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CULTIVATION OF HENNA WATER PLANTS AS AN ECONOMIC VALUE COMMODITY IN GETAKAN VILLAGE, KLUNGKUNG REGENCY

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Abstract

The farming program in the village is 70% dependent on rice and cloves. which has approximately a harvest time interval of three to one year, while the percentage of girlfriend water flowers (Impatiens balsamina) cultivation in the village of Getakan is still 30%, therefore activities are more focused on raising the cultivation of water henna plants, so that farmers have additional income every day. However, currently there are problems, in terms of reduced flower production, lack of pest management using pesticides, minimal flower quality improvement, lack of knowledge about social media as a means of promotion, and stages of online education. This study aims to provide education regarding steps, tips, and also information related to the application of girlfriend water flowers (Impatiens balsamina) cultivation and promotion on social media as well as increasing knowledge and also developing community farming related to optimizing the potential of paddy fields by cultivating commodities that can be used to produce and make a product as additional income for rural communities. The results obtained by the people of Getakan Village can produce good and quality girlfriend water flowers (Impatiens balsamina) so that they increase their daily income.

Keywords: Cultivation, Flower, Farming.

INTRODUCTION

The diversity of flora in Indonesia is very high. One of them in the agricultural sector is the utilization of biological resources carried out by humans to produce food, industrial raw materials, or energy sources, as well as to manage their environment. Activities of utilizing biological resources included in agriculture are commonly understood by people as cultivating crops or growing crops In cultivating planned activities of maintaining biological resources carried out on an area of land to be taken advantage of / harvested and from these agricultural products can also be made a product to add economic value to the farm.

The farming program in the village is 70% dependent on rice and clove crops which have approximately a harvest distance of three to one year. While the percentage of water henna flower cultivation in Getakan village is still 30%, therefore the activity focuses more on raising

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the cultivation of water henna plants so that farmers have additional income every day. The life of the majority of Balinese people is Hindu, it cannot be separated from the consumption of flowers as one of the mandatory means of daily prayer. The high consumption of flowers in Bali is also offset by its production interest). Water henna flower (*Impatiens balsamina* L.) is an ornamental plant commonly used in the manufacture of canang products in Bali. Flowers are one of the important facilities for Hindus The development of flower plant areas, for the people in Bali is currently quite rapid so it needs to be supported by the readiness of advice and processing methods that are suitable for the conditions of farmers so that they can produce quality flower seeds.

There are problems in the cultivation of pickled water plants, namely reduced flower production, lack of pest handling using pesticide chemicals which are sometimes not routinely done, lack of education and additional tips for the community in planting and caring for water henna flower plants online, minimal flower quality improvement, selection of quality and good fertilizers and seeds of henna water flowers to compete with the quality of flowers in other villages, the manufacture of canang products from the cultivation of henna water flowers to be sold as a means of prayer and lack of knowledge about social media in terms of promotion

Therefore, this community service research aims to develop good and correct cultivation of water henna flower plants to produce good quality flowers, so that they become commodities of economic value by sharing education about steps, tips, and also information related to the application of water henna plant cultivation directly or in the form of posters through social media.

IMPLEMENTATION METHOD

The activity was carried out in Getakan Village Area, Klungkung Regency, Bali Province. The methods of activities that will be carried out to achieve the goals of community service are observation, interviews, training, and education methods on how & tips on applying water henna plant cultivation, The stages of cultivation will be explained in detail through poster media that will be shared online on social media, selecting fertilizers directly with farmers in the village Education will be carried out by creating an Instagram account that will specifically share Methods and also related tips about cultivation make it easier for residents to watch and learn these methods anywhere and anytime.

1. Observation & Interview Method:

In this method, conduct field surveys and conduct interviews with several farmers in Getakan village to identify and collect data and problems that occur in Getakan village regarding the cultivation of water henna plants

2. Method of preparation :

a. Determine the formulation of the problem of goals, objectives, and scope of activities that have been obtained from observation and interview methods
b. Looking for the type of fertilizer and choosing good seeds in Mambal and sibang villages with the super flower quality
c. Selection of pesticides for pest prevention

d. Conduct a literature study by searching and collecting materials including how to cultivate (plant and maintain) good plants
e. Making posters as an educational medium, the materials that have been collected will be poured concisely into the form of posters.
f. Preparation of tips on creating social media accounts for residents to promote their crops.

3. Implementation Method :

a. Planting henna water plant seeds with farmers on 11 July 2021 and did not forget to give plant seeds to several residents
b. Gives examples of good types of fertilizers used in the cultivation of water henna plants
c. Using super vitonic ingredients in pest spraying of water henna plants
d. Introducing the Instagram account "aquaculture water henna plant" the account already contains education on the stages and tips for the cultivation, application, and maintenance of water henna plants.
e. Provide examples of how to create an Instagram social media account to promote residents' harvests.

RESULTS AND DISCUSSION

Through this activity, the results that have been achieved are an increase in community interest in cultivating water henna plants, increasing knowledge and skills of the community in Getakan Village related to the application of cultivation, and increasing people who practice directly the application of this cultivation in rice fields and their respective yards. The increase in public interest in education on the application of water henna plant cultivation can also be seen from the large number of followers of Instagram accounts used as educational delivery media which until now have reached 228 followers and the number of farmer residents who have used Instagram social media facilities to sell their crops

The cultivation of water henna plants can be said to be very profitable. Flower cultivation of henna water makes a promising income field every day. The benefits produced from this plant are also very easy to make products in the form of canang which can then be sold to increase the income of residents.

With the implementation of this community service program, it is hoped that it can continue to help provide education to the community in Getakan Village in the cultivation of water henna plants so that they grow to increase the income of villagers and can also increase the interest of all people in Getakan Village and outside the village to participate in developing this cultivation as an Economic Value Commodity for the community.

Figure 1. The cultivation results of the Henna Water Plant are of good quality

The activities that have been carried out are:

1. In the picture below, the activity directly educates several residents about planting seeds of water henna plants and maintaining water henna plants that are only 3 weeks old

Figure 2. Accompanying planting and maintenance of water henna plants

2. Create an Instagram account as a medium to share educational materials including how to cultivate (planting and care) and also tips on implementing the cultivation of water henna plants so that they can be seen anytime and anywhere, making social media related to cultivation education is intended not only for getakan villagers but to the wider community to see business opportunities from cultivating this water henna plantation. In addition, social media accounts are used to sell the results of water henna plant cultivation.

Figure 3. Social media accounts are used for education and media sales of water henna plant cultivation

3. Making The main poster will be shared through the Instagram account that has been created before, this main poster contains planting water henna plant seeds, how to care for and of course there are also other materials.

Figure 4. Main poster related to how to apply the cultivation of water henna plants

4. The activity below is the distribution of henna plant seeds with good quality water to several farmers in Getakan Village. The seeds of the henna water plant are obtained from the Mambal area where in that area is a producer of henna flowers that have good quality, the price of seeds is 15,000 / pack. Some of these seeds are planted using pots after becoming seeds given to several farmers and do not forget the seeds are given for more planting. From the flowering water henna plant there will be fruit and inside there are seeds where the seeds will be used for further long-term planting.

Figure 5. Giving planting seeds pacr water to several farmers of Getakan Village.

5. In this activity, conduct research in choosing fertilizers for the treatment of henna water plants In the selection of fertilizers used, namely Urea fertilizer and Phonska fertilizer. Urea fertilizer is a chemical fertilizer containing high levels of Nitrogen (N). Nitrogen element is a nutrient that is needed by plants, plants Urea fertilizer in the form of white crystalline grains. I propose urea fertilizer in the cultivation of water henna plants because the chemical content in such fertilizers is good for plants. While Phonska fertilizer is an initial fertilizer that has been used by farmers where phonska fertilizer is obtained from subsidies by the government at a more affordable price for farmers, basically this Phonska fertilizer has a term as NPK compound fertilizer consisting of macronutrients such as nitrogen (N), phosphor (P), potassium (K) and sulfur (S).

Figure 6. Selection of the type of fertilizer for the cultivation of water henna plants

6. Making products produced from the flowers of henna water plants in the form of (Canang) for Hindu prayer facilities in Bali.

Figure 7. Canang products from the cultivation of water henna plants.

The following is a graphic image of the results of the community response survey to the community service work program. From the farming program in the village, 70% depend on rice and clove. While the cultivation of henna water flowers in Getakan village percentage is still 30%, From the survey that can be drawn which from the results of the graph below shows that the response and interest of the community have reached 85% conclusion that interest from the community in this work program activity has increased and in the future, it is expected to be implemented properly.

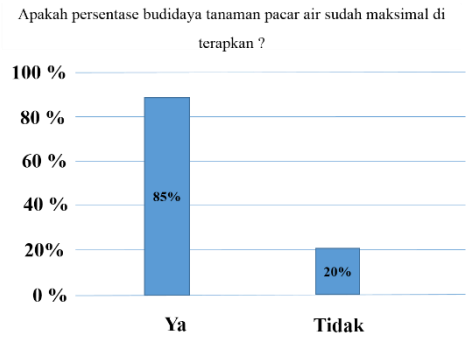

Figure 8. Graph of the percentage of cultivation of water henna plants.

The following is a comparison table before and after the implementation of community service activities in Getakan Village, Klungkung Regency:

Table 1. Comparison Before and After Community Service Activities

No	Before	After
1.	The people of Getakan Village lack pest handling using pesticides which are sometimes not routinely done.	The getakan village community has carried out pest management using super vitanic, spraying is carried out once a week.
2.	The people of Getakan Village do not yet have the knowledge and skills in promoting the harvest of henna water flowers on social media.	The people of Sidakarya Village already have knowledge and skills in promoting the harvest of henna water flowers on social media.
3.	The people of Getakan Village still lack knowledge and skills in choosing seeds and fertilizers for plant cultivation to produce good quality flowers.	The people of Getakan Village already have knowledge and skills in choosing seeds and fertilizers for plant cultivation to produce good-quality flowers
4.	The people of Getakan village still lack knowledge in cultivating good and correct water henna plants.	The people of Getakan village already know about cultivating good and correct water henna plants by being given direct education and through Instagram.

5.	Lack of percentage of people utilizing paddy fields to cultivate henna water plants	The increasing interest of the getakan village community in utilizing paddy fields to cultivate water henna plants is increasing.

(Source: Data processed)

CONCLUSION

This community service activity concludes that there is an increase in interest and knowledge of the community in Getakan Banjarangkan Klungkung Village, about how to cultivate water henna plants, promotion of crops by providing direct education and education through social media has been applied in community service activities This is through a poster shared on Instagram. It is hoped that this community service, will be able to increase the knowledge and income of the people of Getakan Village in implementing the cultivation of this Water Henna Plant so that it can be applied continuously by the entire community of Getakan Village, and the purpose of this service activity is to help the community to develop, utilize natural resources into existing economic value to meet their daily needs.

REFERENCES

Ariska Rahmawati , Dyah Ayu Sri Hartanti. Mei 2012. Analisis Kelayakan Usahatani Tanaman Pacar Air (Impatiens Balsamina) Di Desa Dukuh Klopo Kecamatan Peterongan.Kabupaten Jombang Agrosaintifika : Jurnal Ilmu-Ilmu Pertanian Volume 3 No. 2

Cecep Kusmanaa , Agus Hikmat. December. 2015. Keanekaragaman Hayati Flora Di Indonesia. Kampus IPB Darmaga, Bogor. Jurnal Pengelolaan Sumberdaya Alam dan Lingkungan Vol. 5No. 2

Ede Haryadi, Husna Yetti, Sri Yoseva. Oktober 2015. Pengaruh Pemberian Beberapa Jenis Pupuk Terhadap Pertumbuhan Dan Produksi Tanaman. Jom Faperta Vol.2 No. 2

Gardner, F.P,.R.B. Pearce dan R.L. Mitchel. 1991. Fisiologi Tanaman Budidaya. Universitas Indonesia Press. Jakarta

I Gede Arga Lembayung), Nyoman Utari Vipriyanti), Nyoman Yudiarini) april 2019 kontribusi pendapatan bunga pacar air (pacah) terhadap total pendapatan rumah tangga di banjar temesi Kabupaten gianyar Program Studi Agribisnis. Fakultas Pertanian, Universitas Mahasaraswati Denpasar. Agrimeta Vol.09 NO.17.

Lingga dan Marsono. 2003. Petunjuk Penggunaan Pupuk. Penebar Swadaya. Jakarta.

Ni Kadek Dwipayani Lestari, I W ayan Rosiana, I Gusti Ngurah Manik Nugraha Januari 2020. Pendampingan kelompok tani bunga pacar air di desa bakas klungkung bali. Program Studi Biologi, Universitas Dhyana Pura. Jurnal Widya Laksana Vol. 9, No.1

Suwastika, Dewa,. 2007. Analisis Kebijakan Peningkatan Produksi Padi melalui Efesiensi Pemanfaatan Lahan Sawah di Indonesia. Vol 4 No 1 Tesis. Universitas Udayana. Denpasar

Shivaji B., Shivakumara, Seitjit W.,Naveen, K. R., Swarnava K.,dan Vedamurthy AB. 2013.Phytochemical screening and biological activities of Impatiens balsamina L. seeds.

World Journal of Pharmacy and Pharmaceutical Science. 2(6): 5363 – 5376.
Wiwik Hartatik, Husnain, dan Ladiyani R. Widowati. Desember 2015. Peranan Pupuk Organik dalam Peningkatan Produktivitas Tanah dan Tanaman. Cimanggu, Bogor. Jurnal Sumberdaya Lahan. Vol. 9 No. 2.
Wiendra, N.M.S.,M. Pharmawati, dan N.P. A. Astiti. 2011. Pemberian Kolkhisin Dengan LamaPerendaman Berbeda Pada Induksi Poliploidi Tanaman Pacar Air (Impatiens balsamina L.). Jurnal Biologi. 15 (1): 9-14.