

ARC-Small Grain False Armyworm moth numbers

Caledon and Swellendam
Week 42

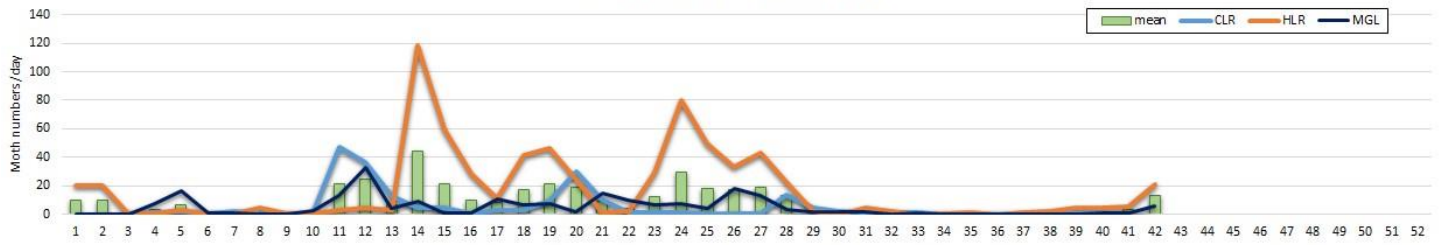


Caledon moth traps

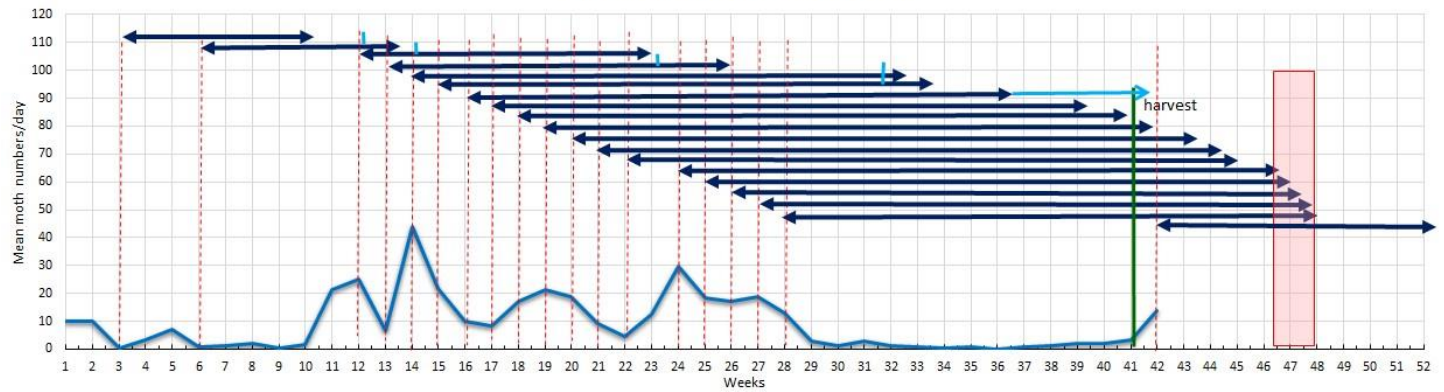
First graph indicates the original data recieved from the farmers.

- 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 a small outbreak is possible during week 47 - 48 which is past harvesting and no threat.
- Table indicate the dates when larvae will be present (left) and when the new moth flights could be happen.

Caledon moth numbers 2019



Caledon: Total (egg-moth) life cycle



Caledon 2020 Larvae										
Week	Mean temperature				Real temperature				Difference	
	Start	Week	Larvae en	Days	Week	Start	Week	Larvae en		Days
2	07-Jan	6	04-Feb	29	2	07-Jan	6	04-Feb	29	0
5	28-Jan	9	23-Feb	27	5	28-Jan	9	23-Feb	27	0
11	10-Mar	15	11-Apr	33	11	10-Mar	16	15-Apr	37	4
12	17-Mar	17	21-Apr	36	12	17-Mar	17	24-Apr	39	3
14	30-Mar	19	09-May	41	14	30-Mar	19	09-May	41	0
15	06-Apr	21	18-May	43	15	06-Apr	21	20-May	45	2
16	14-Apr	23	31-May	48	16	14-Apr	22	29-May	46	-2
17	20-Apr	24	11-Jun	53	17	20-Apr	23	06-Jun	48	-5
18	27-Apr	26	26-Jun	61	18	27-Apr	25	20-Jun	55	-6
19	04-May	28	11-Jul	69	19	04-May	27	03-Jul	61	-8
20	12-May	31	31-Jul	81	20	12-May	31	30-Jul	80	-1
21	18-May	33	14-Aug	89	21	18-May	33	14-Aug	95	6
23	01-Jun	36	05-Sep	97	23	01-Jun	37	11-Sep	102	5
24	08-Jun	37	10-Sep	95	24	08-Jun	39	23-Sep	108	13
25	15-Jun	38	16-Sep	94	25	15-Jun	40	29-Sep	107	13
26	22-Jun	39	20-Sep	91	26	22-Jun	41	06-Oct	107	16
27	29-Jun	39	25-Sep	89	27	29-Jun				-89
28	06-Jul	40	29-Sep	86	28	06-Jul				-86
42	12-Oct	45	01-Nov	21	42	12-Oct				-21

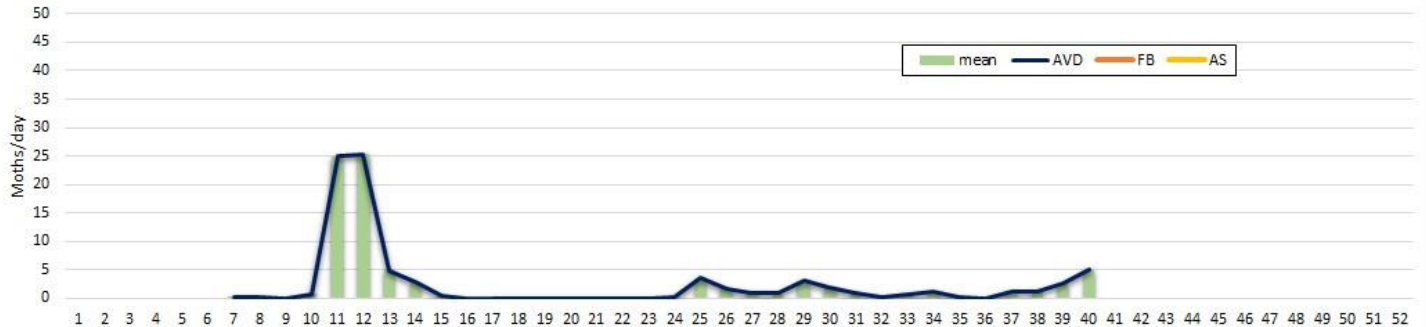
Caledon 2020 New moth peaks										
Week	Mean temperature				Real temperature				Difference	
	Start	Week	New moth	Days	Week	Start	Week	New moth		Days
2	07-Jan	9	26-Feb	51	2	07-Jan	9	27-Feb	52	1
5	28-Jan	12	19-Mar	52	5	28-Jan	12	19-Mar	52	0
11	10-Mar	22	25-May	77	11	10-Mar	22	28-May	81	4
12	17-Mar	24	12-Jun	88	12	17-Mar				
14	30-Mar	32	05-Aug	129	14	30-Mar	31	31-Jul	123	-6
15	06-Apr	35	26-Aug	143	15	06-Apr	37	08-Sep	156	13
16	14-Apr	38	15-Sep	156	16	14-Apr				-156
17	20-Apr	39	24-Sep	159	17	20-Apr				-159
18	27-Apr	41	04-Oct	161	18	27-Apr				-161
19	04-May	42	13-Oct	163	19	04-May				-163
20	12-May	43	19-Oct	161	20	12-May				-161
21	18-May	44	25-Oct	161	21	18-May				-161
23	01-Jun	45	05-Nov	157	23	01-Jun				-157
24	08-Jun	45	07-Nov	153	24	08-Jun				-153
25	15-Jun	46	10-Nov	149	25	15-Jun				-149
26	22-Jun	46	12-Nov	144	26	22-Jun				-144
27	29-Jun	47	15-Nov	140	27	29-Jun				-140
28	06-Jul	47	17-Nov	135	28	06-Jul				-135
42	12-Oct	52	22-Dec	72	42	12-Oct				-72

Swellendam moth traps

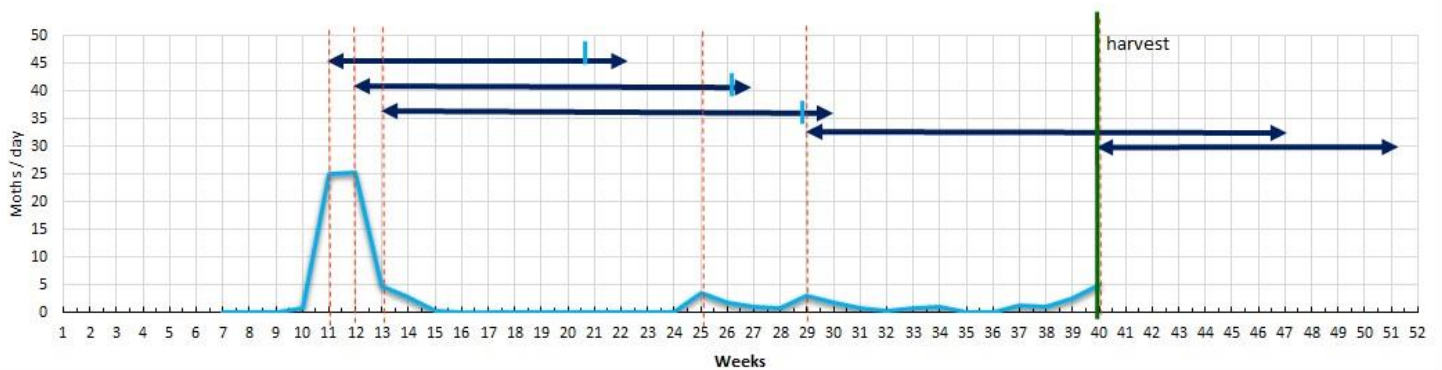
First graph indicates the original data recieved from the farmers.

- 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 extention or reduction of the forecasted life cycle as calculated according to current temperatures.
- According to the model there is no threat for an outbreak in the area.
- Table indicate the dates when larvae will be present (left) and when the new moth flights could be happen.

Swellendam moth number 2020



Swellendam : Total (egg -adult) Life cycle



Swellendam 2020 Larvae										Swellendam 2020 New moth peaks											
Mean temperature					Real temperature					Difference	Mean temperature					Real temperature					Difference
Week	Start	Week	Larvae end	Days	Week	Start	Week	Larvae end	Days		Week	Start	Week	New moths	Days	Week	Start	Week	New moths	Days	
11	10-Mar	16	12-Apr	34	11	10-Mar	16	16-Apr	38	4	11	10-Mar	22	28-May	80	11	10-Mar	22	30-May	82	2
12	19-Mar	18	26-Apr	39	12	19-Mar	18	26-Apr	39	0	12	19-Mar	27	28-Jun	102	12	19-Mar	26	23-Jun	97	-5
13	25-Mar	19	04-May	41	13	25-Mar	19	04-May	41	0	13	25-Mar	30	25-Jul	123	13	25-Mar	28	09-Jul	107	-16
25	16-Jun	37	12-Sep	89	25	16-Jun				-89	25	16-Jun	45	05-Nov	143	25	16-Jun				-143
29	14-Jul	40	28-Sep	77	29	14-Jul				-77	29	14-Jul	46	14-Nov	124	29	14-Jul				-124
40	29-Sep	46	12-Nov	45	40	29-Sep				-45	40	29-Sep	51	14-Dec	77	40	29-Sep				-77

