

Economic Analysis of Cotton Production Using Integrated Pest Management Technologies in Andhra Pradesh

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ABSTRACT

This study has been undertaken to make cotton production in the state of Andhra Pradesh globally competitive by reducing the cost of production at farmer's level through adoption of new pest management technologies, namely Integrated Pest Management (IPM). A sample of ten experimental and ten control plots has been taken for each technology in three villages every year consecutively for 5 years period. Every year the farmers were changed from the same village. The study has revealed that the adopters of IPM could get higher yield as compared to non-adopters. These technologies have been found cost-effective due to reduced cost of per quintal production by Rs 129. These technologies have been found to generate more income as the adopters could earn Rs 4072/ha when compared to the non-adopters. The IPM technologies have reduced the cost of plant protection by 27 per cent. Total number of sprays reduced considerably by 3.3 sprays with adoption of IPM. This was apparent from the results that saving in plant protection by adoption of IPM is 1401/- The cost-benefit analysis has shown these technologies to be economically viable. These technologies will reduce the chemicals-consumption and enhance the productivity of cotton on sustainable basis with lower cost of production, which in turn would protect the environmental health and economic condition of the debt ridden cotton growers on a long-term basis.

key words : Cotton production, Integrated Pest Management Technologies.