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INVIGORATION TREATMENT OF DOMESTIC WASTES EFFECT ON SEED GERMINATION OF MARUA *(ORIGANUM MAJORANA)* AND MAIZE *(ZEA MAYS)*

MANOJ KUMAR [1] | V.K. PRABHAT [2]

[1] P.G. DEPARTMENT OF BOTANY, MAGADH UNIVERSITY, BODH GAYA.

[2] P.G. DEPARTMENT OF BOTANY, MAGADH UNIVERSITY, BODH GAYA.

ABSTRACT:

The present communication deals with Invigoration treatment of effect of domestic wastes on germination of Marua and Maize. As saying the activity of enzymes related with hydrolysis of reserve food of seeds. The work of cow dung, whey, papaya peel, orange residue waste liquid sprayed on Marua and Maize. The result reveled on germination of Maruas and Maize the domestic waste would be beneficial for crop plants.

KEYWORDS:

DOMESTIC WASTE, MARUA, MAIZE, SEED GERMINATION.

INTRODUCTION

The wastes of cow dung, whey, papaya peel, orange residue are beneficial for the crop plants. The waste influence Maize is popularly known as "corn" and belongs to family of Graminae. Maize is a leafy stalk whose kernels have seeds inside. It is an angiosperm, which means that its seeds are enclosed inside a fruit or shell. Marua is a course grain crops and considered to be the poor man's stable nourishment and suitable to cultivate in dry lands Marua helps in reducing weights, diabetes and osteoporosis and Marua aata useful in religious purposes..

MATERIAL AND METHODS

50g of wastes of whey, papaya peel, orange residue and cow dung were taken and soaked for 18 hours separately in 200 ml of processed wastes at 10^0c taking them in plastic mugs. The mugs were covered with polyethylene sheets. The content of mug was shaken at an interval of 3 hours with glass rod to mountain homogeneity of the wastes. Soaked seeds were washing with tap water taking 10 seds per most blotter in ten replicates. These were maintained at 30 ± 0.5^0C for six days in diffused light of 5000 line control was maintained of the seeds soaked only in tap water. The records of germination percent besides the rate of germination were calculated.

RESULT & DISCUSSION

The work treatment on germination of Marua in cow dung 74.6, whey 86.0, papaya peel 70.6, orange residue 76.6 and control 60.3 and in Maize the waste in cow dung 54.6, whey80.0 papaya peel 60.2, orange residue 62.2 and control 50.6 and Rate of germination in Marua in cow dung 16.52, whey 18.92, papaya peel 20.26, orange residue 18.76, and control16.06 and an Maize the cow dung 20.54, whey 20.36, papaya peel 22.62, orange residue 22.52 and control 16.86.

TABLE–1 GERMINATION (%) AND RATE OF GERMINATION OF TREATED PLANTS MARUA ANDMAIZE SEEDS

				Waste			
SI. No.	Content	Plants	Cow dung	Whey	Papaya Peel	Orange Residue	Control
1.	Germination	Marua	74.6	86.0	70.6	76.6	60.3
		Maize	54.6	80.6	60.2	62.2	50.6
2.	Rate of germination	Marua	16.52	18.92	20.26	18.76	16.06
		Maize	20.54	20.36	22.62	22.52	16.86

CONCLUSION

This is concluded that the use of domestic waste in plant nourishment would be beneficial for crop plants viz. Marua and Maize. All the four wastes provided the best for Marua by cow dung and Maize. The rate of germination of seeds was higher due to effect of wastes.

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