

ABSTRACT

Purse seine is one of fishing gear that could produce the largest catch in Pekalongan Fishing Port compared with the other gears. However year by year the whole production tend to decreased.

The objectives of the study are (1) analyse production factors most influence the catches (2) estimate cost and return (3) estimate crew income through the sharing system in purse seine fisheries.

The sampling method takes the *purposive sampling* toward 233 purse seiners. Data analyses used are *Regression Analisis of Cobb Douglass Production Function* using *SPSS Software* and Return and Cost analyses using *Excell Software*.

The estimation result shows that factors i.e. vessel influences production of catch significantly, however bigger the vessel production is tend to decrease. Gear influences production, bigger the gear will increase production. Number of crews doesn't influence production, even more crew could decrease production since employment condition has already in matured. Diesel oil influences production. Trip doesn't influence production. Fish aggregating lamp influences production of catches, however more lamp tend to decrease production since lamp usage have already in over power. Provision doesn't influence production significantly.

The other factors out of model most influence significantly to the catch production are the abundance of pelagic fishes resources in each fishing ground and also the number of fishing vessels operated.

The estimation result shows that MEC value (Marginal Efficiency of Capital) = 9,2631 % (still below the current rate of interest), Profit Rate = 0,0184 and R/C Ratio = 1,0184 are low, so it is not feasible to run at least for present time.

Production average 1995 - 2005 tend to decrease, CPUE also tend to decrease. Compared with 2004 year, 2005 production decrease by 15.704.025 kg or 42,35%, but CPUE increase from 28.794,63 kg (2004) to 29.821,09 kg (2005).

During research period production average per trip 25.640,99 kg value Rp 109.439.940,- Owner sharing Rp 28.077.060,-, skipper sharing Rp3.316.670,-, and common crew sharing Rp669.060,-(not more than Regional Minimum Wage)

Ship owners should give free choice to skippers on purchasing of provisions needed for operation in suitable sum and also the kind of provisions. Relation with the limitation of the numbers of fishing vessels concerning to avoid over exploited, the authority had better to stop to give *fishings licence* specially for new vessels. Purse seiner fishing should be managed in a national frame or at least inter regions, since this activities involved some fishing grounds belong to different provinces and regions (WPP / Fisheries Management Region). Purse seiner should not use fish aggregating lamp in over power, since it is unproductive even could create conflict with non purse seiner fishermen.

Key words : purse seine, production, decrease, cost-return, sharing system