

CATCHING EFFICIENCY OF ONE AND TWO VALVES TRADITIONAL CRAB POT  
IN COASTAL WATERS OF OLINGAN, DIPOLOG, CITY ZAMBOANGA DEL  
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ABSTRACT

This study was conducted to compare the catching efficiency of one and two-valve traditional crab pots in two months operation. It was found out that two valve is more effective compare to one valve crab pot. As exemplified on the CPUE of two valves crab pots, it has a CPUE of 0.0508kg/gear/haul while one-valve crab pot has only 0.0358kg/gear/haul. As recorded a total volume of two types of non-return valves was 5,184g. Two non-return valves got the highest volume of catch of 2,922g while one non-return valve has lowest volume of catch of 2,162g. The total crab counts for both gears were 224 individuals. The three spotted swimming crabs *Portunus pelagicus* dominated most of the catches while other crabs were in very minimal numbers. Overall sex ratio (male:female) for both the two gears was 2:1. Statistical Analysis using *T- test analysis* ( $p>0.05$ ) revealed no significant difference on the mean catch (weight and counts) for both gear types.

Furthermore, statistical analysis for lumped data of both gears also revealed no significant differences between catch count, CPUE count, catches weight and CPUE kg/gear/hr in relation to moon phases. Further studies in relation to other factors such as migration, water depth and seasonality must be conducted in order to investigate the efficiency of the gears used in the area.