ABSTRACT

The analysis doubled linear regression is used to detect any technical factors that influence the production (catch result) of fishermen who operate the catch unit of drift gill net in the waters of Makassar Strait. Sampling locations are determined with Purposive Sampling with several considerations. The sampling is implemented by using the stratified random sampling to each research area. The data processing uses SPSS 10.0 program with result: Y dependent variable = Catch result production is clarified in the unit of kg per season significant to X1 independent variable = Size of the boat and sail, are clarified in the unit of (gross tonase and m²), X3 variable = The size of the mover machine power, is clarified in the unit of (horse power), X4 variable = The amount of drift gill net which operate by the fisherman is clarified in the unit of (piece), X6 variable = the number of fisherman per catch unit, is clarified in the unit of (person), and X7 variable = Experience as fisherman, is clarified in the unit of (year). Dependent variable which is not significant to the variable independent is X5 variable = The number of operation day per season, is clarified in the unit of (day), and the variable of X8 = the experience of the fisherman operating the unit of drift gill net catch, is clarified in the unit of (year).

Key words: production factor, catch effort, drift gill net.