



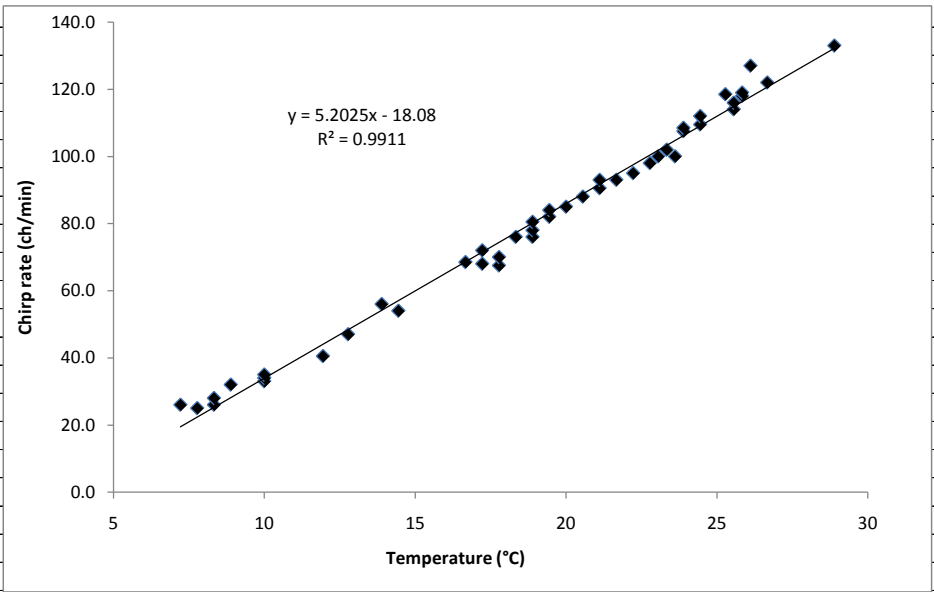
Holotype of *Oecanthus alexanderi*.  
Dorsal and dorso-lateral views.  
Photographs by Nancy Collins





BBF 1925, Fig.4: data for *O. rileyi* (as estimated from measurements made with a mm rule on an enlarged version of the figure)

Data read from points on published graph					Trend line
Data pt	o=outdoors i=indoors	F temp (est)	C temp (calc)	ch/min (est)	
1	o	46.0	7.78	25.0	
2	o	47.0	8.33	26.0	
3	o	45.0	7.22	26.0	
4	o	47.0	8.33	28.0	
5	o	48.0	8.89	32.0	
6	o	50.0	10.00	33.0	
7	o	50.0	10.00	34.0	
8	o	50.0	10.00	35.0	
9	o	53.5	11.94	40.5	
10	o	55.0	12.78	47.0	
11	o	58.0	14.44	54.0	
12	o	57.0	13.89	56.0	
13	o	64.0	17.78	67.5	
14	o	63.0	17.22	68.0	
15	i	62.0	16.67	68.5	
16	o	64.0	17.78	70.0	
17	o	63.0	17.22	72.0	
18	o	65.0	18.33	76.0	
19	o	66.0	18.89	76.0	
20	i	66.0	18.89	78.0	
21	o	66.0	18.89	80.5	
22	o	67.0	19.44	82.0	
23	i	67.0	19.44	84.0	
24	i	68.0	20.00	85.0	
25	i	69.0	20.56	88.0	
26	i	70.0	21.11	90.5	
27	o	70.0	21.11	93.0	
28	i	71.0	21.67	93.0	
29	i	72.0	22.22	95.0	
30	i	73.0	22.78	98.0	
31	i	73.5	23.06	100.0	
32	i	74.5	23.61	100.0	
33	i	74.0	23.33	102.0	
34	o	75.0	23.89	107.5	
35	o	75.0	23.89	108.5	
36	o	76.0	24.44	109.5	
37	o	76.0	24.44	112.0	
38	o	78.0	25.56	114.0	
39	i	78.0	25.56	116.0	
40	o	78.5	25.83	118.0	
41	o	77.5	25.28	118.5	
42	o	78.5	25.83	119.0	
43	i	80.0	26.67	122.0	
44	o	79.0	26.11	127.0	
45	i	84.0	28.89	133.0	



Temperature at  $\hat{y}=0$  is 3.5°C.  
n=45

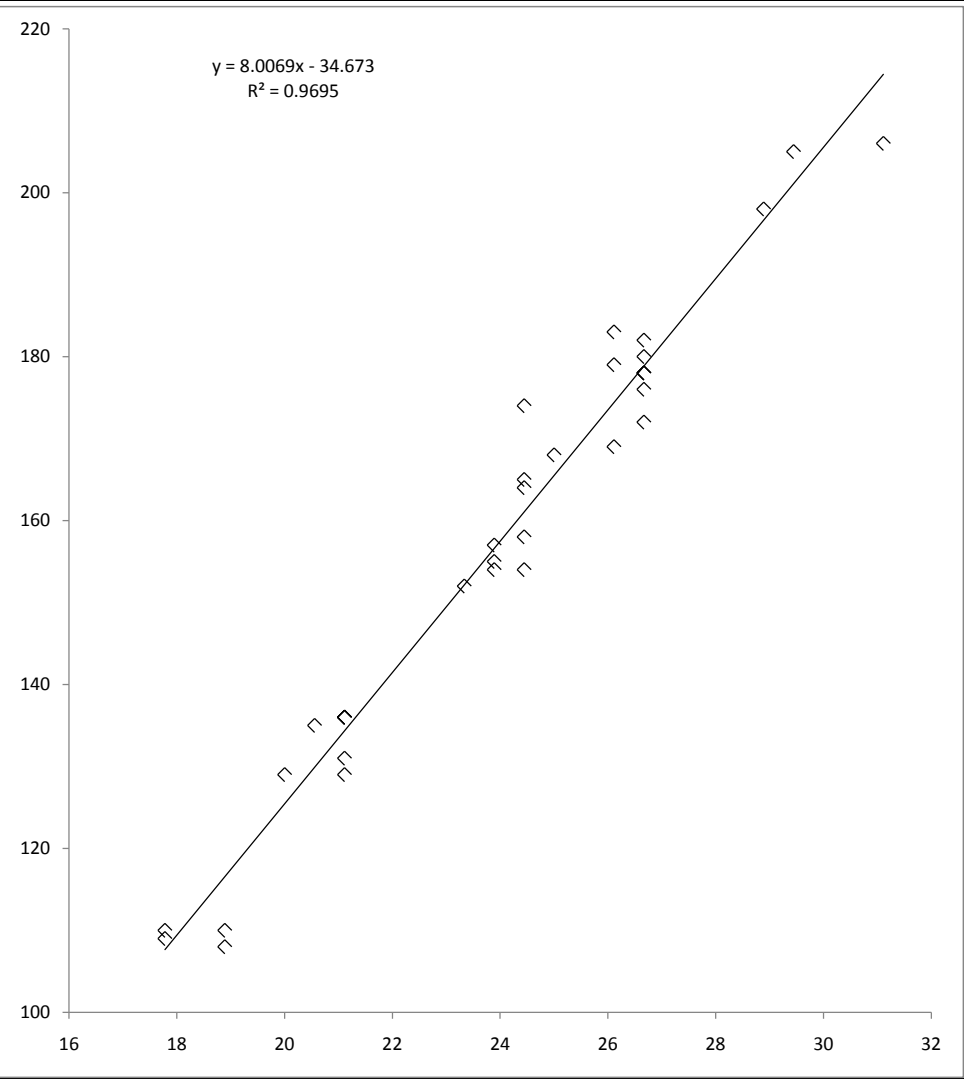
**Walker TJ. 1962. Ann. Entomol. Soc. Am. 55 (3): 303-322.**

Data from Fig. 12. Effect of temperature on chirp rate in *Oecanthus fultoni*, laboratory recordings.

(as estimated from measurements made with a mm rule on an enlarged version of the figure)

Data read from points on published graph				
Data pt	F temp (est)	County	C temp (calc)	ch/min (est)
1	64	Franklin	17.78	109
2	64	Franklin	17.78	110
3	66	Erie	18.89	108
4	66	Franklin	18.89	110
5	68	Franklin	20.00	129
6	69	Franklin	20.56	135
7	70	Franklin	21.11	129
8	70	Franklin	21.11	131
9	70	Erie	21.11	136
10	70	Erie	21.11	136
11	70	Franklin	21.11	136
12	70	Franklin	21.11	136
13	74	Erie	23.33	152
14	75	Franklin	23.89	154
15	75	Franklin	23.89	155
16	75	Franklin	23.89	157
17	76	Franklin	24.44	158
18	76	Franklin	24.44	164
19	76	Franklin	24.44	154
20	76	Franklin	24.44	165
21	76	Franklin	24.44	174
22	77	Franklin	25.00	168
23	79	Franklin	26.11	169
24	79	Franklin	26.11	179
25	79	Franklin	26.11	183
26	80	Erie	26.67	172
27	80	Franklin	26.67	176
28	80	Franklin	26.67	178
29	80	Franklin	26.67	178
30	80	Erie	26.67	178
31	80	Erie	26.67	180
32	80	Franklin	26.67	182
33	84	Franklin	28.89	198
34	85	Franklin	29.44	205
35	88	Erie	31.11	206

This data set was re-created *only* in order to obtain a value for  $r^2$ , which was not otherwise available.



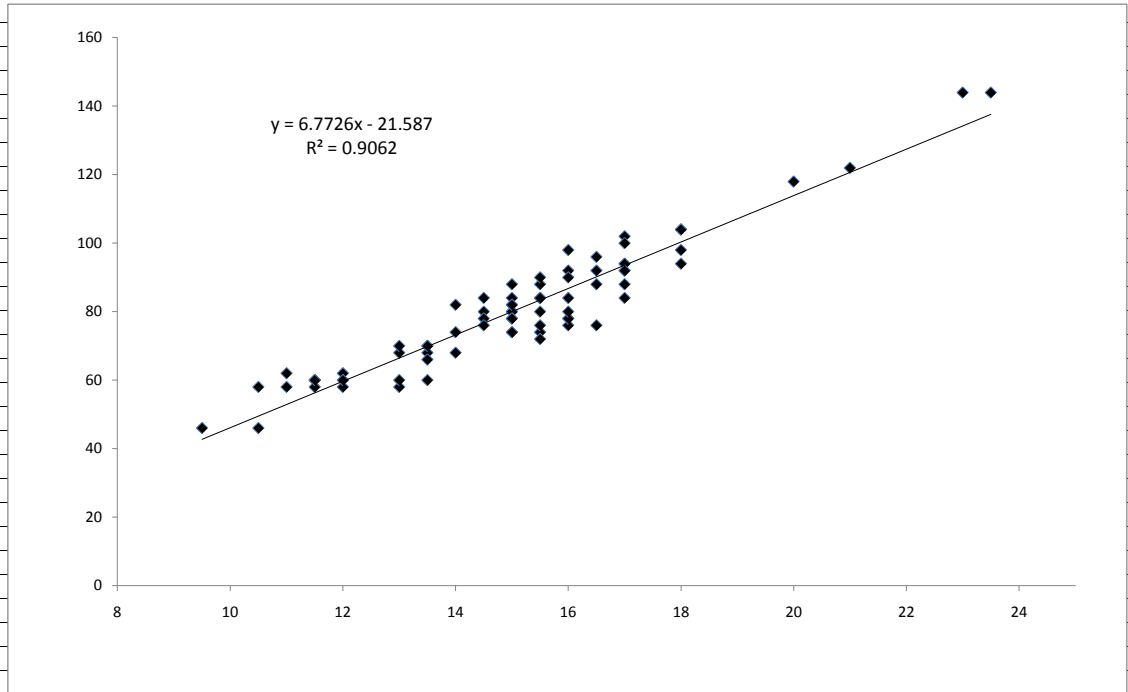
Published formula for trend line (as calculated from the original data for chirp rate and Fahrenheit temperature):	
$\hat{y} = 4.560x - 184.53$	
For Celsius this converts to:	
$\hat{y} = 8.208x - 38.61$	
Temperature at $\hat{y}=0$ is 4.7°C.	

Temperature at  $\hat{y}=0$  is 4.3°C.  
n=35

Block, B C. 1966. The relation of temperature to chirp-rate of male snowy tree crickets, *Oecanthus fultoni* (Orthoptera: Gryllidae). Ann. Entomol. Soc. Am. 59(1): 56-59.

Data from Table 1 in Block 1966

9.5	46
10.5	58
10.5	46
11	62
11	58
11.5	60
11.5	60
11.5	58
11.5	60
12	62
12	60
12	58
12	60
13	68
13	70
13	58
13	60
13.5	70
13.5	68
13.5	66
13.5	70
13.5	60
14	68
14	82
14	74
14.5	84
14.5	80
14.5	78
14.5	76
15	74
15	74
15	84
15	82
15	88
15	80
15	80
15	78
15	82
15	78
15.5	74
15.5	76
15.5	72
15.5	88
15.5	84
15.5	90
15.5	80
15.5	84
15.5	84
16	76
16	98
16	84
16	78
16	78
16	92
16	90
16	80
16.5	76
16.5	96
16.5	88
16.5	92
17	102
17	100
17	84
17	94
17	92
17	94
17	92
17	88
18	98
18	104
18	104
18	94
20	118
21	122
23	144
23.5	144



Temperature at  $\hat{y}=0$  is 3.2°C.  
n=77

The above graph provides no empirical basis for the statement by Block (1966, p. 56) that "An exponential relationship between chirp-rate and temperature was demonstrated)."