

**MARINE FISH PRODUCTION IN TAMILNADU WITH REFERENCE TO RAMANATHAPURAM DISTRICT**

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**ABSTRACT**

A fishery is an important sector in India. It provides many employments to millions of people and contributes to food security of the country. Introduction of new technology in fishing increased not only the output, but also the cost of production. Production cost plays an important role in deciding fishing operations. This paper analyzed the Growth of production and export of Tamilnadu and Ramanathapuram district. The Researcher used from descriptive analysis for mean, standard deviation, Covariance, Compound Annual Growth Rate (CAGR).

**Keywords:** Marine Fisheries, performance, contribution.

**Introduction**

Fish is an important food for mankind as it is capable of making a substantial contribution to the requirements of animal protein of human body. Fish is the only source of animal protein in countries like Japan and China. Fish contains the enriched in protein, fats, iodine and vitamins that human bodies require and it is the easiest digestible sea food for human being. In estimating the nutritive value of the various species of fish, the protein, vitamins and mineral contents are to be considered. This varies from species to species. The fat content shows a wide variation from season to season. The derived fish contains 70 to 80 per cent protein. Besides, the protein contents, the digestibility and the composition of protein make the fish important. This protein has more biological value when compared to milk, meat, soya and rice. The following table-1 exports of fish production in Tamilnadu.

**TABLE -1MARINE FISH PRODUCTION IN TAMILNADU (in Lakhs tonnes)**

Year	Marine	AGR	Total	AGR
2011-12	4.27	-	6.11	-
2012-13	4.28	3.28	6.20	5.2
2013-14	4.32	3.32	6.24	5.24
2014-15	4.57	3.57	6.98	5.98
2015-16	4.67	3.67	7.09	6.09
2016-17	4.72	3.72	6.69	5.69
2017-18	4.97	3.97	6.82	5.82
<b>Mean</b>	<b>4.54</b>	<b>3.59</b>	<b>6.59</b>	<b>5.67</b>
<b>S.D</b>	<b>0.27</b>	<b>0.26</b>	<b>0.40</b>	<b>0.37</b>
<b>CV</b>	<b>5.85</b>	<b>7.24</b>	<b>6.10</b>	<b>6.60</b>

**Source :** Handbook On Fisheries Statistics 2018

From the above table-1 Show that the Marine fish production in Tamil Nadu. The mean value is (4.54) followed by Standard Deviation value is 0.24 and Covariance value is 5.85. The total production of fisheries in Tamil Nadu, the mean value of 6.59, Standard Deviation value is 0.40 and Covariance value is 6.10. The average Annual Growth Rate is Marine fisheries 3.59 and total fisheries in Tamil Nadu for 5.67. The following table-2 export fish production in Tamilnadu .

**Table -2EXPORT OF FISH PRODUCTION IN TAMILNADU**

S.No	Year	Quantity (Tonnes)	Value (Rs. In Lakhs )
1	2008-09	68397	177220
2	2009-10	73327	198207.5
3	2010-11	86181	286019
4	2011-12	80715	302873
5	2012-13	86585	333178

<b>6</b>	2013-14	96429	531629
<b>7</b>	2014-15	93477	503817.9
<b>8</b>	2015-16	85063	418406
<b>9</b>	2016-17	88257	434178
<b>10</b>	2017-18	89524	45106.89
<b>Mean</b>		<b>84795.50</b>	<b>323063.53</b>
<b>S.D</b>		<b>8610.90</b>	<b>154059.81</b>
<b>CV</b>		<b>10.15</b>	<b>47.69</b>

**Source:** Commissioner of fisheries, Chennai

From the above table 4.13 Show that the Marine fish production in Tamilnadu. The mean value is (Quantity 84795.50) and Value is 323063.53. The Standard Deviation value is Quantity 8610.90 and value is 154059.81 and Covariance value is Quantity 10.15 and value is 47.69.

**12 FISHERIES IN RAMANATHAPURAM DISTRICT**

The data on the number of fishing villages, fish landing centers the fishermen population, fishing craft and gear and fishery resources and fish production in this district are a prerequisite for any developmental programme in the fisheries sector. These would also provide the framework or base for the estimation of fish production. A survey conducted by the Assistant Director of fisheries, Ramanathapuram in 2010-11, provides comprehensive information on these aspects.

**Fishing Villages and Landing Centres**

The total number of marine fishing villages in Ramanathapuram district is 184 and there are 73 landing centres. This district has the maximum number of fishing villages and landing centres found in Tamil Nadu. In percentage terms they are 31.13 and 20.74 respectively.

**Fishermen Population and Households**

There are about 168731 fishermen in Ramanathapuram district of whom 86651 are males and 82080 females. The number of households in this district is 25161. The average family size works out to 5.09.

**Fishery Resources**

Ramanathapuram district has extensive fish resources along the north side of the coast. It possesses immense fish production potential. The fish resources comprise of Pelagic fishes, Demersal fishes, crustacean fishes and Molluscan fishes. These resources provide plenty of opportunities to fishermen. The Pelagic fish inhabiting the Pelagic zone contributes to the fishery in the Gulf of Mannar. The major groups are Sardires, anchories, mackerel, Carangids, tunas and seer fishes. Majority of them are caught by gillnet, drift gillnets, drift nets and hook and line and trawl from Rameswaram and Pamban.

The major demersal fish groups consist of silverbellies, rays, perches, goat fishes, sciaenids and barracudas, catfishes and flatfishes which are found in Mandapam region. These are caught by gillnets, hook and lines and occasionally in traps around the islands. The crustacean fishery resource of this region include shrimps, crabs and lobsters. About 95 per cent of the shrimp resources comprise of penaeid prawns. They are found in Pamban, Mandapam, Ervadi, Keelakkarai Valinokkam, Devipattinam and Thondi. They are caught by trawlers and gillnets. The Molluscan fishery resources consists of cuttlefish, squids, chanks pearl and edible oysters and clams which are commonly found in Gulf of Mannar and Palk Bay.

**4.13 MARINE FISH PRODUCTION OF RAMANATHAPURAM DISTRICT**

The following table fish production of Ramanathapuram district and followed marine fish landings in different size of boats in Ramanathapuram district.

**TABLE 4.14 FISH PRODUCTION OF RAMANATHAPURAM DISTRICT**

S.No	Year	Marine	Inland	Total
<b>1</b>	2009-10	92973	5016	97989
<b>2</b>	2010-11	112496	4155	116651
<b>3</b>	2011-12	113433	6221	119654
<b>4</b>	2012-13	114624	7361	121985
<b>5</b>	2013-14	115624	7896	123520
<b>6</b>	2014-15	117562	7965	125527
<b>7</b>	2015-16	118524	8569	127093
<b>8</b>	2016-17	152485	8965	161450
<b>9</b>	2017-18	165243	8978	174221
<b>10</b>	<b>2018-19</b>	175426	9856	185282
<b>Mean</b>		127839.00	7498.20	-

<b>S.D</b>	26761.94	1838.23	-
<b>C.V</b>	20.93	24.52	-

**Source: Office of the Assistant Director fisheries, Ramanathapuram.**

From the above table 4.14 shows that the fish production of Ramanathapuram District. The marine average value of 127839 and inland 7498.20 followed by standard deviation 26761.94 and 1838 .23 from marine and inland fisheries. The following table marine fish landings in different zone of boats in Ramanathapuram district.

**TABLE 4.15 MARINE FISH LANDINGS IN DIFFERENT SIZE OF BOATS IN RAMANATHAPURAM DISTRICT**

S.No	Year	Mechanized Boat	Non-Mechanized			Total
			Motori-sed Boat	Non-Motori-sed	Shore-seine crafts	
1	2009-10	50965	29994	12014	259	92973
2	2010-11	54378.409	18872.507	12864.081	337	86115
3	2011-12	77645	18352	15436	235	111433
4	2012-13	56241	38887	19496	325	114624
5	2013-14	58756	38564	18524	458	115844
6	2014-15	58564	28563	13526	359	100653
7	2015-16	59726.00	20728.46	14129.01	370	94583.47
8	2016-17	60245	22153	14112	353	96510
9	2017-18	61245	22456	13245	326	96946
10	2018-19	67523	23456	13756	313	104735
<b>Mean</b>		<b>60528.84</b>	<b>26202.60</b>	<b>14710.21</b>	<b>333.50</b>	<b>101441.65</b>
<b>S.D</b>		<b>7437.17</b>	<b>7578.87</b>	<b>2445.15</b>	<b>61.17</b>	<b>9948.13</b>
<b>C.V</b>		<b>12.29</b>	<b>28.92</b>	<b>16.62</b>	<b>18.34</b>	<b>9.81</b>

**Source: Commissioner of fisheries, Chennai**

From the table 4.14 shows that the, Marine fish production of Ramanathapuram District. The highest mean value of mechanized (60528.84) followed by Motorized included Seer fish, Perches, Silver, bellies, pomfret, carfish,rays, prawns, crabs, sardines, Thread inbreams, Lethrinus, Serranus, Red-Snapper, Leather-Jacket and cuttle fish of varieties constitute the major share in the landing of fish in this district in terms of quantity (26202.60), non- Motorized (14710.21), shore seine crafts (333.50). The highest production is mechanized products of Ramanathapuram. The following table 4.15 shows that the district wise production of fisheries in Tamilnadu.

**SUMMARY**

This chapter conclude that the performance of marine fisheries in India, Tamilnadu and Ramanathapuram include the market wise exports, port wise exports and products wise exports of India followed by fish production, contribution fish seed production, exports of marine fisheries and inland fisheries.

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