

THREATS TO BE ADDRESSED ...

Soil erosion

Loss of soil organic matter content

Three Land Management Practices (LMPs) are applied in the olive groves of Crete: (A) no tillage – no herbicide application, (B) no tillage – herbicide application, and (C) tillage perpendicular to the contour lines using a disc harrow at a depth of 20 cm once per year



LMP C showed the following effects compared to A and B:

Higher surface rain water runoff and sediment loss

Lower amount of water stored into the soil Lower organic matter in the soil



LMP A showed the following effects compared to B and C:

Lower surface rain water runoff Nil soil sediment loss Higher amount of water stored into the soil

Higher organic matter content in surface horizon





LMP B showed the following effects

Lower surface rain water runoff. Intermediate soil sediment loss Comparable amounts of water stored into the soil

Higher amount of organic matter content



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