



RESEARCH PAPER

Impact assessment of pigeonpea (Tur) variety released by Dr. PDKV, Akola

N.V. Shende, Devyanee K. Nemade*, Vanita K. Khobarkar and R. D. Vaidkar

Department of Agricultural Economics and Statistics, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola (M.S.)
India (Email: devyanee_2007@rediffmail.com; devyaneenemade07@gmail.com)

Abstract : In the varietal front the Pulses Research Station, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola has made significant progress by releasing 3 excellent pigeonpea, Variety for Maharashtra. In Pigeon pea variety PKV Tara was released in 2013. In pigeonpea, PKV Tara variety is resistant to wilt disease and moderately resistant to sterility mosaic (SMD). Seeds are generally medium bold in size with red seed colour specially. It is suitable for cultivation in Vidarbha region of Maharashtra under normal condition. It is high yielding variety. It gives 18-20 q/ha yield and crop duration is of average 176 days. PKV Tara variety is mostly adopted in states like Maharashtra, Madhya Pradesh, Karnataka, Gujarat and Chhattisgarh. The main objective of this study, to study the growth rates of area, production and productivity of selected pigeonpea crop, to examine the varietal status of University released selected pigeonpea and to assess the economic impact of University released selected pigeonpea. The data on area, production and productivity of pigeonpea for Maharashtra and India was collected from the annual report, Ministry of Agriculture and Farmers welfare, Government of India for the year 1990-91 to 2019-20. The information on expenditure on research, extension, salary, contingency etc. was availed from the office record of Pulses Research Unit, Dr.PDKV, Akola. Data on seed sale of PKV Tara were collected from Pulses Research Unit, Dr.PDKV, Akola and Mahabheej, Akola. The data on costs and returns of pigeonpea PKV Tara and other varieties data of pigeonpea crop for the year 2019-20 were compiled from the pigeonpea quick estimate reports of Agricultural Price Cost and Scheme, Department of Agril. Economics and Statistics, Dr.PDKV, Akola. In addition to this primary data has been collected from the survey of sample cultivator through personal interview with help of pre-tested and structured schedule for the year 2019-20. Partial budget approach was used for estimating the impact of research outcome on income generation. Partial budgeting is a method of organizing experimental data and information about the cost and benefits from some change in the technologies being used on the farm. The aim is to estimate the change that will occur in farm profit or loss from some change in the farm plan (Boehlje and Eidman, 1984). The growth rates of area and production of pigeonpea for Maharashtra state was observed to be negatively significant at 1 and 5 per cent level of significance, respectively for the entire period of 19 years. The total economic worthiness of University released pigeonpea production technology over other competing varieties of pigeonpea in the region were Rs. 9654.09/-, per hectare. It means the Net Economic Impact to the farming community in Maharashtra state were Rs.12. crores for pigeonpea, respectively in the year 2019-20. The area under University released tur varieties for the year 2019-20 were 33080.40 hectare. The gross economic impact of University released pigeonpea varieties was Rs. 841.68 crores for six year. It is, therefore, the that government should provide substantial funds to the University for further Research and Extension of their varieties for benefit of the farming community.

Key Words : Assessment of pigeonpea, Variety

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*Author for correspondence: