AMEND CONTINUE

4th International Conference on Global Food Security 2020 | Online and On Demand

Submission ID

498

Title (read-only)

Produce of chickens integrated in diversified urban and peri-urban yards for food and nutrition security of families and reduced food waste

Abstract (read-only)

Part of population living on the outskirts of the city is poor and has difficult to obtain the food. In addition, the domestic organic waste produced is placed in plastic bags contaminating the environment. Small urban and peri-urban yards can contribute to ensuring healthier food for families and the transformation of organic residue into food again. It´s possible to cultivate fruit trees and produce vegetables in the yards but the animal component isn't well accepted in urban agroecosystems. However, the animals are important to vermicomposting and to transform food leftover in high quality food.

This study was realized to develop a security chicken management system compatible with diversified small urban yards. Information about the yards and the difficulties about raising chickens were discussed at meetings with rural and urban communities. The aerial image maps of yard were used to develop the structure and management of chicken.

It's recommended to raise only females in the yards to produce non-embryonated eggs. The approach of family farmers who may be providing young females adapted to local environmental conditions is essential. The yard needs to have spaces for diversified grazing with plants that contribute to the feeding of the chickens, as well as nests and perches that facilitate the collection of manure. The vegetable garden should be protected from the chickens and mobile chicken houses are interesting in preparation of the vegetable beds. The amount of chickens depends on the area, diversity of the yard and amount of domestic organic waste. Equilibrium occurs when more than 80% of chicken food is produced in the household yard and 100% of organic waste is used in the agroecosystem.

It's possible to raise chickens in periurban and urban lands to produce food in quantity with high quality to the families as well as reducing food waste.

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Categories (read-only)

Circularity in food systems at local, regional or global levels

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Yes

Keyword1

agriculture urban

Keyword2

animal production

Keyword3

food waste

Keyword4

food savety

Presentation (read-only)

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