1. DESCRIPTION

Project Title: “Small-scale Production of Organic Okra (*Abelmoschus esculentus*) and Eggplant *(Solanum melongena) in* Companion Planting”.

Name of Proponent: Canama, Austene Jeremie BSA1B & Vincent Lauver Laraga BSA1C

Sex: Female & Male

Contact Details: 0975941621 or 09977502456

Total Project Cost: 190 pesos

Project Duration: 2-3 months

Source of Fund: Allowances

1. PROJECT BACKGROUND/RATIONALE

Companion planting pairs plants that thrive together in the same general area of the garden (Kellog, 2021). This allows them to cooperate and dissuade bothers, boost growth and production, and allow for beneficial insects & pollination. Companion plants can enrich the soil and diversify the garden, which can improve your overall crop. They can also help each other in an organic garden, by allowing for different nutrients in the soil to increase other plants’ growth and boosting harvests.

Okra thrives in summer season, and grows reaching 6 feet tall by the end of summer. Eggplant is a nightshade vegetable that is beneficial when planted near okra. Eggplant and okra benefit from nutrients that each plant releases into the soil, causing each one to grow stronger and healthier.

Companion plants can help each other grow strong and healthy by naturally supporting each other. Companion plants of okra will ensure a good harvest at the end of the season by naturally improving the soil and deflecting pests that could cause harm.

1. OBJECTIVES

At the end of the activity, the students will be able to:

a. Assess and apply the skills and techniques for this project;

b. Give realizations on the significance of backyard gardening;

c. Grow okra and eggplant via small space backyard gardening using large pots;

d. Tally or record the activities, date and time of each activities, and;

e. Determine the effectiveness of companion planting.

1. MATERIALS AND METHODS/METHODOLOGY

Materials required

* Okra seeds
* Eggplant seeds
* Chicken Manure
* Loamy or crumbly soil
* Sack bags or Soft black large pots
* Paper & Ballpen
* Camera for documentation

Procedures :

* Choose a pot that should be ideal for 15-20 inches deep.
* Look for the soil that is packed with nutrients. It must be loamy and crumbly mixed with chicken manure, then put the soil to the chosen pots.
* Sow two seeds of okra and 1 seed of eggplant 1-2 inches deep per pot. Plant directly in the ground, wait until after the soil has warmed and the air temperature reaches at least 60 degrees. Use fresh seed soaked overnight or nick each seed coat with a file to encourage germination.
* Pick a spot that receives full sun (6-10hours).
* Water every early in the morning and late in the afternoon to keep the soil moisture.
* Manage and monitor always.
* Harvest okra when pods are 1 to 4 inches long. Pods are ready for harvest about 60 days after sowing.
* Harvest eggplant 65 to 80 days after planting.

1. GANTT CHART 

| Activities | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 |
| --- | --- | --- | --- | --- | --- |
| Materials preparation |  |  |  |  |  |
| Composting/filling the pots |  |  |  |  |  |
| Implantation of seeds |  |  |  |  |  |
| Managing (Watering/monitoring)  Data evaluation, analyzing & Harvesting |  |  |  |  |  |

1. ENTERPRISE LAY-OUT/DESIGN 

3-5 inches away













10 inches

away

VII. BUDGETARY REQUIREMENTS



| PARTICULARS | AMOUNT (PhP) |
| --- | --- |
| 4 packs Okra seeds | 20 |
| 2 packs Eggplant seeds | 20 |
| 15 Soft black pots | 150 |
| TOTAL | 190 pesos |

VIII. PROJECTED INCOME STATEMENT

| PARTICULARS | QUANTITY | UNIT | PRICE | TOTAL (PhP) |
| --- | --- | --- | --- | --- |
| Revenue: |  |  |  |  |
| Sales of Okra | 4 | kg | 60 pesos | PhP 240.00 |
| Sales of Eggplant | 5 | kg | 50 pesos | PhP 250.00 |
|  |  |  |  |  |
| Total Sales |  |  |  | = PhP 490.00 |
| Expenses: |  |  |  |  |
| Okra Seeds | 4 | sachets | 5 pesos each | PhP 20.00 |
| Eggplant seeds | 2 | sachets | 10 pesos each | PhP 20.00 |
| Soft Black pots | 15 | pcs | 10 pesos each | PhP 150.00 |
|  |  |  |  |  |
|  |  |  |  |  |
| Total Expenses |  |  |  | PhP 190.00 |
| Net Profit |  |  |  | PhP 300.00 |
| Return on Expenses (ROE) |  | | | |

*\*ROE = Net Profit/ Total Expenses x 100*

ROE= 300/190 × 100

= Php 157.89473684 or 157.9

IX. EXPECTED OUTPUTS

The expected outputs would be more or less 4kg of harvested okra and 5kg of harvested eggplant. By this expected outputs every kilogram of okra has a price of 60 pesos which is equivalent to 240 pesos overall. While, every kilogram of harvested eggplant priced 50 pesos multiplied by 5 which is equivalent to 250 pesos. All in all there are 490 pesos of total sales, deducted by 190 pesos as expenses is equal to 300 pesos as a net profit. Solving the return on expenses, 300 divided by 190 and is multiplied by 100 is equivalent to 157 pesos as a return. In addition, eggplant and okra must be proved that both are genuinely a great companion in production and development.

X. REFERENCES

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[https://bit.ly/3r1d7kZ](https://www.kellogggarden.com/blog/gardening/okra-companion-plants/#:~:text=Peas%20add%20nitrogen%20to%20the,the%20same%20time%20as%20okra).

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<https://bit.ly/3vLL7oW>

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