Table (3): Multi-factor simple correlation, simple regression and multiple regression analysis between weekly catch of *B. zonata* and the prevailed weekly means of temperatures and R.H% during the two years of study, 2021-2022 / 2022-2023.

Season	Host	Abiotic factor	Simple correlation			Simple regression					Multiple regression			
			r	Se (±)	P	R	b	Se (±)	a	p	R	p	R²	E.V %
2021-2022	Mango	Mean of Temp. ˚C	0.859	0.161	0.0003***	0.828	13.91	2.616	-161.3	.0003***	10.66	.0003***	0.877	87.7
		R.H.%	-0.552	0.264	.0629 ns	-0.489	-6.408	3.063	503.5	.0629 ns	-1.547	.0876 ns		
	Citrus	Mean of Temp. ˚C	0.35	0.132	.0102 *	0.353	0.716	0.133	13.75	.0102 *	0.798	.000 ***	0.841	
		R.H.%	-0.006	0.141	.9643 ns	-0.006	-0.009	0.141	30.31	.9643 ns	0.224	.0030 **		84.1
2022-2023	Mango	Mean of Temp. ˚C	0.889	0.145	.0001 ***	0.879	16.181	2.640	-214.9	.0001***	12.07	.0003***	0.901	90.1
		R.H.%	-0.426	0.286	.1671 ns	-0.359	-6.131	4.115	484.4	.1671 ns	-2.193	.0478 *		
	Citrus	Mean of Temp. ˚C	0.306	0.135	.0274 *	0.306	0.668	0.135	17.48	.0423 *	0.692	.0006 ***		
		R.H.%	0.197	0.139	.1608 ns	0.197	0.323	0.139	15.72	.1608 ns	0.326	.0003 ***	0.890	89.0

* Significant   ** Highly Significant   (r): correlation co-efficient   Se (±): Standard error
a: Intercept   (R): The multiple regressions co-efficient R^2: Adjusted multiple regression   E.V: Explained variance

Table (4) Numbers of flies/trap of *B. zonata* for three weeks using Jackson sticky traps with methyl eugenol in the two farms at Sharkia Governorate, Egypt.

Treatments	Conc. (mg/l)	Farm 1			Total	Inhibition %	Farm 2			Total	Inhibition %
		Periods (week)					Periods (week)				
		1	2	3			1	2	3		
Control	—	143± 18 [a]	160± 21 [a]	119± 34 [a]	422	-	105± 25 [a]	98± 16 [a]	120± 22 [a]	323	-
Spinosad	480	23± 5 [b]	39± 21 [b]	67± 25 [ab]	129	69.43	19± 6 [b]	31± 8 [b]	54± 12 [b]	104	67.80
Alpha-1	437.5	17± 8 [b]	26± 11 [b]	43± 16 [b]	86	79.62	16± 6 [b]	27± 2 [b]	38± 12 [b]	81	74.92
Spinosad+ Alpha-1	240+ 218.7	11± 3 [b]	24± 8 [b]	39± 18 [b]	74	82.46	9± 1 [b]	16± 2 [b]	29± 6 [b]	54	83.28
Indoxacarb+ Alpha-1 + Clorfenapyr	112.5+ 218.7+144	31± 12 [b]	44± 13 [b]	51± 18 [b]	126	70.14	22± 4 [b]	41± 12 [b]	65± 17 [b]	128	60.37

The same letter on top of averages indicates that the difference among them was not statistically significant, while different letters indicate significantly different values (Tukey's honestly significant difference test at $P \leq 0.05$, n = 3).