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Effect of Sample Size on Communication and Adoption of EM Technology for Soybean

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Research Paper - Microbiology

ABSTRACT

Effective microorganisms (EM) are plant growth promoting rhizobia, phosphate solubilizing bacteria (PSB), Trichoderma species etc. These microorganism actively involved in improvement of growth and yield of crop cultivated in semi-arid tropical part. Certain fungi like Trichoderma and species of Pseudomonas act as potential biological control agents. Members of rhizobacteria congregate and increase in their population and involve in conversion of complex organic nutritional materials into simple. Such nutrients are then easily up taken by plant. During research focus is given on use of EM for Soybean. It was noted that improvement in overall growth of crop was observed because of use of EM. Application of EM was communicated among different groups of farmers in Marathwada region. The criterion considered during the communication was reparation of EM, application of EM and sowing the seeds. The adaptation and understanding of technology was less when size of sample (farmers) was high, whereas effective use of technology and its adaptation by the farmers was high when the size of sample is reduced.

Key words: Effective microorganisms, Communication, Adoption, Technology.

Introduction

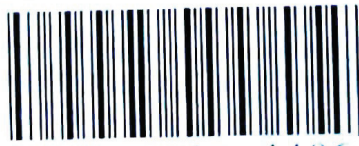
Effective microorganisms are Rhizobium and Bradyrhizobium species used as

Methods for EM preparation in small size sample was 77.97 %correct, while in large sample size, it was only 26.25 %. Method for EM application in small sample size was 91.82 % correct, while in large sample size, it was only 33.27 %.Sowing by drilling method in small size sample was 85.02 %correct, while in large sample size, it was 52.2 %.Sowing by dibbling method in small size sample was 73.87 %correct, while in large sample size, it was only 16.82 %.The awareness for communication and adaptation of EM technology in both the sample was calculated. In small sample size it was 83.32 %, while in large sample size, it was only 22.42 %. These observation suggests that when size of sample is small, adaptation of technology is high. It was also observed that the proper communication was carried with small sample size.

References :-

- 1) Barbour, W. M., Dennis, R. H., and Garry Stacey. (1991). Chemotaxis of *Bradyrhizobium japonicum* to soybean exudates. *Applied and Environmental Microbiology*. 57 (9):2635-2639.
- 2) Chakravarthy, J., (2004). *Net, Media and Mass Communication*. Author Press, New Delhi.
- 3) Palghadmal, K., and Bhosale, A.M., (2009). Biocontrol efficiency of *Bradyrhizobium japonicum* against pathogenic fungi. *Bioinfolet*. 6 (4): 293.
- 4) Ram Reddy, S.Rao, M.S., Krishna Reddy, V., and Mahendra Reddy, M. (2002). *Rhizobium legume symbiosis in Fronties in Microbial Biotechnology and Plant Pathology*, edited by Manoharachary C., Purohit D.K., Rama Reddy S., SingaraCharaya, and Grishnan. pp 81-90.
- 5) Weaver, R. W. and Wright, S. F., (1987). Variability in effectiveness of rhizobia during culture and in nodules. *Appl. Environ. Microbiol*. 53 (12):2972- 2974.

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