



Supplementary files

Table S1. Standard amounts of macronutrients for the juvenile unproductive phase fertilization of olive growing, according to the DIP of Apulia region, both for the integrated and organic management.

Juvenile unproductive phase fertilization	
1° year (kg/ha)	
N	20
P ₂ O ₅	15
K ₂ O	20
2° year (kg/ha)	
N	30
P ₂ O ₅	25
K ₂ O	40
3° year (kg/ha)	
N	30
P ₂ O ₅	50
K ₂ O	60
4° year (kg/ha)	
N	60
P ₂ O ₅	50
K ₂ O	60

Table S2. Standard amounts of macronutrients for the adult phase fertilization of olive growing, according to the DIP of Apulia region.

Adult phase fertilization		
	Integrated farming (INT)	Organic farming (BIO)
N	120	120
Nitrogen fertilizer	Urea	Pelleted organic fertilizer
P ₂ O ₅	50	20
Phosphate fertilizer	Superphosphate	Pelleted organic fertilizer
K ₂ O	120	120
Potassium fertilizer	Potassium sulphate	Pelleted organic fertilizer

Table S3. Control of the most common diseases, phytophagous and weed in Apulia region, both for INT and for BIO farming.

Diseases control		
	Integrated farming (INT)	Organic farming (BIO)
Spilocea oleagina		
Mycocentrospora cladosporioides		Copper oxychlorides
Pseudomonas syringae sp. Savastanoi		
Number of treatments/yr		3
Commercial product used		Ossiclor 35WG
Single treatment amount (kg/ha)		3
Total amount/yr		9
Phytophagous control		
	Integrated farming (INT)	Organic farming (BIO)
Prays oleae	Dimethoate	Bacillus Thuringiensis
Number of treatments/yr		1

Commercial product used	Rogor L40	Kristal 32 WG
Active ingredient quantity for each treatment/ha	0.48 kg	0.8 kg
<i>Bactrocera oleae</i>	Dimethoate + Acetamiprid	Spintorfly
Number of treatments/yr	1 + 1	5
Commercial product used	Rogor L40 + Epik SL	Spinosad
Active ingredient quantity for each treatment/ha	0,48 + 0,1 g	0,24 g
<i>Saissetia oleae</i>	Summery mineral oil + Fosmet	Summery mineral oil
Number of treatments/yr	1 + 1	2
Commercial product used	Oliocin + Suprafos EC	Oliocin
Active ingredient quantity for each treatment/ha	1,39 kg + 0,75 kg	1,39 kg
<i>Palpita unionalis</i>	Bacillus Thuringiensis	Bacillus Thuringiensis
Number of treatments/yr	1	1
Commercial product used	Kristal 32WG	Kristal 32WG
Active ingredient quantity for each treatment/ha	0.8 kg	0.8 kg
Weed control		
	Chemical weeding (INT)	Mechanical weeding (BIO)
Number of treatments (or soil tillage)/yr	2	3 o 4
Commercial product used/machinery	Glyphosate	Harrow
Active ingredient amount for each treatment/ha	0.72 kg	/