

Tabel 1.

Temperature during the months of September and October 1936.

date	hour	temp. C°	hour	temp. C°	hour	temp. C°	date	hour	temp. C°	hour	temp. C°	hour	temp. C°
Sept. 9	7 ³⁰	27.—	11	29.5	14	30.25	Oct. 1	7 ³⁰	25.75	11	28.25	14	30.5
10	7 ³⁰	26.25	11	29.—	14	29.75	2	7 ³⁰	26.—	11	28.75	14	30.25
11	7 ³⁰	25.75	11	28.—	14	29.75	3	7 ³⁰	26.—	11	29.5	12 ³⁰	30.—
12	7 ³⁰	26.—	11	28.—	12 ³⁰	29.5	4	8	27.—	10 ³⁰	29.25	—	—
13	8	26.25	10 ³⁰	28.—	—	—	5	7 ³⁰	26.75	11	29.—	14	30.25
14	7 ³⁰	26.5	11	28.—	14	29.5	6	7 ³⁰	26.—	11	18.75	14	30.5
15	7 ³⁰	26.—	11	28.—	14	28.75	7	7 ³⁰	25.75	11	29.—	14	29.—
16	7 ³⁰	25.5	11	27.75	14	29.5	8	7 ³⁰	26.75	11	29.—	14	29.—
17	7 ³⁰	25.75	11	28.—	14	29.—	9	7 ³⁰	25.5	11	28.—	14	29.75
18	7 ³⁰	26.—	11	28.75	14	30.5	10	7 ³⁰	25.75	11	28.75	12 ³⁰	29.—
19	7 ³⁰	25.75	11	29.—	12	29.—	11	8	27.—	10 ³⁰	29.—	—	—
20	8	26.75	10 ³⁰	28.—	—	—	12	7 ³⁰	26.—	11	29.25	14	30.—
21	7 ³⁰	25.25	11	28.—	14	29.25	13	7 ³⁰	25.75	10 ³⁰	29.—	—	—
22	7 ³⁰	25.—	11	28.—	14	29.75	14	7 ³⁰	25.5	11	29.5	14	30.—
23	7 ³⁰	26.—	11	28.75	14	29.5	15	7 ³⁰	25.75	11	29.—	14	29.—
24	7 ³⁰	26.—	11	29.—	14	30.5	16	7 ³⁰	26.—	11	27.—	14	28.—
25	7 ³⁰	26.75	11	29.25	14	30.75	17	7 ³⁰	26.—	11	26.75	12 ³⁰	28.25
26	7 ³⁰	26.25	11	29.—	12 ³⁰	30.—	18	8	25.75	10 ³⁰	26.—	—	—
27	8	27.—	10 ³⁰	28.5	—	—	19	7 ³⁰	26.25	11	27.50	14	28.—
28	7 ³⁰	26.25	11	29.—	14	30.75	20	7 ³⁰	26.5	11	28.—	14	29.75
29	7 ³⁰	26.—	11	28.5	14	30.—	21	7 ³⁰	25.75	11	29.—	14	30.—
30	7 ³⁰	26.—	11	28.—	14	30.5	22	7 ³⁰	26.25	11	28.25	14	28.75
							23	7 ³⁰	26.—	11	28.5	14	29.—
							24	7 ³⁰	26.25	11	27.—	12 ³⁰	28.—

Table 8.

Maximal temperatures in the laboratory during the month of January, February and March 1937.

date	temperature C°	date	temperature C°	date	temperature C°
10 I 37	26.25	3 II 37	26.25	27 II 37	29.25
11	26.25	4	28.—	28	29.—
12	28.5	5	28.—	1 III 37	28.75
13	29.75	6	26.25	2	29.—
14	29.—	7	26.75	3	29.75
15	27.5	8	27.—	4	28.—
16	28.—	9	26.5	5	27.5
17	27.5	10	28.75	6	29.—
18	26.5	11	27.5	7	29.—
19	26.75	12	27.—	8	29.25
20	27.75	13	27.—	9	29.75
21	28.5	14	27.5	10	27.5
22	29.5	15	29.—	11	28.75
23	29.—	16	28.75	12	29.—
24	29.5	17	29.5	13	28.5
25	26.25	18	29.—	14	29.5
26	29.75	10	29.—	15	29.75
27	28.—	20	29.25	16	28.75
28	29.75	21	29.—	17	29.—
29	29.5	22	29.—	18	29.5
30	29.—	23	29.5	19	29.75
31	29.5	24	29.—	20	29.75
1 II 37	30.—	25	29.5		
2	26.5	26	29.—		

Table 9.

DATE	Quality of the food				
	J	M	I	II	III
1 III 37	2♂	1♂			
2	2♂	1♂	2♂		
3	2♂	2♂	2♂		
4	1♂	6♂	2♀		
5	1♂	2♂	8♂	2♂	
6	2♂	1♂	2♂	2♂	1♂
7		3♂	2♂	2♀	1♂
8		1♀	4♀	3♂	4♂
9	3♂	2♂	3♂	2♀	3♂
10	1♂		3♂	3♂	3♂
11	2♂	3♂	1♀	2♀	1♂
12	1♂	1♂	3♀	1♂	7♂
13	2♂	2♂	2♀	3♂	5♂
14	1♂	2♀	4♀	3♂	1♂
15				1♂	2♂
16				3♂	1♂
17				2♂	1♀
18				1♀	5♀
19					3♀
Totals	20♂ 10♀	24♂ 18♀	24♂ 14♀	20♂ 16♀	26♂ 24♀

Timolius. Number of moths emerging each day.

Quality of the food	Date	N																																									
		1	2	3	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36							
I (A)	2-X-36															13	15	—	8	7	—	—	26	—	14	13	11	—	18	14	27	24	19	21	21	—							
	6															6	—	—	15	10	†																						
	7															5	10	—	18	20	—	—	†																				
	8															15	—	31	28	—	13	—	22	23	22	15	17	—	33	25	—	—	15	19	19	5	21	18	—				
	8																14	—	3	—	—	7	17	4	—	8	22	10	17	2	19	—	—	8	—	—	†						
	8																																										
	10																																										
	11																15	—	18	12	—	—	—	—	—	—	18	—	11	9	23	16	—	—	11	11	—	12	30	13	31	11	
	I (B)	2																																									
3																																											
5																																											
9																																											
12																																											
12																																											
12																																											
II (A)	1																																										
	7																																										
	7																																										
	8																																										
	9																																										
	10																																										
II (B)	1																																										
	2																																										
	6																																										
	13																																										
	10																																										
	13																																										
III	12																																										
	15																																										
	13																																										
	12																																										
	14																																										
	13																																										
	12																																										
	14																																										

80	Longevity days	Ovipositing period days	Total number of eggs
	76	61	1149
	20	5	31
	19	7	53
	50	38	418
	32	19	131
	9	0	0
	50	39	413
	6	0	0
	65	49	685
	50	37	699
	15	5	38
	44	32	672
	28	13	164
	51	39	611
	28	16	176
	37	19	235
	7	0	0
	37	25	302
	42	30	441
	28	14	95
	17	1	21
	36	24	126
	77	61	463
	47	31	390
	42	26	229
	61	43	306
	28	11	137
	62	50	410
	16	3	37
	44	30	435
	69	53	560
	30	15	48
	25	7	26
	26	13	137
	19	4	11
	29	13	62
	62	41	166
	65	54	391
	39	18	103
	39	26	190
	63	45	207

Tabel 5.

Quality of the food	No.	Date	Number of eggs on each day of life.																																					
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36			
Leaf A	1	11-XII-33							5	1	0	1	2	2	3	4	9	2	7	1	1	1	2	5	0	3	†													
	2	14-XII-33									†																													
	3	6-I-34													1	0	1	5	8	6	6	6	6	8	7	5	7	8	6	7	4	2	2	†						
	4	7-I-34											2	3	6	4	5	2	7	7	5	5	5	1	6	7	5	6	5	4	1	6	2	6	2	6	5	6		
	5	12-I-34									1	1	2	2	1	4	1	2	1	4	1	8	0	1	1	5	†													
	6	12-I-34																				3	1	2	4	6	6	3	7	4	1	4	7	2	1	3	1	1		
	7	15-I-34				3	3	3	2	2	3	4	4	1	1	4	3	4	4	4	†																			
	8	16-I-34									3	3	†																											
	9	19-I-34									7	3	1	4	4	5	3	2	4	2	4	4	1	6	4	2	0	0	0	0	3	1	0	0	3	4	4			
	10	23-I-34										1	5	0	0	1	0	1	0	1	2	0	0	0	0	2	0	0	1	1	3	2	1	0	1	0	0			
	11	24-I-34								1	9	6	1	0	0	0	0	4	0	0	0	0	1	7	7	0	5	0	0	0	0	0	0	0	0	0	0	0	0	
	12	25-I-34						1	5	2	5	5	3	0	0	2	†																							
	13	29-I-34																			3	0	1	0	1	1	0	0	0	0	0	0	0	0	†					
Leaf I	14	12-XII-33									1	0	3	0	3	2	5	5	2	0	2	4	5	5	5	5	3	3	4	5	5	5	4	3	1	4	3			
	15	12-XII-33									3	3	7	3	5	2	8	5	6	2	4	1	5	6	2	2	4	4	5	3	3	2	2	0	1	1	†			
	16	15-XII-33													3	2	0	1	2	1	0	0	1	†																
	17	7-I-34				3	4	1	5	2	3	6	3	7	7	8	5	6	3	7	5	5	5	0	3	6	6	7	5	3	2	6	4	5						
	18	11-I-34						10	5	1	1	1	4	4	6	4	3	6	6	11	11	5	4	7	5	10	4	8	5	7	3	5	2	1	1	0				
	19	12-I-34										2	4	5	2	3	0	1	7	5	3	2	†																	
	20	15-I-34								2	2	1	5	6	8	6	6	4	3	4	2	11	8	7	7	5	4	5	8	1	1	2	5	1	1	2	2			
	21	16-I-34						4	2	1	1	2	2	7	7	5	1	5	7	8	7	7	7	4	4	6	4	10	7	6	8	5	3	4	4	7	2			
	22	16-I-34																																						
	23	19-I-34								2	1	1	0	4	0	3	4	1	3	6	2	1	2	1	2	4	5	3	5	6	4	0	1	1	0	0	†			
	24	22-I-34									3	2	2	1	5	5	4	4	6	4	6	6	2	3	4	0	0	5	3	7	6	3	6	4	10	5	4	1		
	25	24-I-34						6	7	3	7	4	5	9	7	7	7	9	7	3	8	7	6	8	6	7	8	6	5	7	3	2	1	1	1	0	1	0		
26	27-I-34										2	7	6	9	2	7	3	6	3	8	4	7	7	3	2	8	1	2	9	4	4	6	6	3	4	7	4			

Longevity and number of eggs of *Helopeltis theivora* on two kinds of food.

36	37	38	39	40	41	42	43	44	45	47	48	49	50	Longevity in days	Total num- ber of eggs
														26	49
														10	0
6	6	8	2	8	6	†								33	95
														41	141
1	4	0	5	3	†									25	35
														40	68
														20	45
4	6	5	4	3	1	†								11	6
0	†													41	90
0	7	0	0	3	7	0	0	0	4	0	†			36	22
														46	68
														15	23
														30	6
3	4	4	2	2	1	†								41	100
†														35	92
5	6	3	1	5	5	5	†							22	10
0	2	1	†											42	157
														38	143
2	3	†												22	34
2	8	6	5	4	1	†								37	123
														41	171
														11	0
†														35	62
1	4	2	2	†										39	119
0	†													36	158
4	8	4	4	8	7	6	5	5	†					43	181

Quality of the food	No.	Date														
			2	3	4	5	6	7	8	9	10	11	12	13	14	15
Leaf I	1	19-II-34					1	2	2	1	6	9	9	6	4	
	2	21									2	4	4	4	2	
	3	22								1	1	2	3	3	2	
	4	22								1	3	1	2	7	6	
	5	23					1	6	8	6	11	11	6	5	6	
	6	24					1	0	0	2	3	2	2	2	6	
	7	24								2	2	3	3	1	0	
	8	27						3	5	3	0	2	5	3	3	
	9	27						2	6	4	2	5	6	6	7	
	10	28									2	3	3	4	2	
Leaf II	11	22						1	4	5	6	5	6	†		
	12	23							2	0	†					
	13	26							4	3	0	0	2	5	7	
	14	26							2	4	9	0	0	8	1	
	15	27		1	1	0	0	0	0	0	0	0	0	0	1	
	16	27								1	0	3	†			
	17	28					1	3	3	1	6	10	8	8	1	
	18	2-III										3	1	2	3	
Leaf A	19	19-II										3	2	0	2	
	20	22						5	4	3	2	4	4	5	6	
	21	22									3	4	5	4	2	
	22	23							3	1	0	2	2	1	1	
	23	24					1	3	7	4	5	3	5	8	4	
	24	26											9	3	0	
	25	26					2	6	7	3	2	5	0	3	7	
	26	27								1	0	†				
	27	27									1	1	1	3	4	
28	1-III									1	3	4	4	1		

Longevity and n

Tabel 7.

No.	Date	Number of eggs on each day of life.																													
		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	15-XI-34								†																						
2	16														2	2	0	0	0	0	2	5	1	4	4	4	4	2	3	4	7
3	17														2	2	0	0	0	0	0	0	2	2	4	0	3	4	1	3	3
4	23												3	1	†																
5	27				5	5	5	6	4	1	11	3	3	6	4	2	2	7	6	3	3	6	2	9	4	3	0	0	†		
6	13							8	4	0	8	4	3	1	9	10	6	2	6	6	8	1	5	3	4	3	2	7	2	2	
7	16				1	3	1	9	3	3	8	10	5	6	12	3	3	5	2	2	4	1	3	3	6	4	0	0	0	2	
8	16						9	3	4	3	6	2	4	6	1	9	8	5	2	3	4	2	3	2	3	7	4	3	5	3	
9	20				9	9	2	3	11	6	7	6	6	9	0	0	6	2	3	2	2	3	4	5	2	2	2	2	1	1	
10	21					11	1	3	2	6	7	6	7	2	1	6	1	3	3	2	4	8	7	6	4	3	4	1	3	2	
11	26				5	3	2	5	0	4	2	5	3	3	8	7	6	9	9	6	5	6	0	4	4	5	1	1	1	1	
12	28					9	1	0	3	9	6	5	12	5	7	1	6	2	2	3	2	4	8	6	3	2	2	1	†		
13	12								7	2	5	9	6	11	4	5	6	7	3	6	5	2	7	5	3	2	4	3	6	1	
14	16					2	1	5	8	8	7	1	3	0	3	4	4	2	2	†											
15	16								3	2	0	2	1	3	5	4	3	2	1	1	1	3	2	1	6	†					
16	20				7	6	5	9	5	6	8	9	8	6	6	2	2	8	6	6	8	9	5	5	7	5	4	2	6	5	
17	21					8	6	7	10	3	2	2	6	14	7	9	4	6	6	0	0	3	6	9	4	3	†				
18	26						†																								
19	1-XII-34				1	2	1	0	0	2	4	1	5	3	2	2	3	1	5	6	2	1	1	0	0	0	4	5	3	3	
20	15								†																						
21	15								†																						
22	17				2	1	1	3	3	3	2	0	4	3	†																
23	17				7	2	2	0	0	†																					

Longevity and number of eggs of *Helopeltis t*

34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	Longevity in days	Total num- ber of eggs
																9	0
2	2	3	1	3	1	0	†									40	64
4	2	0	3	2	1	1	†									40	44
																15	4
																29	100
3	2	3	1	0	0	3	2	0	0	2	1	1	†			46	130
1	0	0	0	0	†											38	103
0	3	1	†													36	109
2	2	1	0	†												37	122
1	1	0	0	†												37	113
																31	105
																29	99
																32	113
																20	50
																26	40
5	4	1	1	0	2	1	1	1	†							42	178
																27	115
																7	0
7	8	†														35	57
																9	0
																9	0
																15	22
																10	11

n four kinds of food.