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Aquaponic system

A sustainable production form in Family Farming and periurban area

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Abstract: Aquaponics is a food culture system that involves the integration of hydroponics and aquaculture with recirculation of water and nutrients. Due to its sustainable characteristics, it presents alternatives for the production of animal protein and olerícolas in an integrated way, less impacting the ecosystem. For the development of this essay, a methodological structure of an applied nature and of a scientific character with a qualitative-quantitative approach was adopted, it is a descriptive and experimental research. The data were collected through field research in triangulation with the bibliographic reference. Taking into account the sustainability and practicality of the aquaponic system, the purpose of this work was to survey the cost for the small-scale implementation of the system for family agriculture and peri-urban areas, as well as to present the step-by-step driving the system. The practical experiment consisted of 27 kilos of fish fed with ration referring to 2% of its live weight, the residues nourished 144 seedlings of the Crespa Lettuce. The aquaponic system for family and peri-urban agriculture tends to be a sustainable alternative, presenting low implantation costs, the practicality of management and healthier production due to the organic nutrition of the plants and the non-use of chemicals in the system.
Keywords: Greenery; Consortium; Sustainable Production; Family Farming.

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