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# Response of Transplanted Finger Millet to Integrated Nutrient Management under Central Malwa Region of Madhya Pradesh, India

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Authors' contributions

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

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# **ABSTRACT**

Vermicompost technology for composting of organic wastes is remarkably effective for reducing the processing time of decomposition and producing good quality compost in terms of nutrients. It serves as an important component of an integrated plant nutrient supply system for balanced fertilization, along with maintaining health to sustain the productivity of soils. This study aimed to find out the best combination of organic and inorganic fertilizers for maximum production of transplanted finger millet. The experiment was conducted during *kharif*, 2024, at a new experimental cum demonstration field, SVIAg, SVVV, Indore. The field experiment was carried out

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in randomized block design with eight treatments consisted of T<sub>1</sub> – Absolute control, T<sub>2</sub> – RDF, T<sub>3</sub> – 75% RDF + 25% RDN through FYM, T<sub>4</sub> - 50% RDF + 50% RDN through FYM, T<sub>5</sub> - 75% RDF + 25% RDN through vermicompost, T<sub>6</sub> - 50% RDF + 50% RDN through vermicompost, T<sub>7</sub> - 75% RDF + 25% RDN through poultry manure, T<sub>8</sub> - 50% RDF + 50% RDN through poultry manure and each experimental unit was replicated thrice having the gross plot size of 3.60 x 4.50 m<sup>2</sup> and net plot 2.15 x 4.30 m<sup>2</sup>. This experiment tested the recommended finger millet variety, Dapoli 3. Treatment, 75% RDF + 25% RDN through poultry manure recorded significantly maximum growth characters viz., plant height (99.33 cm), number of leaves (16.27) plant 1 at 90 DAT, number of tillers hill-1 (13.97) and dry matter accumulation plant<sup>1</sup> (59.97 gm) at harvest, yield contributing character such as number of effective tillers (11.73), number of fingers earhead<sup>-1</sup> (7.83) and finger length (7.07 cm) grain yield (12.56 g ha<sup>-1</sup>), straw yield (25.28 g ha<sup>-1</sup>) and biological yield (37.84 g ha<sup>-1</sup>) over rest of the treatments and was on par with treatment 50% RDF and 50% RDN through poultry manure and RDF. While the lowest values were observed under absolute control. Consequently, this treatment resulted in higher growth, yield attributes and yield as compared to the remaining treatments. Hence, it is advisable to apply 75% RDF + 25% RDN through poultry manure to get the maximum yield of finger millet.

Keywords: Poultry manure; finger millet; climate change mitigation; food security.

# 1. INTRODUCTION

"The basic concept of integrated nutrient management is the maintenance or adjustment of soil fertility and plant nutrient supply to an optimum level for sustaining the desired crop productivity through optimization of benefits from all possible sources of plant nutrients in an integrated manner. Application of chemical fertilizer can boost up crop yields, but it impairs soil properties. Therefore, an integrated use of different sources of plant nutrients is required to check nutrient depletion, maintain soil fertility and crop productivity" (Behera et al., 2025; Gautam et al., 2025). Millets have been accorded a prominent position as a superfood in the budget (Agriculture Budget 2023 presented by Finance Minister Mrs. Nirmala Sitharaman in parliament on February 1) and are now renamed as "Shree-Anna" due to their importance as healthy food. The United Nations declared 2023 International Year of Millets to increase the production and consumption of millets. Earlier, 2018 was declared the National Year of millets. They are excellent crops for more intensive cropping systems because of their maturation and all-season growth characteristics. These may thrive in arid and unfavourable weather conditions, can grow in relatively poor soils, and need comparatively fewer external inputs than major cereals. Millets are nutrientdense staple foods that may be used as both and fodder. The cultivation ecologically sound and hardy millets may be a prudent alternative for optimum output with food and nutritional security in the changing scenario of global warming and climate change.

"Millets can help contribute to some of the biggest global challenges, such as nutrition and health needs, climate change mitigation and adaptation, and livelihoods of smallholders, particularly in resource-constrained dryland Millets considered nutritiousareas. are cereals due to their high nutritional content, and their potential to address climate change and food security is not entirely realized. The consumption of millets by the people is increasing in recent times due to its nutritional benefits" (Prabhakar et al., 2023; Boruah et al., 2024).

Finger millet originated in Africa, from where it was domesticated in Asian regions around 5000 BC. It belongs to the Poaceae family and is locally called ragi or *marua* in India. Finger millet (Eleusine coracana L.), also known as African millet and bird's foot millet, is a major millet that ranks third in India in terms of area and production. It is a versatile crop with a high nutrient profile of protein (6-8%), fat (1.3%), calcium (70-76%), lysine (2.86%), tryptophan (1.39%),methionine (2.86%),vitamins, minerals, and fibre (Aparna and Ansari, 2017). It has the highest iodine level of all the food grains and the highest calcium content of all the cereals.

Finger millet has the distinction of having the highest productivity among millets, accounting for nearly 85 per cent of the production in India (Sakamma *et al.*, 2018). In India, the area, production, and productivity are 10.37 lakh ha, 13.86 lakh tonnes and 1336 kg ha<sup>-1</sup>, respectively (Anonymous, 2023).

The application of higher levels of chemical fertilizers causes health hazards and reduces microbial population in soil. Also, the because of higher application could lead to residues in grains, fruits and vegetables. There is also a problem of loss of applied fertilizer through leaching, volatization and denitrification of nitrogen. To overcome this, the use of organic sources is the solution, which aims at cooperating rather than confronting sustainable productivity.

Among organic sources of nutrients, nitrogen plays an important role. It can be applied through organic sources, viz. FYM, vermicompost and poultry manure are the major sources which play a vital role in organic nutrient management, and it is a form of nutrient recycling. FYM increase the adsorptive power of soil for cations and anions, particularly phosphates and nitrates. These adsorbed ions are released slowly for the benefit not only of the current crop but also to succeeding crops (Singh et al., 2013). FYM supplies all major nutrients, i.e. (N, P, K, Ca, Mg, S) necessary for plant growth as well as micronutrients (Fe, Mn, Zn and Cu). FYM also improves soil water holding capacity.

"Vermicompost technology for composting of organic wastes is remarkably effective for reducing the processing time of decomposition and producing good-quality compost in terms of nutrients. It serves as an important component of an integrated plant nutrient supply system for balanced fertilization, along with maintaining health to sustain the productivity of soils" (Chaudhary et al. 2004). by providing nutrients such as N, K, Ca, Mg, P and micro elements such as Fe, Mo, Zn and Cu, which can easily be taken up by plants.

Poultry manure is an excellent bulky organic manure. as it contains high nitrogen, phosphorus, potassium and other essential nutrients. In contrast to chemical fertilizer, it adds organic matter to soil, which improves soil structure, nutrient retention, aeration, moisture holding capacity and water infiltration. It is a good source of nutrients for crops. The judicious use of an organic and inorganic combination of fertilizers will maintain long-term soil fertility and sustained higher levels of productivity. In this context, this study aimed to find out the best combination of organic and inorganic fertilizers for maximum production of transplanted finger millet.

### 2. MATERIALS AND METHODS

The experiment entitled "Response Ωf transplanted finger millet to integrated nutrient management under the central Malwa region of M.P." was carried out at a new experimental cum demonstration field. Shri Vaishnav Institute of Agriculture. Shri Vaishnav Vidvapeeth Vishwavidyalaya, Indore, during Kharif 2024. The topography of the experimental field was levelled and well-drained. The soil type was medium black clay in texture with low available nitrogen (208.45 kg ha<sup>-1</sup>), medium in phosphorus (16.54 kg ha<sup>-1</sup>) and high in potassium (436.12 kg ha<sup>-1</sup>). The soil organic carbon content, pH, and EC were 0.50 per cent, 7.37, and 0.78 dSm<sup>-1</sup>, respectively. The field experiment was carried out in randomized block design with eight treatments consisted of T<sub>1</sub> – Absolute control, T<sub>2</sub> - RDF, T<sub>3</sub>-75% RDF + 25% RDN through FYM,  $T_4$  - 50% RDF + 50% RDN through FYM,  $T_5$  -75% RDF + 25% RDN through vermicompost, T<sub>6</sub> - 50% RDF + 50% RDN through vermicompost, T<sub>7</sub> - 75% RDF + 25% RDN through poultry manure, T<sub>8</sub> - 50% RDF + 50% RDN through poultry manure, and each experimental unit was replicated thrice having the gross plot size of 3.60 x 4.50 m<sup>2</sup> and net plot 2.15 x 4.30 m<sup>2</sup>. This experiment tested the recommended finger millet variety, Dapoli 3. A 150 m<sup>2</sup> nursery area was required for raising seedlings for a ha area. The land was ploughed, and beds were prepared with a bed size of 2.0 x 2.0 m<sup>2</sup> with a height of 10 cm. 2 kg FYM and ½ kg urea were applied and incorporated into the soil bed before sowing. The seeds were broadcast evenly on the beds. Powdered FYM over the beds was evenly sprinkled to cover the seeds, and watering was done in the evening hours. Seedlings were ready for transplanting at 21 DAS. One ploughing with a tractor, followed by one harrowing, was done with provisions for irrigation channels and a path. The experimental field was laid out as per the plan of layout. Further, levelling of individual plots was done before transplanting with the help of rakes to facilitate uniform distribution of water and nutrients. One or two seedlings were transplanted on each hill at different distances as per the treatment. The gap filling was carried out as soon as the mortality was noticed after planting to maintain the optimum population. Five representative plants were selected randomly from each net plot to monitor the periodical growth and development stages of the crop. The selected plants were fixed with wooden sticks and labelled with tags. The same plants were harvested separately for recording biometric observations. The standard method of analysis of variance was used for analysing the data for the Randomised Block Design (Panse and Sukhatme,1985). The F-test of significance was used for testing the null hypothesis and the appropriate standard error of mean (SE±) for each treatment effect and where the treatment effect was significant, a critical difference (C.D.) at a 5 per cent probability level was worked out for testing the significance of treatment differences.

# 3. RESULTS AND DISCUSSION

### 3.1 Growth Attributes

Treatment, 75% RDF + 25% RDN through poultry manure recorded significantly maximum growth characters *viz.*, plant height (99.33 cm), number of functional leaves (16.27) plant at 90 DAT, number of tillers hill (13.97) at harvest and dry matter accumulation plant (59.97 gm) at harvest, as compare to all other treatments and was at par with treatment 50% RDF and 50% RDN through poultry manure and RDF. The lowest growth characters *viz.*, plant height (73 cm), number of functional leaves (12.27) plant at 90 DAT, number of tillers hill (10.13) at harvest and dry matter accumulation plant (40.67 gm) at harvest, were recorded under treatment absolute control.

The treatment with integration of inorganic and organic sources provided enough nutrients and organic matter, which ultimately positively influenced the soil environment for the development of more plant growth and ultimately leaves count and other growth parameters. Similar results were reported by Saunshi *et al.*,

(2012), Nigade and More (2013), Aziz *et al.*, (2020) and Vighnesh *et al.*, (2023).

### 3.2 Yield Attributes

In a similar vein, noticeably higher yield contributing character such as number of effective tillers (11.73), number of fingers earhead-1 (7.83) and finger length (7.07 cm) was recorded in treatment 75% RDF + 25% RDN through poultry manure than rest of the treatments and was on par with treatment 50% RDF and 50% RDN through poultry manure and RDF. Whereas, the minimum number of effective tillers (7.50), number of fingers earhead-1 (5.33) and finger length (5.20 cm) were recorded under treatment absolute control.

This ensured continuous availability of nutrients throughout the crop growth stages due to steady transformation. mineralisation. solubilization. decomposition of minerals and nutrients that might have helped in ensuring superior yield attributing characters by organics. Similarly, this could be because organic manure application favourable environment provided а microorganisms, which helped in the fixation, assimilation and absorption of nutrients and thus resulting in higher yield attributes and yield. Similar findings were observed with Ullasa et al., (2020), Patil et al., (2018), Harika et al., (2019), Monish et al., (2019).

# 3.3 Yield

The grain yield, straw yield, biological yield and harvest index of finger millet were significantly influenced by different treatments.

Table 1. Growth attributes of finger millet as influenced by different treatments

Treatments	Growth attributes of finger millet			
	Plant height	No. of leaves	No. of	Dry matter
	(cm)	plant <sup>-1</sup>	tillers hill <sup>-1</sup>	plant <sup>-1</sup> (gm)
T <sub>1</sub> : Absolute control	73.00	12.27	10.13	40.67
T <sub>2</sub> : RDF (40:40:20 N, P <sub>2</sub> O <sub>5</sub> , K <sub>2</sub> O kg ha <sup>-1</sup> )	95.00	14.67	12.47	55.00
T <sub>3</sub> : 75% RDF + 25% RDN through FYM	87.33	13.50	11.73	50.33
T <sub>4</sub> : 50% RDF + 50% RDN through FYM	83.67	13.33	11.30	49.33
T <sub>5</sub> : 75% RDF + 25% RDN through VC	90.33	14.23	12.00	53.67
T <sub>6</sub> : 50% RDF + 50% RDN through VC	89.33	13.60	11.90	52.33
T <sub>7</sub> : 75% RDF + 25% RDN through PM	99.33	16.27	13.97	59.97
T <sub>8</sub> : 50% RDF + 50% RDN through PM	97.08	15.00	12.80	56.67
S. Em. (±)	2.24	0.56	0.49	1.83
CD at 5%	6.80	1.70	1.50	5.56
General mean	89.38	14.11	12.04	52.25

Table 2. Yield attributes of finger millet as influenced by different treatments

Treatments	Yield attributes of finger millet			
	No. of effective tillers hill-1	No. of fingers ear head <sup>-1</sup>	Test weight (gm)	Finger length (cm)
T <sub>1</sub> : Absolute control	7.50	5.33	2.63	5.20
T <sub>2</sub> : RDF (40:40:20 N, P <sub>2</sub> O <sub>5</sub> , K <sub>2</sub> O kg ha <sup>-1</sup> )	10.20	6.73	2.72	6.63
T <sub>3</sub> : 75% RDF + 25% RDN through FYM	9.47	6.23	2.82	6.17
T <sub>4</sub> : 50% RDF + 50% RDN through FYM	8.97	6.00	2.75	5.93
T <sub>5</sub> : 75% RDF + 25% RDN through VC	9.63	6.67	2.85	6.40
T <sub>6</sub> : 50% RDF + 50% RDN through VC	9.60	6.27	2.81	6.20
T <sub>7</sub> : 75% RDF + 25% RDN through PM	11.73	7.83	2.85	7.07
T <sub>8</sub> : 50% RDF + 50% RDN through PM	10.45	7.23	2.83	6.70
S. Em. (±)	0.52	0.44	0.11	0.15
CD at 5%	1.59	1.33	NS	0.44
General mean	9.69	6.54	2.78	6.29

Table 3. Grain yield, straw yield, biological yield and harvest index of finger millet as influenced by different treatments

Treatments	Grain yield (q ha <sup>-1</sup> )	Straw yield (q ha <sup>-1</sup> )	Biological yield (q ha <sup>-1</sup> )	Harvest index
T <sub>1</sub> : Absolute control	5.66	11.00	16.66	33.66
T <sub>2</sub> : RDF (40:40:20 N, P <sub>2</sub> O <sub>5</sub> , K <sub>2</sub> O kg ha <sup>-1</sup> )	11.32	22.82	34.14	33.19
T <sub>3</sub> : 75% RDF + 25% RDN through FYM	9.85	19.62	29.47	33.36
T <sub>4</sub> : 50% RDF + 50% RDN through FYM	9.35	19.25	28.60	32.70
T <sub>5</sub> : 75% RDF + 25% RDN through VC	10.22	20.85	31.07	32.82
T <sub>6</sub> : 50% RDF + 50% RDN through VC	10.09	20.36	30.45	33.14
T <sub>7</sub> : 75% RDF + 25% RDN through PM	12.56	25.28	37.84	33.02
T <sub>8</sub> : 50% RDF + 50% RDN through PM	12.06	23.31	35.37	34.18
S. Em. (±)	0.66	0.83	1.28	1.83
CD at 5%	2.00	2.51	3.88	NS
General mean	10.14	20.31	30.45	33.26

Treatment, 75% RDF + 25% RDN through poultry manure, recorded significantly higher grain yield (12.56 q ha<sup>-1</sup>), straw yield (25.28 q ha<sup>-1</sup>) and biological yield (37.84 q ha<sup>-1</sup>) over the rest of the treatments and was on par with treatment 50% RDF and 50% RDN through poultry manure and RDF. While the lowest seed yield (5.66 q ha<sup>-1</sup>), straw yield (11 q ha<sup>-1</sup>), and biological yield (16.66 q ha<sup>-1</sup>) at harvest were observed under treatment absolute control.

Higher grain yield due to the combined application of inorganic fertilizers and organic manures might have been attributed to sustained nutrient supply and, as a result of better utilisation of applied nutrients through improved micro-environmental conditions, especially the activities of soil micro-organisms involved in nutrient transformation and fixation. The increased dry matter production in plants

may have enhanced the growth and yield characteristics when using the optimum amount of fertilizers and integrated nutrient management treatments, leading to higher finger millet stover yields. These findings are in agreement with those obtained by Marwein et al., (2019), Amarghade and Singh (2021), Ledhan et al., (2021) and Kumari et al., (2025).

# 4. CONCLUSION

The application of 75% RDF + 25% RDN through poultry manure demonstrated comparable outcomes. Consequently, this treatment resulted in higher growth, yield attributes and yield as compared to the remaining treatments. Hence, it is advisable to apply 75% RDF + 25% RDN through poultry manure for getting maximum yield of finger millet (*cv.* Dapoli 3) under the central Malwa region of M. P.

# **DISCLAIMER (ARTIFICIAL INTELLIGENCE)**

Author(s) hereby declare that NO generative Al technologies such as Large Language Models (ChatGPT, COPILOT, etc) and text-to-image generators have been used during writing or editing of this manuscript.

### **COMPETING INTERESTS**

Authors have declared that no competing interests exist.

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