	22	27-May	45	07-Nov	165	22	27-May	46	09-Nov	167	2
25	17-Jun	40	02-Oct	108	25	17-Jun	41	10-Oct	116	8	25	17-Jun	46	09-Nov	146	25	17-Jun	46	11-Nov	148	2
26	24-Jun	40	03-Oct	102	26	24-Jun	42	12-Oct	111	9	26	24-Jun	46	09-Nov	139	26	24-Jun	46	11-Nov	141	2
33	11-Aug	41	10-Oct	61	33	11-Aug	43	18-Oct	69	8	33	11-Aug	46	11-Nov	93	33	11-Aug	46	14-Nov	96	3
34	19-Aug	42	12-Oct	55	34	19-Aug	43	18-Oct	61	6	34	19-Aug	46	13-Nov	87	34	19-Aug	46	14-Nov	88	1

Luckhoff moth traps

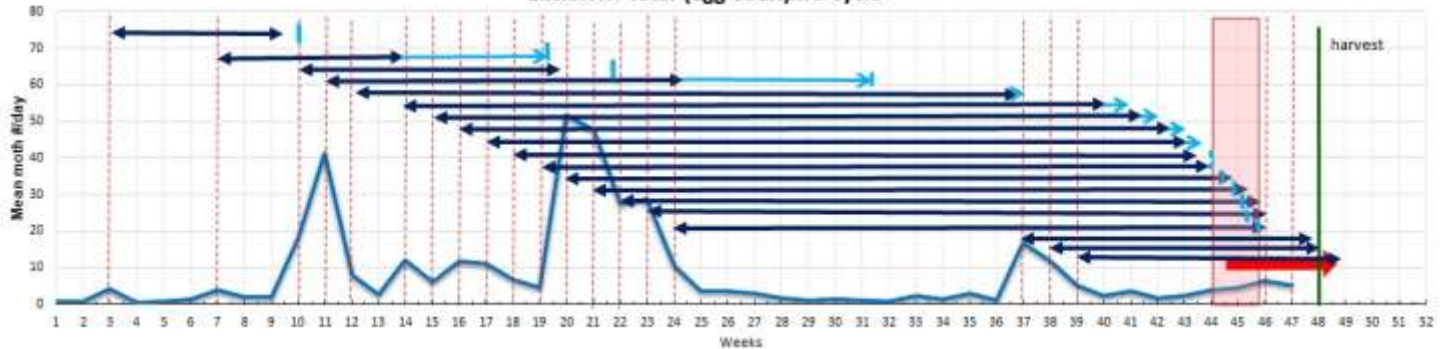
First graph indicates the original data recieved from the farmers.

- The second graph indicates the mean number of moths, while the dark blue arrows indicate the life cycles as forecasted by the average mean daily temperatures. Light blue arrows indicate the extension or reduction of the forecasted life cycle as calculated according to current temperatures.
- According to the model there was a small chance for an outbreak but only a small peak was measured during week 37-38. Currently a slight increase in moth numbers could be the result of the forecasted numbers coming through the winter, but also from the small peak experienced during week 37-38.

Luckhoff moth numbers 2019



Luckhoff: Total (Egg-adult) life cycle



Luckhoff 2020 Larvae										
Week	Mean temperature				Real temperature				Difference	
	Start	Week	Larvae en	Days	Week	Start	Week	Larvae en		Days
3	15-Jan	6	07-Feb	24	3	15-Jan	6	05-Feb	23	-1
7	11-Feb	10	06-Mar	25	7	11-Feb	11	10-Mar	29	4
10	03-Mar	14	29-Mar	27	10	03-Mar	14	31-Mar	30	3
11	10-Mar	15	09-Apr	31	11	10-Mar	16	13-Apr	35	4
12	18-Mar	17	22-Apr	36	12	18-Mar	17	24-Apr	38	2
14	31-Mar	21	17-May	48	14	31-Mar	21	21-May	53	5
15	23-Jan	23	01-Jun	56	15	07-Apr	24	08-Jun	63	7
16	15-Apr	31	27-Jul	104	16	15-Apr	30	25-Jul	102	-2
17	22-Apr	34	17-Aug	117	17	22-Apr	35	25-Aug	125	8
18	29-Apr	35	26-Aug	120	18	29-Apr	36	05-Sep	129	9
19	05-May	37	05-Sep	125	19	05-May	37	09-Sep	127	2
20	12-May	38	13-Sep	125	20	12-May	37	12-Sep	124	-1
21	20-May	38	19-Sep	123	21	20-May	38	19-Sep	123	0
22	27-May	39	24-Sep	121	22	27-May	39	24-Sep	121	0
23	01-Jun	39	26-Sep	118	23	01-Jun	39	25-Sep	117	-1
24	09-Jun	40	28-Sep	112	24	09-Jun	41	05-Oct	119	7
37	09-Sep	43	21-Oct	43	37	09-Sep	43	23-Oct	45	2
38	16-Sep	44	25-Oct	40	38	16-Sep	44	26-Oct	41	1
39	22-Sep	44	31-Oct	40	39	22-Sep	44	28-Oct	37	-3
46	11-Nov	50	08-Dec	28	46	11-Nov				-28
47	16-Nov	50	12-Dec	27	47	16-Nov				-27

Luckhoff 2020 New moth peaks										
Week	Mean temperature				Real temperature					
	Start	Week	New moth	Days	Week	Start	Week	New moth	Days	Difference
3	15-Jan	9	27-Feb	44	3	15-Jan	9	29-Feb	46	2
7	11-Feb	14	29-May	49	7	11-Feb	19	05-May	85	36
10	03-Mar	19	08-May	67	10	03-Mar	21	20-May	79	12
11	10-Mar	24	10-Jun	93	11	10-Mar	31	28-Jul	141	48
12	18-Mar	36	02-Sep	169	12	18-Mar	37	06-Sep	173	4
14	31-Mar	40	27-Sep	181	14	31-Mar	40	02-Oct	186	5
15	07-Apr	41	06-Oct	183	15	07-Apr	41	10-Oct	187	4
16	15-Apr	42	13-Oct	182	16	15-Apr	42	17-Oct	186	4
17	22-Apr	42	17-Oct	179	17	22-Apr	43	21-Oct	183	4
18	29-Apr	43	20-Oct	175	18	29-Apr	43	24-Oct	179	4
19	05-May	43	25-Oct	174	19	05-May	44	25-Oct	174	0
20	12-May	44	28-Oct	170	20	12-May	44	27-Oct	169	-1
21	20-May	45	08-Nov	168	21	20-May	44	30-Oct	164	-4
22	27-May	45	05-Nov	163	22	27-May	45	02-Nov	160	-3
23	01-Jun	45	06-Nov	159	23	01-Jun	45	03-Nov	156	-3
24	09-Jun	45	07-Nov	152	24	09-Jun	45	05-Nov	150	-2
37	09-Sep	47	20-Nov	73	37	09-Sep				-73
38	16-Sep	48	22-Nov	68	38	16-Sep				-68
39	22-Sep	48	27-Nov	67	39	22-Sep				-67
46	11-Nov	53	28-Dec	48	46	11-Nov				-48
47	16-Nov	53	01-Jan	47	47	16-Nov				-47

Douglas moth traps

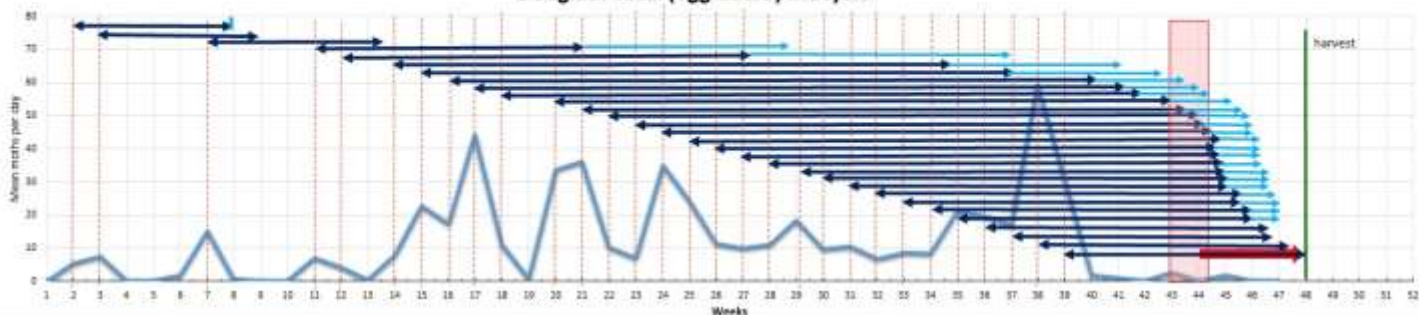
First graph indicates the original data recieved from the farmers.

- The second graph indicates the mean number of moths, while the dark blue arrows indicate the life cycles as forecasted by the average mean daily temperatures. Light blue arrows indicate the extension or reduction of the forecasted life cycle as calculated according to current temperatures.
- According to the model there was a chance for an outbreak from week 43 onwards but low moth numbers occur currently. A major peak that occurred between week 35 and 40 could be related to forecasted moth numbers but occurred earlier than forecasted.
- Table indicate the dates when larvae will be present (left) and when the new moth flights could be happen.

Douglas moth numbers 2020



Douglas : Total (egg-adult) lifecycle



Douglas 2020 Larvae									Douglas 2020 New moth peaks												
Week	Mean temperature				Real temperature				Difference	Week	Mean temperature				Real temperature				Difference		
	Start	Week	Larvae en	Days	Week	Start	Week	Larvae en			Days	Week	Start	Week	New moth	Days	Week	Start		Week	New moth
2	06-Jan	5	27-Jan	22	2	06-Jan	5	28-Jan	23	1	2	06-Jan	7	14-Feb	40	2	06-Jan	8	16-Feb	42	2
3	13-Jan	6	03-Feb	22	3	13-Jan	6	03-Feb	22	0	3	13-Jan	8	22-Feb	41	3	13-Jan	9	24-Feb	43	2
7	10-Feb	10	05-Mar	25	7	10-Feb	10	07-Mar	27	2	7	10-Feb	13	26-Mar	46	7	10-Feb	14	01-Apr	52	6
11	10-Mar	15	07-Apr	29	11	10-Mar	15	10-Apr	32	3	11	10-Mar	21	18-May	70	11	10-Mar	28	10-Jul	123	53
12	17-Mar	16	17-Apr	32	12	17-Mar	17	21-Apr	36	4	12	17-Mar	27	30-Jun	106	12	17-Mar	36	05-Sep	173	67
14	01-Apr	20	13-May	43	14	01-Apr	21	22-May	52	9	14	01-Apr	37	11-Sep	164	14	01-Apr	41	06-Oct	189	25
15	08-Apr	21	24-May	47	15	08-Apr	26	21-Jun	75	28	15	08-Apr	39	21-Sep	167	15	08-Apr	42	15-Oct	191	24
16	15-Apr	25	18-Jun	65	16	15-Apr	32	03-Aug	111	46	16	15-Apr	40	01-Oct	169	16	15-Apr	43	20-Oct	189	20
17	22-Apr	29	19-Jul	89	17	22-Apr	35	27-Aug	128	39	17	22-Apr	41	06-Oct	166	17	22-Apr	43	24-Oct	186	20
18	29-Apr	32	08-Aug	102	18	29-Apr	37	08-Sep	133	31	18	29-Apr	41	11-Oct	166	18	29-Apr	44	27-Oct	182	16
20	13-May	36	02-Sep	113	20	13-May	38	19-Sep	130	17	20	13-May	43	19-Oct	160	20	13-May	45	02-Nov	174	14
21	20-May	37	09-Sep	113	21	20-May	39	23-Sep	127	14	21	20-May	43	23-Oct	157	21	20-May	45	04-Nov	169	12
22	27-May	38	16-Sep	113	22	27-May	40	27-Sep	124	11	22	27-May	44	26-Oct	153	22	27-May	45	06-Nov	164	11
23	02-Jun	38	18-Sep	109	23	02-Jun	40	02-Oct	123	14	23	02-Jun	44	28-Oct	149	23	02-Jun	45	07-Nov	159	10
24	09-Jun	38	20-Sep	104	24	09-Jun	41	06-Oct	120	16	24	09-Jun	44	29-Oct	143	24	09-Jun	46	08-Nov	153	10
25	17-Jun	39	21-Sep	97	25	17-Jun	41	07-Oct	113	16	25	17-Jun	44	30-Oct	136	25	17-Jun	46	09-Nov	146	10
26	24-Jun	39	23-Sep	92	26	24-Jun	41	07-Oct	106	14	26	24-Jun	44	31-Oct	130	26	24-Jun	46	09-Nov	139	9
27	01-Jul	39	25-Jan	87	27	01-Jul	41	08-Oct	100	13	27	01-Jul	44	01-Nov	124	27	01-Jul	46	09-Nov	132	8
28	09-Jul	39	26-Sep	80	28	09-Jul	41	09-Oct	93	13	28	09-Jul	44	01-Nov	116	28	09-Jul	46	10-Nov	125	9
29	15-Jul	39	27-Sep	75	29	15-Jul	42	12-Oct	90	15	29	15-Jul	45	02-Nov	111	29	15-Jul	46	11-Nov	120	9
30	23-Jul	40	30-Sep	70	30	23-Jul	42	13-Oct	83	13	30	23-Jul	45	03-Nov	104	30	23-Jul	46	11-Nov	112	8
31	29-Jul	40	02-Oct	67	31	29-Jul	42	14-Oct	78	11	31	29-Jul	45	03-Nov	98	31	29-Jul	46	11-Nov	106	8
32	05-Aug	40	04-Oct	61	32	05-Aug	42	16-Oct	73	12	32	05-Aug	45	05-Nov	93	32	05-Aug	46	13-Nov	101	8
33	12-Aug	41	06-Oct	56	33	12-Aug	43	17-Oct	67	11	33	12-Aug	45	06-Nov	87	33	12-Aug	46	14-Nov	95	8
34	19-Aug	41	09-Oct	52	34	19-Aug	43	18-Oct	61	9	34	19-Aug	45	07-Nov	81	34	19-Aug	46	14-Nov	88	7
35	26-Aug	42	12-Oct	48	35	26-Aug	43	19-Oct	55	7	35	26-Aug	46	09-Nov	76	35	26-Aug	47	15-Nov	82	6
36	02-Sep	42	15-Oct	44	36	02-Sep	43	21-Oct	50	6	36	02-Sep	46	11-Nov	71	36	02-Sep				-71
37	07-Sep	42	17-Oct	41	37	07-Sep	43	24-Oct	48	7	37	07-Sep	46	13-Nov	68	37	07-Sep				-68
38	14-Sep	43	21-Oct	38	38	14-Sep	44	28-Oct	45	7	38	14-Sep	47	17-Nov	65	38	14-Sep				-65
39	21-Sep	44	25-Oct	35	39	21-Sep	44	30-Oct	40	5	39	21-Sep	47	21-Nov	62	39	21-Sep				-62