

COST-REVENUE ANALYSIS OF TAIWANESE PAIR TRAWLER OPERATED IN AUSTRALIAN WATERS

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ABSTRACT

This report is based on the information of the saling price of fish, the cost of fishing boat company, and the catch statistics of Taiwanese pair trawler which operated in Australian waters. The authors utilized the cost-revenue model to analyze the profitability and feasibility of the recent (1980) management and investment of pair trawler fishery in 200 miles of Australian waters.

In 1980, under 6% fishing charge, the Net Present Value of each invested pair trawler is US\$ -2,945,600.50 in ten years. However, according to the operation of those seven-year pair trawlers, their Annual Receipt (AR) and Net Annual Receipt were still negative values (US\$ -247,248.00 and US\$ -317,248.00 respectively). Therefore, this reveals that the pair trawler fishery operated in Australian waters have confronted previously unseen difficulty, which main reason are due to the booming oil price and the low fish price, etc.

INTRODUCTION

It has been the tenth year for Taiwanese pair trawler to operate in the Northern and North-western part of Australian Waters since July 1971. The landings by pair trawlers in these areas had occupied a significant part of the Taiwanese pair trawlers catches since 1973 (Table 3).

Previously, the authors had studied the demersal fish resources of these areas (Liu, 1976 & 1978) and provided the preliminary cost-revenue analysis of pair trawler fishery (1978, 1979) for discussion with Australian government. (Appendix Tables 1, 2, 3, 4) Here, the authors would like to try to clarify the fishery investment situation in 1980 and compare the profitability of the pair trawler operated from 1978 to 1980. Because to 300-350 tonnage class's pair trawler is composed of the largest part of boats which were allowed to fish in Australian 200 mile fishing zone (Table 2). Therefore, the authors pay their attention to the boat within this tonnage range.

DATA PROCESSING AND ANALYSIS METHOD

I. Data Processing

The operation cost details of fishing company from 1979 to 1980 was provided by Kaohsiung Fishing Boat Commercial Guild. These details was arranged cruisely for analysis.

After 1979, the jobbing market auction bills were collected by Kaohsiung Boat Commercial Guild and sent to the Institute of Oceanography, National Taiwan University weekly. Then, it was computed and arranged in order by species and by market monthly. Therefore, the unit price of 1979 was estimated by the data gathered all year round, while that of 1980 was estimated from the data on Jan.-Jun., 1980. On the other hand, because we have not gathered the auction data, we used the fish price on June to analyze the 1978's situation.

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