

## Utilization of Yard Land to Support Food Security in Kandai Satu Village

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### ABSTRACT

Food security will continue to be a food problem in most countries in the world. This is because along with the increasing population, purchasing power and global climate dynamics also increase. Various kinds of efforts have been made to build food security both within the family and the wider community, one of which is by utilizing yards. The purpose of this community service program is for the community to be able to use their yards with productive plants for family food availability, increase family income, and medicine, and also effort to increase food security. Various social, cultural, and economic problems are still encountered in every program of utilizing community yards, including the not yet optimal use of yards, still part-time and not yet market-oriented, as well as a lack of assistance from officials who have not been adequate and evenly distributed. Therefore, careful planning and cross-sectoral support are needed in optimizing the use of yards so that they can contribute to supporting food security. Kandai Satu Sub-District is an area that has an average of yards belonging to the moderate to large yards group so that the utilization of yards can be done by combining various types of productive plants, including a combination of medicinal plants, fruits, vegetable plants, food plants, and other local plants. adapted to the size of the yard. Therefore, careful planning and cross-sectoral support are needed in optimizing the use of yards so that they can contribute to supporting food security. Kandai Satu Sub-District is an area that has an average of yards belonging to the moderate to large yards group so that the utilization of yards can be done by combining various types of productive plants, including a combination of medicinal plants, fruits, vegetable plants, food plants, and other local plants. adapted to the size of the yard. Therefore, careful planning and cross-sectoral support are needed in optimizing the use of yards so that they can contribute to supporting food security. Kandai Satu Sub-District is an area that has an average of yards belonging to the moderate to large yards group so that the utilization of yards can be done by combining various types of productive plants, including a combination of medicinal plants, fruits, vegetable plants, food plants, and other local plants. adapted to the size of the yard.

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## INTRODUCTION

Food security, which is the main problem, is still revolving around threats to community security. This is especially the occurrence of food insecurity in various regions. The condition of not achieving ideal food security at the regional or household/individual level is an ongoing problem. Food insecurity can occur repeatedly at certain times (chronic) and can also occur due to emergencies such as natural disasters or social disasters (transients). The Ministry of Agriculture's Center for Food Availability and Insecurity noted that there are 100 districts out of 349 districts in Indonesia that are potentially food insecure. These areas have high food needs but have problems related to the lack of support for planting food crops and the low accessibility of the community to food.

Apart from the potential for food insecurity, another problem is that at the level of consumption, a portion of Indonesia's population is still below the nutritional recommendations (proxied by the Expected Food Pattern/PPH) or does not meet good nutritional intake. Therefore, the utilization of the yard is one of the efforts that can be made to increase food security and improve nutrition in the family, which is done easily and affordably by utilizing the available and available resources in the environment. One of these efforts can be done through the use of yards managed by households (Ashari, Saptana, and Purwantini 2016).

Food availability is one of the mandatory conditions for achieving food security status in a country. To obtain sufficient food availability, it is necessary to use all available land resources in a good and planned manner, including home gardens. In the community (especially in rural areas), the use of yards to meet family needs has been going on for a long time. However, most of them are only part-time to fill their free time and are prioritized for fulfilling household needs. A yard is a land use that can be utilized as a small-scale additional food production system for and by household members and is a layered canopy ecosystem.

The yard has clear boundaries, as a whole consisting of the house, kitchen, peccuren/courtyard, pecceren, pawuhan, cages, plegongan, and fences. The yard is a piece of land that is located directly around the house and has clear boundaries. Because of its location around the house, the yard island is easily cultivated by all family members by utilizing the free time available (Ashari, Saptana, and Purwantini 2016). Yard land is one of the potential lands that can be used to grow plants such as ornamental plants, fruits, vegetables, spices, and medicines. The role and use of yards varies from one region to another, and this is also influenced by the level of needs, socio-culture, community education, as well as physical and ecological factors in the local area (Al Fatina et al. 2021). There is still a lack of knowledge about one Kandai community. Utilization of the yard if it can manage properly will have the potential to increase family income, so the role of the yard can indirectly affect the household economy, lack of understanding of the community about the use of the yard which is only used as land for planting ornamental plants but can also be used for planting productive plants such as vegetables, fruits, and medicines so that they can also increase food security.

## PROBLEM

Until now the use of the yard by the community in the Kandai Satu Dompok Sub-District has not been carried out optimally, even though the average Kandai Satu sub-district community's yard is relatively wide, if the residents' yards are planted with various types of productive plants then it can help the community meet their daily needs, besides it can also be used as an additional family income in addition to improving health status as well as improving the community's economy. Optimizing the use of yards by planting various types of crops can meet the food needs of the community as well as increase people's income. The yard has many functions, including as an additional food producer, additional money producer, and living pharmacy producer. Therefore, garden plants must meet the components of efficiency in the production of nutrients, namely production and high nutrient content, and are beneficial to the community. Based on the explanation, extension activities on the use of yards as a food security effort are carried out.

## METHOD

It is hoped that the implementation of community service activities in the Kandai Village will have a positive impact on the community. This community service will not be maximized if it is not carried out in a structured manner, so the implementation of this community service through several stages or study methods used to solve existing problems, including the following:

1. Preparation phase

Before carrying out the activity, there were several preparatory stages of this activity which included a literature study, a preliminary survey to identify problems, arranging permits for the implementation of the activity, and socializing the activity plan to community leaders.

## 2. Implementation Stage

This activity uses an extension strategy model with an approach method that emphasizes community involvement, especially in the Kandai Satu village community. Counseling on the use of yard land with medicinal plants, vegetables, and fruits then carried out demonstrations and implementation of planting media preparation, planting, and maintenance of yard plants.

## 3. Evaluation

- a. Health Improvement Based on Counseling and demonstrations regarding the use of yards in the Kandai Satu Dompus sub-district to improve health status and efforts to support food security. The roles of lecturers and students are by the assigned tasks, conducting counseling, and demonstrating planting activities using yards as an effort to food security.
- b. The process of carrying out activities starts from counseling at 09.00 until finished, then proceeds with demonstrations of planting medicinal plants, vegetables, and fruits
- c. The purpose of this activity is that the community able to utilize their yards with food based on local resources, conserve food crops, improve the welfare of farmers and the community, ensure the availability of seeds for the community, and anticipate the impacts of climate change. In addition to increasing family income, the yard can guarantee the availability of food and household medicines, channel family hobbies and creativity, create a comfortable and healthy environment, and support efforts to preserve ecosystems (Amruddin & Iqbal, 2018; Hidayat, 2013). Yard land is not only a provider of food and medicine but can also reduce household consumption expenditure and increase household income, by planting various commodities of vegetables, fruits, herbs, and other useful plants (Sukenti et al., 2020)

## RESULTS AND DISCUSSION

This program was implemented in Kandai Satu Village, Dompus District, Dompus Regency, NTB. The activity was carried out in conjunction with counseling and demonstration activities on the planting of medicinal plants, vegetables, and fruits together with Muhammadiyah Bima University KKN students, and the target community was several representatives of farmer groups in the Kandai Satu sub-district, Karang Taruna youths, along with representatives of the PKK women's group. and residents. Participants in the activity totaled 30 people, who had been assigned by the head of the local village head.

The presentation of the material was accompanied by demonstrations and assistance related to the optimization of yards, the use of medicinal plants, vegetables, and fruits, and how to cultivate them. Following are the details of the activities:

- a) The presentation of the material contains socialization on how to use the yard to support food security. With this method, the community can optimally utilize the available land, even if it is limited, it can be utilized. On this occasion, discussions and questions and answers were also held regarding existing problems related to the use of community yards, with resource persons from the service team.
- b) Demonstration of plant preparation in Polybags such as medicinal plants, vegetables, and fruits. This has the potential to be carried out because several buildings and houses of residents are still possibly being used as places for planting pots.
- c) The practice of planting productive plants such as medicinal plants, vegetables, and fruits. carried out together, starting with preparing the planting medium by mixing the compost soil and husks. Seeds of medicinal plants such as turmeric, Curcuma, ginger, and others are available. For vegetable seeds, chilies, eggplants, long beans, and tomatoes are available. As for fruit seeds available, mango, jackfruit, water guava, guava, and watermelon. The plant seeds that had been prepared beforehand were planted in pots and polybags.



**Figure 1. Fruit planting**



**Figure 2. Vegetable planting**

The discussion regarding the results of the service, linked to the results of previous studies/services, is critically analyzed and linked to the latest relevant literature.

## CONCLUSION

From the results of the implementation of extension activities and demonstrations of planting productive plants, it can be concluded that the use of yard land by planting medicinal plants, vegetables, and fruits is one of the efforts that can be made to support the availability of food and traditional family medicines, besides that it is also beneficial for preserving biological resources, channeling family hobbies, and adding artistic and aesthetic value to the Kandai Satu Dompu sub-district environment.

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