

Fish and Crab Production: Lessons from Odisha

Pramod Kumar Das*

Lecturer, Department of Economics, Baba Bhairabananda (Autonomous) Mahavidyalaya, Jajpur, Odisha, India

*Corresponding author: pramoddas1977@yahoo.com

Abstract: Odisha is endowed with ample of natural resources which facilitates for development of fisheries and crab also. Near about 4.41% of population depends upon fisheries for their livelihood. The sub-sector fisheries contributes about 9.69% Gross State Domestic Product (GSDP) share to the agriculture sector whereas the contribution of this sector to the total Gross State Domestic Product (GSDP) is 1.81% in the State of Odisha. The objectives of this study are to analyse the trend in total fish production and crab production in Odisha. The present study is secondary data in nature. The study period is taken as from 2007-08 till 2016-17. It is found that the production of fish in Odisha was 349.48 thousand MT during 2007-08 whereas it was 608.10 thousand MT during 2016-17. The average fish production during the study period is 428.591 thousand MT whereas the average crab production in Odisha during the study period is 2.833 thousand MT.

Keywords: Crab, Fish, Production.

1. Introduction

Odisha is endowed with ample of natural resources which facilitates for development of fisheries and crab also. It has a diverse coastline with estuarine, coastal as well as offshore fish resources with substantial inland water resources. Near about 4.41% of population depends upon fisheries for their livelihood. The sub-sector fisheries contributes about 9.69 % Gross State Domestic Product (GSDP) share to the agriculture sector whereas the contribution of this sector to the total Gross State Domestic Product (GSDP) is 1.81% in the State of Odisha. In the national level, the contribution of this sector to the national gross value added (GVA) and agricultural gross value added (GVA) as per 2015-16 are 0.9 percent and 5.43% respectively [Odisha Profile 2018]. The total fish production of the State of Odisha in the year 2016-17 was 6.08 lakh MT whereas Crab production has increased over the years.

2. Review of Literature

Choudhuri et al. (1975) have examined that composite fish culture of the Indian major carp, catla catla, Labeo rohita etc. The management techniques adopted aimed at high yields of marketable fish. The significant changes made to the management schedule in 1973 were increased stocking density, greater use of feed and fertilizers, and provision of more weeds for grass carp. The experimental studies demonstrate the practicability of raising large crops of healthy marketable fish in India.

Parida et al. (2018) have examined on a road map for inland fisheries development in Odisha of India. Sustainable development requires the initiatives in right direction at right time with the availability of most appropriate technology. In order to promote the sustainable fish production along with infrastructural and human resources development besides doubling the farmers income in Odisha, is the reflection of the study.

3. Objectives of the Study

The objectives of this study are as follows:

- 1) To analyse the trend in total fish production in Odisha.
- 2) To study the trend in crab production in Odisha.

4. Research Methodology

The present study is secondary data in nature. The sources of secondary data are from different journals, books, magazines, internet etc. The study period is taken as from 2007-08 till 2016-17. The data is reflected in both actual and percentage figures. Again, the analysis of data is given in the form of tables as well as figures.

A. Analysis and Interpretation of Data

The analysis and interpretation of data are as follows:

1) Trend in total Fish Production in Odisha

The trend in total fish production in Odisha from 2007-08 to 2016-17 is given in table 1.

Table 1

Trend in total Fish Production in Odisha from 2007-08 to 2016-17

Year	Total Fish Production (in Thousand MT)
2007-2008	349.48
2008-2009	374.82
2009-2010	370.64
2010-2011	386.19
2011-2012	381.83
2012-2013	410.14
2013-2014	413.89
2014-2015	469.54
2015-2016	521.28
2016-2017 (P)	608.10

(P): Provisional, Source: Odisha Economic Survey

The table 1 indicates the production of fish in Odisha was 349.48 thousand MT during 2007-08 whereas it was 608.10 thousand MT during 2016-17. The average fish production

during the study period is 428.591 thousand MT. The year 2016-17 is marked as the highest fish production and the year 2007-08 is observed as the lowest production of fish in Odisha during the study period.

The trend in fish production in Odisha from 2007-08 till 2016-17 may be shown in figure 1.

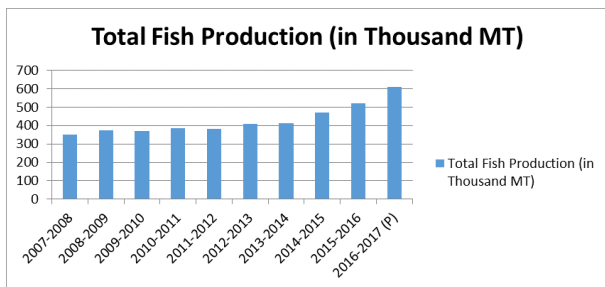


Fig. 1. Trend in Fish Production in Odisha from 2007-08 to 2016-17

2) Trend in Crab Production in Odisha

The trend in crab production in Odisha from 2007-08 till 2016-17 is given in table 2.

Table 2
Trend in Crab Production in Odisha from 2007-08 till 2016-17

Year	Total Crab Production (in Thousand MT)
2007-2008	1.79
2008-2009	2.09
2009-2010	2.43
2010-2011	3.37
2011-2012	2.28
2012-2013	2.35
2013-2014	2.80
2014-2015	3.22
2015-2016	3.77
2016-2017 (P)	4.23

(P): Provisional, Source: Odisha Economic Survey

From the table 2, it is observed that the average crab production in Odisha during the study period is 2.833 thousand MT. The highest total crab production is 4.23 thousand MT during 2016-17 whereas the lowest total crab production is 1.79 thousand MT during 2007-08. It is also marked that the total

crab production in Odisha is increasing trend during the taken period.

The trend in crab production in Odisha from 2007-08 till 2016-17 may be reflected in figure 2.

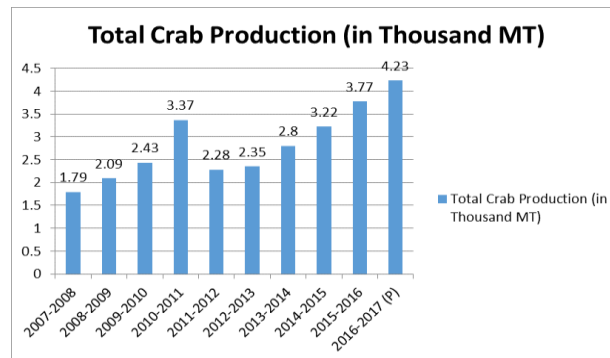


Fig. 2. Trend in Crab Production in Odisha from 2007-08 till 2016-17

5. Conclusion

Fishery and crab sector are the major sector in upgrading economically the fisherman and fish farmers in the form of income and employment generation point of view. For the acceleration of welfare of the fisherman and fish farmers, more attention may be brought with the ongoing schemes in the state of Odisha.

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