

## Supplementary material S1

**Table S1.** Pesticides and fertilizer applications in organic and conventional olive groves in Pyllia province

Organic grove - 1	<ul style="list-style-type: none"> <li>• Fertilization with boron pre-flowering and potassium plus magnesium during fruit growing</li> <li>• Copper spray application against bacteria and disease infestation (thrice)</li> <li>• Spinosad spray application against olive fruit fly (twice)</li> </ul>
Organic grove – 2	<ul style="list-style-type: none"> <li>• Fertilization with boron pre-flowering and potassium plus magnesium during fruit growing</li> <li>• Copper spray application against bacteria and disease infestation (thrice)</li> <li>• Spinosad spray application against olive fruit fly (twice)</li> </ul>
Organic grove – 3	<ul style="list-style-type: none"> <li>• Fertilization with sheep manure and boron (pre-flowering)</li> </ul>
Conventional grove -1	<ul style="list-style-type: none"> <li>• Fertilization with boron and nitrogen pre-flowering</li> <li>• Copper spray application against bacteria and disease infestation (twice)</li> <li>• Spray application against olive fruit fly (twice)</li> <li>• Spray application against colletotrichum (twice)</li> </ul>
Conventional grove -2	<ul style="list-style-type: none"> <li>• Fertilization with NPK fertilizer plus microelements</li> <li>• Copper spray application against bacteria and disease infestation (once)</li> <li>• Spray application against olive fruit fly (twice)</li> </ul>
Conventional grove -3	<ul style="list-style-type: none"> <li>• Fertilization with NPK and organic matter</li> <li>• Foliar fertilization with amino acids</li> <li>• Spray application against bacteria and disease infestation (once)</li> <li>• Spray application against olive fruit fly (twice)</li> </ul>

**Table S2.** Pesticides and fertilizer applications in organic and conventional olive groves in Raches province

Organic grove - 1	<ul style="list-style-type: none"> <li>• Fertilization with boron, organic matter (sheep manure), potassium sulfate and nitrogen</li> <li>• Copper spray application against bacteria and disease infestation (twice)</li> <li>• Spinosad spray application against olive fruit fly (thrice)</li> </ul>
Organic grove – 2	<ul style="list-style-type: none"> <li>• Fertilization with organic matter (horse manure)</li> <li>• Copper spray application against bacteria and disease infestation (twice)</li> </ul>
Organic grove – 3	<ul style="list-style-type: none"> <li>• Fertilization with boron, potassium sulfate and nitrogen</li> <li>• Copper spray application against bacteria and disease infestation (twice)</li> <li>• Spinosad spray application against olive fruit fly (thrice)</li> </ul>
Conventional grove -1	<ul style="list-style-type: none"> <li>• Fertilization 24-8-16 (N-K<sub>2</sub>O-P<sub>2</sub>O<sub>5</sub>), boron and magnesium and foliar application of boron and nitrogen pre-flowering</li> <li>• Copper spray application against bacteria and disease infestation (twice)</li> <li>• Spray application against olive fruit fly (twice)</li> </ul>
Conventional grove -2	<ul style="list-style-type: none"> <li>• Fertilization with 21-8-16 (N-K<sub>2</sub>O-P<sub>2</sub>O<sub>5</sub>), boron and other microelements</li> <li>• Copper spray application against bacteria and disease infestation (once)</li> <li>• Spray application against olive fruit fly (twice)</li> </ul>
Conventional grove -3	<ul style="list-style-type: none"> <li>• Fertilization with 21-7-14 (N-K<sub>2</sub>O-P<sub>2</sub>O<sub>5</sub>) plus boron and magnesium</li> <li>• Spray application against bacteria and disease infestation (once)</li> <li>• Spray application against olive fruit fly (twice)</li> </ul>