

SABUJEEMA An International Multidisciplinary e-Magazine

Article ID: SIMM0405 Popular Article Stem application technology - Whether feasible for Cotton farmers

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How to Cite this article

Archana. 2024. Stem application technology - Whether feasible for Cotton farmers. *Sabujeema-An International Multidisciplinary e-Magazine*. 4(6): 34-35

Open Access

Abstract

Pallegadda is a Village in Marrikal Mandal of Narayanpet District of Telangana State, India. It belongs to Telangana region. It was located 30 kilometres from district headquarters Narayanpet. One kilometre from Dhanwada. Pallegadda village was by Devarakadara mandal surrounded towards East. Narva mandal towards South. China Chintakunta mandal towards South, Koilkonda mandal towards North, where with gross cropped area around 6100 acres under which more than 5000 acres area was cultivated Cotton under rainfed condition. The farmers in Pallegadda village were fed up with pests & their damage in Bt Cotton, Department Agriculture of officials demonstrated the effective management of sucking pests in farmer fields through stem applicator.

Problem:

Most of the farmers raised the Cotton crop under rainfed condition. Average yields of Cotton in this village were 6 to 7 quintals per acre due to severe infestation of sucking pest complex. These pests suck the liquid from the leaves and boll of the plants and thus restrict the growth of the boll and as well as the plants. It ultimately leads to decrease in yield and also chances of crop failure.

Technology interventions intervention details and economics involved:

DAATTC, Mahabubnagar scientists were promoting stem application method in Cotton through Frontline demonstrations, trainings and method demonstrations in farmer fields for the control of sucking pests in erstwhile Mahabubnagar district. This stem applicators were distributed by Department of Agriculture on cost basis in Pallagadda village where farmers were ready to adopt the stem applicator technology in 500 acres. Wide publicity was given through electronic and print media on this technology and farmers were well educated about the stem application technology through trainings and method demonstrations. Stem application in Cotton showed better performance when compared to the other farmers field.

The number of spray required for control of sucking pests were reduced by 3-4 sprays and an amount of Rs 2100/- was reduced on purchase of systemic insecticides. On an average, Cotton kapas yield (1425kg/ha) under demonstration fields was higher by 6



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percent as compared to farmer's practices (1345kg/ha). The results indicated that the demonstration has given good impact in terms of yield and income with a gross income of Rs 54,150/-, net income of Rs22, 00/-, and c compared to farmers pro-of Rs 51110/-, net income of re-and cost benefit ratio of 1:1.50). Impact on the technology revealed that the net income increased by 13 percent over the farmer's disciplination practice. • f intervention: • an eco-friendly, cost-• the cost on 400/-, and cost benefit ratio of 1:1.70 as

& State Dept. of Agriculture. The fellow farmers from the same village and adjacent villages are motivated to adopt technology in 600 acres in next Kharif season 2023-24. **Photographs** comparative or photographs



Testimonial from farmer:

The farmers were adopted this methodology and expressed their happiness towards eco-friendly and cheaper technology for effective management of

