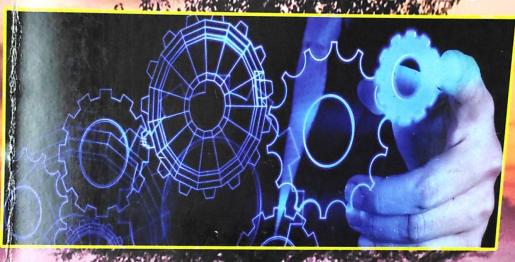


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armed Shrimp Production in India: An Analysis of Recent Trends

ISSN NO:2236-6124.

Asst. Professor of Economics, RRDS Good, Degree College, Balances and (A.P.), India.

The present paper is an attempt to explore and analyze the production trends of cultured shrimp in The production and 2015-16 i.e., for a decade. In the process, the global scenario in relation to shrimp in pansion and production was discussed at the outset, followed by the between 2000 and production was discussed at the outset, followed by the presentation of statistical data for major species of shrimp culture and its production. expansion and properties of shrimp culture and its production. Further, the state-wise statistics of adjusted and analyzed with the help of the state-wise statistics of under the state wise statistics of production in India was tabulated and analyzed with the help of column and line charts. Towards the the paper discussed the future drivers of growth in the sector.

words: cultured shrimp, production trends, major species, future drivers)

Introduction

Shrimp is considered as one of the best nourishing seafoods the world over. It has been a potential exchange earner for many countries. The principal regions in the world that take up shrimp culture ansively and intensively are: South-East Asia, China, India, Americas, and Middle East/North Africa. Shrimp the spurs the growth of a number of subsidiary industries. A positive production trend is observed in major gons for its huge demand in the global market.

discives of the study

le study the growing trends of farmed shrimp production in India;

manalyze the reasons behind the growth; and

lonvision the drivers of future growth in the sector.

louice of data

As the present study is an attempt to explore and analyze the production trends of cultured shrimp in from 2006-07 to 2015-16 i.e., for a decade, it solely depends on secondary sources such as MPEDA, FAO, d Globefish.

Mobal Scenario

Shrimp culture registered enormous growth in the last three decades and established itself as an **Sommer culture registered enormous growth in the last the commercial scale started in the early sometimes activity across the continents. Shrimp farming on commercial scale started in the early sometimes activity across the continents. Shrimp farming countries. But by 1997, 63 countries Mis. By 1984, only 29 countries were listed by FAO as shrimp producing countries. But by 1997, 63 countries and the world's resultance of the world' Moducing shrimp at one time or other, figured in FAO aquaculture statistics. Today, one third of the world's production is from farmed shrimp. Shrimp culture sector in the world has been rapidly expanding, with ground. Production is from farmed shrimp. Shrimp culture sector in the work of the South-East-Asia growth recorded for some years and steady growth observed for some more years. The South-East-Asia growth recorded for some years and steady growth observed for some more years. The South-East-Asia growth recorded for some years and steady growth observed for some more years. The South-East-Asia growth recorded for some years and steady growth observed for some more years. growth recorded for some years and steady growth observed for some Myanmar, and Taiwan, which includes Thailand, Vietnam, Indonesia, Bangladesh, Malaysia, Philippines, Myanmar, and Taiwan, and Taiwan, Indonesia, Bangladesh, Malaysia, Philippines, Myanmar, and Taiwan, and Which includes Thailand, Vietnam, Indonesia, Bangladesh, Malaysia, Philippines, Myanmar, and Taiwan, and Which includes Thailand, Vietnam, Indonesia, Bangladesh, Malaysia, Philippines, Myanmar, and Taiwan, and Which includes Thailand, Vietnam, Indonesia, Bangladesh, Malaysia, Philippines, Myanmar, and Taiwan, and Which includes Thailand, Vietnam, Indonesia, Bangladesh, Malaysia, Philippines, Myanmar, and Taiwan, and Which includes Thailand, Vietnam, Indonesia, Bangladesh, Malaysia, Philippines, Myanmar, and Taiwan, and Which includes Thailand, Vietnam, Indonesia, Bangladesh, Malaysia, Philippines, Myanmar, and Taiwan, and Which includes Thailand, Vietnam, Indonesia, Bangladesh, Malaysia, Philippines, Myanmar, and Taiwan, Indonesia, Philippines, Myanmar, and Taiwan, Indonesia, Philippines, Myanmar, and Taiwan, Indonesia, Philippines, Philippin which includes Thailand, Vietnam, Indonesia, Bangladesh, Maiaysia, which is the state of the continued its analysis of the continued in the continued its analysis of the continued its a a unchallenging production quantity in 1995 with above 0.5 million MT. China, though began slowly with an around 1.5 million MT. China, though began slowly with an around 1.5 million MT. Production even in 2017 with around 1.5 million M1. China, acceptional growth and produced around 1.5 million MT all production quantity in 1995, recorded an exceptional growth and produced around 1.5 million MT

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India also had a minor production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has been picking up fast. Its production quantity in 1995, but it has bee India also had a minor production quantity in 1995, but it has been position, next to South-East Asia in the second position, next to South-East Asia in the around 0.5 million MT in 2017. America was in the second position preceded by South-East Asia in the third position preceded by South-East Asia in the third position preceded by South-East Asia in the third position preceded by South-East Asia in the second India also had a minor production by 1995, but by 2017, it is in the third position preceded by South East Asia in the around 0.5 million MT in 2017. America was in the second position preceded by South East North aquaculture shrimp production by 1995, but by 2017, it is in the third position preceded by South East, North and aquaculture shrimp production by 1995, but by 2017, it is in the third position preceded by South East, North and a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and I will be a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and I will be a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and I will be a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and I will be a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and I will be a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and I will be a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and I will be a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and I will be a minor production by 1995, but by 2017, it is in the third position preceded by South East, North and I will be a minor production by 1995, but by 2017, it is in the third position by around 0.5 million by 1995, but by 2017, it is in advantaged by Middle Bast, Northern 15. China. However, the growth of production in America has been slow but steady. Middle Bast, Northern 15. and other countries also contribute to the world shrimp production but on small scale.

Scenario
India, by virtue of its 8,118 km long coastline, 2.02 million sq. km of Exclusive Economic Zone to India, by virtue of its 8,118 km long coastline, 2.02 million sq. km of Exclusive Economic Zone to India, by virtue of its 8,118 km long coastline, 2.02 million sq. km of Exclusive Economic Zone to India, by virtue of its 8,118 km long coastline, 2.02 million sq. km of Exclusive Economic Zone to India, by virtue of its 8,118 km long coastline, 2.02 million sq. km of Exclusive Economic Zone to India, by virtue of its 8,118 km long coastline, 2.02 million sq. km of Exclusive Economic Zone to India, by virtue of its 8,118 km long coastline, 2.02 million sq. km of Exclusive Economic Zone to India, by virtue of its 8,118 km long coastline, 2.02 million sq. km of Exclusive Economic Zone to India, by virtue of its 8,118 km long coastline, 2.02 million sq. km of Exclusive Economic Zone to India, by virtue of its 8,118 km long coastline, 2.02 million sq. km of Exclusive Economic Zone to India, and In India, by virtue of its 8,118 km long coastine, 200 climate, supports a wide diversity of inland and climate, supports a wide diversity of inland and company and extensive geographical stretch with varied terrain and climate, supports a wide diversity of inland and company and extensive geographical stretch with varied terrain and climate, supports a wide diversity of inland and company and extensive geographical stretch with varied terrain and climate, supports a wide diversity of inland and company and extensive geographical stretch with varied terrain and climate, supports a wide diversity of inland and company and extensive geographical stretch with varied terrain and climate, supports a wide diversity of inland and company and extensive geographical stretch with varied terrain and climate, supports a wide diversity of inland and company and extensive geographical stretch with varied terrain and climate, supports a wide diversity of inland and company and comp and extensive geographical stretch with varied terrain and on the of estuaries and 3.5 million ha of bracking wetland habitats. It is estimated that there is 3.9 million ha of estuaries and 3.5 million ha of bracking wetland habitats. wetland habitats. It is estimated that there is 3.9 Illustrates are more suitable for shrimp production. If suitable areas in the country (WWF). Brackish water areas are more suitable for shrimp and other shell fall. areas in the country (WWF). Brackish water areas in the country (WWF). Brackish water applied, these regions can yield maximum production of shrimp and other shell fish species.

Traditional shrimp farming in India was prevalent in West Bengal and Kerala where imparlas system was practiced with low production levels. Eventually, the farmers and scientists recognized in system was practiced with the system the direction of scientific farming, the Indian Council of Agricultural Research (ICAR) implemented an Ally Co-Ordinated Research Project on Brackish Water Fish Farming during 1973-1984 to encourage and testing farming technologies in different agro-climatic conditions of the country. Simultaneously, shrimp late technology was also introduced into the country. Marine Products and Exports Development Autre (MPEDA) supported the establishment of commercial hatcheries in the late 1980s. Once these initiatives: materialized, shrimp farming in India progressed, especially between 1990 and 1994.

Shrimp farming in India is mostly concentrated in the coastal states such as Andhra Praded, if Bengal, Kerala, Orissa, Tamil Nadu, Karnataka, Maharashtra, Gujarat and Goa. P. Monodon (tiger shim)s extensively cultured for many years. However, today, L. Vannamei was favored by farmers for its suitable high stocking of seed and its demand in international markets. The details of species-wise shrimp product (only culture fisheries) in India are provided in Table 1.

Table 1. Species-wise (Decadal) Shrimp Production in India

Species		2006-07	2007-08	2908-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
P. Monodon	AUC	149632	122079	109758.7	102259	113953	114379	93110,43	72177	71400	6951
	EP	144347	106165	75996,54	95919	118575	135466	124402.7	74700	73155	\$14
L	AUC	0	0	0	-		133499	123302.7	76798		591
l'amamei					283	2931	7837	22715.71	57267	50240	771
	EP	0	0								
Scampi	ATTO			0	1731	18247	30717	147516.2	150507	353413	104
ocampt .	AUC	AUC 30042	50206	18421.14	8154	-		*******	2,000		11
	EP	30115	27262	12806.25		5511.72	6244	3432	9175	9307,49	
Total	AUC	179674			6568	3721	4269	3625	3545	1989	101
			172285	127209.84	110696	122295.72					100
	EP	174462	133427	55502.79			128451	119258.14	138619	130947.49	
A	LIC	Area I			104218	140543	220452	274443.9	330550	434557	1

UG: Area Under Culture (in hectares); EP: Estimated Production (in tons) (MPEDA)

country

Volume ?

198 14

14

a

Table 1 shows that farmers began L. Vannamei culture only during 2009-10, but it exhibited a production of scampi has reduced and monodon and reached. Table 1 steel years. By 2015-16, it superseded P. Monodon and reached a stage of 4,06,018 ISSN NO:2236-6124. The production of scampi has reduced gradually for various reasons. The area under P. Vannamei is far greater the area under L. Vannamei with 50. The production is larger with 68,846 hectares than the area under L. Vannamei with 59,116 hectares, the output of L. Vannamei is far greater than that of P. Monodon. The production is production in the production of P. Monodon. culture is larger than the area under L. Vannamei with 59,116 hectares, the output of L. Vannamei is far greater than that of P. Monodon. The predominating trend of L. Monodon. The predominating trend of L. -6124

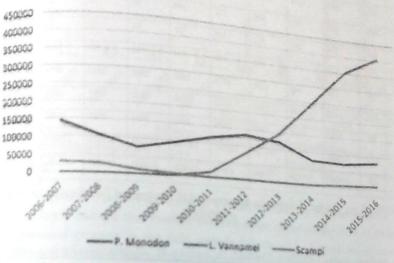


Figure 1. Production Trends of Three Species of Shrimp

As mentioned earlier, shrimp farming became a buzzing economic activity in the coastal states of the Table 2 provides state-wise area under shrimp culture in hectares and production in MTs.

Table 2. State-wise Shrimp Production in India

	EP	5151	5903	4309	7096	3072					
erala	AUC	11691	7598	8290		8075	8138	5175	3360	3840.18	382
	EP	5307	3438	4133	2702	11788	12809	12917	12719	15385.44	1262
ondicherry					2707	4129	14960	25815	27197	32785.72	4564
amil Nadu	AUC	3712	2730	4673	2381						
	EP	75414	56557		2381	2265	5757	7804	5430	5199.94	826
			*/***	29706	41192	65943	126466	159083	213522	279727	300278
Andhra Pradesh	AUC	65234	5396	36395	3410						
					3418	44794	42402	35218	52286	40445	42462
-	EP	9726	5410	3544	6149	7520	11001	35294	13982	22539	29936
Odisha	AUC	11453	6296	5362	4769	5324	8622	6302	6008	9297	10778
	EP	42004	28000	27418	33485	40725	45999	52581	53528	57369.77	72554
Bengal											
West	AUC	50915	48236	47455	47405	47568	49555	48410	48860	53947	58285
fitates		2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16

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Figure 1. Overall Growth Trend of Stationap Freehousties in Sadin

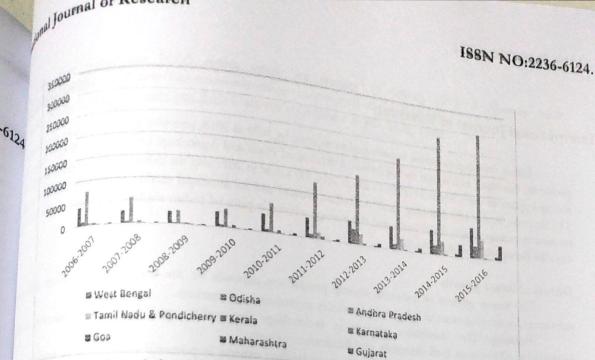


Figure 3. State-Wise Growth Trends of Shrimp Production

In Figure 3, it is clearly noticed that Andhra Pradesh is far ahead of the rest in shrimp production. The persons for its dominant position in the field include culture of L. Vannamei in most of the area under poulture and adopting scientific management practices. Thus, India has grown to be one of the major theres of shrimp in the world. In 2016-17, the overall shrimp production reached 600,000 tons. India targets amilion MT of shrimp production by 2020 (Harkell).

bions for the growth

Vinnamei is extensively cultured in Andhra Pradesh which is a major producer of shrimp in India.

in stocking density with L. Vannamei culture leads to high production quantities.

#(specific pathogen free) Vannamei brood stock is imported from the United States for cultivation. Pacific the shrimp takes less time to grow to market size, is more resistant to disease than black tigers, and is more

of corporate companies and business people into the sector boosts its vertical as well as horizontal

of scientific management practices from digging to harvesting.

trence to producing high quality shrimp which is in demand in global market.

with of processing and packaging facilities across the coastal states.

initiatives of the governments to encourage farmers (Recently, the Government of Andhra Pradesh has power tariffs to aqua farmers from Rs. 3.75 to 2.00 per unit for one year with effect from 1 August 2018,

slightly decreases the farmers' burdens).

bation of Indian rupee has made its seafood products more attractive.

by of Indian seafood products.

Volum

International Journal of Research

Indian shamp production is estimated to increase by 10% in 2018, provided the climate doe to lead to shamp production is estimated to increase by 10% in 2018, provided the climate doe to lead to lead to the climate doe to lead to Indian shamp production is estimated to increase of Food and Agriculture Organization (FAO) is problems, according to a report by Globefish, a division of Food and Agriculture Organization (FAO) is problems, according to a report by Globefish, a division and its increased market accreased to a 15 asset by 30% to south 2,14,400 tonne and its increased market accreased Indian shamp proceeds, a division of process of the demand is expected to a problems, according to a report by Globerish, a division onne in 2017 and the demand is expected to a problems, according to a report by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp exports to the US rose by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp exports to the US rose by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp exports to the US rose by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp exports to the US rose by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp export to the US rose by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp export to the US rose by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp export to the US rose by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp export to the US rose by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp export to the US rose by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp export to the US rose by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp export to the US rose by 39% to south 2,14,400 sound in 2017 and the demand is expected to a shamp expect problems, according to a report of some by 30% to seach 2,14,400 themselves and its increased market acceptance for shring exports to the US rose by 30% to seach 2,14,400 themselves and its increased market acceptance for shring exports to the anni-dumping taniff on Indian shrings and its increased market acceptance for the decrease in the anni-dumping taniff on Indian shrings wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average are also and the average a shring exposes to the ann-dumping tanif on Indian state. The decrease in the ann-dumping tanif on Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average wholesale price of Indian shell-on Variance and the average than the Ecuadorian product (Revi).

Drivers of future growth

s of future growth

The future growth of cultured shrimp production depends on the degree of sectoring.

The future growth of cultured shrimp production depends on the degree of sectoring to the sectoring to th

infrastructure development in villages and stability in international markets. The future growth of the state formulation of low-cost feed materials, and fabrication of nets.

ation of low-cost feed materials, and fabrication dending centers in potential coastal towns, the landing tenters in infrastructure, constructing landing centers in potential coastal towns, the landing hours and supply of ice boxes are the major requirements. storages near landing centers, upgrading boats and supply of ice boxes are the major requirements

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s near landing centers, upgrading boats and supply
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Conclusion

Aquaculture is one of the burgeoning sectors in India today. Among other seafood nems in the tuna, crab, and lobster, shrimp is a low-priced alternative source of protein. Therefore, give consumption is on the rise. Through its foreign exchange earnings, shrimp has created a great bur a me level. It plays a major role in the socio-economic development of the people in the regions communications. sustainability of the sector is also in the hands of the farmers who produce healthy shrimp without asset malpractices for profits. Hence, the state and central governments need to introduce pro-aqua policis and effective steps to boost further growth of the sector.

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