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# Sustainable strategies for soil and water conservation in hillslope farming

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Semi-natural vegetation and diverse cropping systems have been converted into monocultures with low tree densities, leaving the soil unprotected in marginal areas in south-eastern Spain. We monitored the association in soil and water conservation systems in almond (*Prunus amygdalus* Basch cv. Desmayo Langueta) plantations and the effect of plant strips. Soil loss and runoff were studied in hillslope erosion plots with almond trees under soil-management systems: (1) non-tillage with rosemary (*Rosmarinus officinalis* L.) strips 3 m wide (ROS), (2) non-tillage with thyme (*Thymus baeticus* L. Boiss. exlaccata) strips (THS), and (3) Conventional Tillage (CT) on the south flank of the Sierra Nevada (SE Spain). Also, the nut yield from almond trees, and the biomass from aromatic-shrub strips were recorded. Our findings showed that the most effective treatment proved to be THS, reducing the annual soil loss by 93% and runoff by 80%, with respect to CT. The ROS system reduced soil loss by 91% and runoff by 82%, with respect CT. The average nut yield from ROS, THS and CT during the study period was 3.2, 3.8 and 4.5 kg tree<sup>-1</sup>, respectively, and the potential average essential oil yield from ROS, THS and CT was 8.7 and 10.8 L ha<sup>-1</sup>, respectively. The non-tillage with thyme strips decreased the soil erosion and runoff rates and thus had a positive impact on the environment while simultaneously maintaining

reasonable almond-production levels. The thyme and rosemary strips led to a loss in the almond harvest, a loss that could be offset by the economic value of the thyme and rosemary crops. Thus, the combination of orchard trees with shrubs provided a viable option to conserve soil and water in hilly areas in the context of sustainable agriculture.

## Biography

Victor Hugo Duran Zuazo is a researcher at Institute of Agricultural Research IFAPA, Centro Camino de Purchil (Granada, Spain). He has coordinated research projects in the area of natural resources and agriculture at regional, national and EU level. Since 2009 Victor is the head of the Conservation and Sustainable Use of Soil, Water & Biodiversity in Agricultural Systems research group (AGR-144). He deals with land- and water-management interventions in Mediterranean agroforestry systems, with the aim of preventing, reducing or recovering losses of soil, water, and biodiversity. In terms of knowledge and research, the focus by his research group is on sustainable land management, specifically: land-degradation processes; conservation measures and interventions at both field and watershed scale; and the harmony of sustainable management practices that encourage productivity, climate-change mitigation, soil quality, and water-use efficiency.

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# Conservation Policies For Sustainable Hillslope Farming

**Sitanala Arsyad**



## **Conservation Policies For Sustainable Hillslope Farming:**

*Conservation Policies for Sustainable Hillslope Farming* Sitanala Arsyad, 1992      **International Workshop on Conservation Policies for Sustainable Hillslope Farming**, 1991      *Cutting Across the Lands* Eveline Ferretti, 2018-05-31 An annotated bibliography focused on Borneo and the Southern Philippines With over 1 000 citations this reference work identifies patterns of forestland transformation common to the areas under consideration A subject index is included      *Development of Conservation Farming on Hillslopes* W. C. Moldenhauer, 1991 Various contributions on history policy and strategy practical experiences research and case studies cover the whole field of conservation farming

**Special Reference Briefs**, 1983      **Hydrological Problems and Environmental Management in Highlands and Headwaters** Martin Haigh, 2017-10-19 This set of papers presents a description of the synthesis of hydrological problems and various environmental implications and management strategies for different highland and headwater regions of the world Regions covered include the Himalayas Russian mountains Amazonia and upland Wales      **International Workshop on Conservation Farming for Sloping Uplands in Southeast Asia: Challenges, Opportunities, and Prospects**, 1995

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