

IN SHRIMP PROCESSING FACTORY SORTING FROZEN SHRIMP USING QUEUE MODEL

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Thesis, Information Management, 1997

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Keyword: Sorting shrimp frozen shrimp processing plant using queuing models, and can also use computer programs especially those that use a multi-channel queuing model-single phase

Abstract:

Frozen shrimp processing system is a complex activity, because this activity is influenced by many factors in an effort to produce good quality frozen shrimp. One such factor is the existence of frozen shrimp processing delays. This delay occurs because the rate of service of a particular process step is smaller than the rate of arrival, as in the sorting stage. With the delay in this process, it can cause a decrease in the quality of shrimp and ultimately will affect their economic value. Queuing model contained in the sorting system is double track queue model - single phase service and control based on the notation can be formulated into (GI/GI/15): (FCFS / F / I). This formulation explains that the arrival rate of spread of shrimp basin in particular (GI), service time sorting shrimp also spread in particular (GI), the number of service facilities have 15 units, which applies FCFS queue discipline, which allowed the long queues formed as a limited (F), It is consist of 60 tanks of shrimp (24 tons of shrimp) and the source of the shrimp populations are assumed to come from an infinite population (I).

To take the right policy to tackle this queue, then use sensitivity simulations (that include some amount of time between arrival of input factors and the number of facilities in different services).

Appropriate policies and beneficial in overcoming the problem by increasing the number of queues is the sort of service facilities as much as 2 units taken from the lower level of service resort arrival (λ) approaches the service rate (μ) is new. Created computer program that can be used to solve the queuing problem sorting shrimp in shrimp processing factories of other frozen, provided that the multiple-channel models - single phase.

Bibliography: 5 (1962 - 1984)