

Field evaluation of tractor operated two row cotton picker

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ABSTRACT : The tractor operated two row cotton picker is evaluated for its field performance for picking of cotton for varieties sown *i.e.* BN BT, Bunny BT and NHH-44. The test is carried on the experimental plot of University farm, Dr. P.D.K.V., Akola. The test observation is under taken with the objective to evaluate field performance and feasibility testing of mechanical tractor operated two row cotton picker. The crop was sown with 100 cm row to row spacing. The plant to plant spacing was 20 cm, 30 cm and 60 cm. The average effective field capacity is found to be 0.76 ha/h with field efficiency of 86.51%. The mechanical two row cotton picker is performed in selected experimental plot having average forward speed 4.38 km/h with fuel consumption of 12.75 l/hr (16.84 l/ha). The pre harvesting loss is recorded as 142.1 kg/ha with seed cotton harvested by machine is found to be 283.1 kg/ha. The picking efficiency of mechanical cotton picker is 77.42 % with mechanical picking efficiency of 59.54%.

Key Words : Tractor operated two row cotton picker, evaluation, field performance.