



## Practice Abstract N° 24

## Weed management in olives in an organic system, Cyprus

## INTRODUCTION

In the olive plantation in Cyprus, four cover crop treatments and four weed management practices were evaluated. The cover crops sown in winter were: *Vicia spp.* (seeding rate 24 kg ha<sup>-1</sup>), *Pisum sativum* (seeding rate 22 kg ha<sup>-1</sup>) and the triple species mixture of *Vicia spp.* + *P. sativum* + *Triticum durum* (seeding rate 8 + 8 + 4 kg ha<sup>-1</sup>). An untreated control without cover crop was also included. In the plots with cover crops, the following four weed management practices were tested: untreated control, mechanical weed control by mowing, mulching (placing 20 cm straw under the experimental trees) and mechanical weed control by hoeing.

## MAIN RESULTS – OUTCOMES

- ✎ *Vicia spp.* was selected for future trials due to its low growth height, which minimizes interference with farm operations and reduces fire and snake habitat risks
- ✎ The combination of the cover crop *Vicia spp.* x rotary tillage, *Vicia spp.* x mulching and Pea x mowing resulted in a low weed biomass
- ✎ Weed biomass was significantly higher in untreated cover crop plots, with *Vicia spp.* x untreated control and *P. sativum* x untreated control, potentially due to nitrogen availability promoting weed growth



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## PRACTICAL RECOMMENDATIONS

- 1 Mulching and mowing consistently reduced weed biomass across treatments and should be considered for sustainable weed management in olive orchards
- 2 Combining *Vicia spp.* with rotary tillage, *Vicia spp.* with mulching, and *P. sativum* with mowing resulted in the lowest weed biomass



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