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Supplementary Materials

Population Dynamics of the Olive Fly, *Bactrocera oleae* (Diptera: Tephritidae), Are Influenced by Different Climates, Seasons, and Pest Management

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Supplementary Materials:

Details for spaying events on Samos island

On Samos, in 2017, a pyrethroid insecticide (lambda-cyhalothrin 10%) was used in the first spraying which was the only one that covered all areas (first 10 days of July), combined with 2% of protein lure (Dacus bait 100SL). It was also used in all local sprayings in August. In September, the ready-made bait Success 0.24CB (spinosad 0.0024%) was applied and in October, the insecticide Biscaya 240 OD (thiacloprid 24%) was used again with protein lure. In 2018, the first spraying was applied the last 10 days of June with Karate Zeon 10SC (lambda-cyhalothrin 10%) and the next four months local sprays with Biscaya 240 OD (thiacloprid 24%), Novadim 40 EC (dimethoate 40%) and Success 0.24 CB (spinosad 0.0024%).On the contrary in 2019, the first spraying was applied with Forza 10 CS (lambda-cyhalothrin 10%) and then with Novadim 40EC (dimethoate 40%) and Success 0.24 CB (spinosad 0.0024%) until the first 15 days of October.

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Table S1. Statistical analysis OFF in traps, for 3 years period.

Paired Samples Test		t	df	Sig. (2-tailed)
Pair 1	Total_17 - Total_18	-11,959	373	,000
Pair 2	Total_18 - Total_19	5,472	373	,000
Pair 3	Total_17 - Total_19	-7,736	373	,000

Table S2. Statistical analysis of R-core Data Analysis results

Correlation S:	Interception	Altitude	Spray	1st 10days	2nd 10days	3rd 10days	1st :2nd 10days
Altitude	-0,529						
Spray	-0,191	0,025					
1st 10days	-0,159	-0,090	-0,174				

Correlation S:	Interception	Altitude	Spray	1st 10days	2nd 10days	3rd 10days	1st :2nd 10days
2nd 10days	-0,067	-0,015	0,083	-0,174			
3rd 10days	-0,285	0,097	-0,074	0,191	-0,395		
1st:2nd10days	-0,028	0,102	0,093	-0,166	-0,549	0,462	
1st:3nd10days	0,237	-0,020	0,093	-0,568	0,062	-0,628	-0.367