PERFORMANCE EVALUATION OF COMBINE HARVESTER AND COMBINATION OF SELF PROPELLED VERTICAL CONVEYOR REAPER WITH THRESHER FOR WHEAT HARVESTING

C.S. PAWAR, N.A. SHIRSAT AND S.V. PATHAK

ABSTRACT

Wheat crop which was ready for harvest in the field at MPKV, Rahuri was harvested by combine harvester (SWARAJ 8100) and combination of self propelled vertical conveyor reaper with thresher (SAECO) for different cylinder speeds. The study was undertaken to determine the field losses and cost of economics of combine harvester and combination of self propelled vertical conveyor reaper with thresher. The analysis of data and results obtained from the comparative evaluation of both the machines shows that the total field loss of combine harvester i.e. 4.20% was less than the combination of self propelled vertical conveyor reaper with thresher i.e. 10.57%. The cost of operation for combine harvester was 817.84 Rs./ha which was less than the combination of self propelled vertical conveyor reaper with thresher i.e. 1816.79 Rs./ha. Thus, the combine harvester and combination of self-propelled vertical conveyor reaper with thresher were more suitable for large fields and small fields respectively.