

Study on farm power availability in Aligarh district

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■ **ABSTRACT** : Farm tractors and equipment play a key role in presenting Agriculture production system, during last three decades the use of animal power has declined and role of electro-mechanical power has increased in Indian Agriculture. During this period, Indian Tractor Industry showed rapid growth and Indian become the largest manufacture of tractors in the world with a record annual production of more than 250000 tractors. Certain increase in awareness of about tractor machinery system had led to more of its use at India farm mainly on medium and large farms. Diverse agro-climatic and socio-economic conditions practices. Now small formers also get their farm work done on custom hiring, especially for tillage work as bullocks required more time for seed bed preparation. At present, tractors are not utilized evenly by different categories of tractor owner farmers due to variation in land handing pattern, cropping system and socio-economic condition. Sizeable use of tractor for non-agriculture works was in vague. The non-agriculture work were accomplished by own tractors or custom hiring basis. Farmers used tractors on tractors on custom hiring as an entrepreneurship as this fetched direct income to farmers. It has been observed that many tractor owners took this as a business. A detailed study was done to know use pattern in terms of age and use hours, custom hiring and agriculture works as work as non-agriculture works, maintenance cast and frequency of breakdowns and mean time between failures. To determine above, a survey study was undertaken in the district Aligarh. The data were collected through personal interview in a specially designed schedule for this study. A detailed schedule was prepare encompassing the details of tractor owners both personal and their tractor machinery system. Tractor use patterns in term of agricultural, non-agricultural use, operation wise, use machinery ownership patterns; age and use hours were collected. The farmers owned highest percentage (22 %) Massey Tractor in the study area. Total culturable command area is 881 ha. Total number of tractor uses 110. Total number of stationary Engine and Electric Motor is respectably 115 and 95. Total power used Hp/ha is 5.45. Only one power tiller is available in five villages.

■ **KEY WORDS** : : Tractor industry, Power availability, Sources of farm power, Tractor marketing, Tractor utilization

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