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Optimization of Compost Sugarcane Bagasse Against Growth and Crop Results of Eggplant (*Solanum melongena* L.)

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Abstract

Wren eggplant (*Solanum melongena* L.) is a horticultural crop that is favored because it can be processed into various foods and has high nutritional content, particularly vitamin A and phosphorus. This study aimed to determine the effect of sugarcane bagasse compost dosage and the concentration of TOP G2 liquid organic fertilizer (LOF) on the growth and yield of gelatik eggplant (*Solanum melongena* L.). The research was conducted in Ngembe Village, Pasuruan, from December 2024 to February 2025 using a factorial Completely Randomized Design (CRD) with two factors, namely sugarcane bagasse compost dosage (10, 20, and 30 tons/ha) and TOP G2 LOF concentrations (0, 4, 6, and 8 ml/l), each with three replications. The observed variables included plant height, number of leaves, days to first flowering, total number of flowers, number of fruits, and fruit weight per plant. The results showed that the interaction of 20 tons/ha sugarcane bagasse compost and 6 ml/l LOF produced the best plant height and fruit weight. A compost dosage of 30 tons/ha combined with 8 ml/l LOF accelerated flowering and increased the number of leaves and flowers. TOP G2 LOF at a concentration of 8 ml/l yielded the highest number of fruits, although it was not significantly different from the 6 ml/l concentration. Therefore, the combination of 20 tons/ha sugarcane bagasse compost and 6 ml/l liquid organic fertilizer is recommended as the most effective treatment to optimize the growth and yield of gelatik eggplant.

Keywords: Growing Media, Organic Fertilization, Plant Nutrition, Vegetative Growth, TOP G2

1. Introduction

Eggplant Java sparrows (*Solanum melongena* L.) are horticultural plants that can be utilized as fresh vegetables and processed eggplant. Eggplant Java sparrows are in high demand among the public because they have adequate nutrition, especially high Vitamin A and phosphorus content. Market demand for eggplant Java sparrows in Indonesia shows an improvement trend along with an increase in population. Data from the Indonesian Central Statistics Agency recorded an improvement in demand for eggplant from approximately 691.78 metric tons in 2022 to 699.89 metric tons in 2023. This signifies continuous market demand increases, although eggplant production in some areas is still not yet sufficient. However, eggplant productivity still faces various obstacles, especially the need for optimal nutrition for plant growth and harvest yields to reach maximum potential. Therefore, increasing eggplant production results for Java sparrows is important

to fulfil increasing consumption needs and provide additional income for farmers (Mansyur, 2021).

Eggplant Java sparrow production plants in Indonesia still face various fundamental problems that directly impact harvest results. Decline in land fertility quality is a consequence of a lack of organic material, as well as excessive chemical fertilizer use, which causes decreased nutrient absorption effectiveness and plant growth that is not optimal. Besides that, instability climate, especially height rainfall rain in phase generative, often trigger hair loss interest and lower fruit formation. Attack pests and diseases typical of Solanaceae plants also make productivity decline if not accompanied by proper control. On the other hand, the practice of cultivation that has not been uniform, such as improper fertilization in accordance need physiological plants, poor water management effective, and use seed with low vigor, the more hinder potential results. Overall factor the show the need for

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improvement strategies sustainable cultivation based improvement quality land , efficiency fertilization and adaptation to tropical environmental conditions (Maghfoer, 2018).

Material organic matter given to the planting medium with adequate amount can repair response plant to technological input so that production increased , good in a way quantity and demonstrated quality with taste crunchy and sweet . Giving material organic with higher dose from Enough will can improve the planting medium become more loose and fertile which accommodates proportional balance in a way physical , chemical and biological the soil . Balance of planting media the can achieved while added fertilizer organic , one of them with compost dregs sugarcane with optimal dose . Dregs sugarcane is waste from a Sugar Factory that can be utilized as a source of organic material, in the form of compost. Repair planting media structure with giving compost dregs sugarcane due to compost dregs sugarcane can increase quantity and activity microorganisms decomposition and impact to looseness of the planting medium . Loose soil show that the soil media in condition proportional between air , water and solids n . In a previous study, it was shown that growing eggplant with compost dregs sugarcane can increase growth because dregs sugarcane contain nutrients needed by plants. Nutrients contained that is macro and micro nutrients . Macro nutrients includes N, P, and K, while That micronutrients includes Ca and Zn (Wafiroh *et al.* , (2018). Research results Romi (2020), that compost dregs sugar cane on plants eggplant 1080 g/ plant (30 tons/ha) shows growth and yield best .

Besides compost, production improvement can also be done through the application of organic liquid fertilizer. Fertilization through root done with addition compost dregs sugar cane and fertilization through leaf done with use fertilizer organic liquid (POC). Entry nutrients contained in fertilizer liquid into the plant through micropores in the leaf, especially past penetration of the cuticle and stomata. Benefits of fertilization through the leaf are avoiding dissolving nutrients before they are obtained by the roots, or experiencing fixation in the land that results in no absorption again by plants; absorption of nutrients by leaf cells is faster and more effective to overcome lack of microelements. Giving organic liquid fertilizer through the leaf gives better growth and yield than giving through the land (Wasis and Badrudin, 2018).

According to Sulistiawan (2021), Fertilizer organic TOP G2 liquid is an organic fertilizer liquid containing hormone regulators for growth, zeatin, and Gibberellin (GA3), as well as 14 forms of essential minerals (macro and micro nutrients), 17 forms of amino acids, vitamins, and various microflora. Nutrient content and composition contained in Fertilizer organic TOP G2 liquid is organic C (6%), N (5%), P₂O₅ (5%), K₂O (5.8%), CaO (0.4%), MgO

(0.4%), S₀₄ (0.38%), C/N ratio (1.28%), and trace elements (B, Fe, Zn, Mn, Cu, Mo, Co), amino acids and compounds bioactive (Gibberish). TOP G2 can increase quality and economical value of production results: color, shape, taste, sugar content, fiber content, oil content, carbohydrate content, and protein content, as well as plant resilience (Nduang *et al.*, 2023). Fertilizer also increases growth and the quality of physical plant organs, as well as the quality and economic value of production results, including color, shape, taste, sugar content, oil, carbohydrates, protein, and plant durability (Lidar & Lestari, 2022). The right concentration of organic fertilizer liquid needs to be adjusted so that the leaves sprayed on plants are not burnt / burnt if too high a concentration is used. In the study Sulistiawan (2021), the influence of the concentration of organic liquid fertilizer top g2 6 ml/l on plants of Java sparrow eggplant showed the best growth and yieldbest . The objective of this study is to determine the influence of the dose of compost dregs sugar cane and the best concentration of organic liquid fertilizer, as well as their interaction, on the growth and yield of eggplant Java sparrow.

2. Material and Methods

This study was held in December 2024 - February 2025 in the Rice Fields Village, Ngembe, Beji District, Pasuruan Regency, East Java Province. Located at the point coordinates 7° 37' 43.20"S and 112° 44' 41.09"E, at an altitude of ±25 meters above sea level, with a temperature of 27°C, rainfall of 336.16 mm, and 84% humidity. Research was conducted using a 40 x 40 cm polybag media based on a mixture of soil and compost dregs sugar cane. The materials used covering seed plant eggplant Java sparrow varieties canary , compost dregs sugar cane , fertilizer organic liquid TOP G2, EM4, molasses , and pesticide in accordance with needs . The tools used in study that is trowel , polybags measuring 15 x 10 and 40 x 40, tarpaulin , scales , glass measuring , watering can , sprayer, bucket, meter , ruler , tool write , and camera .

The test was arranged in a Design Random Complete (RAL) factorial with two factors and three repetitions. Factor First is dose compost dregs sugarcane 10 tons/ha, 20 tons/ha, 30 tons/ha. The second factor is the concentration of organic TOP G2 liquid fertilizer: 0 ml/l, 4 ml/l, 6 ml/l, 8 ml/l. combination second factor resulting in 12 treatments with three repetition , so that there are 36 units test .

Fertilization used compost dregs sugarcane at the time of preparation of planting media in accordance with the prescribed dose. Application of organic liquid fertilizer with leaf spraying was carried out at the age of 14–35 HST. Maintenance covering watering , installation stakes , weeding , and control pests and diseases in accordance needs . Harvest done start age 45 HST gradually in 5 periods harvest with a time interval of 5 days.

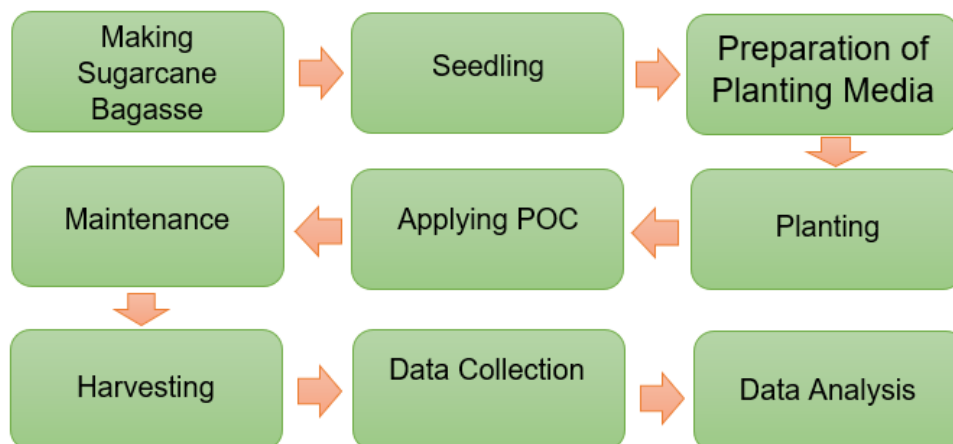


Figure 1 Flowchart Study

Observed variables covering tall plants, number leaves, age appear flower first, the number total interest, amount fruit harvest per plant and weight fruit harvest per plant. Plant height measured use metering carried out at the age of 14 to 42 HST with time intervals 7- day observation once. Amount leaf done with count the total number of leaves on each plants and is carried out at the age of 14 to 42 HST with time intervals 7- day observation once. Age appear flower first done with method count day which number plant has emit interest. Amount total interest paid with count all over flowers on each plant moment flower start formed until No There is appear flower new again. Amount fruit harvest per plant done with count overall fruit harvested each plant. Weight fruit harvest per plant done with add all over weight total fruit per plant. Data analyzed using Microsoft Excel software in the form of analysis

fingerprints variety (ANOVA) according to with design. If there is a real influence, further tests were carried out for Real Differences Honest (BNJ) at the 5% level.

3. Results and Discussion

3.1. Plant Height (cm)

The combination of compost dregs sugar cane and fertilizer organic liquid showed a very real interaction in increasing the height of Java eggplant plants 42 days after planting. The highest plant height was obtained in the A2P2 combination (20 tons/ha of compost dregs sugar cane + 6 ml/l fertilizer organic liquid), of 46.33 cm. The average plant height value for each treatment and the dose of compost dregs sugar cane and the concentration of organic liquid fertilizer can be seen in Table 1.

Table 1 Average Plant Height Eggplant Java Sparrow Age 42 HST on Combination Treatment Dose Compost Sugarcane Bagasse and Concentration Fertilizer Organic Liquid

Dose Compost Sugarcane Bagasse	Plant Height (cm)			
	Concentration Fertilizer Organic Liquid			
	0 ml/l	4 ml/l	6 ml/l	8 ml/l
10 tons/ha	28.66 ± 3.21 a	33.66 ± 4.16 ab	34.00 ± 2.64 ab	34.88 ± 3.41 ab
20 tons/ha	36.33 ± 0.57 ab	39.00 ± 1.00 b	46.33 ± 3.51 bcd	45.22 ± 1.57 bcd
30 tons/ha	42.55 ± 3.59 bc	42.88 ± 1.26 bc	40.99 ± 1.44 b	42.11 ± 1.83 bc
BNJ 5%	7.68			

Description: The numbers that follow the same letter show results that are not different in the 5% BNJ test of 12 combinations repeated treatment as many as 3 times, so that 36 units of test were obtained with 3 plant samples per unit.

Improvement in tall plants on the dosage of compost dregs sugar cane 20 tons/ha shows that the dose is optimal dose. The nitrogen content in compost dregs sugarcane own role important in increase tall plants. This result is in accordance with opinion Nduang *et al.*, (2023) who said that availability fulfilled N elements then the division process cell will walk with okay, where stimulating element N growth plant in a way overall especially growth the stem that will spur growth tall plants. These results consistent with study Wafiroh *et al.*, (2018) that dose compost dregs 1500 grams of sugar cane shows optimal dose in growth tall plant eggplant with an average

of 39.34 cm.

The height response plants in the P2 treatment are also supported by the opinion Wulandari *et al.*, (2022) who stated that use of POC in optimum concentration can increase metabolic activity and formation vegetative tissue in general maximum. Nitrogen plays a role in chlorophyll formation, which increases the rate of photosynthesis so that plants have enough energy for growth and tall plants.

3.2. Amount Leaf (strand)

Treatment single dose compost dregs sugar cane and concentration fertilizer organic each liquid has a very real

effect to amount leaves at the age of 21 HST. Number leaf most obtained in the treatment of 30 tons/ha of compost dregs sugar cane and 8 ml/l fertilizer organic liquid with an average of 11.88 strands and 11.59 strands respectively .

The average value of the number of strands per leaf for each treatment, compost dregs sugar cane and fertilizer organic liquid concentration, can be seen in Table 2.

Table 2 Average Amount Leaf Plant Eggplant Java Sparrow Age 21 HST Due to Influence Dose Compost Sugarcane Bagasse and Concentration Fertilizer Organic Liquid

Age Plants (HST)	Treatment	Amount Leaf (strand)
	Dose compost dregs sugarcane	
21	10 tons/ha	8.39 ± 2.20 a
	20 tons/ha	11.08 ± 2.70 b
	30 tons/ha	11.88 ± 2.22 b
	BNJ 5%	2.32
	Concentration fertilizer organic liquid	
	0 ml/l	8.47 ± 2.80 a
	4 ml/l	10.44 ± 2.97 a
	6 ml/l	11.29 ± 2.46 b
	8 ml/l	11.59 ± 2.04 b
	BNJ 5%	2.67

Description: The numbers that follow the same letter show results that are not different in the 5% BNJ test of 12 combinations, repeated treatment as many as 3 times, so that 36 units of test were obtained with 3 plant samples per unit.

The higher the compost dregs dose, the more sugar cane is given, and the more lots of leaves are produced. Compost dregs sugarcane contain macro and micro nutrients that can increase land fertility as well as repair land structure, so that it supports optimal leaf growth. Research previously by Sari *et al.* (2021) also reported that giving compost dregs sugarcane significantly increased vegetative growth in eggplant plants, including leaf number, because the available nutrients are more abundant and easier for plants to absorb. Research results This there is improvement amount leaf plant eggplant Java sparrow at the age of 21 HST due to treatment compost dregs sugarcane 30 tons/ha (A3) by 41.59% compared to with treatment (A1).

Improvement amount leaves in the 8 ml/l treatment were able support physiological processes plants , especially in formation vegetative tissue . Fertilizer organic liquid contain easy nutrients absorbed plant Because shaped solution , so that can speed up the metabolic process plants and improve growth leaves . These results in line with research by Fitriani *et al.*, (2020) which states that application fertilizer organic liquid capable increase growth vegetative plants , including amount leaves , because available nutrients in form dissolved more easy taken by the roots plants . Research results This there is improvement amount leaf plant eggplant Java sparrow at the age of 21 HST due to treatment concentration fertilizer organic liquid 8 ml/l (P3) of 11.01% compared to with concentration 4 ml/l (P1).

3.3. Age First Flower Appearance (HST)

Fertilizer organic TOP G2 liquid is fertilizer organic liquid containing hormone natural (auxin , gibberellin and cytokinin) for stimulate flowering . Besides that , microbes in compost dregs sugarcane can speed up decomposition

material organic and nutrient release to plants . Research results show that compost dregs sugar cane and fertilizer organic TOP G2 liquid have a real effect on the age at which flowers first appear, with compost dregs sugar cane 30 tons/ha and fertilizer organic liquid 8 ml/l producing the fastest age at first flower appearance, which is 22.56 days. The average age value of the first flower appears in the treatment giving the dose of compost dregs sugar cane and the concentration of organic liquid fertilizer can be seen in Table 3.

Giving compost dregs sugar cane and fertilizer organic TOP G2 liquid proven play a role significant in support generative phase of plants eggplant Java sparrow through repair planting media conditions and improvement availability essential nutrients needed For flowering , fertilization , and formation fruit . Environment deeper roots loose and rich in material organic speed up transition plant from vegetative phase towards generative fae , which is reflected from age appear flower the first one is more fast . POC TOP G2 application via leaf provides amino acids and regulatory hormones for growth, such as zeatin and gibberellin, as well as elements directly absorbed through the stomata, so that it increases the efficiency of fruit formation. Research results show that the fertilizer organic liquid treatment concentrations of 6 ml/l and 8 ml/l produce the fastest average. There is an improvement in the flowering speed of the Java sparrow eggplant plant, with a consequence of the treatment concentration of organic P3 liquid of 14.88 hours, compared to the P1 treatment. Research Maidilla (2022) shows that the combination of compost dregs sugarcane 13.5 tons/ha and NASA POC concentration 6 ml/l gives an average age of flowering 38.58 HST on plants eggplant Java sparrow. The difference is as much as 10-13 HST. This confirms that the combination of dregs of sugarcane compost and organic

TOP G2 fertilizer liquid is capable of speeding up the vegetative phase to the generative phase.

Table 3 Average Age The First Flower Appears Plant Eggplant Java Sparrow Consequence Influence Dose Compost Sugarcane Bagasse and Concentration Fertilizer Organic Liquid

Treatment	Age First Flower Appearance (HST)
Dose compost dregs sugarcane	
10 tons/ha	23.61 ± 0.74 b
20 tons/ha	22.64 ± 0.57 a
30 tons/ha	22.56 ± 0.67 a
BNJ 5%	0.54
Concentration fertilizer organic liquid	
0 ml/l	23.44 ± 0.81 c
4 ml/l	23.18 ± 0.70 bc
6 ml/l	22.56 ± 0.47 a
8 ml/l	22.56 ± 0.89 a
BNJ 5%	0.63

Description: The numbers that follow the same letter show results that are not different significantly in the 5% BNJ test of 12 combinations repeated treatment as many as 3 times, so that obtained 36 units test with 3 plant samples per unit.

3.4. Total Interest Amount

Research result This show that fertilizer organic TOP G2 liquid has an effect real to amount flowers , with concentration of 8 ml/l produces flower most namely 27.08 flowers / plants , more tall compared to with treatment

control / 0 ml/l which only reached 25.77 flowers / plant . The average value of the number of flowers total interest on treatment giving dose compost dregs sugar cane and concentration fertilizer organic liquid can seen in Table 4.

Table 4 Average Number of Flowers per Plant Eggplant Java Sparrow Consequence Influence Dose Compost Sugarcane Bagasse and Concentration Fertilizer Organic Liquid

Treatment	Total Number of Flowers (flowers)
Dose compost dregs sugarcane	
10 tons/ha	26.41 ± 0.98
20 tons/ha	27.02 ± 1.23
30 tons/ha	27.08 ± 1.23
BNJ 5%	tn.
Concentration fertilizer organic liquid	
0 ml/l	25.77 ± 0.83 a
4 ml/l	26.48 ± 0.64 a
6 ml/l	27.48 ± 1.23 b
8 ml/l	27.62 ± 0.85 b
BNJ 5%	0.98

Description: The numbers that follow the same letter show results that are not different in the 5% BNJ test of 12 combinations, repeated treatments as many as 3 times, so that 36 units of test were obtained with 3 plant samples per unit.

Fertilizer organic liquid can increase the availability of macro and micro nutrients eaten by plants in liquid form. According to Nduang *et al.*, (2023) organic liquid fertilizer tends to be absorbed more quickly because it has undergo a dissolution process , so that capable give effect direct to growth and formation flowers. There is an improvement in the total plant interest of eggplant Java sparrow as a consequence of the treatment concentration of organic liquid fertilizer 8 ml/l (P3), by 4.30% compared to treatment 4 ml/l (P1).

Microorganisms that grow in compost dregs sugarcane speed up available N and P mineralization moment phase flowering and fruit , so that the 30 ton/ha treatment produces an average of flowers more tall compared to with dose of 10 tons/ha. There is an improvement in the total number of eggplant Java sparrow flowers as a consequence

of the 30 tons/ha compost dregs sugarcane treatment (A3), by 2.53% compared to treatment A1.

3.5. Amount Fruit Harvest Per Plant

Research result This show that No there is effect on dose compost dregs sugar cane and there is a real influence of organic liquid fertilizer concentration. Concentration fertilizer organic TOP G2 liquid 8 ml/l treatment produces the most fruit, namely 16.48 fruits/plant; however, there is no significant difference with the 6 ml/l treatment and differs significantly with the control/0 ml/l and 4 ml/l treatments. These results show that giving organic liquid fertilizer with optimal concentration can increase the number of fruits. The average value of the number of fruit harvested per plant of eggplant Java sparrow to treatment dose compost dregs sugar cane and concentration fertilizer

organic liquid can be seen in Table 5.

Table 5 Average Amount of Fruit Harvest Per Plant Eggplant Java Sparrow Consequence Influence Dose Compost Sugarcane Bagasse, and Fertilizer Organic Liquid Concentration

Treatment	Amount of Fruit Harvested Per Plant (Fruit)
Dose compost dregs sugarcane	
10 tons/ha	14.99 ± 1.32
20 tons/ha	15.28 ± 1.40
30 tons/ha	15.50 ± 1.66
BNJ 5%	Mr.
Concentration fertilizer organic liquid	
0 ml/l	13.67 ± 0.62 a
4 ml/l	14.48 ± 0.78 a
6 ml/l	16.39 ± 0.82 b
8 ml/l	16.48 ± 0.91 b
BNJ 5%	0.92

Description: The numbers that follow the same letter show results that are not different in the 5% BNJ test of 12 combinations, repeated treatments as many as 3 times, so that 36 units of test were obtained with 3 plant samples per unit.

This result is higher than the report of Maidilla (2022), who noted about 13.79 fruits/plant on the application of compost dregs of sugarcane at 13.5 tons/ha. This shows that increasing the dose of compost dregs of sugarcane can give maximum results. In the results of this study, there is an improvement in fruit harvest per plant of eggplant Java sparrow due to the concentration of organic liquid fertilizer 8 ml/l (P3), 13.81% compared to the P1 treatment. The results showed that the amount of fruit in the treatment was due to organic fertilizer TOP G2 liquid containing useful nutrients potassium and phosphorus in fruit formation. In the study by Sulistiawan (2021), the influence of the organic fertilizer TOP G2 liquid on plants of the Java sparrow eggplant with a concentration of 6 ml/l produced

the most fruit.

3.6. Weight Fruit Harvest per Plant (grams)

Weight fruit harvest is indicator productivity plants . Research results show treatment combination dose compost dregs sugar cane and concentration fertilizer organic liquid influential real to weight fruit plant eggplant Java sparrow . Treatment A3P2 (20 tons/ha of compost) dregs sugar cane + 6 ml/l POC) produces weight fruit the highest , namely 622.47 grams/ plant , while A3P0 treatment (30 tons/ha of compost dregs sugar cane + 0 ml/l POC) only yields 567.44 grams/ plant . The average fruit harvest weight per plant of Java Sparrow eggplant and be seen in Table 6.

Table 6 Average Weight Fruit Per Plant Eggplant Java Sparrow Consequence Influence Combination Dose Compost Sugarcane Bagasse and Concentration Fertilizer Organic Liquid

Treatment	Weight Fruit Harvest Per Plant			
	Concentration Fertilizer Organic Liquid			
Dose Compost Sugarcane Bagasse	0 ml/l	4 ml/l	6 ml/l	8 ml/l
10 tons/ha	579.09 ± 5.31 ab	579.57 ± 10.78 ab	599.21 ± 6.93 bc	608.37 ± 12.31 bc
20 tons/ha	596.84 ± 8.01 b	593.24 ± 4.79 b	606.61 ± 11.95 bc	609.26 ± 13.11 bc
30 tons/ha	567.44 ± 10.36 a	605.33 ± 5.56 bc	622.47 ± 14.38 c	615.91 ± 7.82 bc
BNJ 5%	24.46			

Description: The numbers that follow the same letter show results that are not different in the 5% BNJ test of 12 combinations repeated treatment as many as 3 times, so that 36 units were obtained, with 3 plant samples per unit.

This result more tall compared to with Maidilla (2022) who noted weight fruit harvest per plant highest namely 390.00 grams/ plant in the application dose compost dregs sugarcane 13.5 tons/ha. Provision of compost dregs sugarcane can increase nutrient availability, improve physical and biological land characteristics, so that it increases plant metabolism and produces more fruit weight. In the results study This there is improvement weight fruit harvest per plant by influence A3P2 combination of 9.69% compared to with A3P0 combination . This is show that dose compost dregs sugar cane at the level Bnj 5% capable increase growth and yield plant eggplant Java sparrow in a

way real compared to with treatment higher dose low . Findings This in line with study Swari , et al . (2022) who stated that addition compost dregs sugarcane can repair structure land and improve availability nutrients , so that support growth and yield plant horticulture .

Rahmawati *et al .*, (2015) reported that giving fertilizer organic Top G2 liquid (POC) significant increase weight plant green beans . POC Top G2 contains hormone regulator growth , such as zeatin and gibberellin (GA3), which increase absorption nutrient . These nutrients then change into carbohydrates through photosynthesis, which are used for cell division and elongationcells , so that fruit

mass and density increase. Research results This there is improvement weight fruit harvest per plant by influence

A3P2 combination of 9.69% compared to with A3P0 combination .

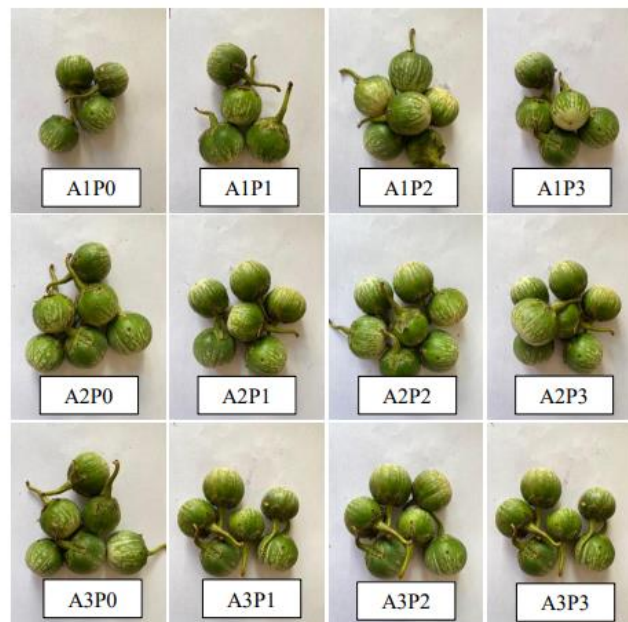


Figure 2Harvest Results Plant Eggplant Java Sparrow on Every Treatment. A: Compost Sugarcane Bagasse; Q: Fertilizer Organic Liquid

4. Conclusion

The compost dregs sugarcane dose of 20 tons/ha is proven more effective in increasing plant eggplant Java Sparrow growth and yield, producing the highest number of flowers (27.08 flowers) and the highest number of fruit (15.50 pieces). Interaction real in treatment compost dregs sugarcane 20 tons/ha with 6 ml/l fertilizer organic TOP G2

liquid provides results best at height plant (46.33 cm) and weight fruit harvest per plant (622.47 grams/ plant), so that combination the No only increase efficiency use fertilizer but also more optimal in depth divert assimilate to generative phase and can become a practical strategy for farmer For increase results plant eggplant Java sparrow in a way sustainable.

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