Abstract
The present research was carried out on the Agroindustrial Rice Complex "Los Palacios", on the Pinar del Rio province. The investigation had as objective the study of the technological complex of harvester-transport of the rice with the combine New Holland TC-57 and the tractor New Holland TS-6020 with two trailers RA-6, for searching his rational composition. For the solution of this problem was used the Queueing Theory, considering the harvester-transport process of the rice, this give the possibility about probabilistic basis and the economical criteria of the minimum expenses added for stopped of the combine and means of transport in service, therefore determine the optimum quantity of means of transport for a harvester brigade.

Keywords
Rational composition, harvester-transport, queueing theory.